Desktop Resource for
Specialty Ceiling Systems,
Acoustical Ceiling Panels
and Suspension Systems

USG

Ceiling
Systems   2007/2008

USG is a leading manufacturer of building materials for the construction and remodeling industries. From major commercial development and renovation to residential housing, our products turn vision into reality everywhere people live and work.

Since our founding in 1902, USG has produced products and systems to help architects and builders create environments that make our lives comfortable, safe and productive. Steadfast commitment to our core beliefs – safety, integrity, innovation, quality and service – has helped us become one of the world's top producers of ceiling systems, gypsum wallboard and related construction products.

Realize Your Vision

Beautiful, Lasting and Sustainable Environments

Design with Confidence

With over a century of service to the building industry, USG understands the issues you manage every day and the opportunities you see in the big picture. To help all customers—from architects, designers and specifiers to builders, contractors and installers—achieve their goals, we design our high-performance products to bring creative concepts to life and assure quality for the long term.

Choose Trustworthy Products

As the recognized innovator in ceilings and manufacturer of an extensive line of acoustical panels, specialty systems and suspension systems for drywall, USG is a leading ceilings supplier in North America. Our ceilings products are known and trusted because of our exacting performance standards.

Build Sustainably

With a firm belief that health, safety and environmental well-being are compatible with economic prosperity, USG maintains a longstanding commitment with our employees, customers and communities to reduce environmental impact, use recycled materials whenever feasible and eliminate manufacturing waste.

We are a founding member of the U.S. Green Building Council (USGBC), a diverse coalition of principals in the building industry. Promoting environmentally responsible design and construction, the council developed the LEED® (Leadership in Energy and Environmental Design) program to establish a rating system that defines "green building."
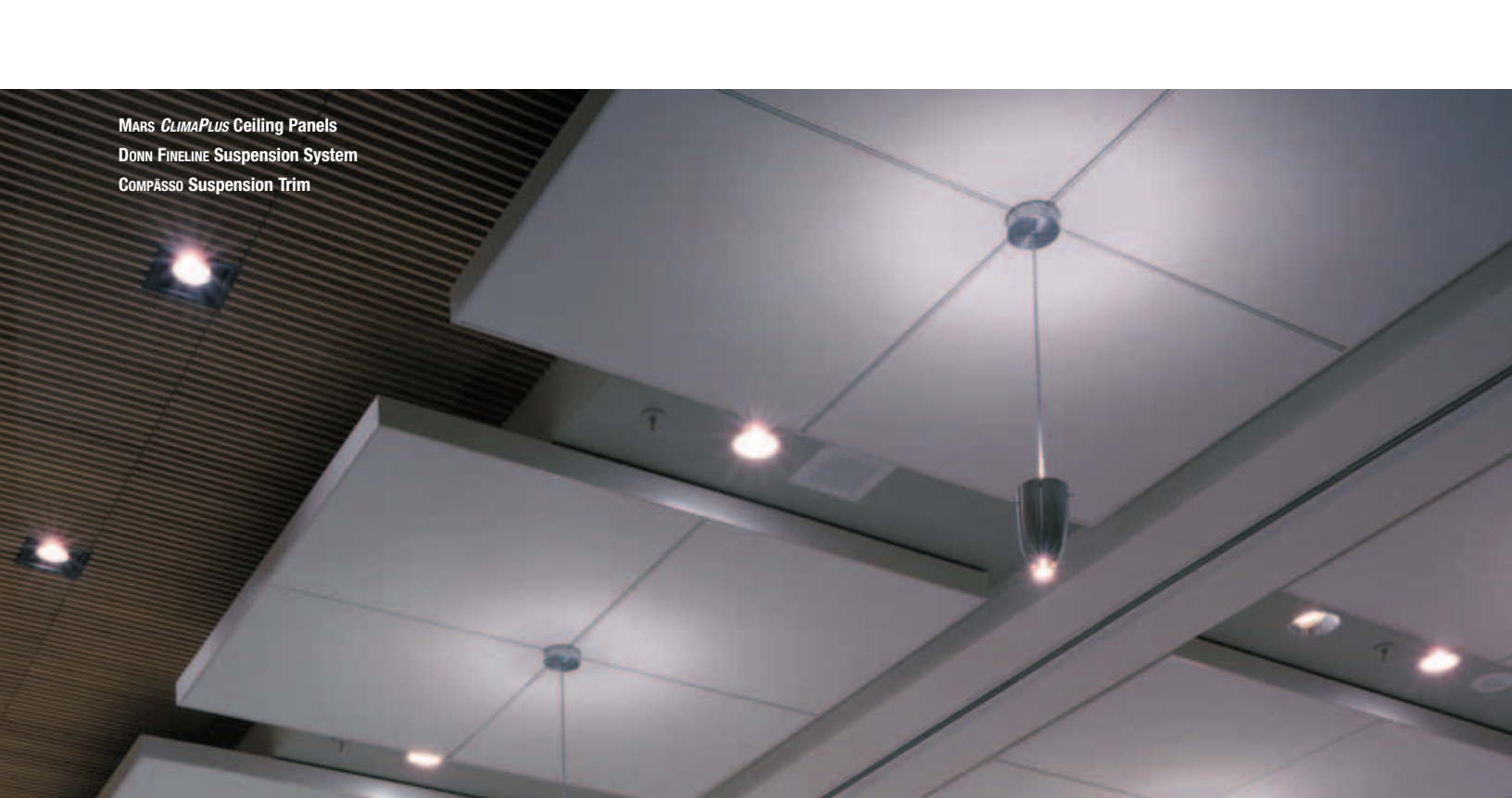
USG is committed not only to producing the highest-quality ceiling systems for creating inspired designs, but also to protecting and nurturing the environment we all share. Together, we can build a better world.

Contents

This handy desktop reference is an easy-to-use guide to the comprehensive selection of ceiling systems from USG. Inside, you'll discover clear, practical information on critical factors of ceiling design to help make the selection process enlightening and engaging.

Here's where to find the information you need to specify a USG ceiling system that looks as great as it performs.

Reach Higher with a USG Ceiling

From a simple white plane to a multidimensional domain energized with shape, texture and color, a USG ceiling provides the crowning touch that connects and completes the diverse elements of a space. Consider some of the great styles, materials and systems we offer to help you take your design to new heights.

Specialty Ceiling Systems

Geometrix 3-Dimensional Metal Ceiling Panels
Donn Centricitee Suspension System

Create a distinctive look, capture a mood and define spaces within spaces with innovative systems that are sure to be noticed. Choose from a range of materials, textures and finishes to complement and punctuate your design.

GEOMETRIX 3-Dimensional Metal Ceiling Panels
DONN CENTRICITEE Suspension System

Create unique curved, domed, and conventional flat drywall ceilings with ease. This flexible system is pre-engineered to simplify planning and construction, ensuring that the finished space is as dramatic and unique as your vision.

Drywall Suspension System

Design Considerations

The optimal ceiling choice satisfies several critical requirements including aesthetics, acoustical performance, fire protection, sustainability and value. USG manufactures a wide variety of quality ceiling systems with strong capabilities in a range of performance categories. Take a closer look at the criteria to consider when specifying a ceiling system and the many USG products available to create a design that performs as well as it looks.

Aesthetics

Acoustics

Abuse Resistance

Humidity Resistance

Fire Resistance

Sustainable Design

Aesthetic Performance

Because it is one of the most visible architectural features in a space, the ceiling plays a critical role in the overall aesthetic of any project. As the leading supplier of ceilings, USG understands that this fundamental design element must be able to support diverse designs and functional objectives.

We manufacture systems in a range of styles, textures and materials, and we offer the industry's most innovative collection of specialty and accent ceilings to faithfully bring alive your most imaginative concepts. Take a look at what you can create with USG ceilings.

Energy
Synthesize taut ceilings (walls, too!) with crisp lines, cadent planes and undulating surfaces.

GEOMETRIX metal ceiling panels
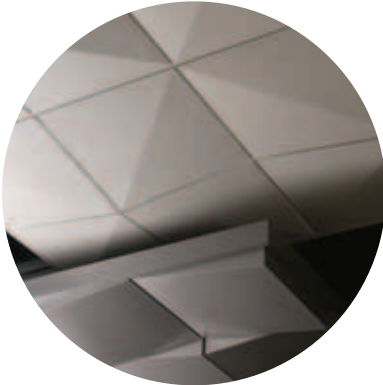
PARALINE linear metal ceiling system

TOPO 3-dimensional system
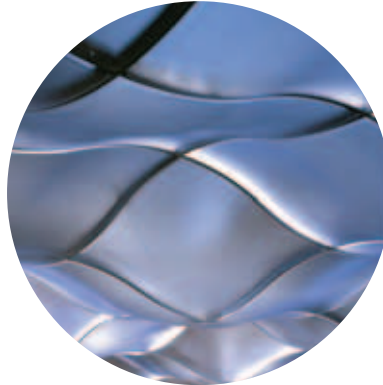
Mood
Make a statement with pattern and shape, or lighten the tone with gentle rhythm.

CADRE Executive ceiling coffers

CELEBRATION metal ceiling panels

BILLO 3-dimensional panels

Sophistication
Underscore design detail with a clean plane overhead.

ECLIPSE *CLIMAPLUS*

MARS *CLIMAPLUS*

FROST *CLIMAPLUS*

Impression
Step back in time with the look of fine, old-world plaster, wood and streamlined deco glass.

CADRE Historical ceiling coffers

QUADRA ceiling coffers
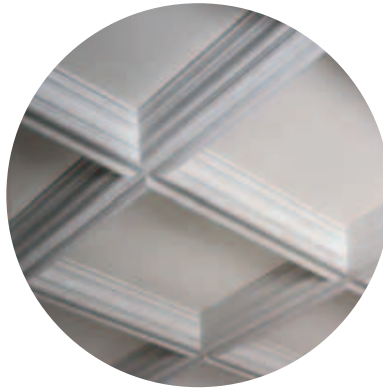
TRANSPARENCIES luminous ceilings
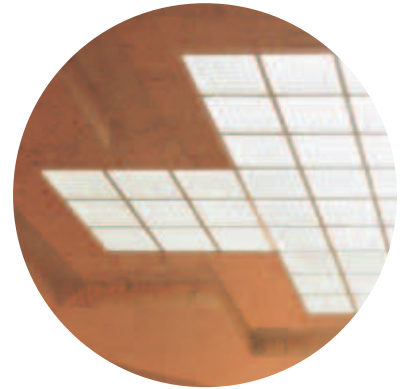
Definition
Give your design structure without obstruction.

CURVATURA 3-dimensional system
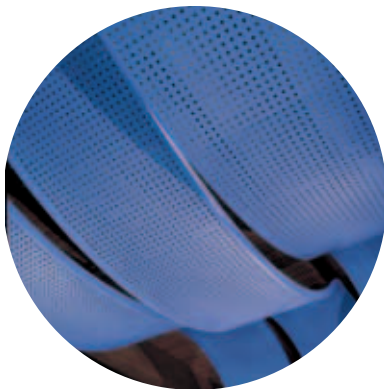
GRIDWARE suspension system
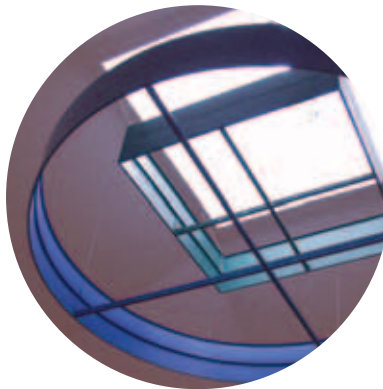
WIREWORKS open-cell ceiling panels
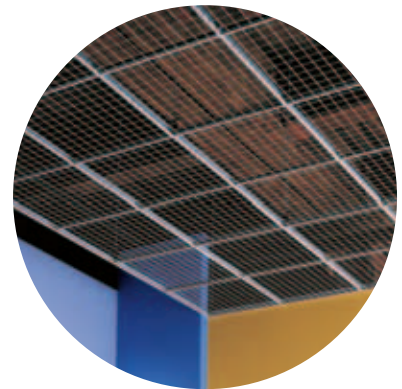
Islands
Create "getaways" to add interest, instill intimacy or designate functional zones.

COMPASSO suspension trim

C² Paired COMPASSO channels

USG Drywall Suspension System

Sustainable Design

Sustainable design seeks to create structures that require fewer natural resources to build, maintain and adapt to future uses. Key strategies include choosing quality, lasting materials and creating flexible, multi-functional spaces.

Consumers have become increasingly aware of the need to conserve energy, manage raw materials, reduce waste and safeguard against pollutants. In response, many developers and owners now demand buildings that will help save energy, preserve the integrity of surrounding land and assure a clean, healthy indoor environment.

Sustainable Solutions

USG has long supported sustainable building by emphasizing innovation, from the ingredients and resources we use to the manufacturing processes we employ. To help tell this story we are pleased to introduce *sustainableceilings.com,* a microsite that includes news articles, current events and interviews, as well as details about the many sustainable qualities of USG ceiling panels.

Take a closer look at the advantages that let you choose USG ceiling products with confidence.

Recycled and Renewable Materials

Recycled and renewable raw materials reduce consumption of energy and resources without diminishing the long-term performance of our products. Many USG ceiling products contain:

Synthetic mineral wool. We convert nearly 150,000 tons of slag, a waste product of steel making, to mineral wool every year, eliminating the need to mine and process raw materials and reducing landfill waste.

Recycled paper. Many of our ceiling panels contain paper recovered from both pre-consumer (cuttings from corrugated box manufacturing) and post-consumer (newspapers) use.

Corn and wheat starch binders. These renewable agricultural materials are an environmentally sound alternative to traditional binders derived from petroleum-based chemicals.

Recycled metal. Several of our metal specialty ceilings and ceiling and drywall suspension systems are made of steel and aluminum that includes recycled content. Aluminum offers additional benefits in that it can be fully re-purposed by re-melting and salvaging the metal.

For more information about recycled content in USG ceiling products, see the Sustainability selector on pages 101-102.

Sustainable Design

Responsible Manufacturing

Careful production methods are good for the environment and increase efficiency. Our practices include:

Using clean fuels. We use natural gas and low-sulfur oil whenever possible and conserve energy with heat-exchange processes throughout manufacturing operations.

Treating and recycling water. Managing water use saves more than 28 million gallons every day and reduces effluent discharges into municipal treatment systems.

Reducing waste. Waste from the production line and panels chipped or broken during processing are returned to the manufacturing cycle, keeping them out of landfills.

Offering specialized ceiling panels. Non-directional products such as RADAR™ ceiling panels allow more efficient use of material by reducing waste during installation.

High-durability acoustical panels extend the useful life of ceilings and reduce operating and replacement costs.

Panels with high light reflectance can enhance indirect lighting, reducing the number of light fixtures needed and lowering energy consumption.

For more information about the light reflectance of USG ceiling panels, see pages 88–89.

Recycling Old Ceiling Panels. USG can take back approved ceiling panels and recycle them into new building products. Reclaiming this waste can help meet the needs of a growing world and preserve natural resources.

To learn more about our recycling program for acoustical ceilings, see page 100.

Product Life Cycle. USG's commitment to health, safety and environmental responsibility is evident at every stage in the life cycle chain.

Life Cycle Assessment

Manufacturing

Distribution

Built Community/IEQ

Waste Management

Recycle

Reuse

Landfill
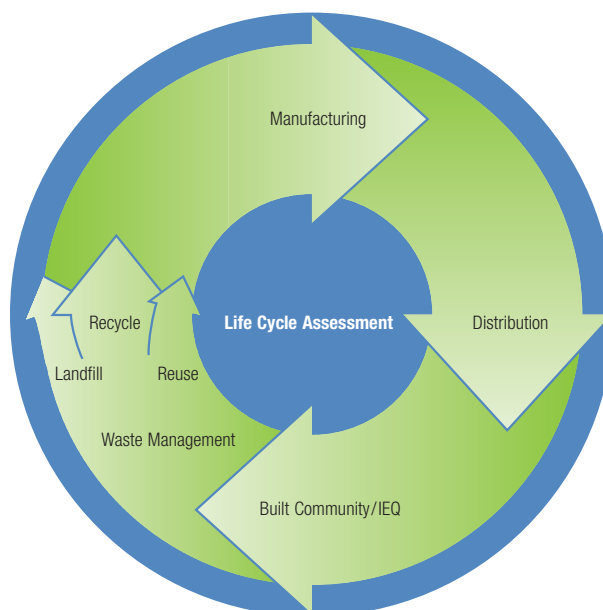
Antimicrobial Protection

Mold has become a significant concern due to today's tighter fabrication and fast-track scheduling, which can allow high levels of moisture to become trapped in a structure during construction or accumulate after occupancy. Architects, designers, contractors and maintenance engineers must work together to prevent and address moisture accumulation both during construction and throughout a building's life cycle. The best and most cost-effective strategy is to prevent water intrusion with good design, construction, and maintenance practices.

USG helps owners and specifiers provide additional safeguards against mold and mildew growth with several high-performance ceiling solutions:

Dual inhibition of mold/ mildew and bacteria

Many USG mineral-fiber panels with *CLIMAPLUS*™ performance are treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew and odor/stain-causing bacteria.

Superior protection and warranty coverage

A variety of USG mineral-fiber ceiling panels provide *CLIMAPLUS* Superior Performance to achieve a "no growth" 10 rating per ASTM mold/mildew tests. These are the only standard ceilings panels on the market with a limited lifetime (30-year) warranty against mold and mildew growth.

For more information about USG ceiling panels with antimicrobial treatment, see the Sustainability selector on pages 101-102.

ASTRO *CLIMAPLUS*
fine-textured panel
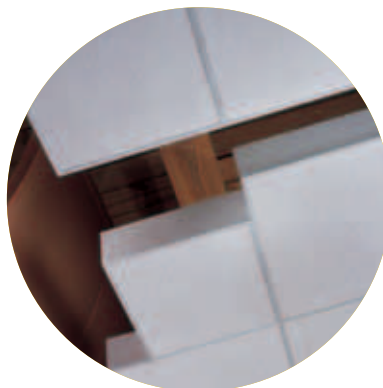
FROST *CLIMAPLUS*
fine-textured panel

Sustainable Design

Indoor environmental quality (IEQ) is a vital consideration because it has such an impact on the health and wellbeing of a building's occupants.

The choice of building materials is a critical factor because many products can release volatile organic compounds (VOCs), which include thousands of synthetic and natural chemicals emitted by a wide array of materials, finished products, and even microorganisms such as mold and mildew.

To help building professionals create healthy, comfortable spaces, USG formulates all ceiling panels and tiles with very little or no formaldehyde:

– Most panels outperform levels set by OSHA, Green Guard, and the State of Washington.

– Many mineral-fiber and gypsum-panel ceilings outperform standards established by the Collaborative for High-Performance Schools (CHPS).

– Several products meet or exceed the extremely stringent standard of the California Office of Environmental Health Hazard Assessment. Classified as formaldehyde-free, these products can help qualify for LEED EQ1 credit 3.2 and meet the intent of LEED credits 4.1, 4.2, 4.3, 4.4 and 5.0.

For more information about formaldehyde-free and low-formaldehyde ceiling products, see the Sustainability selector on pages 101-102.

Outperforming the Highest Standards

Formaldehyde (ppb)

800	
700	OSHA 750 ppb
75	
50	Green Guard and State of Washington 50 ppb
25	
10	CHPS 13.5 ppb
5	
0	California Office of Environmental Health Hazard Assessment 3 ppb

USG Formaldehyde-Free Ceilings — USG Mineral-Fiber and Gypsum Ceilings (Typical) — Fiberglass Ceilings (Typical)
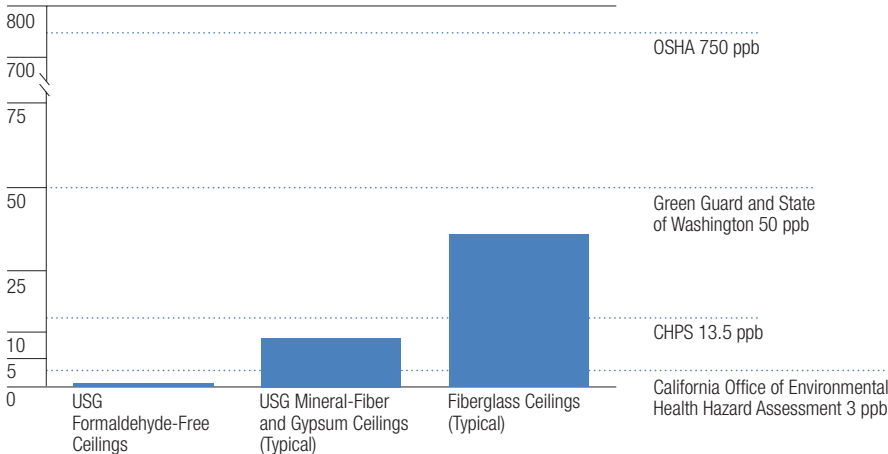
Earn LEED Credits

The most widely accepted national guidelines for environmentally conscious building is the LEED (Leadership in Energy and Environmental Design) GREEN BUILDING RATING SYSTEM® developed by the United States Green Building Council. As a founding member of the USGBC, USG is committed to helping architects and builders create structures that efficiently meet the needs of occupants while also protecting the surrounding environment.

LEED provides a third-party certification tool for verifying that a project has met the technical requirements of sustainable building through various aspects of its design and construction. A project may be awarded one of four levels of certification by earning up to 69 points in six categories. Following are credits for which USG ceilings may help a project qualify.

LEED Category	Available Credits	Products/Programs that May Assist in Qualifying for Credit
Energy and Atmosphere	— EA 1: Optimize Energy Performance	— Ceiling panels with high light reflectance (LR) can reduce the number of light fixtures needed, curbing energy consumption. See pages 88-89.
Materials and Resources	— MR 1.3: Building Reuse – Maintain Interior	— Cast-mineral-fiber panels are baked solid in molds for abuse resistance and through-color to resist abrasion and mask scrapes. See page 92.
	— MR 2.1 and 2.2: Construction Waste Management – Divert from Disposal	— USG offers a nationwide recycling program that can take back approved mineral-fiber panels, reducing the impact on landfills. See page 100.
	— MR 3.1 and 3.2: Resource Reuse	— Panels may contain synthetic mineral fiber converted from slag, a byproduct of steel making. Metal ceilings and components may include recycled aluminum. See page 13.
	— MR 4.1 and 4.2: Recycled Content	— Panels may contain paper recovered from both pre-consumer and post-consumer use. See pages 101-102.
	— MR 5.1 and 5.2: Regional Materials – Extracted, Processed and Manufactured Regionally	— For manufacturing locations of USG ceiling products, see pages 101-102.
	— MR 6: Renewable Materials	— Panels may contain corn and wheat starch binders, renewable alternatives to traditional petroleum-based binders. See page 13.
Indoor Environmental Quality	— EQ 4.1, 4.2, 4.3 and 4.4: Low-Emitting Materials	— All USG products are low-VOC emitters, and many panels emit no formaldehyde or only a very low amount. See pages 101-102.
	— EQ 8.1 and 8.2: Daylight and Views	— Ceiling panels with high light reflectance (LR) can improve the quality and quantity of natural light by enhancing indirect lighting. See pages 88-89.

Acoustical Performance

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The sound symbol on the product information pages in this catalog identifies USG ceiling panels designed to help improve privacy, comfort and productivity by effectively absorbing sound and blocking sound transmission. Privacy can be further enhanced with sound masking, which covers noise not absorbed or blocked.

In addition to making work spaces more acoustically comfortable, high-performance ceiling panels and sound masking can help highly regulated industries comply with federal privacy rules, such as the Health Insurance Portability and Accountability Act (HIPAA) in the healthcare industry and the Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), in the financial industry.

Here's a closer look at how quality USG ceiling panels and Lencore sound masking systems make spaces more pleasant, productive and industry compliant.

Sound Absorption

Noise Reduction Coefficient (NRC) measures the degree to which a ceiling panel absorbs sound. Ceiling panels with a high NRC value are most appropriate for open areas because they can reduce reverberation within a space.

NRC is represented by a number between 0 and 1.00, which indicates the percentage of sound reaching it that will be absorbed. For example, an acoustical ceiling panel with an NRC value of .60 will absorb 60% of the sound that strikes it and deflect 40% back into the space. A ceiling panel with an NRC of .50 or higher is considered to offer significant sound absorbing properties.

Sound Absorption
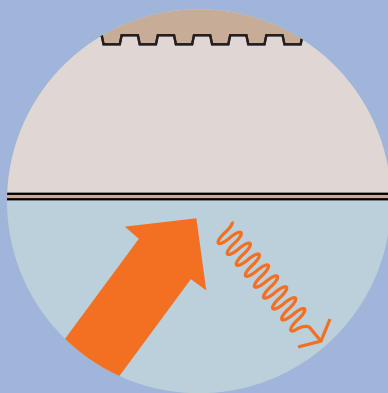
Sound Blocking
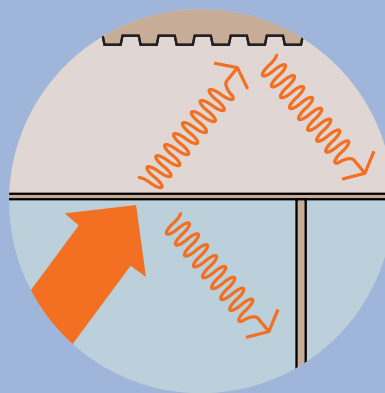
Sound Masking

Sound Blocking

Ceiling Attenuation Class (CAC) indicates the ability of a ceiling system to reduce sound transmission. Panels with a high CAC value can improve privacy in enclosed spaces by blocking sound from transmitting up into the plenum and down to adjacent rooms. A ceiling panel with a CAC of 40 will reduce transmitted sound by 40 decibels (dB). A ceiling panel with a CAC of 35 or higher is considered to offer significant sound attenuation properties.
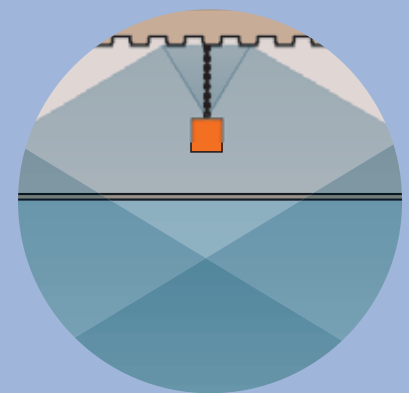
Sound Masking

Quality ceiling panels can absorb and block significant amounts of sound, but noise may still transmit and reflect to adjacent areas. A critical design decision is to add sound masking, which can cover noise and "mask" conversation in open areas and improve speech privacy in enclosed offices.

To help you achieve this level of acoustical performance, USG has teamed up with Lencore Acoustics, an industry leader in sound masking, to offer an effective, affordable solution that can significantly improve sound control in the environments you create. Sound masking helps you:

Equalize background sound. Lencore sound masking works by electronically producing a unique sound spectrum similar to that of softly blowing air. This carefully engineered sound is amplified through individual speakers installed above the suspended ceiling. The sound masking fills the plenum area and gently filters down through the ceiling panels into the space below, uniformly raising the background sound level to cover distracting office noise.

Improve concentration and speech privacy. In open-plan offices, sound masking can help workers concentrate without interference from nearby speakerphones, conversations and meetings. In enclosed offices and conference rooms, sound masking and high-CAC ceiling panels work together to prevent intelligible conversation from being overheard outside.

Provide acoustical balance. Even exceptionally quiet environments can benefit from sound masking. In these spaces, the faintest sounds—rustling papers, drawers opening and closing—can be distracting. By providing greater acoustical balance, Lencore sound masking can make almost any space more comfortable, functional and productive.

To learn more about how sound masking can enhance the sound control and speech privacy performance of a USG ceiling, see pages 230-231 or visit Lencore Acoustics online at www.lencore.com. Local assistance is available from Lencore expert representatives in all 50 states to provide complete project services and support, from acoustical analysis through system installation and tuning.

Specialized Performance

Many interior environments with demanding functions (such as food preparation, hydrotherapy, exercise, athletics and cleanroom control) require performance beyond aesthetics, sound control and sustainability. USG offers many options to meet a diverse range of performance needs.

Abuse Resistance

Routine plenum access can blemish panels with unsightly scratches, and chips and dents can occur in high-traffic areas such as hallways, classrooms and gyms. When durability is key, consider the following products.

Cast ceiling panels, available exclusively from USG, are formed and cured in molds, making them up to three times stronger than standard panels. Cast panels feature an integrally color-coordinated substrate to mask nicks or scrapes. Panels include:

– BRIO™ CLIMAPLUS™
– "F" FISSURED™
– FRESCO™ CLIMAPLUS™
– FROST™ and FROST™ CLIMAPLUS™
– GLACIER™
– SANDRIFT™ CLIMAPLUS™
– SUMMIT™ CLIMAPLUS™

Specially formulated mineral-fiber ceiling panels feature higher-density construction and special finishes to enhance durability and damage resistance. Panels include:

RADAR™ CLIMAPLUS™ High-Durability panels deliver 20% greater durability than competitive "school products" and 55% more than standard acoustical panels.

ROCK FACE® CLIMAPLUS™ and TOUCHSTONE™ CLIMAPLUS™ panels feature special textures and coatings for enhanced abuse resistance.

MARS™ CLIMAPLUS™ panels resist visible damage in independently verified surface scratch tests and withstand 150 scrub cycles without surface break using the Gardner Scrubability Test, per ASTM D2486[1].

SUMMIT CLIMAPLUS
fine-textured panel
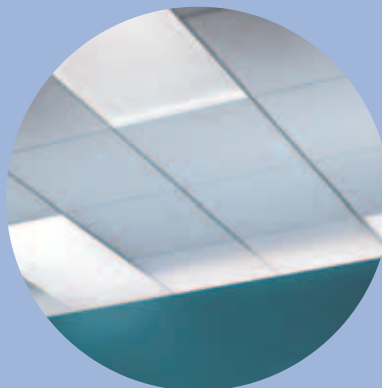
SANDRIFT CLIMAPLUS
medium-textured panel

1. Standard Test Methods for Scrub Resistance of Wall Paints.

Humidity Resistance

Moist air in indoor pool areas, shower and locker rooms, and buildings not fully enclosed can cause standard panels to visibly sag. For high-humidity areas, choose panels with *CLIMAPLUS* performance. These products resist sag in up to 95% relative humidity and up to 104 ˚F. RADAR™ Ceramic *CLIMAPLUS*™ panels even resist sag in up to 100% relative humidity. *CLIMAPLUS* products carry a limited warranty of up to 30 years when installed on a DONN® brand suspension system.

Fire Resistance

USG offers many ceiling panels with FIRECODE™ formulation, which provides special additives for increased fire resistance. Fire-rated suspension main tees are manufactured with relief notches that will contract in high heat to hold the ceiling assembly together and prevent collapse. Fire-rated panels and suspension system components are identified with the fire icon on the individual product pages in this catalog.

Cleanliness

Cleanrooms, food preparation areas and computer rooms require ceilings with specific attributes and performance levels. CLEAN ROOM™ *CLIMAPLUS*™ Class 10M-100M and Class 100 panels feature vinyl laminated surfaces and meet Federal Standard 209E, "Clean Room and Work Station Requirements Controlled Environments." SHEETROCK® brand CLEAN ROOM™ lay-in ceiling panels with gypsum core, sealed edges and vinyl face and back, can also be used in cleanrooms up to Class 100. Cleanroom-rated applications require a suspension system with gasketed tees such as the DONN brand CE system.

For food preparation areas, choose Class 100 panels or SHEETROCK® brand Vinyl *CLIMAPLUS*™ lay-in ceiling panels, which meet U.S. Department of Agriculture Food Safety Inspection Service requirements.

Exterior Applications

Exterior soffits and ceilings in open parking garages and marine environments are subjected to large temperature swings, wind, humidity and incidental water exposure. USG offers several products that can be used in these challenging applications:

– SHEETROCK Vinyl *CLIMAPLUS* lay-in ceiling panels
– DONN® brand ZXLA™ hot-dipped galvanized suspension system with aluminum cap

– PARALINE® linear metal ceiling system, wind-load tested to 120 mph.
– USG drywall suspension system for flat ceilings

Code Compliance

Building codes seek to ensure safer, stronger building systems and structures and minimize damage and liability in natural disasters and accidents. Key codes governing ceiling design address fire and seismic protection, design and construction.

Fire Resistance

Fire resistance refers to the ability of a ceiling, wall or floor assembly to serve as a barrier to fire and prevent its spread due to collapse, breaches in the barrier or excessive heat conduction.

Ratings

A fire-resistance rating (fire rating) classifies the length of time a ceiling can confine and isolate flame outside and resist heat transfer into a zone of fire resistance-rated wall, ceiling and floor assemblies. Fire-rated assemblies are tested and certified in their entirety by Underwriters Laboratories, Inc. USG offers more than 300 UL fire-rated ceiling assembly designs that have achieved UL fire ratings of up to three hours.

Another common life-safety rating is established by ASTM E84[2]. With this test, a material is exposed to flame and analyzed for two performance factors: flame spread and smoke developed. All USG acoustical ceiling panels are rated Class A (the highest possible) based on this test. These materials do not sustain a fire when flame is removed and do not generate significant amounts of visibility-obscuring smoke. Class A is not a fire-resistance designation.

Components for Fire-Rated Ceiling Assemblies

USG ceiling panels with FIRECODE formulation contain special additives that increase fire resistance and may qualify for use in fire-rated assemblies. FIRECODE panels are identified with a fire resistance icon on the individual product pages in this catalog.

Fire-rated ceiling assemblies also require demanding suspension system perforamance: main tees with fire relief notches, which contract in high heat to hold the ceiling together and prevent collapse. Several USG suspension systems are available with this important feature and are identified with a fire resistance icon on individual product pages.

For more information on fire-rated ceiling designs, see the UL Fire Resistance Directory, which is updated every year and can be viewed at www.ul.com. For a summary of USG fire-rated assemblies, see pages 233-242.

2. Standard Test Method for Surface Burning Characteristics of Building Materials.

New Seismic Requirements

Seismic force levels and design criteria were once considered only in certain earthquake-prone locations. But major revisions to the International Building Code (IBC) now require seismic ceilings throughout the U.S.

In addition to geographic location, the new code considers soil type at the building site and building function (e.g., hospital, school). Based on these criteria, more than half of the U.S. is now considered to be at some level of risk for seismic activity.

Today, the design team, consulting engineers and code officials must work together to analyze these factors and determine the applicable seismic design category (A–F). This information is now required for every construction project and must be included in the construction documents.

Components for Seismic Ceilings

Seismic ceiling design requirements apply specifically to the suspension system. The new guidelines expand the use of heavy-duty grid and 2″ wall angle, which are required in seismic design categories D, E and F.

Donn interior suspension systems are designed and qualified for use in seismic designs throughout North America. All USG suspension system main-tee and cross-tee connections meet IBC requirements for tension and compression strength. In some cases (IBC design categories D, E, and F), heavy-duty main tees are required. Applicable IBC and UBC seismic design categories for each suspension system tee are identified on the individual product pages in this catalog.

We also offer a 2″ seismic shadow molding (MS274), which features a 3/4″ reveal located by the wall to disguise its width. Note that the IBC (2003 edition, section 1621.2.5.2) provides no allowance for anything other than 2″ wall molding in seismic design categories D, E, and F. The ACM7 seismic clip supports tee ends at the wall, eliminating pop rivets and allowing either "fixed" or "floating" tee attachment to M7 wall molding. Even with this clip, however, 7/8″ wall molding may not be used in IBC categories D, E, and F unless approved by local code officials. No manufacturer offers a clip that is exempt from this requirement.

Learn more at www.seismicceilings.com.

To find out more about new requirements for seismic ceilings, visit the USG Seismic Ceilings Resource Center at www.seismicceilings.com. This informative new online resource features in-depth articles about the code change, FAQs, and interviews with ceilings experts. It also includes a comprehensive library of architectural details downloadable in PDF and CAD formats.

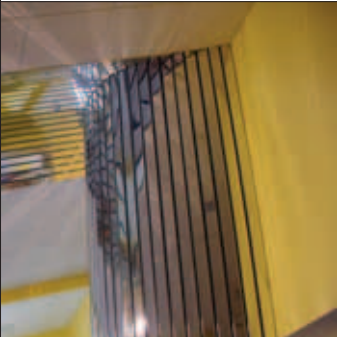# Compare

Specialty Ceiling Systems

Performance Selectors

USG offers the industry's most innovative collection of specialty and accent ceilings. Developed to highlight architectural elements and enhance visual interest, these systems transform ceiling areas into spectacular, expressive spaces.

USG

Specialty Ceilings

Sleek Planes and Angles

Metal Panels

CELEBRATION Panels	GEOMETRIX 3-Dimensional Panels	PANZ Panels
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PARALINE Linear Ceiling System

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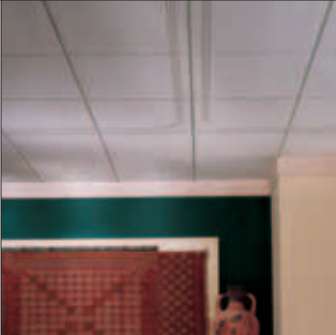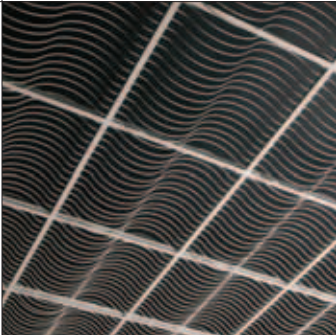
Energetic Curves

	COMPASSO **Suspension Trim**	CURVATURA **3-Dimensional System**	CURVATURA **Elite Suspension System**
Metal Systems	Page 54	Page 56	Page 56
	BILLO **3-Dimensional Panels**	TOPO **3-Dimensional System**	TRANSLUCENTS **Infill Panels**
Luminous Systems	Page 38	Page 74	Page 76

USG

Specialty Ceilings

	CADRE **Concepts Ceiling Coffers**	CADRE **Contemporary Ceiling Coffers**	CADRE **Executive Ceiling Coffers**
Fiber-Reinforced Cast Gypsum Systems	Page 40	Page 42	Page 44
	CADRE **Historical Ceiling Coffers**	CADRE **Coffers/**QUADRA **Suspension Woodgrain System**	QUADRA **Ceiling Coffers**
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	TRANSPARENCIES **"Glass Block" System**		
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USG

Stylish Vignettes

	RENDITIONS **Animations Panels**	RENDITIONS **Boundaries Panels**	RENDITIONS **Custom Panels**
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	C² **Paired** COMPASSO **Channels**	GRIDWARE **Suspension System**	WIREWORKS **Open-Cell Panels**
Metal Systems	 Page 52	 Page 60	 Page 80
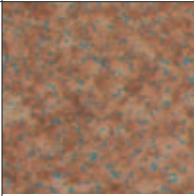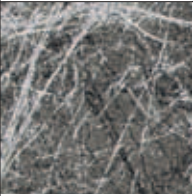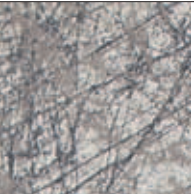
Metal
Finishes
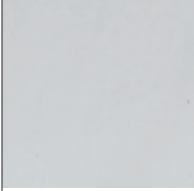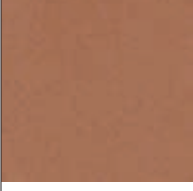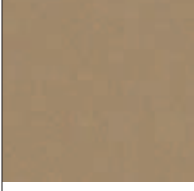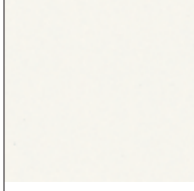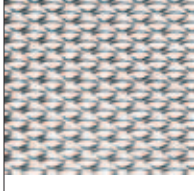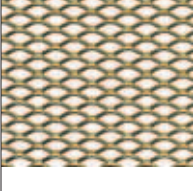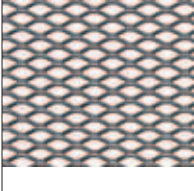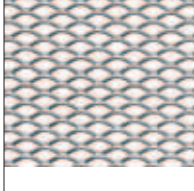
USG offers metal ceiling panels in five distinctive finishes: premium metal, anodized metal, brushed metal, polished metal and painted metal. These color reproductions are shown to represent available finishes and colors. A sample should be reviewed before placing an order.

Availability	Premium Metals	Anodized Metals	Painted Metals						DIAMONDFLEX Expanded Metals
			Flat White	Silver Satin	Metallic Copper	Metallic Gold	Metallic Oyster	Custom Color	
CELEBRATION Metal Ceiling Panels	○	○	●	●	○	○	○	●	
COMPÄSSO Suspension Trim		○	●	●				●	
C² Paired COMPÄSSO Channels		○	●	●				●	
CURVATURA 3-Dimensional System – 2′ x 2′ Panels			●	●	○	○	○	●	○
CURVATURA One-Directional System – 2′ x 6′ Panels			●	●	○	○	○	●	
GEOMETRIX 3-Dimensional Metal Ceiling Panels			●	●				●	
GRIDWARE Suspension System[1]			●	●	○	○	○	●	
PANZ Metal Ceiling Panels	○	○	●	●	○	○	○	●	○
PARALINE Linear Metal Ceiling System		○	●	●	○	○	○	●	

● Suspension, trim and panel available in same finish.
○ Suspension and trim available in coordinating painted colors only.

Premium Metals
2′ x 2′ panels only

Aged Copper (1017)	Etched Ice Dark (1016)	Etched Ice Light (1015)

Anodized Metals[2]
CELEBRATION and PANZ, 2′ x 2′ and 2′ x 4′ panels only

Brushed Aluminum (PIA12)	Polished Brass (PM21)	Polished Chrome (PM61)	Satin Brass (PM214)	Satin Chrome (PM614)

USG

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

1. Also available in Flat Black.
2. Anodized finish subject to "rainbowing"– multi-color patterns exaggerated by critical lighting.
3. Aluminum with brass-colored finish.
4. All Standard and Advantage colors available.

	Polished Brass (PM21)	Polished Chrome (PM61)			
Anodized Metals² COMPÄSSO – 2-1/4″, 4″, 6″ and 8″ trim only					
	Brushed Aluminum (PIA12)	Polished Aluminum (086)	Polished Brass (085)³		
Anodized Metals² PARALINE only; PII – black reveal not available with these finishes					
	Metallic Copper (1690)	Metallic Gold (1691)	Metallic Oyster (1652)	Silver Satin (002)	
Painted Metals⁴ Metallic finishes shown					
	Louvered Brass	Louvered Gunmetal	Louvered Silver		
DIAMONDFLEX Expanded Metals² 2′x2′ panels only					
	Sheer Brass	Sheer Gunmetal	Sheer Silver		

Metal Perforations

Presenting a complete line of perforation options for these USG systems: CELEBRATION metal ceiling system, CURVATURA 3-Dimensional system, GEOMETRIX metal ceiling panels and PANZ metal ceiling panels. All samples are 6″ x 6″. When ordering, please refer to the pattern number for perforation samples (for example, "A062").

To order custom perforation patterns, contact your local sales representative or fax your information to the USG Specialty Solutions Group at 440 892.7173.
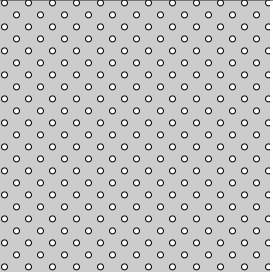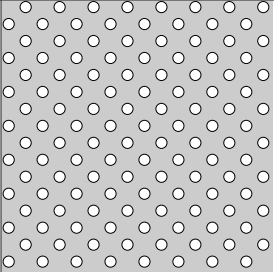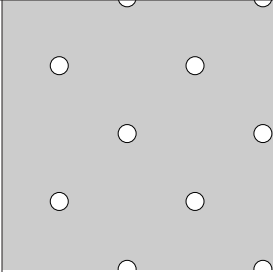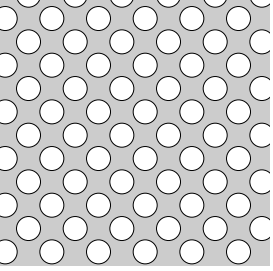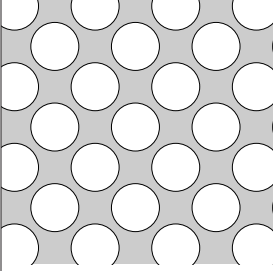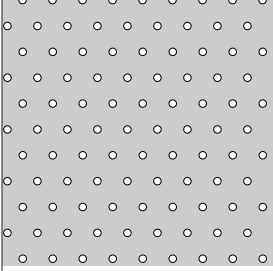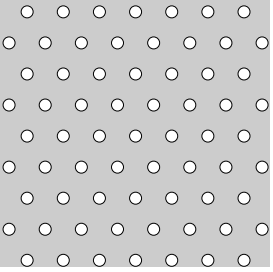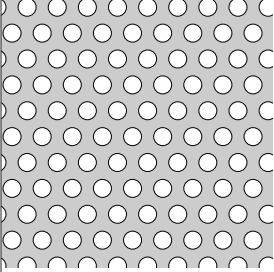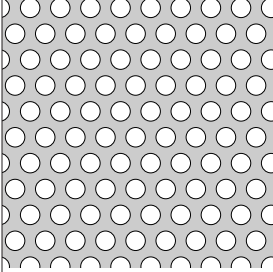
Standard Perforations

CELEBRATION, CURVATURA 3-DIMENSIONAL, GEOMETRIX and PANZ Systems

Pattern Number	Perforation Pattern	Open Area %
A062[1,2]	Round 1/16″ Perforations, .25″ o.c.	5%
A116	Round 15/128″ Perforations .354″ o.c.	17%
A188[2]	Round 3/16″ Perforations, 1″ o.c.	3%
A250	Round 1/4″ Perforations, .5″ o.c.	39%
A500[4]	Round 1/2″ Perforations, .848″ o.c.	55%
B079	Round 5/64″ Perforations .312″ o.c.	6%
B125	Round 1/8″ Perforations, .375″ o.c.	10%
B188A	Round 3/16″ Perforations, .312″ o.c.	33%
B197	Round 13/64″ Perforations .316″ o.c.	35%
B250	Round 1/4″ Perforations, .437″ o.c.	30%
B250H[2] (Formerly H250)	Round 1/4″ Perforations, .32″ o.c.	58%
B312	Round 5/16″ Perforations. .437″ o.c.	46%
B500[4]	Round 1/2″ Perforations, .600″ o.c.	63%
C062[3]	Round 1/16″ Perforations, .351″ o.c.	2%
C062A[3]	Round 1/16″ Perforations, .175″ o.c.	10%
C116	Round 15/128″ Perforations .344″ o.c.	8%
C188	Round 3/16″ Perforations, 1.414″ o.c.	1%
C250A	Round 1/4″ Perforations, .65″ o.c.	12%
C375[2,3]	Round 3/8″ Perforations, 1.125″ o.c.	9%
C500	Round 1/2″ Perforations, 1.5″ o.c.	9%
D250[2,3]	Square 1/4″ Perforations, .75″ o.c.	11%
D375[2,3]	Square 3/8″ Perforations, 1.125″ o.c.	11%
D500	Square 1/2″ Perforations. 1.5″ o.c.	17%
D500D[2]	Square 1/2″ Perforations. .595″ o.c.	70%
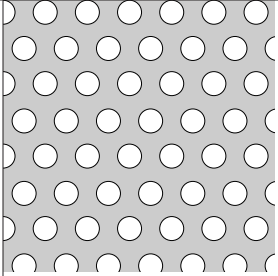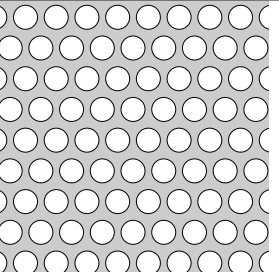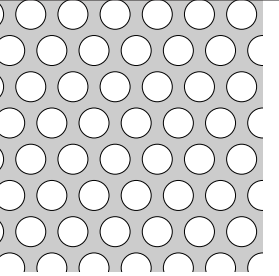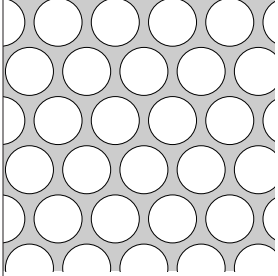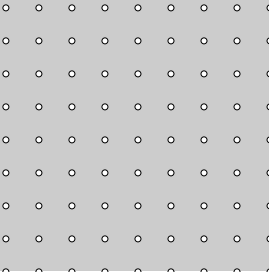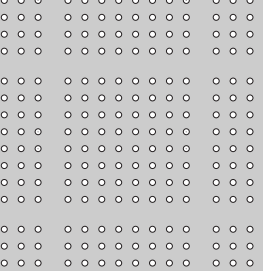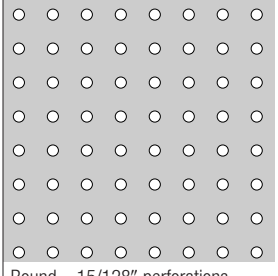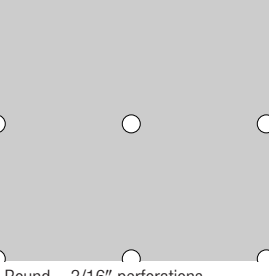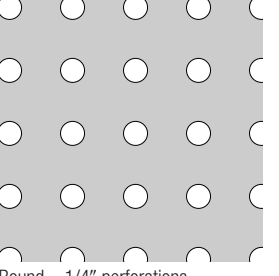
1. CELEBRATION, CURVATURA 3-Dimensional and PANZ systems; available for quick delivery.
2. CURVATURA System (2′x2′) available for quick delivery in these patterns only.
3. Standard for GEOMETRIX panels.
4. Do not use with One-Directional CURVATURA System.

USG

**Standard
Perforations**

Pattern No. A062	Pattern No. A116	Pattern No. A188
Round—1/16″ perforations	Round—15/128″ perforations	Round—3/16″ perforations
.25″ o.c., 5% open area	.354″ o.c., 17% open area	1″ o.c., 3% open area

Pattern No. A250	Pattern No. A500	Pattern No. B079
Round—1/4″ perforations	Round—1/2″ perforations	Round—5/64″ perforations
.5″ o.c., 39% open area	.848″ o.c., 55% open area	.312″ o.c., 6% open area
	Not to be used with the One-Directional Curvatura System	

Pattern No. B125	Pattern No. B188A	Pattern No. B197
Round—1/8″ perforations	Round—3/16″ perforations	Round—13/64″ perforations
.375″ o.c., 10% open area	.312″ o.c., 33% open area	.316″ o.c., 35% open area

– Perforation patterns shown at 50% of actual size.
– When ordering, please refer to the pattern number
  for perforation samples (for example, "A062").

Standard Perforations

Pattern No. B250

Round—1/4″ perforations

.437″ o.c., 30% open area

Pattern No. B250H (formerly H250)

Round—1/4″ perforations

.32″ o.c., 58% open area

Pattern No. B312

Round—5/16″ perforations

.437″ o.c., 46% open area

Pattern No. B500

Round—1/2″ perforations

.600″ o.c., 63% open area

Not to be used with the One-Directional Curvatura System

Pattern No. C062

Round—1/16″ perforations

.351″ o.c., 2% open area

Pattern No. C062A

Round—1/16″ perforations

.175″ o.c., 10% open area

Pattern No. C116

Round—15/128″ perforations

.344″ o.c., 8% open area

Pattern No. C188

Round—3/16″ perforations

1.414″ o.c., 1% open area

Pattern No. C250A

Round—1/4″ perforations

.65″ o.c., 12% open area

USG

Standard Perforations

Pattern No. C375	**Pattern No. C500**	**Pattern No. D250**
Round—3/8″ perforations	Round—1/2″ perforations	Square—1/4″ perforations
1.125″ o.c., 9% open area	1.5″ o.c., 9% open area	.75″ o.c., 11% open area

Pattern No. D375	**Pattern No. D500**	**Pattern No. D500D**
Square—3/8″ perforations	Square—1/2″ perforations	Square—1/2″ perforations
1.125″ o.c., 11% open area	1.5″ o.c., 17% open area	.595″ o.c., 70% open area

Select

Specialty Ceiling Systems

Product Information

Billo

Specialty Ceilings
3-Dimensional Panels

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC473

Product Information

Materials

Panels: Preformed LEXAN® polycarbonate.
Suspension System: All 2′ x 2′ DONN brand 9/16″ CENTRICITEE™ and FINELINE® profiles. Panels to fit the 2′ x 2′ 15/16″ DX®/DXL™ suspension system are available as a special order.

Size and Weight

Panels: 2′ x 2′
Weight: .25 lbs./sf.

Module Size

Full 2′ x 2′ modules only.

Code Approval

BILLO LEXAN infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

Finishes

Panel Color	Panel Light Transmission	Suspension System Coordinating Colors
Clear Translucent	94%	Silver Satin
Blue Translucent	78%	Blue
Glass Green Translucent	77%	Glass Green
White Translucent	26%	Flat White
White Opaque	0%	Flat White

Edge Details

BILLO Panels with 9/16″ CENTRICITEE (DXT) Suspension	BILLO Panels with 9/16″ FINELINE (DXF) Suspension	BILLO Panels with 9/16″ FINELINE 1/8 (DXFF) Suspension	BILLO Panels with 15/16″ DX/DXL Suspension

Panel Hold-Down Clip

Supplied with 9/16″ Down panels; available with 15/16″ Down panels and 9/16″ and 15/16″ Up panels.

hold-down clip
tee
BILLO panel

Assembly

View from Above

panel hold-down clip
BILLO panel
hanger wire
COMPÄSSO trim (optional)
USG DONN suspension system main tee
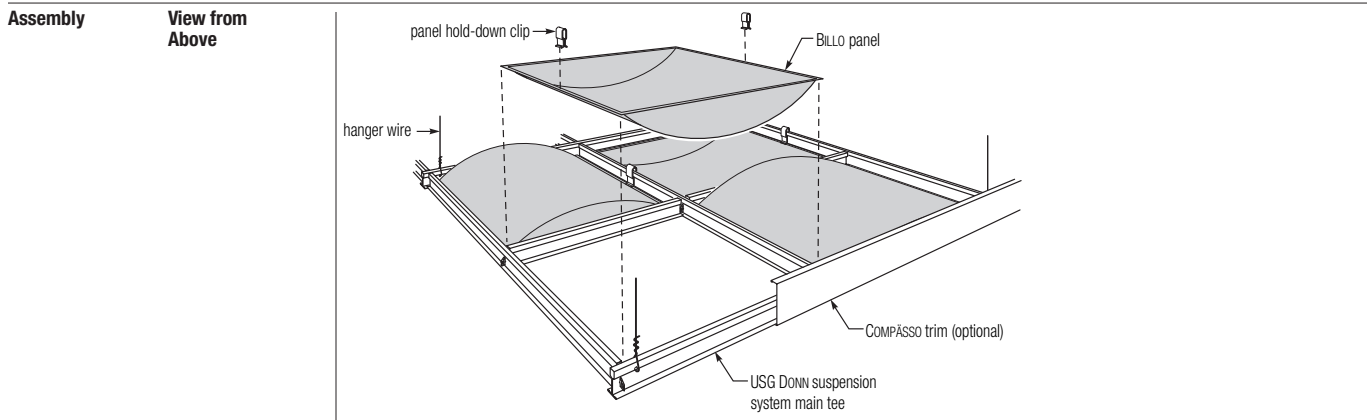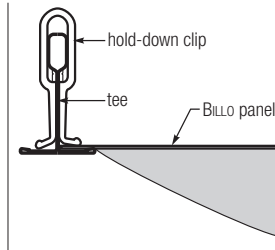
Supporting technical literature
IC472

Code approval
LEXAN infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

Recycled content
Contact Technical Service at 800 USG.4YOU.
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems.

Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

USG

Billo™

Features and Benefits

- Organic, 3-dimensional panels punctuate flat ceiling planes with rhythm and depth to create eye-catching focal points.
- 2' x 2' pre-formed LEXAN® panels create myriad patterns with just one simple panel shape.
- Lightweight, lay-in panels install into 9/16" narrow-profile and standard 15/16" Donn® brand suspension systems, allowing full ceiling accessibility.
- Luminous panels may be backlit with fluorescent strip fixtures or integrated with standard lay-in fixtures.

Applications
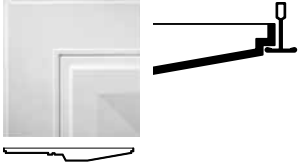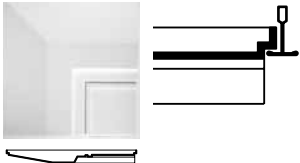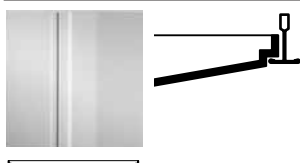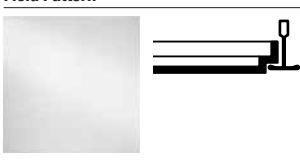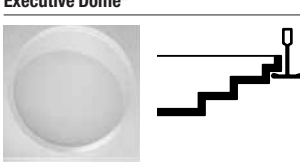
- All interior commercial applications.

Cadre Concepts

Specialty Ceilings
Ceiling Coffers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC303

Product Information

Materials	Fiber-reinforced cast gypsum.	
Finishes	Standard colors, Advantage colors and custom colors.	
Module Size	Full 2′ x 2′ modules only.	

Concepts Panels

	Size	Item Number	Edge	Surface	Color	Panel Designs
Inside Corner	15/16″ x 2′ x 2′	CD176	SL	Smooth	White	
Outside Corner	15/16″ x 2′ x 2′	CD177	SL	Smooth	White	
Border	15/16″ x 2′ x 2′	CD175	SL	Smooth	White	
Field Pattern	15/16″ x 2′ x 2′	CD178	SL	Smooth	White	
Executive Dome	15/16″ x 4′ x 4′	CD209	SL	Smooth	White	

Inside Corner

Outside Corner

Border

Field Pattern

Executive Dome*

* Overall dome height is 11″.

Suggested Ceiling Layout

ASTM E84 Surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Cadre®
Concepts

Features and Benefits
- Contemporary sculpted ceiling with complete accessibility to all above-ceiling utilities.
- Available in 2′ x 2′ and 4′ x 4′ lay-in panels for use with standard USG Donn® brand suspension systems.
- Pre-cut openings for hardware available or openings can be field-cut on site.
- Available in Standard colors, Advantage colors and custom colors.

Applications
- Financial institutions
- Office conferencing areas
- Ornate public spaces

Cadre Contemporary

Specialty Ceilings
Ceiling Coffers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC306

Product Information

Materials	Fiber-reinforced cast gypsum.	
Finishes	Standard colors, Advantage colors, custom colors and four woodgrain finishes.	
Module Size	Full 2′ x 2′ or 4′ x 4′ modules only.	

Contemporary Panels

	Size	Item Number	Edge	Surface	Color
Classic	15/16″ x 2′ x 2′	CD430	SL	Smooth	White
	15/16″ x 2′ x 2′	CD630-01	SL	Woodgrain	Natural Oak
	15/16″ x 2′ x 2′	CD630-02	SL	Woodgrain	Medium Walnut
	15/16″ x 2′ x 2′	CD630-03	SL	Woodgrain	Mahogany
	15/16″ x 2′ x 2′	CD630-04	SL	Woodgrain	Pearl Oak
Classic Chandelier	15/16″ x 4′ x 4′	CD216	SL	Smooth	White
	15/16″ x 4′ x 4′	CD165-01	SL	Woodgrain	Natural Oak
	15/16″ x 4′ x 4′	CD166-02	SL	Woodgrain	Medium Walnut
	15/16″ x 4′ x 4′	CD167-03	SL	Woodgrain	Mahogany
	15/16″ x 4′ x 4′	CD168-04	SL	Woodgrain	Pearl Oak
Traditional Chandelier	15/16″ x 4′ x 4′	CD179	SL	Smooth	White
	15/16″ x 4′ x 4′	CD180-01	SL	Woodgrain	Natural Oak
	15/16″ x 4′ x 4′	CD181-02	SL	Woodgrain	Medium Walnut
	15/16″ x 4′ x 4′	CD182-03	SL	Woodgrain	Mahogany
	15/16″ x 4′ x 4′	CD183-04	SL	Woodgrain	Pearl Oak

Panel Designs

Classic

Classic Chandelier

Traditional Chandelier

Suggested Ceiling Layout

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Cadre®
Contemporary

Features and Benefits

- Contemporary sculpted ceiling with complete accessibility to all above-ceiling utilities.
- Available in 2′ x 2′ and 4′ x 4′ lay-in panels for use with standard USG DONN® brand suspension systems.
- Pre-cut openings for hardware available or openings can be field-cut on site.
- Custom panel designs can be manufactured to meet exact specifications.
- Available in Standard colors, Advantage colors, custom colors and four woodgrain finishes.

Applications

- Financial institutions
- Office conferencing areas
- Ornate public spaces

Cadre Executive

Specialty Ceilings
Ceiling Coffers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC305

Product Information

Materials	Fiber-reinforced cast gypsum.	
Finishes	Standard colors, Advantage colors and custom colors.	
Module Size	Full modules only.	

Executive Panels

	Size	Item Number	Edge	Surface	Color
Corner	**15/16″ x 4′ x 4′**	**CD210**	SL	Smooth	White
Border	**15/16″ x 2′ x 4′**	**CD211**	SL	Smooth	White
Executive	**15/16″ x 2′ x 2′**	**CD680**	SL	Smooth	White
Field Pattern	**15/16″ x 2′ x 2′**	**CD212**	SL	Smooth	White
Executive Dome	**15/16″ x 4′ x 4′**	**CD209**	SL	Smooth	White

Panel Designs

Corner

Border

Executive

Field Pattern

Executive Dome*

* Overall dome height is 11″.

Suggested Ceiling Layout

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5
UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Cadre®
Executive

Features and Benefits

- Classic, modern coffered architecture provides complete accessibility to above-ceiling utilities.
- 2′ x 2′, 2′ x 4′, and 4′ x 4′ lay-in panels for use with standard USG DONN® brand suspension systems.
- Pre-cut openings for hardware available or openings can be field-cut on site.
- Available in Standard colors, Advantage colors and custom colors.

Applications
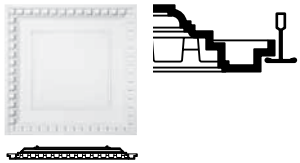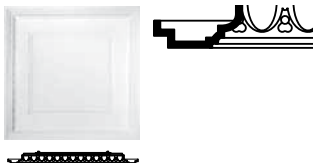
- Financial institutions
- Office conferencing areas
- Ornate public spaces
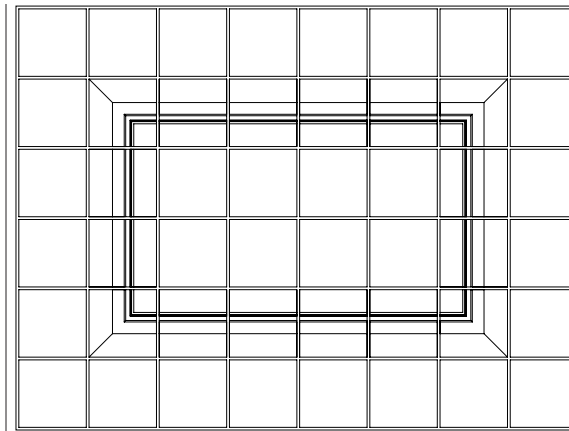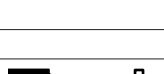
Cadre Historical

Specialty Ceilings
Ceiling Coffers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC335

Product Information

Materials	Fiber-reinforced cast gypsum.	
Finishes	Standard colors, Advantage colors, custom colors and four woodgrain finishes.	
Module Size	Full 2′ x 2′ modules only.	

Historical Panels

	Size	Item Number	Edge	Surface	Color
Dentil	15/16″ x 2′ x 2′	CD420	SL	Smooth	White
	15/16″ x 2′ x 2′	CD620-01	SL	Woodgrain	Natural Oak
	15/16″ x 2′ x 2′	CD620-02	SL	Woodgrain	Medium Walnut
	15/16″ x 2′ x 2′	CD620-03	SL	Woodgrain	Mahogany
	15/16″ x 2′ x 2′	CD620-04	SL	Woodgrain	Pearl Oak
Egg & Dart	15/16″ x 2′ x 2′	CD410	SL	Smooth	White
	15/16″ x 2′ x 2′	CD610-01	SL	Woodgrain	Natural Oak
	15/16″ x 2′ x 2′	CD610-02	SL	Woodgrain	Medium Walnut
	15/16″ x 2′ x 2′	CD610-03	SL	Woodgrain	Mahogany
	15/16″ x 2′ x 2′	CD610-04	SL	Woodgrain	Pearl Oak
Rosette	15/16″ x 2′ x 2′	CD390	SL	Smooth	White
Traditional	15/16″ x 2′ x 2′	CD370	SL	Smooth	White
	15/16″ x 2′ x 2′	CD670-01	SL	Woodgrain	Natural Oak
	15/16″ x 2′ x 2′	CD670-02	SL	Woodgrain	Medium Walnut
	15/16″ x 2′ x 2′	CD670-03	SL	Woodgrain	Mahogany
	15/16″ x 2′ x 2′	CD670-04	SL	Woodgrain	Pearl Oak
Traditional Dome	15/16″ x 4′ x 4′	CD184	SL	Smooth	White

Panel Designs

Dentil

Egg & Dart

Rosette

Traditional

Traditional Dome*
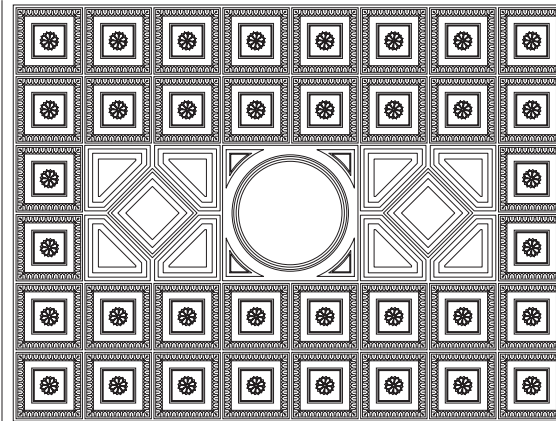
* Overall dome height is 11″.
 Not available in woodgrain finishes.

Suggested Ceiling Layout

Supporting technical literature
SC1781
ASTM E84 surface burning characteristics
Class A. Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

The following are trademarks of USG Interiors, Inc., or a related company: Cadre, Donn, Quadra, USG.

USG

Cadre®
Historical

Features and Benefits

- The look of a turn-of-the-century sculpted ceiling with complete accessibility to above-ceiling utilities.
- Pre-cut openings for hardware available or openings can be field-cut on site.
- Custom panel styles can be manufactured to meet exact design requirements.
- Available in Standard colors, Advantage colors, custom colors, and four woodgrain finishes.

Applications
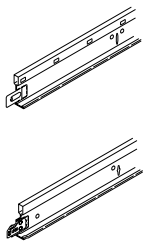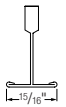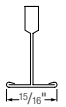
- Financial institutions
- Office conferencing areas
- Ornate public spaces
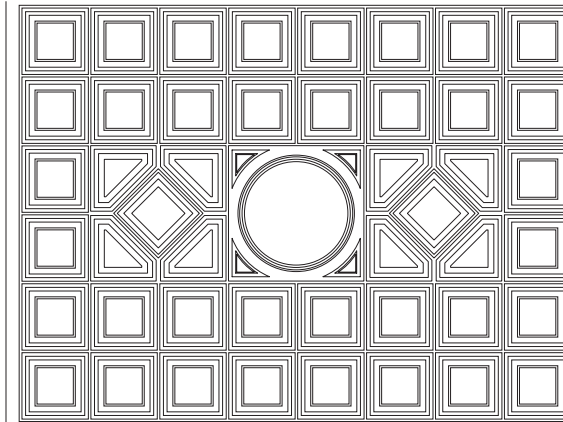
Cadre/Quadra Suspension

Specialty Ceilings
Suspension and Covers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC330

Product Information

Materials	Suspension: Donn DX/DXL intermediate-duty suspension system.	
Finishes	Suspension: Flat White and four faux painted woodgrain finishes. Use the following color codes for ordering: Natural Oak (010), Medium Walnut (020), Mahogany (030), and Pearl Oak (040).	
Assembly	The Cadre/Quadra suspension must surround the ceiling system; wall molding should not be used to carry perimeter panels.	

15/16″ Tee System

	Class A	Length	Height	Item No.	Tested Load		
					4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
Main Tee	Intermediate Duty	12′	1 1/2″	DX/DXL24	12.0 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
Cross Tee		2′	1″	DX/DXL216			
		4′	1 1/2″	DX/DXL424			
Wall Molding		12′	—	M7			

15/16″

15/16″

USG

Cadre®/Quadra™ Suspension

Natural Oak

Medium Walnut

Mahogany

Pearl Oak

Features and Benefits
- Donn® brand DX®/DXL™ 15/16″ suspension system with highly decorative faux finish matches all Cadre™/Quadra® woodgrain ceiling coffers.
- Monolithic or all-wood appearance when used with woodgrain panels.

Applications
- Financial institutions
- Office conferencing areas
- Ornate public spaces

Celebration

Specialty Ceilings
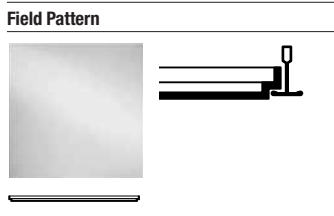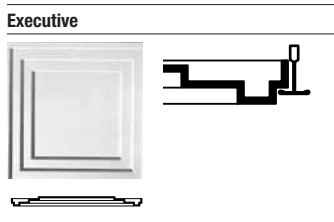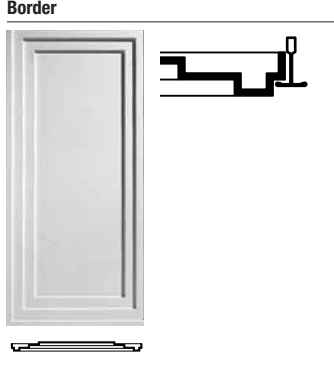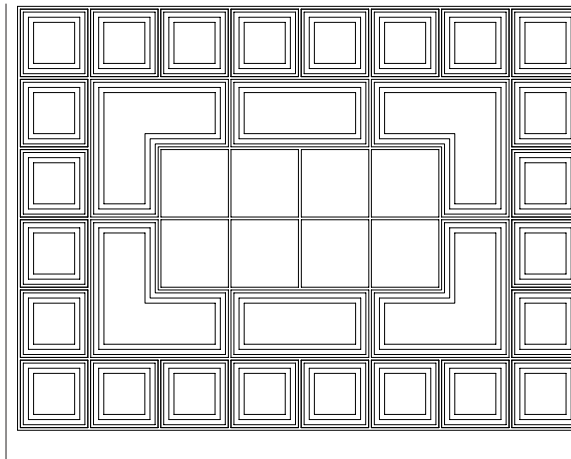Metal Ceiling Panels

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC308

Product Information		
Materials	Aluminum panels: Painted or anodized.	
Finishes	Premium metal, anodized, and smooth or perforated panels in Flat White, Silver Satin and custom colors. See Metal Finishes and Metal Perforations selectors for more finish options.	
Typical Sizes [1]	2′ x 2′, 4′ x 4′ [2], 30″ x 30″	
Plenum Depth	Since panels are installed from below, the clearance for installation and removal of panels is minimal. Additional plenum clearance of up to 9″ is required for air boot and lighting installations, depending on the unit selected.	
Grid Layout	The modular nature of CELEBRATION ceilings must be considered when an installation is designed. Main tees and cross tees are exactly on module lines. Panels may be field-cut at walls and columns or terminated at a grid module for island installations.	

Acoustics

Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

Air Handling	Air diffusers may be located around the perimeter of the ceiling or laid into the grid in place of CELEBRATION panels. The CELEBRATION diffuser is an extruded aluminum frame with matching faceplate and color-coordinated vanes, in 1-, 2-, 3-, and 4-slot configurations, with four-directional throw.	
Weight	Approximately .53 lbs. per sq. ft., not including lights and air diffusers.	
Code Approval	CELEBRATION panels provide a continuous interlock with the suspension system. Supporting grid is capable of sustaining loads greater than those imposed by the CELEBRATION system when installed in accordance with manufacturer's instructions.	

Perspective

DONN FINELINE
DXF suspension system

CELEBRATION
panels snap in place
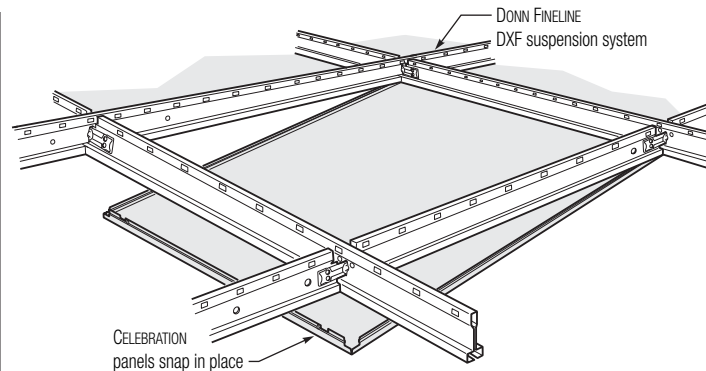
CELEBRATION Air Diffuser
Available in 1-, 2-, 3- and 4-slot configurations, with four-directional throw.

USG

Celebration™

Features and Benefits

- Aluminum panels combine great looks with the strength of metal.
- Precision 1/4″ reveal and concealed suspension system provide a monolithic appearance.
- Available in numerous perforation patterns in painted, anodized metals.
- Snap-up installation with downward access is excellent for shallow plenum areas.
- Close tolerances provide exact fit and secure, vibration-free installation with clean intersections.
- Easy installation into USG's standard DONN® brand FINELINE® suspension system.
- ACOUSTIBOND® sound backer produces .65 NRC without additional acoustical material when used with perforated panels within an enclosed plenum. (minimum plenum depth 18″)
- Systems up to 30″ wide and 78″ long windload tested to 120 MPH with proper bracing and exterior framing.

Applications

- Entertainment
- Gaming
- Exterior soffits
- Hospitality
- Transportation terminals

C² Paired Compässo Channels

Product Information	Materials	Painted steel.
	Finishes	Standard colors, Advantage colors and custom colors.

Custom Designs
Pre-engineered – no field cutting
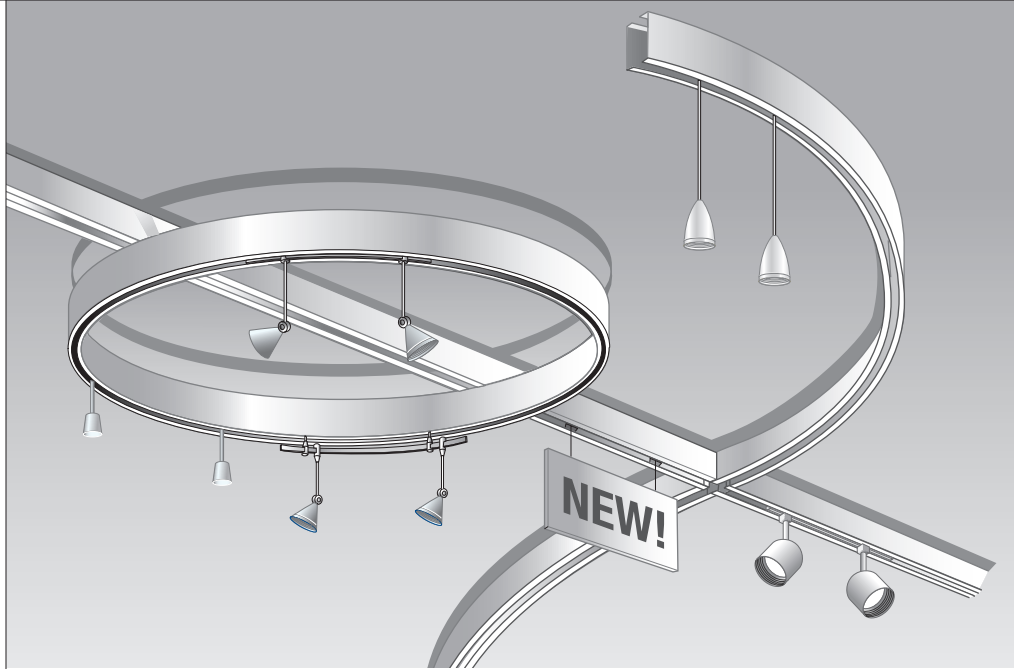
Size Options	Narrow Reveal (5/8″)			Wide Reveal (1-3/8″)	
	4″	6″	8″	6″	8″
	1³/₄"	1³/₄"	1³/₄"	2¹/₂"	2¹/₂"

Supporting technical literature
IC400.
Recycled content
See the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

C² Paired Compässo™ Channels

Features and Benefits
- Unique, multi-functional ceiling accents combine form and function.
- Easily integrate lighting and signage; can also be used as way-finding devices.
- Available in straight and curved sections; five sizes; and Standard colors, Advantage colors and custom colors to meet any design need.
- Easy to install—suspend from ceiling with hanger wire, cable, or rods.

Applications
- Retail spaces
- Contemporary offices
- Education environments
- Entertainment
- Gaming

Compässo

Specialty Ceilings
Suspension Trim

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC309

Product Information	Materials	2-1/4″, 4″, 6″ and 8″ painted steel. 10″ and 12″ painted aluminum.
	Finishes	Standard colors, Advantage colors and custom colors.

Perspective

field-cut panel
COMPÄSSO attachment clip
main tee
cross tee
COMPÄSSO trim
COMPÄSSO splice plate
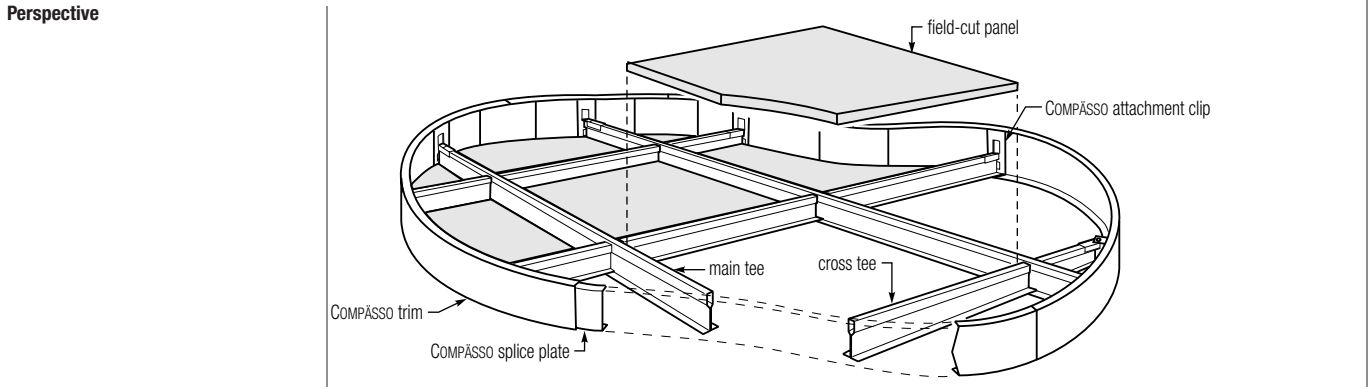
Trim Profiles

2-1/4″	4″	6″	8″	10″	12″
2¹/4″ 9/16″	4" 9/16″	6" 9/16″	8" 9/16″	10" 9/16″	12" 9/16″

Attachment Clip

2-1/4″, 4″, 6″, 8″	10″, 12″

COMPÄSSO attachment clip
1¹/2" (height) tee
2¹/4", 4", 6" or 8" COMPÄSSO trim

diagonal brace (included with COMPÄSSO clip)
COMPÄSSO attachment clip
1¹/2" (height) tee
10" or 12" COMPÄSSO trim

Supporting technical literature
See IC400 for more detailed information.
Recycled content
See the Sustainability selector.

Safety First!
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USG

Compässo™
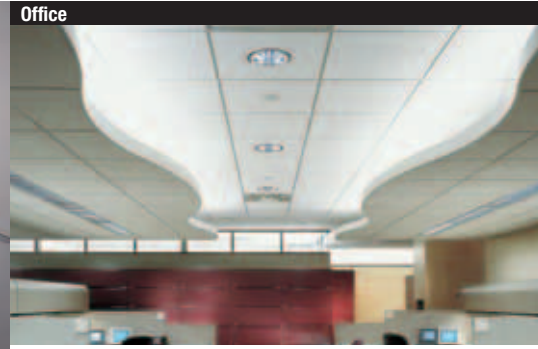
Features and Benefits

- Creates free-form island ceilings or fascias with USG panels and grid to define space and provide visual impact.
- Available in six trim heights: 2-1/4″, 4″, 6″, 8″, 10″ and 12″.
- Costs a fraction of conventional drywall soffit construction.
- Made to order—arrives onsite pre-engineered.
- Strong, durable, and long-lasting steel or aluminum construction.
- Precision engineering guaranteed to fit all USG ceiling systems.
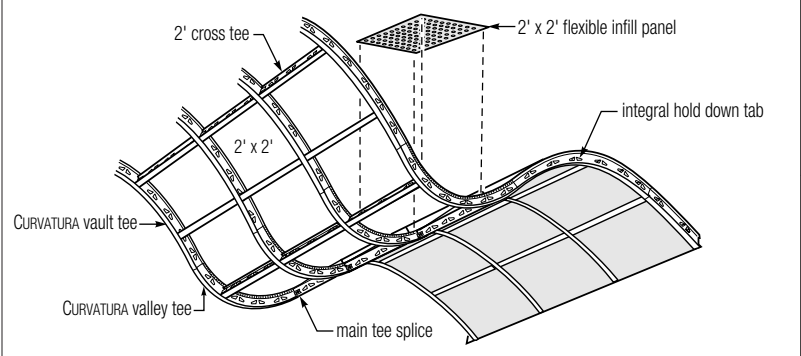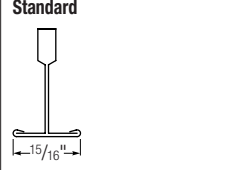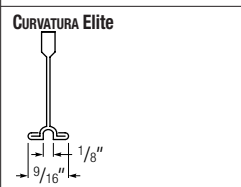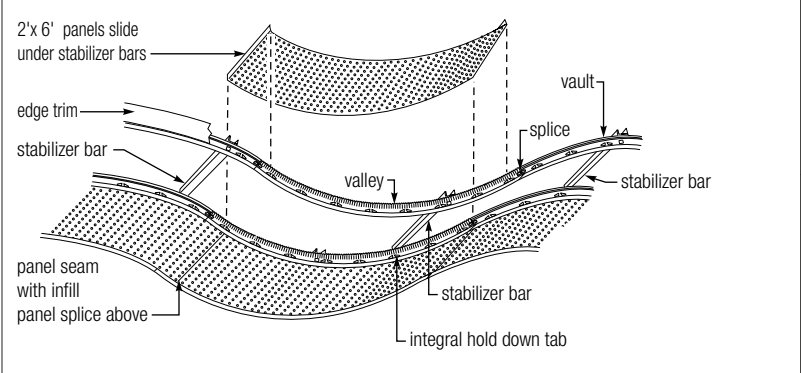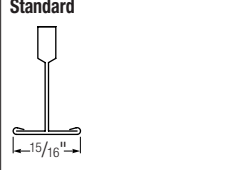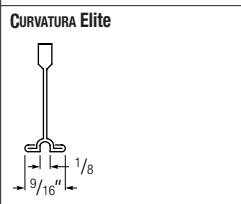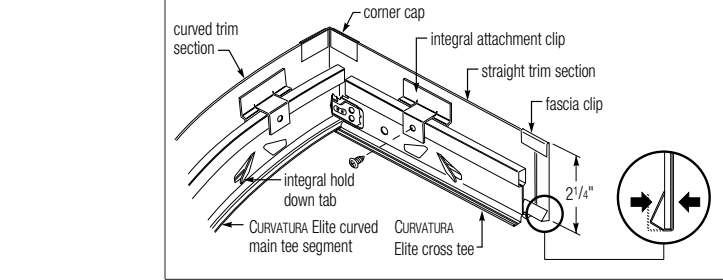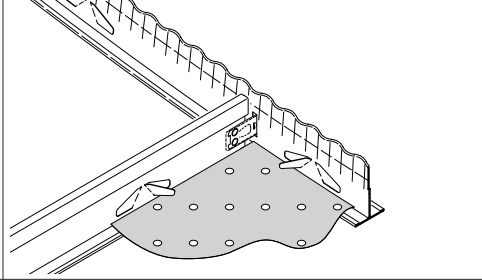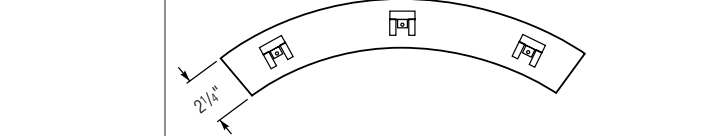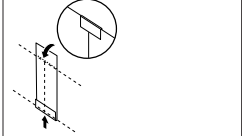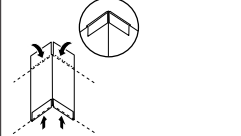
Applications

- Contemporary offices
- Entertainment
- Gaming
- High-bay areas
- Retail spaces
- Virtually anywhere

Curvatura
3-D System

Specialty Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC310

Product Information	**Materials**	Panel: 2′ x 2′ available in smooth or perforated painted aluminum, DIAMONDFLEX™ anodized metal, and TRANSLUCENTS™ panels. 2′ x 6′ available in smooth or perforated painted aluminum.
	Finishes	Standard colors, Advantage colors and custom colors.

Perspective	**Two-Directional System**	**2′ x 2′ Panels**	**Available Grid Profile**

Two-Directional System — 2′ x 2′ Panels. Labels: 2′ cross tee, 2′ x 2′ flexible infill panel, integral hold down tab, 2′ x 2′, CURVATURA vault tee, CURVATURA valley tee, main tee splice.

Available Grid Profile

Standard — 15/16″

CURVATURA Elite — 1/8″, 9/16″

One-Directional System	**2′ x 6′ Panels**	**Available Grid Profile**

One-Directional System — 2′ x 6′ Panels. Labels: 2′x 6′ panels slide under stabilizer bars, edge trim, stabilizer bar, valley, vault, splice, stabilizer bar, panel seam with infill panel splice above, integral hold down tab, stabilizer bar.

Available Grid Profile

Standard — 15/16″

CURVATURA Elite — 1/8, 9/16″

Details

Optional Edge Trim

Optional Edge Trim. Labels: corner cap, curved trim section, integral attachment clip, straight trim section, fascia clip, integral hold down tab, CURVATURA Elite curved main tee segment, CURVATURA Elite cross tee, 2 1/4″.

Integral Hold-Down Tabs

Edge Trim Height

2 1/4″

Splice Cover

Corner Cap

USG

Curvatura™
3-D System

Features and Benefits

- Create dramatic three-dimensional curved designs that combine shape, texture and lighting.
- Curved main tee segments and flexible panels provide endless combinations.
- Available in two configurations: One-Directional CURVATURA™ with 2′ x 6′ infill panels, and Two-Directional CURVATURA™ with 2′ x 2′ panels.
- Two system profiles: traditional CURVATURA (15/16″ grid profile) and CURVATURA Elite (9/16″ profile with 5/32″ reveal).
- Available in Standard colors, Advantage colors and custom colors.

Applications

- Contemporary office environments
- Entertainment, gaming
- High-bay areas
- Retail space

Geometrix

Specialty Ceilings
Metal Ceiling Panels

Product Information

Materials	Panels: Aluminum[1]	
Finishes	Panels are available in smooth metal or in a choice of five perforated patterns (C375, D250, D375, C062 and C062A). A black ACOUSTIBOND® backer is included on all perforated panels unless otherwise specified. ACOUSTIBOND backer is also available in white.	
Colors	Standard colors are Flat White and Silver Satin. Custom colors are available on request.	

Acoustics[1]

Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	**Perforation A116**
Perforated panel	ACOUSTIBOND backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

Panels

Size and Weight — Panels: 2′ x 2′; Panel weight (for 3″ deep flat panel): 0.75 lbs./sf.

Configurations

Flat[2,3]	Wedge[2]	Inside Wedge Corner	Outside Wedge Corner

Depths

1¼"	5/16" 1¼"	5/16" 1¼"	5/16" 1¼"
2¼"	5/16" 2¼"	5/16" 2¼"	5/16" 2¼"
3¼"	5/16" 3¼"	5/16" 3¼"	5/16" 3¼"

Edge Details

GEOMETRIX Panels with 15/16″ DX®/DXL™ Suspension	GEOMETRIX Panels with 9/16″ CENTRICITEE™ (DXT) Suspension	GEOMETRIX Panels with 9/16″ FINELINE® (DXF) Suspension	GEOMETRIX Panels with 9/16″ FINELINE® 1/8 (DXFF) Suspension

Assembly

GEOMETRIX wedge panel

hanger wire

USG DONN suspension system

COMPÄSSO trim (optional)
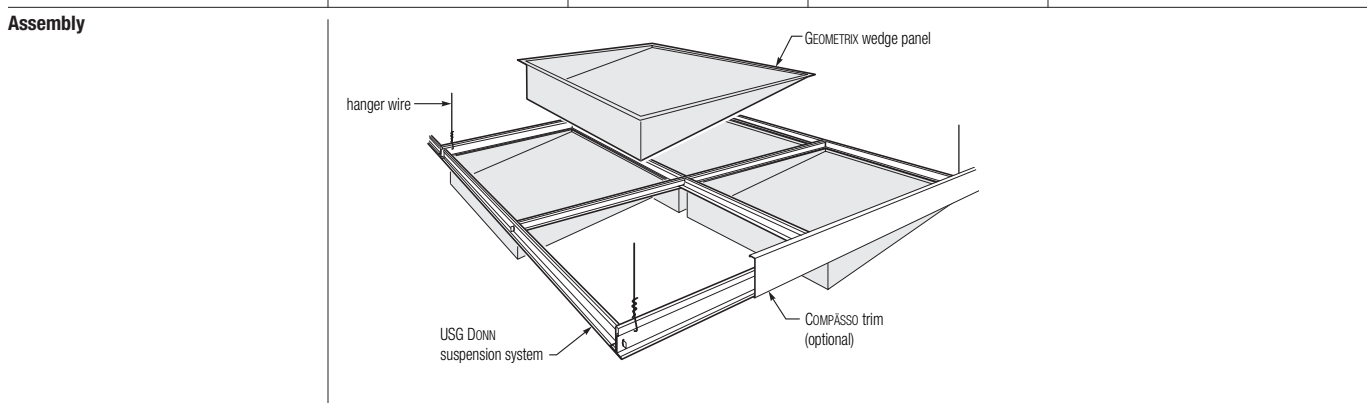
Supporting technical literature
IC437
Recycled content
90% recycled content in aluminum panels. Contact Technical Service at 800 USG.4YOU.

Online tools
Available at www.usg.com:
GEOMETRIX Design Tool
Footnotes
1. GEOMETRIX panels meet ASTM E84 Class A requirements for Surface Burning Characteristics.

2. Available pre-engineered utility circles accomodate lighting and utilities.
3. Also available with 5/16″ depth.
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear

the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.
Patents
Patents pending.

USG

USG

Geometrix™

Basketweave Pattern

Alternating Sawtooth Pattern
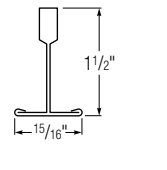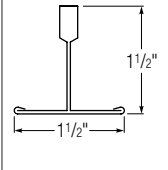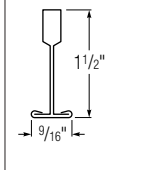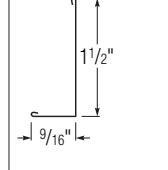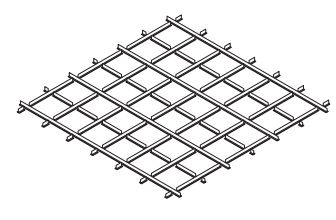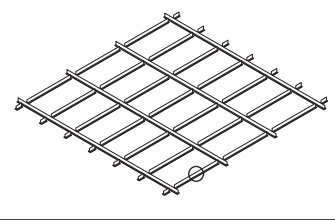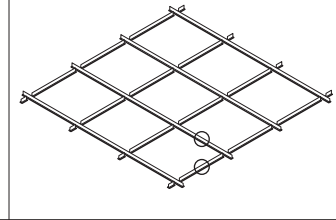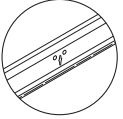
Features and Benefits
- Multiple profiles and depths lend new dimension to ceiling and wall design.
- Panel depths ranging from 1-1/4″ to 3″ allow a spectrum of possibilities, from subtle textures to bold rhythms.
- 2′ x 2′ lay-in panels are compatible with 9/16″- and 15/16″- profile DONN® brand suspension systems.
- Solid or perforated panels are available in Flat White, Silver Satin and custom colors for design versatility.

Applications
- All commercial applications

GridWare

Specialty Ceilings
Suspension System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC312
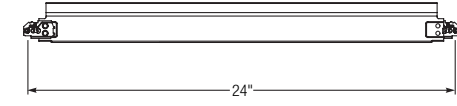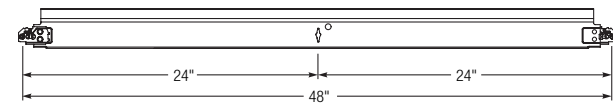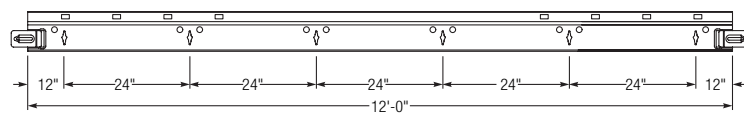
Product Information	Materials	Double-web, hot-dipped galvanized steel body and steel cap with chromated cross-tee clip.
	Finishes	– GWDX stocked in Flat Black, Flat White, and Silver Satin pre-painted, baked polyester paint finishes with exposed chromate cross tee clips; touch-up paint is available to field-paint cross tee clips to match the finish. Spray-painted, baked polyester finish with 100% tee coverage available as a special order. – GWDXW and GWDXT available as a special order only; finish is spray-painted, baked polyester with 100% tee coverage.
	Typical Sizes	2′ x 2′ module; 2′ x 2′, 2′ x 4′ and 4′ x 4′ cells

Face Options

GWDX	GWDXW	GWDXT	GWM9 – Wall Angle

GWDX: 1 1/2", 15/16"
GWDXW: 1 1/2", 1 1/2"
GWDXT: 1 1/2", 9/16"
GWM9 – Wall Angle: 1 1/2", 9/16"

Design Options

2′ x 2′ Openings	2′ x 4′ Openings	4′ x 4′ Openings

Note locations of unused cross-tee holes (typical).

GridWare Components

24″ Cross Tee

24"

48″ Cross Tee

24" — 24"
48"

12′ Main Tee

12" — 24" — 24" — 24" — 24" — 24" — 12"
12'-0"

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG
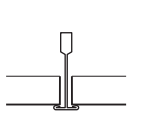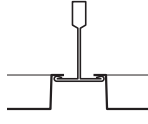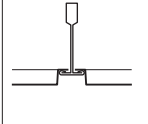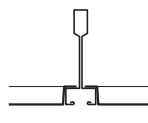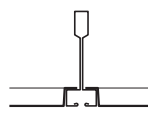
Features and Benefits

- Open-cell suspension system painted 360° in Standard colors, Advantage colors and custom colors.
- Main tees punched with only the necessary cross tee holes for a clean look.
- Available in three standard grid profiles: 9/16″, 15/16″, and 1-1/2″. All tee heights: 1-1/2″
- Simple system readily accommodates standard 2′ x 4′ and 2′ x 2′ lay-in light fixtures and air diffusers.

Applications

- Accent areas
- Hospitality
- Retail spaces

GRIDWARE Suspension System (GWDXW) with 2′ x 2′ Cells in Custom Color/8″ COMPÄSSO™ Suspension Trim in Matching Color

Panz

Specialty Ceilings
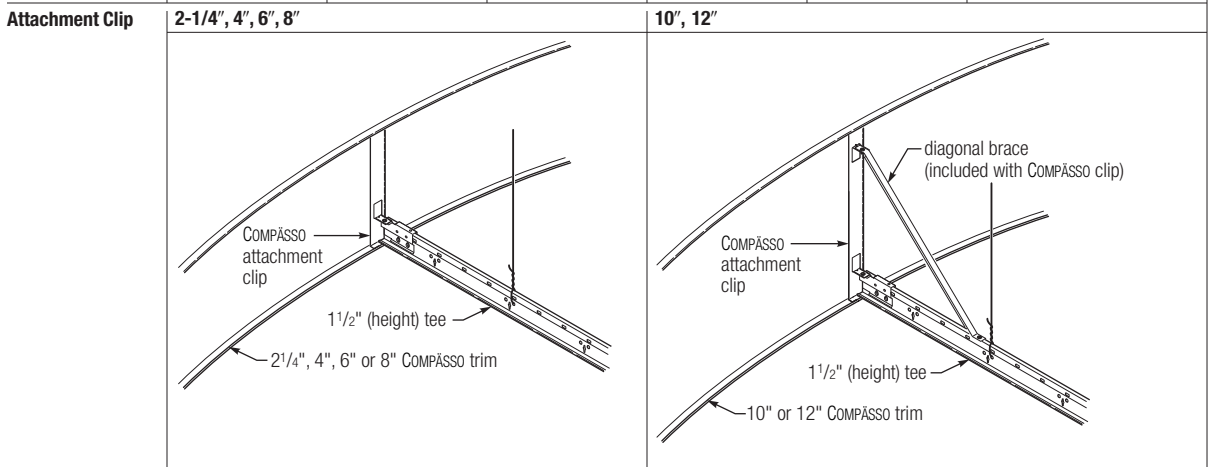**Metal Ceiling Panels**

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC314

Product Information

Materials	Panels: Aluminum.
Finishes	Anodized finishes, DIAMONDFLEX and smooth or perforated panels in Standard colors, Advantage colors and custom colors. See Metal Finishes and Metal Perforations selectors for more finish options.
Typical Sizes	2′ x 2′, 2′ x 4′, 1′ x 4′

Acoustics[1]

Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND® backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

Panels

Smooth Panel	Perforated Panel	Perforated Panel with ACOUSTIBOND[1] Backer

Edge Details

Square Edge with 15/16″ DX®/DXL™ Suspension	Square Edge with 9/16″ CENTRICITEE™ (DXT) Suspension	Shadowline Edge with 15/16″ DX/DXL Suspension	Fineline Edge with 9/16″ CENTRICITEE (DXT) Suspension

Fineline Edge with 9/16″ FINELINE® (DXF) Suspension	Fineline Edge with 9/16″ FINELINE® 1/8 (DXFF) Suspension		

Recycled content
Contact Technical Service at
800 USG.4YOU.
Footnote
1. ACOUSTIBOND backer not standard
with DIAMONDFLEX panels.

Safety First!
Follow good safety and industrial
hygiene practices during handling and
installation of all products and systems.
Take necessary precautions and wear
the appropriate personal protective
equipment as needed. Read material
safety data sheets and related literature
on products before specification and/
or installation.

USG

USG

Panz™

Features and Benefits

- Simple lay-in design provides 100% access.
- ACOUSTIBOND® sound backer produces .65 NRC without additional acoustical material when panels are installed within an enclosed plenum (minimum plenum depth: 18″).
- Aluminum panels are easy to clean and durable.
- Available in numerous perforation patterns in painted, anodized, DIAMONDFLEX™ and natural metals.
- Uniquely designed trim provides reveal edge on field-cut panel.
- Available with same edge details as USG acoustical panels.

Applications
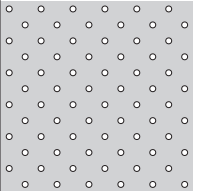
- Computer and utility rooms
- Entertainment
- Gaming
- Frequently accessed plenums
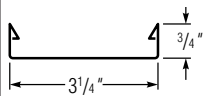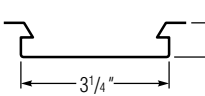
Paraline

Specialty Ceilings
Linear Metal Ceiling System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC315

Product Information	Materials	PARALINE I, II, and III: Aluminium.		
	Finishes	Painted colors: Flat White, Silver Satin, Metallic Oyster, Metallic Copper, Metallic Gold; also available in Polished Aluminum and Brushed Aluminum. Perforations available: PARALINE II only.		
	Typical Sizes	3-1/4″ x 12′, 7-1/4″ x 12′		
	PARALINE II Perforation Pattern		Round—1/16″ perforations .235 o.c., 5% open area (Perforation shown 50% actual size)	

Details

	PARALINE I	PARALINE II	PARALINE III
	3/4″ 3¹/4″	3/4″ 3¹/4″	3/4″ 7¹/4″
	PARALINE I ceilings use 3-1/4″ wide pans with roll-finished edges. Once assembled, the pans provide an open reveal for excellent acoustical control (sound is absorbed by acoustical material in the plenum).	PARALINE II ceilings maintain the 3-1/4″ wide pan dimension, but are constructed with integral flanges that overlap to form a reveal closure that is appropriate for exterior soffit applications. Perforated available.	PARALINE III ceilings have bolder, 7-1/4″ wide pans for larger-scale applications. Pans have a roll-finished edge to provide the same open reveal as PARALINE I with similar acoustical control.

Perspective

USG Drywall Suspension System or CURVATURA Suspension For PARALINE Wave Ceilings

hanger wire

wall molding

PARALINE cross tee 4'-0" o.c.

splice

PARALOCK® main tee

CURVATURA or DWSS vault tee

CURVATURA or DWSS valley tee

PARALINE ceiling

USG

Paraline®

Features and Benefits

- Elegant linear metal ceiling system features 12′ long linear metal pans attached to a specially engineered suspension system, such as the CURVATURA™ 3-D System.
- Closed reveal PARALINE II pans are appropriate for exterior ceiling applications under protected soffits, as well as interior applications.
- Available in painted, anodized, and polished finishes.
- Snap-up design offers unlimited access with minimum plenum depth requirements.
- Wind load tested (120 mph) for exterior applications.
- Available with perforated pans for PARALINE II for NRC ratings as high as .95 when backed with fiberglass.

Applications

- Exterior soffits
- High bay areas
- Retail stores
- Transportation terminals

Quadra

Specialty Ceilings
Ceiling Coffers

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC316

Product Information

Materials	Fiber-reinforced cast gypsum.	
Finishes	White, Standard colors, Advantage colors, custom colors and four woodgrain finishes.	
Suspension System	Donn® brand DX®/DXL™ intermediate-duty 15/16″ suspension system.	

Ceiling Coffers

	Size	Item Number	Edge	Surface	Color
Cove	**2′ x 2′**	**QD110**	SL	Smooth	White
	2′ x 2′	**QD120-01**	SL	Woodgrain	Natural Oak
	2′ x 2′	**QD120-02**	SL	Woodgrain	Medium Walnut
	2′ x 2′	**QD120-03**	SL	Woodgrain	Mahogany
	2′ x 2′	**QD120-04**	SL	Woodgrain	Pearl Oak
	4′ x 4′	**QD227**	SL	Smooth	White
				Woodgrain	Natural Oak
					Medium Walnut
					Mahogany
					Pearl oak
Crown	**2′ x 2′**	**QD100**	SL	Smooth	White
	2′ x 2′	**QD205-01**	SL	Woodgrain	Natural Oak
	2′ x 2′	**QD206-02**	SL	Woodgrain	Medium Walnut
	2′ x 2′	**QD207-03**	SL	Woodgrain	Mahogany
	2′ x 2′	**QD208-04**	SL	Woodgrain	Pearl Oak
	4′ x 4′	**QD217**	SL	Smooth	White
				Woodgrain	Natural Oak
					Medium Walnut
					Mahogany
					Pearl Oak

Panel Designs

Cove
Overall Depth: 4″ Nominal

Crown
Overall Depth: 4″ Nominal

Acoustical Inserts

Size	ECLIPSE™ CLIMAPLUS™ Item Number	MILLENNIA® CLIMAPLUS™ Item Number	Pattern	Color
3/4″ x 17-7/8″ x 17-7/8″	**76652**	**76710**	Crown	White
3/4″ x 41-7/8″ x 41-7/8″	**76651**	**76712**	Crown	White
3/4″ x 19-3/8″ x 19-3/8″	**76653**	**76713**	Cove	White
3/4″ x 43-3/8″ x 43-3/8″	**76654**	**76714**	Cove	White
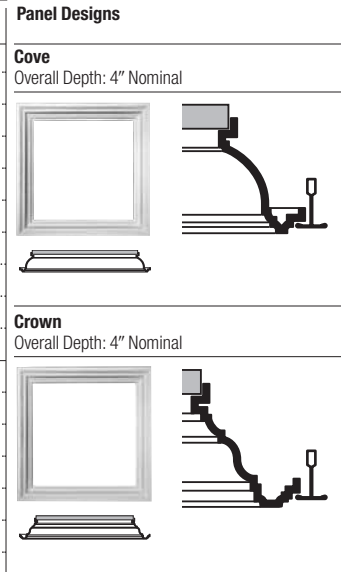
ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke Developed: 5
UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Quadra™

Features and Benefits

- The look of classic coffered architecture with complete accessibility to all ceiling utilities.
- One-piece construction requires no field assembly, reducing installation costs.
- Factory-cut field panel inserts provide acoustical control with minimum installation time.
- Numerous styles complement contemporary and traditional spaces.
- Available in Standard colors, custom colors and 4 woodgrain finishes.

Applications
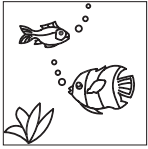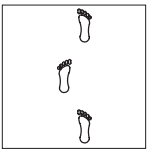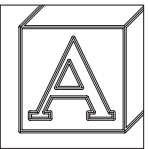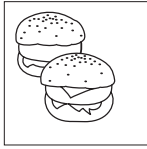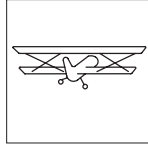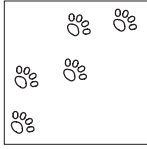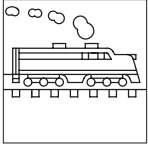
- Conference areas
- Financial institutions
- Ornate public areas

Renditions Animations

Specialty Ceilings
Face-Routed Ceiling System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC327

Product Information

Materials	Mineral-fiber ceiling panels.	
Finishes	All panels are available in White. FROST panels are available in Standard colors, Advantage colors and custom colors.	
Typical Sizes	2′ x 2′	
Available Panels	ECLIPSE, FROST, MILLENNIA	
Sound Rating[1]	**NRC**	**CAC**[2]
	.65	35

Patterns[3]

Aquarium
5-Panel Series

Barefootin'
12-Panel Series

Blocks
13-Panel Series

Fast Food
5-Panel Series

Flying Things
13-Panel Series

Leaves
13-Panel Series

Night Sky
8-Panel Series

Paws
29-Panel Series

Railway
26-Panel Series

Stuffed Animals
4-Panel Series

Recycled Content
See the Sustainability selector.
Footnote
1. Non-face-routed panels.
2. CAC values will depend on edge and suspension system.
3. This is only a sampling of patterns available. For complete availability, contact your USG sales representative.

Note
Panels with RENDITIONS face routing do not carry USG's CLIMAPLUS™ non-sag warranty. Refer to standard commercial ceilings warranty.

Safety First!
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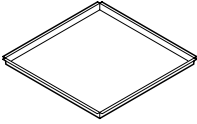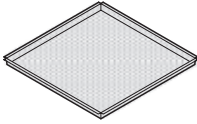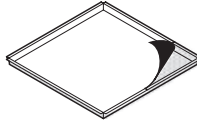
USG

Renditions™
Animations

Features and Benefits

- Computer-generated, face-routed designs combined with the beautiful fine texture of Eclipse™, Frost™, or Millennia® panels.
- Numerous themes to create distinct motifs in the ceiling plane.
- Numbered ceiling panels match shop drawings for easy installation.
- Available in Square, Fineline, and Shadowline edges.
- Available with standard and custom designs.
- All panels available in White. Frost panels available in Standard colors, Advantage colors and custom colors.

Applications
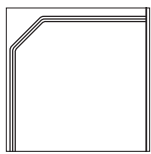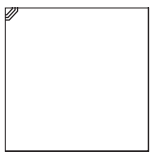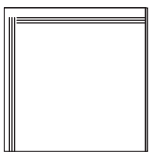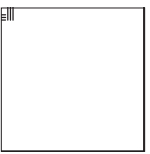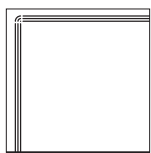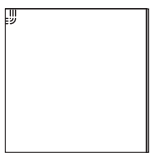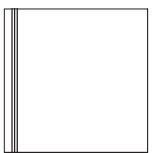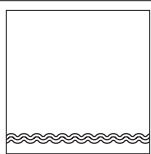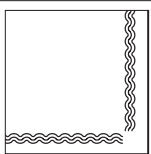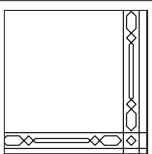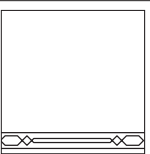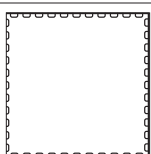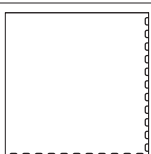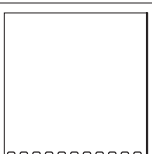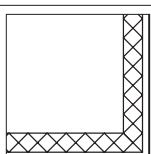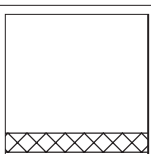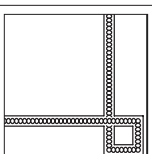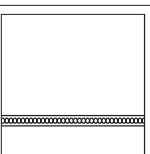
- Child care
- Educational
- Health care
- Theme and whimsical areas

Renditions Boundaries

Specialty Products
Face-Routed Ceiling System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC332

Product Information

Materials	Mineral-fiber ceiling panels.	
Finishes	All panels are available in White. FROST panels are available in Standard colors, Advantage colors and custom colors.	
Typical Sizes	2′ x 2′	
Available Panels	ECLIPSE, FROST, MILLENNIA	

Sound Rating[1]

NRC	CAC[2]
.65	35

Patterns[3]

RENDITIONS I Outside Corner	RENDITIONS I Inside Corner	RENDITIONS II Outside Corner	RENDITIONS II Inside Corner
RENDITIONS III Outside Corner	**RENDITIONS III Inside Corner**	**Straight Line**	
Curls-S	**Curls-SE**	**Deco-SE**	**Deco-S**
Dentil-2	**Dentil-SE**	**Dentil-S**	
Diagonal-SE	**Diagonal-S**	**Tara-SE**	**Tara-S**

Recycled Content
See the Sustainability selector.

Footnotes
1. Non-face-routed panels.
2. CAC values will depend on edge and suspension system.
3. This is only a sampling of patterns available. For complete availability, contact your USG sales representative.

Note
Panels with RENDITIONS face routing do not carry USG's *CLIMAPLUS*™ non- sag warranty. Refer to standard commercial ceilings warranty.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.
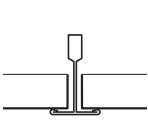
USG

USG

Renditions™
Boundaries

Features and Benefits

- Computer-generated, face-routed designs combined with the beautiful fine texture of Eclipse™, Frost™, or Millennia® panels.
- Border patterns create dramatic visuals in the ceiling plane.
- Numbered ceiling panels match shop drawings for easy installation.
- Available in Square, Fineline, and Shadowline edges.
- All panels available in White. Frost panels available in Standard colors, Advantage colors and custom colors.

Applications
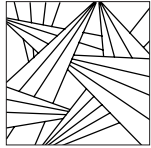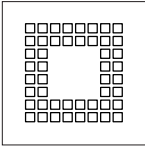
- Educational
- Health care
- Retail space
- Theme and whimsical areas

Renditions Custom

Specialty Products
Face-Routed Ceiling System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC356

Product Information	Materials	Mineral-fiber ceiling panels.		
	Finishes	All panels are available in White. Frost panels are available in Standard colors, Advantage colors and custom colors. Custom painting available at additional charge. For more information, call your local sales representative.		
	Available Panels	Eclipse, Frost, Millennia		
	Sound Rating[1]	**NRC**	**CAC[2]**	
		.65	35	

Patterns[3]

Crystal	Square to Square	Custom Logo

USG

USG

Renditions™
Custom

Features and Benefits

- Computer-generated, face-routed designs combined with the beautiful fine texture of ECLIPSE™, FROST™, or MILLENNIA® panels.
- Custom patterns allow a unique ceiling statement.
- Numbered ceilng panels match shop drawings for easy installation.
- Available in Square, Fineline, and Shadowline edges.
- Ceiling panels can be made from your sketches or AUTOCAD™ drawings.
- All panels are available in White. FROST panels available in Standard colors, Advantage colors and custom colors.

Applications

- Educational
- Health care
- Retail space
- Theme and whimsical areas

Topo
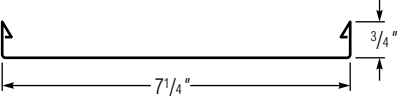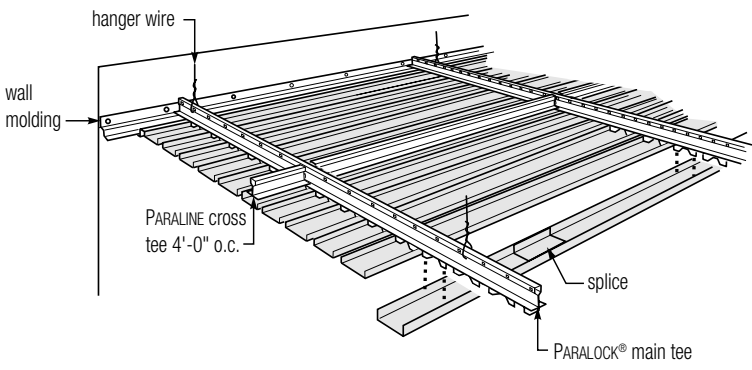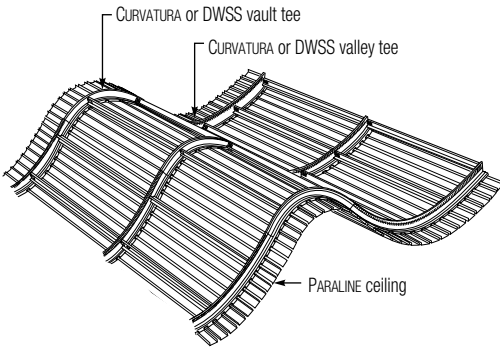
Specialty Ceilings
3-Dimensional System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC422

Product Information

Materials

Panels: Pre-formed LEXAN. Material thickness 0.04″.
Suspension system: Extruded aluminum available in color-coordinated finishes.
Edge trim system: painted cold-rolled steel.

Size and Weight

Panels: 2′ x 2′.
System weight: 0.5 lbs./sf.

Module Size

Full 2′ x 2′ modules only.

Finishes

Color	Light Transmission	TOPO Suspension System Coordinating Colors
Clear Translucent	94%	Silver Satin
Blue Translucent	78%	TOPO Blue
Glass Green Translucent	77%	TOPO Glass Green
White Translucent	26%	Flat White
White Opaque	0%	Flat White

Details

System Profiles

TOPO System 8

TOPO System 12

Assembly (View from Below)

Available Grid Profile
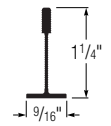
Grid to Panel

Utility Circles

Located at High Arc Points	OR	Located at Low Arc Points	Located at Panel Center
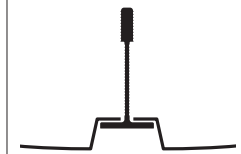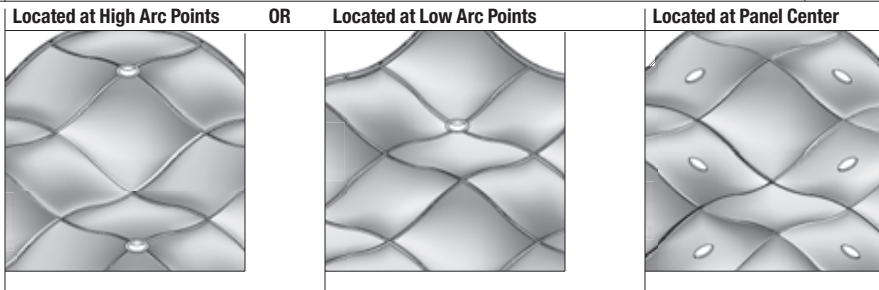
Supporting technical literature
IC438
Online tools
Available at www.usg.com:
TOPO Design Tool
Recycled content
Contact Technical Service at
800 USG.4YOU.

Code approval
LEXAN infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material

safety data sheets and related literature on products before specification and/or installation.
Patents
Patents pending.

USG

Topo™ 3-Dimensional System

Utility circle at suspension intersection

Utility circle centered in panel

System At a Glance	Transform flat ceiling planes into gently rolling landscapes with pre-formed panels that install easily into the narrow-profile Donn® brand Topo suspension system.
Features and Benefits	• Two system depths (8″ and 12″) create varying ceiling topographies. • Translucent and opaque Lexan® infill panels in five colors enhance existing lighting for added visual interest. • Optional pre-engineered utility circles accommodate additional lighting and utility access.
Applications	• All commercial applications

Translucents

Specialty Ceilings
Luminous Infill Panels

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC406

Product Information		
Materials	0.045″ (FRP Smooth); 0.060″ (Lexan®)	
Finishes	Lexan Glass Green Matte, Lexan Clear Matte, and Natural FRP. Coordinating suspension system colors.	
Typical Sizes	2′ x 2′ (23-3/4″ x 23-3/4″).	
Acoustics	This product does not offer any acoustical properties.	
Lighting	Fluorescent strip fixtures should be placed a minimum of 18″ above the ceiling and 18″ o.c. for best results.	
Light transmission	64% (FRP Smooth); 79% (Lexan Glass Green Matte); 85% (Lexan Clear Matte)	
Suspension Systems	Lays into standard Donn DX/DXL and Centricitee (DXT) suspension systems. Also can be used with the Curvatura 3-D System and GridWare suspension system.	
System Weight	Approximately 0.7 lbs. per sq. ft.	

Supporting technical literature for use with Curvatura System
IC36104

Code approval
Lexan infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84. FRP infill panels meet Class B requirements for flame spread and smoke developed as defined by ASTM 1264 and as tested in accordance with ASTM E 84. (40/175) USG FRP infill panels also meet Class A requirements of NFPA and IBC (UBC) as interior finishes, not to be part of an air supply/return system.

Weight
0.625 lb./sq. ft. (FRP Smooth)
0.374 lb./sq. ft. (Lexan Glass Green Matte and Clear Matte)
Recycled content
Contact Technical Service at 800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Features and Benefits
- Fully accessible translucent (luminous) infill panels.
- Flexible panels can be used with standard Donn® brand DX®/DXL™ and *Centricitee*™ (DXT) suspension systems or the *Curvatura*™ 3-D System and GridWare™ suspension systems.
- Available in three finishes: Lexan® (Glass Green Matte and Clear Matte) and FRP Smooth (Natural).
- 2′ x 2′ panels (23-3/4″ x 23-3/4″).
- Available in coordinating suspension system colors.
- Class A finish rating.
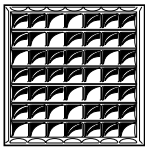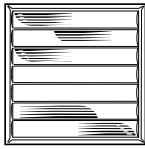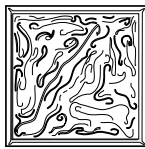
Applications
- Lobbies
- Contemporary office environments
- Entertainment, gaming areas
- High-bay areas
- Retail stores

Transparencies

Specialty Ceilings
Luminous Ceiling System

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC324

Product Information	Materials	Blocks: 100% acrylic. Grid: Steel.
	Finishes	Panels: Clear Highlighters: Red, Green, Yellow, Blue, and Orange (used to change one block or the entire panel color).
	Typical Sizes	2′ x 2′
	Module Size	Full 2′ x 2′ modules only.
	Plenum Depth	Plenum depth requirements are generally a function of lamp spacing. The minimum recommended plenum depth for uniform lighting distribution is 18″, measured from the bottom of the fluorescent tubes to the bottom of the grid.
	Acoustics	If noise reduction is vital, adjacent ceiling, wall, and floor materials should be chosen with consideration of their acoustical properties.
	Lighting	Fluorescent strip fixtures should be placed a minimum of 18″ above the ceiling and 18″ o.c. for best results.
	Grid Layout	Each 2′ x 2′ TRANSPARENCIES panel consists of nine 8″ simulated glass block squares spaced 9/16″ apart. Center lines of main and cross runner T-bar webs are exactly on module lines.
	Weight	Approximately 1-1/2 lbs. per sq. ft.
	Code Approval	Permitted for use where Class 1 finish materials are required under the provisions of Chapter 8 (1997) of the Uniform Building Code. The roll-formed grid is Class A and non-combustible. Load limits of the grid exceed those imposed by the TRANSPARENCIES system when installed in accordance with the manufacturer's instructions.

Patterns

Ice Cube	Icicle	Melting Ice	Crushed Ice

Perspective

hanger wire

TRANSPARENCIES panel

TRDXT224
2' cross tee

TRDXT424
4' cross tee

TRDXT24
main tee
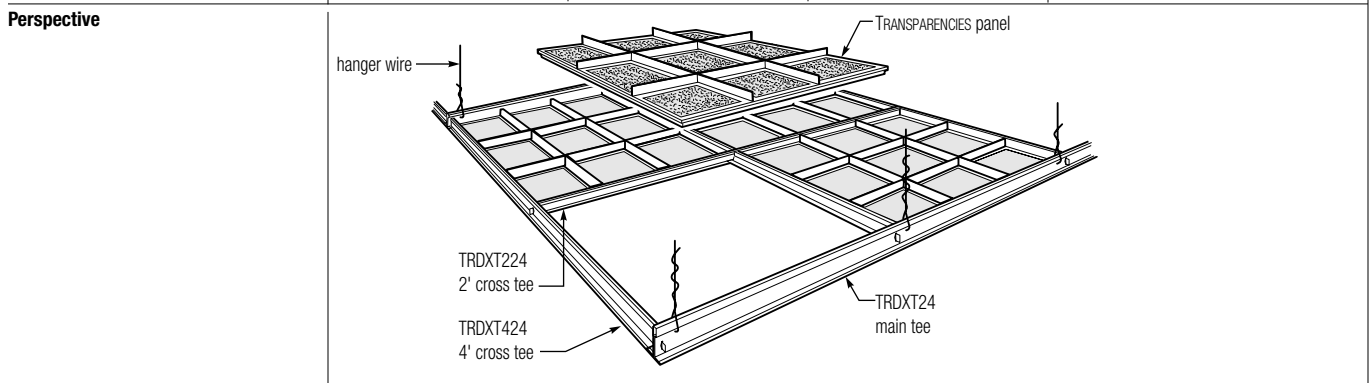
Supporting technical literature
IC17102
Recycled content
Contact Technical Service at
800 USG.4YOU.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

The following are trademarks of USG Interiors, Inc., or a related company: CENTRICITEE, DONN, TRANSPARENCIES, USG.

USG

Transparencies™
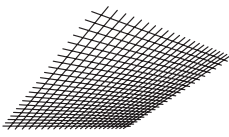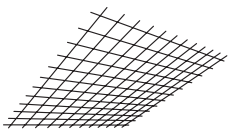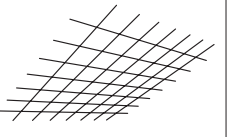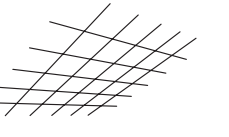
Features and Benefits
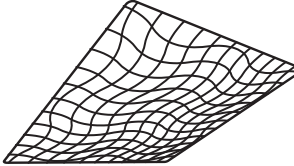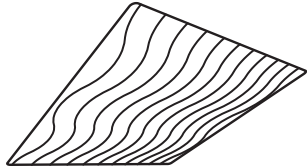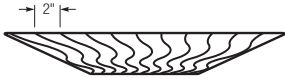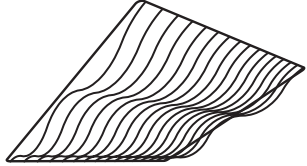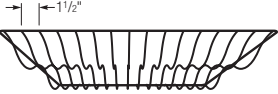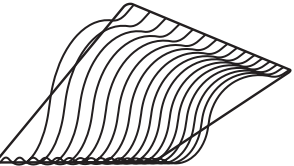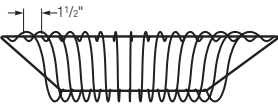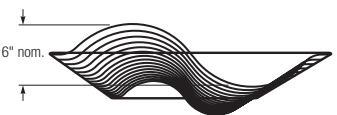
- Fully accessible luminous ceiling system provides the aesthetic of sunlit glass block with just a fraction of the weight, cost, and installation time of real glass.
- Panels consist of nine injection-molded 8″ x 8″ blocks, factory assembled into a 2′ x 2′ lay-in panel for fast installation and full accessibility.
- Special DONN® brand CENTRICITEE™ suspension system is texturized to create "mortar joints."
- Standard fluorescent strip fixtures can be used to give the feel of sunlight even on interior floors.
- 8″ x 8″ highlighters, available in five translucent colors, change the color of an individual block or an entire panel.
- Four unique textures based on real glass block patterns ensure an authentic look.

Applications

- Accent areas
- Grocery stores
- Libraries
- Retail stores

WireWorks

Specialty Ceilings
Open-Cell Ceiling Panels

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number IC325

Product Information

Materials	Robotically welded steel wire.	
Finishes	High-Gloss White, Advantage colors, Chrome, and custom colors .	
Typical Size	2′ x 2′.	
Wire Thickness	Panels are 1/8″; Forms are 3/16″.	

WIREWORKS Ceiling Panels 2′ x 2′ 1/8″ Wire

1″ x 1″ Cells	2″ x 2″ Cells	3″ x 3″ Cells	4″ x 4″ Cells

WIREWORKS Forms 2′ x 2′ 3/16″ Wire

	Pattern	Front Profile	Side Profile
Weave		2"	3/8"
Ripple		2"	3/8"
Small Wave		1½"	2" nom.
Big Wave		1½"	6" nom.

Safety First!
Follow good safety and industrial
hygiene practices during handling and
installation of all products and systems.
Take necessary precautions and wear
the appropriate personal protective
equipment as needed. Read material
safety data sheets and related literature
on products before specification and/
or installation.

USG

Features and Benefits

- Metal, woven lay-in panels with powder-coated finish are abuse resistant and highly durable.
- Four cell sizes offer flexibility to meet design and budget needs.
- Combine with the GRIDWARE™ suspension system to create custom ceiling system.
- Easy installation into standard DONN® brand suspension systems.
- Easily accommodates lightweight signage.
- Available in High-Gloss White, Advantage colors, Chrome, and custom colors.

Applications

- Accent areas
- Educational
- Health care
- Retail stores

Compare

Acoustical Ceiling Systems
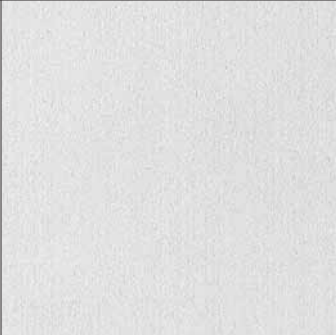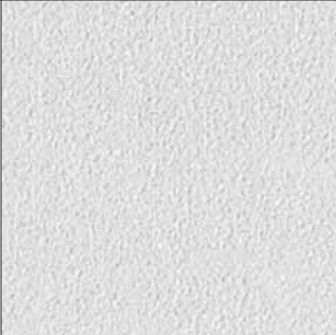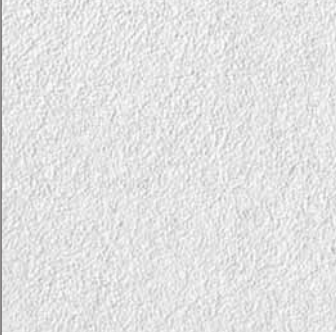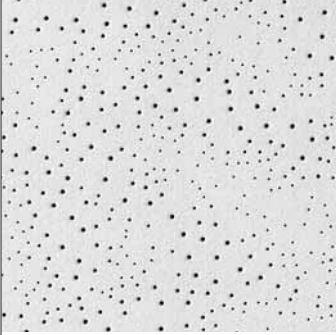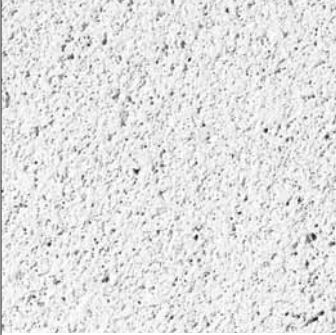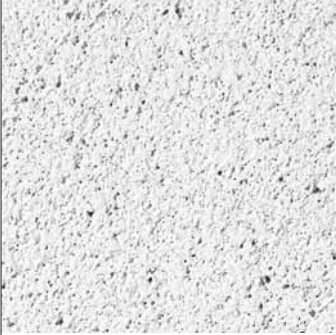
Performance Selectors

USG understands that choosing just the right acoustical ceiling system can be challenging. This section contains selectors to help you easily identify and specify products based on visual and performance criteria.

USG

Textures

USG
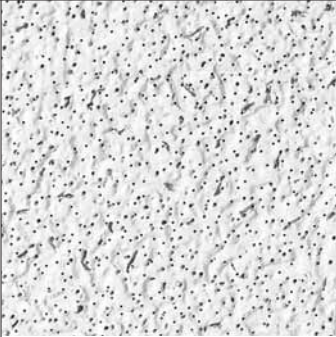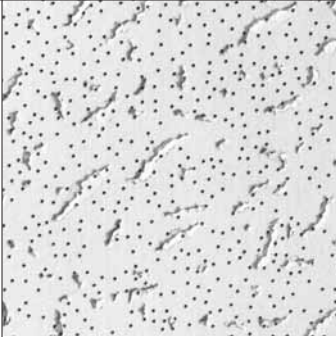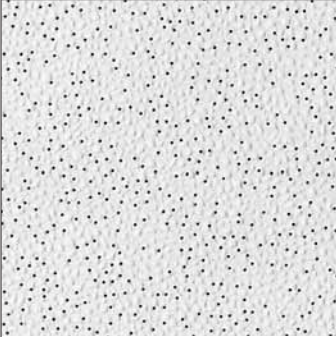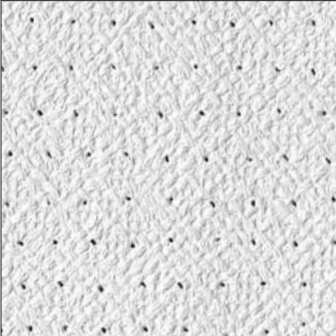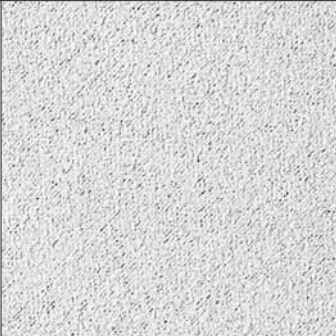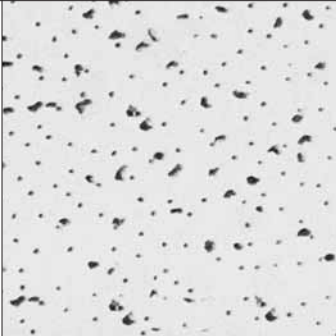
Listed Alphabetically

Fine

MARS *CLIMAPLUS*	MILLENNIA *CLIMAPLUS*	OLYMPIA MICRO *CLIMAPLUS*
Page 136	Page 138–141	Page 142
ORION 210 *CLIMAPLUS*	**ORION 270** *CLIMAPLUS*	PREMIER NUBBY *CLIMAPLUS*
Page 144	Page 146	Page 152
SUMMIT *CLIMAPLUS*		
Page 170		

Textures

Listed Alphabetically

	ASPEN	"F" FISSURED	FISSURED
Medium	Page 110	Page 122	Page 124
	PEBBLED *CLIMAPLUS*	**PREMIER HI-LITE** *CLIMAPLUS* **Kapok Perforated**	**PREMIER HI-LITE** *CLIMAPLUS* **Kapok Unperforated**
	Page 148	Page 150	Page 150
	PREMIER HI-LITE *CLIMAPLUS* **Twill Perforated**	**PREMIER HI-LITE** *CLIMAPLUS* **Twill Unperforated**	**RADAR**
	Page 150	Page 150	Page 154

USG

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

Listed Alphabetically

	RADAR *CLIMAPLUS*	RADAR Ceramic *CLIMAPLUS* Perforated	ROCK FACE *CLIMAPLUS*
Medium	Page 156–161	Page 162	Page 164
	SANDRIFT *CLIMAPLUS*	TOUCHSTONE *CLIMAPLUS*	
	Page 166	Page 172	
	BRIO *CLIMAPLUS*	FRESCO *CLIMAPLUS*	GLACIER
Heavy	Page 114	Page 126	Page 132

The Light Reflectance selector identifies USG ceiling panels that efficiently reflect light within a space to enhance indirect lighting, reduce energy consumption and create a warm, luminous aesthetic. Measured per ASTM E1477[1], LR value represents the percentage of light reflected from the surface of a material. The industry average for panels is LR .70 to .80, and values above LR .85 are considered high. USG offers numerous panels with LR values at these levels, including MARS *CLIMAPLUS*, RADAR ILLUSION and RADAR *CLIMAPLUS* ILLUSION with LR .89.

Indirect lighting, combined with high-LR panels, can eliminate dark, shadowy areas and too-bright hot spots, improving the look and feel of a space and minimizing eyestrain (a cause of employee fatigue). High-LR ceilings can also help conserve energy and cut operating costs by achieving the same light levels with fewer fixtures and lower-wattage bulbs. Fewer fixtures also mean less repairs and lower maintenance costs.

Architects typically select high-LR ceilings for spaces that make extensive use of indirect lighting. However, these panels can enhance almost any lighting scheme and so can be an effective choice for many design applications. Many USG panels with high LR values also feature high NRC and CAC ratings so you don't have to compromise acoustics for aesthetics. Panels are available in a range of textures including smooth and very fine, many include *CLIMAPLUS* sag resistance, and several are cast products, which provide a higher level of durability to resist and hide scrapes and scratches.

Choosing high-LR ceiling panels is a great way to improve the utility and comfort of the spaces you design and make your projects bright and inviting.

1. Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.

USG
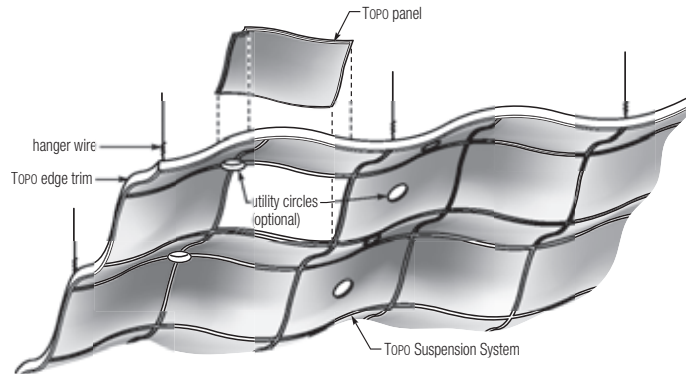
Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

Ceiling Panels[2]	LR[1]	Textures	Panel Cost	Page Number	Price/ sq. ft.
MARS *CLIMAPLUS*	.89	Fine	$$	136	$ < 1.50
RADAR Illusion	.89	Medium	$$	154	$$ 1.51 to 2.50
RADAR *CLIMAPLUS* Illusion	.89	Medium	$$	158	$$$ 2.51 to 3.50
FROST *CLIMAPLUS*	.82/.88	Fine	$$	130	$$$$ > 3.51
HALCYON *CLIMAPLUS*	.88	Fine	$$	134	
ASPEN	.87	Medium	$$	110	
MILLENNIA *CLIMAPLUS*	.87	Fine	$$	138	
MILLENNIA *CLIMAPLUS* High NRC	.87	Fine	$$	140	
MILLENNIA *CLIMAPLUS* Illusion	.87	Fine	$$	138	
OLYMPIA MICRO *CLIMAPLUS*	.87	Fine	$$	142	
OLYMPIA MICRO *CLIMAPLUS* Illusion	.87	Fine	$$	142	
PREMIER NUBBY *CLIMAPLUS*	.87	Fine	$$$	152	
ASTRO *CLIMAPLUS*	.86	Fine	$$	112	
ASTRO *CLIMAPLUS* Illusion	.86	Fine	$$	112	
ECLIPSE *CLIMAPLUS*	.86	Fine	$$	118	
ORION 270 *CLIMAPLUS*	.86	Fine	$$$	146	
PEBBLED *CLIMAPLUS*	.86	Medium	$	148	
ROCK FACE *CLIMAPLUS*	.86	Medium	$$	164	
TOUCHSTONE *CLIMAPLUS*	.86	Medium	$$	172	
ASPEN Illusion	.85	Medium	$$	110	
FROST	.85	Fine	$$	128	
RADAR	.85	Medium	$	154	
ECLIPSE *CLIMAPLUS* Illusion	.84	Fine	$$	120	
RADAR *CLIMAPLUS*	.84	Medium	$	156	
RADAR *CLIMAPLUS* High CAC, High NRC	.84	Medium	$	160	
FRESCO *CLIMAPLUS*	.83	Heavy	$$	126	
SANDRIFT *CLIMAPLUS*	.83	Medium	$$$	166	
RADAR Ceramic *CLIMAPLUS*	.82	Medium	$$	162	
BRIO *CLIMAPLUS*	.81	Heavy	$$	114	
FISSURED	.81	Medium	$	124	
SUMMIT *CLIMAPLUS*	.81	Fine	$$	170	

2. Performance values do not include
12″x12″ or Pedestals products.

USG

Colors

Standard colors: Available for quick delivery. Minimum panel quantities apply; one-carton minimum per component for suspension systems.

Advantage colors: Available within five weeks. Minimum panel quantities apply; one-carton minimum per component for suspension systems. Panels and suspension systems also available in custom colors. Contact your USG sales representative for details.

Ceiling Panels

Product	Item No.	Color Options	Min. Sq. Ft.		Sq. Ft./ Carton	Size	Edge	Page No.
			Standard	**Advantage**				
ECLIPSE *CLIMAPLUS*	76975	Standard colors (Flat Black not available)	48	N/A	48	2' x 2' x 3/4"	FL	118
ECLIPSE *CLIMAPLUS*	76775	Standard colors (Flat Black not available)	48	N/A	48	2' x 2' x 3/4"	SLT	118
FROST *CLIMAPLUS*	414	Standard and Advantage colors	48	3,072	48	2' x 2' x 3/4"	SLB	130
FROST *CLIMAPLUS*	418	Standard and Advantage colors	3,072	3,072	48	2' x 2' x 3/4"	FL	130
FROST *CLIMAPLUS*	419	Standard and Advantage colors	3,072	3,072	48	2' x 2' x 3/4"	FLB	130
GLACIER	707	Standard and Advantage colors	48	3,072	48	2' x 2' x 3/4"	SL	132
GLACIER	708	Standard and Advantage colors	3,072	3,072	48	2' x 2' x 3/4"	FL	132
PREMIER HI-LITE *CLIMAPLUS* Kapok	7054G	Flat Black only	128	N/A	128	2' x 2' x 5/8"	SQ	150
PREMIER HI-LITE *CLIMAPLUS* Kapok	7055G	Flat Black only	128	N/A	128	2' x 4' x 5/8"	SQ	150
PREMIER HI-LITE *CLIMAPLUS* Kapok	7056G	Flat Black only	128	N/A	128	2' x 2' x 5/8"	SQ	150
PREMIER HI-LITE *CLIMAPLUS* Kapok	7057G	Flat Black only	128	N/A	128	2' x 4' x 5/8"	SQ	150
RADAR *CLIMAPLUS*	2210	Standard colors	64	N/A	64	2' x 2' x 5/8"	SQ	156
RADAR *CLIMAPLUS*	2220	Standard colors (Flat Black not available)	64	N/A	64	2' x 2' x 5/8"	SLT	156
RADAR *CLIMAPLUS*	2410	Standard colors	64	N/A	64	2' x 4' x 5/8"	SQ	156
RADAR *CLIMAPLUS* FIRECODE	2415	Flat Black only	64	N/A	64	2' x 4' x 5/8"	SQ	156
RADAR *CLIMAPLUS* Illusion Two/24	2842	Standard colors (Flat Black not available)	48	N/A	48	2' x 2' x 3/4"	SLT	158
SANDRIFT *CLIMAPLUS*[1]	808	Standard and Advantage colors	3,072	3,072	48	2' x 2' x 3/4"	SL	166
SANDRIFT *CLIMAPLUS*[1]	809	Standard and Advantage colors	3,072	3,072	48	2' x 2' x 3/4"	FL	166

1. To highlight the unique texture of SANDRIFT *CLIMAPLUS* panels, choose light colors.

Suspension Systems
Color caps only

Product	Item No.	Color Options	Size	Edge	Page No.
CENTRICITEE	DXT24	Standard and Advantage colors	9/16"	—	180
CENTRICITEE	DXT222	Standard and Advantage colors	9/16"	—	180
CENTRICITEE	DXT424	Standard and Advantage colors	9/16"	—	180
Wall Molding	M9 Molding	Standard and Advantage colors	9/16"	—	180
DX/DXL	DX/DXL24	Standard and Advantage colors (Plated Brass and Plated Chrome available with non-fire-rated tees)	15/16"	—	182
DX/DXL	DX/DXL216	Standard and Advantage colors (Plated Brass and Plated Chrome available with non-fire-rated tees)	15/16"	—	182
DX/DXL	DX/DXL424	Standard and Advantage colors (Plated Brass and Plated Chrome available with non-fire-rated tees)	15/16"	—	182
Wall Molding	M7 Molding	Standard and Advantage colors	7/8"	—	182
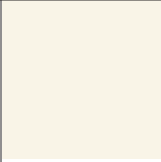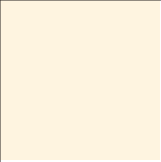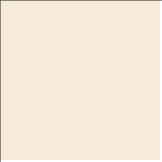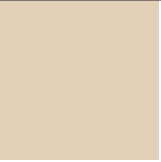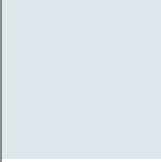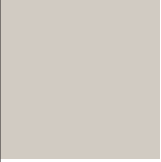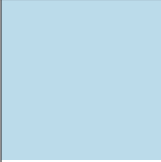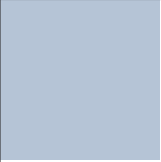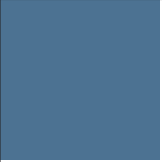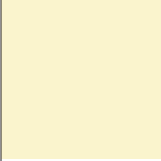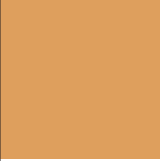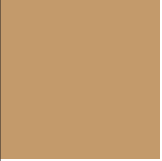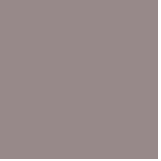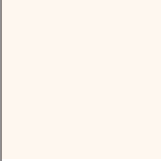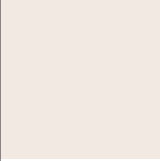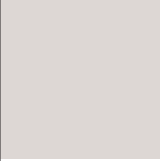
USG

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

**Ceiling Panels and Suspension Systems**

Samples shown are representative of color. Please request a sample for actual color by calling 888 874.2450.
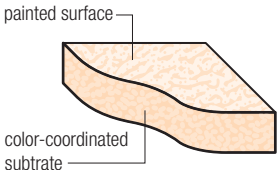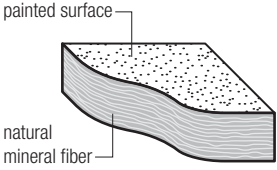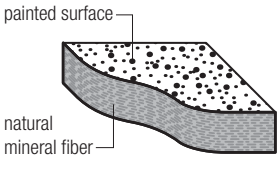
2. Not a painted finish. Please request a sample for actual finish by calling 888 874.2450.

Standard Colors	Parchment 103	Manila 246	Beige 142	Straw 143	Sandstone 090	Taupe 107
Ceiling Panels and Suspension Systems						
	Silvertone 052	Mist 053	Flat Black 205			

Advantage Colors	Breeze 2659	Blue Grey 564	Azure 2660	Slate 568	Spruce 567	Tuscany 2663
Ceiling Panels and Suspension Systems						
	Sorbet 2658	Squash 2661	Safari 2662	Redwood 566	Sienna 565	
	Halo 206	Nectar 546	Quartz 082	Charcoal 534		

Suspension Systems Only	Silver Satin 002	Bronze 033	Plated Brass 065[2]	Plated Chrome 066[2]		
	Standard	Advantage	Available with select DX (non-fire-rated) fees	Available with select DX (non-fire-rated) fees		
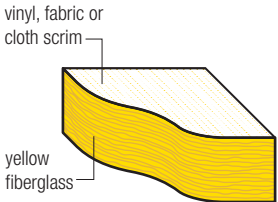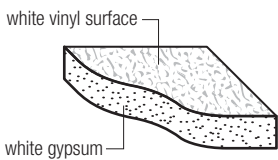
Performance Substrates

USG is the only manufacturer with the capabilities to produce acoustical ceiling panels with five different substrate technologies to achieve the full range of functional and aesthetic needs. Available substrates include cast mineral fiber, X-Technology mineral fiber, water-felted mineral fiber, fiberglass, and gypsum panel ceilings.

Profile	Construction	Applications	Available Panels	Page No.
Cast Mineral Fiber painted surface color-coordinated subtrate	Formed and baked solid in molds to create a long lasting, abuse-resistant surface in a range of textures. Through-color masks nicks and scratches. Orients fibers for excellent sound absorption and high noise reduction coefficients (NRC). Composition enhances sound blocking (CAC) and resists "breathing" (air passing through panel) so surface stays cleaner, longer. Surface cleans easily with a soft brush or vacuum.	Open-plan areas subject to frequent plenum access that require strong sound absorption (NRC) and sound blocking (CAC) performance. Enclosed areas requiring speech privacy. Ceilings requiring exceptionally durable, long-lasting panels. High-visibility areas that require color and/or a range of texture options.	BRIO *CLIMAPLUS* "F" FISSURED FRESCO *CLIMAPLUS* FROST FROST *CLIMAPLUS* GLACIER SANDRIFT *CLIMAPLUS* SUMMIT *CLIMAPLUS*	114 122 126 128 130 132 166 170
X-Technology Mineral Fiber painted surface natural mineral fiber	Unique process creates a smooth surface with high noise absorption (NRC) and blocking (CAC). Superior sag resistance and outstanding dimensional stability. Surface cleans easily with a soft brush or vacuum.	Open-plan areas that require strong sound absorption (NRC) and sound blocking (CAC) performance. Ceilings that require a level of dimensional stability beyond that of standard water-felted mineral-fiber panels. Designs that require a ceiling with a smooth appearance that can be cleaned easily with a soft brush or vacuum.	ASTRO *CLIMAPLUS* ECLIPSE *CLIMAPLUS* MARS *CLIMAPLUS* MILLENNIA *CLIMAPLUS* ORION 210 *CLIMAPLUS* ORION 270 *CLIMAPLUS*	112 118-123 136 138-141 144 146
Water-Felted Mineral Fiber painted surface natural mineral fiber	Surface perforations aid sound absorption. Creates a variety of surface textures. Surface cleans easily with a soft brush or vacuum. Lowest initial cost. CLEAN ROOM panels have a vinyl face and back and sealed edges to meet federal standards for cleanrooms.	General-use areas requiring a balance of acoustical control and economy. High ceilings subject to infrequent plenum access and out of the way of activity below.	ASPEN CLEAN ROOM *CLIMAPLUS* Class 100 CLEAN ROOM *CLIMAPLUS* Class 10M-100M FISSURED OLYMPIA MICRO *CLIMAPLUS* PEBBLED *CLIMAPLUS* RADAR RADAR *CLIMAPLUS* RADAR Ceramic *CLIMAPLUS* ROCK FACE *CLIMAPLUS* TOUCHSTONE *CLIMAPLUS*	110 116 116 124 142 148 154 156-161 162 164 172

![USG logo]

USG is the only manufacturer with the capabilities to produce acoustical ceiling panels with five different substrate technologies to achieve the full range of functional and aesthetic needs. Available substrates include cast mineral fiber, X-Technology mineral fiber, water-felted mineral fiber, fiberglass, and gypsum panel ceilings.

Profile	Construction	Applications	Available Panels	Page No.
Fiberglass vinyl, fabric or cloth scrim yellow fiberglass	Vinyl- and fabric-surfaced fiberglass offers superior sound absorption (NRC). Light weight. Washable surface.	Open-plan areas where sound absorption is the highest performance criterion. Ceilings that require a very lightweight panel. Installations that may benefit from a washable vinyl surface.	**HALCYON** *CLIMAPLUS* **PREMIER HI-LIGHT** *CLIMAPLUS* **PREMIER NUBBY** *CLIMAPLUS*	134 150 152
Gypsum Panel white vinyl surface white gypsum	Face-laminated gypsum panels provide dimensional stability and sound blocking (CAC). SHEETROCK CLEAN ROOM panels have a vinyl face and back and sealed edges to meet USDA/FSIS requirements for food processing areas.	Regulated environments such as cleanrooms and kitchens/food preparation areas, which require highly cleanable surfaces that resist absorption of chemicals and odors. Demanding applications subject to moisture exposure, temperature swings and exposure to dirt and grime, such as exterior soffits, marine environments, parking garages and locker rooms.	**Sheetrock CLEAN ROOM** *CLIMAPLUS* **Lay-In Panel** **SHEETROCK Vinyl** *CLIMAPLUS* **Lay-In Panel**	168 168

The Acoustical Ratings selector identifies USG ceiling panels that offer enhanced sound control properties. By absorbing sound and reducing sound transmission better than standard panels, these products can significantly improve acoustical comfort, privacy and productivity. Here's a closer look at what to consider when selecting a high-performance acoustical ceiling for your project.

High-NRC Panels Absorb More Sound

The Noise Reduction Coefficient (NRC) of a panel measures how effectively it absorbs sound. High-NRC ceiling panels are most effective in open areas because they can reduce reverberation within the space. NRC is represented by a number between 0 and 1.00, which indicates the percentage of sound reaching it that will be absorbed. For example, an acoustical ceiling panel with an NRC value of .60 will absorb 60% of the sound that strikes it and deflect 40% back into the space.

NRC of .50 or higher offers significant sound absorption, and USG panels designed for increased acoustical performance feature NRC ratings of .70 or above. Our HALCYON *CLIMAPLUS* ceiling panel offers an NRC of 1.00, the highest rating.

High-CAC Panels Reduce Sound Transmission

Ceiling Attenuation Class (CAC) indicates the ability to reduce sound transmission. High-CAC panels can improve privacy in enclosed spaces by blocking sound from transmitting up into the plenum and down to adjacent rooms. A ceiling panel with a CAC of 40 will reduce transmitted sound by 40 decibels (dB); CAC of 35 or higher offers significant sound attenuation.

Beyond Good Design

High acoustical performance is critical for clients that must comply with federal privacy rules. For example, the Health Insurance Portability and Accountability Act (HIPAA) requires that all physician offices, pharmacies and other healthcare facilities in the U.S. protect personal health information. This includes consultation areas, where doctor-patient conversations could be overheard.

The Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), requires that banks, investment companies and other financial institutions protect customer financial information from being inadvertently disclosed.

To provide an effective, affordable solution for speech privacy, USG has teamed up with Lencore Acoustics to offer the most comprehensive sound masking ceiling systems available. For more information on how USG ceiling panels and Lencore sound masking work together to improve speech privacy and enhance acoustical comfort, see pages 18-19 and 230-231.

USG
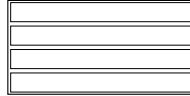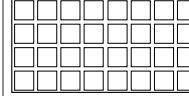
Ceiling Panels[1]	Sound Rating		Textures	Panel Cost	Page Number	Price/ sq. ft.
	NRC	CAC Min.[2]				
High NRC & CAC Combinations						$ < 1.50
BRIO *CLIMAPLUS*	.70	35	Heavy	$$	114	$$ 1.51 to 2.50
ECLIPSE *CLIMAPLUS*	.70	35	Fine	$$	118	$$$ 2.51 to 3.50
ECLIPSE *CLIMAPLUS* Illusion	.70	35	Fine	$$	120	$$$$ > 3.51
"F" FISSURED	.70	35	Medium	$$	122	
Fresco *CLIMAPLUS*	.70	35	Heavy	$$$	126	**NRC** = Noise
FROST *CLIMAPLUS*	.70	35-40[3]	Fine	$$	130	Reduction Coefficient
MARS *CLIMAPLUS*	.70	35	Fine	$$	136	**CAC** = Ceiling
MILLENNIA *CLIMAPLUS*	.70	35	Fine	$$	138	Attenuation Class
MILLENNIA *CLIMAPLUS* Illusion	.70	35	Fine	$$	138	
RADAR *CLIMAPLUS* High NRC	.70	35	Medium	$	160	
SANDRIFT *CLIMAPLUS*	.70	38	Medium	$$$	166	
SUMMIT *CLIMAPLUS*	.70	38/40[2]	Fine	$$	170	
GLACIER	.65	35	Heavy	$$	132	
FROST	.70	35/38	Fine	$$	128	
High NRC						
HALCYON *CLIMAPLUS*	.90-1.00	20-30	Fine	$$	134	
PREMIER NUBBY *CLIMAPLUS* (Foil-back)	.85/.90	20/25	Fine	$$$	152	
ORION 270 *CLIMAPLUS*	.80	25	Fine	$$$	146	
MILLENNIA *CLIMAPLUS* High NRC	.75	30	Fine	$$	140	
PREMIER HI-LITE *CLIMAPLUS* Perforated	.75	20	Medium	$	150	
SUMMIT *CLIMAPLUS*	.70	38/40[2]	Fine	$$	170	
SANDRIFT *CLIMAPLUS*	.70	38	Medium	$$$	166	
BRIO *CLIMAPLUS*	.70	35	Heavy	$$	114	
ECLIPSE *CLIMAPLUS*	.70	35	Fine	$$	118	
ECLIPSE *CLIMAPLUS* Illusion	.70	35	Fine	$$	120	
"F" FISSURED	.70	35	Medium	$$	122	
Fresco *CLIMAPLUS*	.70	35	Heavy	$$$	126	
FROST *CLIMAPLUS*	.70	35-40[3]	Fine	$$	130	
MARS *CLIMAPLUS*	.70	35	Smooth	$$	136	
MILLENNIA *CLIMAPLUS*	.70	35	Fine	$$	138	
MILLENNIA *CLIMAPLUS* Illusion	.70	35	Fine	$$	138	
RADAR *CLIMAPLUS* High NRC	.70	35	Medium	$	160	
GLACIER	.65	35	Heavy	$$	132	
FROST	.70	35/38	Fine	$$	128	
High CAC						
RADAR *CLIMAPLUS* High CAC	.55	40	Medium	$	160	
RADAR Ceramic *CLIMAPLUS*	.50	40	Medium	$$	162	
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*	—	35/40	Smooth	$	168	

1. Performance values do not include 12"x12" or Pedestals products.
2. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
3. CAC is 40 when installed in FINELINE or FINELINE 1/8 suspension system.

Patterns

USG

Many USG ceiling panels are available with a choice of attractive face patterns, providing easy opportunities to enhance visual interest, adjust dimensional scale or add thematic cues.

Illusion Face Scoring

Create the appearance of a smaller-scaled ceiling system without compromising accessibility or increasing the complexity of the installation. Options include:

Illusion Two/24	Illusion Four/48	Illusion Eight/12	Illusion Thirty-Two/16
2′x4′ panels with the look of 2′x2′ panels.	2′x4′ panels with the look of 6″x4′ panels.	2′x4′ panels with the look of 12″x12″ panels.	2′x4′ panels with the look of 6″x6″ panels.

Pedestals Triple-Step Scoring

Available with select 2′x2′ panels, Pedestals triple-step scoring adds detail and depth to the ceiling plane, providing an easy way to enhance the interest of your design.

Pedestals IV panels are scored in 12″x12″ modules to further refine the ceiling with the look of a smaller-scaled system.

Pedestals I

Pedestals IV

RENDITIONS Face-Routed Ceiling Panels

Combine the fine texture of 2′x2′ ECLIPSE, FROST or MILLENNIA panels with computer-generated face-routed designs to add detail, highlight a theme or differentiate areas within the space. RENDITIONS panels are available in two standard series: Animations and Boundaries. In addition, virtually any custom design, including company logos or trademarks, can be produced.

Animations
Whimsical patterns designed for childcare facilities, educational environments, children's healthcare facilities and other themed environments.

Aquarium	Barefootin'	Blocks	Fast Food	Flying Things

Leaves	Night Sky	Paws	Railway	Stuffed Animals

USG

	Curls	Deco	Dentil	Diagonal	
Boundaries Choose from simple and ornate border patterns to define space and add visual interest. Designs may cross grid lines to enhance wayfinding. Boundaries patterns may be especially suited to educational facilities, healthcare environments and retail spaces.					
	Renditions I	**Tara**			

Custom designs

Custom Renditions designs can be made from sketches or AUTOCAD® drawings, and your designs may cross grid lines for the ultimate in flexibility. Numbered ceiling panels match shop drawings to ensure easy installation.

FROST panels with RENDITIONS face routing are available in Standard colors, Advantage colors and custom colors. ECLIPSE and MILLENNIA panels are available in White only. Panels with face routing do not carry the USG *CLIMAPLUS* non-sag warranty. Refer to standard commercial ceilings warranty. For more information about RENDITIONS face routing, see pages 66-71.

Ceiling Panels	Illusion Face Scoring				Pedestals Scoring		REDITIONS Face Routing
	Two/24	Four/48	Eight/12	Thirty-Two/6	I	IV	
ASPEN	●						
ASTRO *CLIMAPLUS*	●						
ECLIPSE *CLIMAPLUS*[1]					●		●
ECLIPSE *CLIMAPLUS* Illusion and Pedestals	●				●	●	
FROST					●		●
MILLENNIA *CLIMAPLUS*[1]	●						●
OLYMPIA MICRO *CLIMAPLUS*	●						
RADAR Illusion	●						
RADAR *CLIMAPLUS* Illusion	●	●	●	●			

1. Panels with face routing do not carry the USG *CLIMAPLUS* non-sag warranty. Refer to standard commercial ceilings warranty.

Today's building industry focuses on conservation, recycling and long-term performance in a comprehensive strategy known as sustainable design. This practice involves the careful selection of building materials, construction methods and design details to create structures that consume fewer natural resources to build, maintain and remain viable in the future.

USG ceiling products are designed to enhance the sustainability of your design by providing:

Recycled and Renewable Ingredients

Many USG acoustical ceiling panels contain mineral wool derived from slag, a byproduct of steelmaking, reducing the need to mine and process raw materials and minimizing landfill waste. Many panels also contain recycled paper. Binders are derived from corn and wheat starch, which are renewable agricultural resources.

The metal in many of our specialty ceiling and drywall suspension systems includes recycled content. Aluminum offers additional benefits in that it can be fully re-purposed by re-melting and salvaging the metal.

Support for Healthy Environments

Assuring a high level of indoor environmental quality (IEQ) is a key to sustainability because spaces that deliver comfort and functionality are likely to meet occupant needs long into the future without requiring extensive upgrades or renovations. To increase long-term practicality, architects must choose materials that not only perform well and look good but also support a healthy environment.

Many USG ceiling panels help to support healthy environments with:

Reduced volatile organic compounds (VOCs).

VOCs include thousands of synthetic and natural chemicals emitted by a wide array of products, building materials, and microorganisms. One common VOC is formaldehyde, a colorless and pungent gas. VOCs can cause numerous health effects in sensitive individuals, including eye, nose and throat irritation, headaches, skin reactions, fatigue, dizziness, loss of coordination and nausea.

To help building professionals create healthy spaces, USG offers many CLIMAPLUS ceiling panels and tiles that contain no formaldehyde or such low levels as to exceed stringent standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI). This high performance comes standard on these products, with no additional charge or lead time.

Choosing formaldehyde-free and low-formaldehyde ceiling products can also help earn LEED credits. Section 3.2, IAQ Management Plan, Before Occupancy, requires a total formaldehyde concentration of 50 ppb or less. As one of the largest surfaces in a space, a ceiling with low- or no-formaldehyde panels make a strong contribution toward achieving valuable credits – and creating a healthy, sustainable space.

Inhibition of mold, mildew and bacteria.

The presence of mold, mildew and other microbes is a symptom of a larger construction or maintenance problem such as condensation, building leaks, or improperly maintained ductwork or water pipes. Causes below the ceiling can include poor enclosure or exposure to outdoor elements, window leaks, slow air circulation, improper humidity control and low surface temperature.

Because mold spores are everywhere and they can grow on virtually any surface where moisture is present, preventing mold begins with moisture control through best building and maintenance practices. Adding the right protection in the right places is the second critical aspect of the mold-control equation.

USG helps architects and specifiers address the issue of mold and microbial growth by providing two levels of antimicrobial performance.

CLIMAPLUS **Superior Performance** ceiling panels (all ASTRO panels, select ECLIPSE panels and all *CLIMAPLUS* cast-mineral-fiber panels). The only standard ceiling panels on the market with a limited lifetime (30-year) warranty against mold and mildew growth, subject to use under normal conditions.

Panel face and back surfaces feature a USG-patented antimicrobial treatment that provides broad-spectrum control for mold/mildew, fungi, yeast, algae, and bacteria over the warranty period. After a 28-day incubation period, panels tested in accordance with ASTM D3273-00[1] and evaluated per ASTM D3274-95[2] have achieved a 10 rating. This is the highest rating achievable and signifies "no growth."

CLIMAPLUS **AntiMicrobial Treatment** mineral-fiber ceiling panels and tiles. Controlled laboratory tests have demonstrated the effectiveness of USG *CLIMAPLUS* ceilings[3] treated with a patented antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast and odor/stain-causing Gram-positive and Gram-negative bacteria. This formulation is a broad-spectrum antimicrobial treatment applied to panel face and back surfaces.

For more information about sustainable design issues that affect ceiling selection, see *Indoor Environmental Quality*, *Acoustical Ceiling Solutions* (SC2452). For details on products with low or no formaldehyde and antimicrobial treatments, see *Indoor Environmental Quality Certification of Performance for Acoustical Ceilings* (SC2451).

1. Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
2. Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.
3. See pages 101-102 for a complete list of qualifying products.

USG

Sustainability

Acoustical Ceilings Recycling Program

USG has manufactured wallboard with recaptured gypsum for more than 30 years. And, we're one of the nation's top users of recycled paper. Now USG can help meet the needs of a growing world and preserve natural resources by taking back approved ceiling panels from any manufacturer and recycling them into new building products. Recycling is:

The right thing. Recycling reduces waste and relieves pressure on overburdened landfills. Incorporating renovation waste into new building products can also slow the rate at which raw materials are extracted from the land.

Efficient. In the time required to haul small loads of old panels to the waste container, workers can palletize panels as they are removed.

Cost-effective. Panels can be palletized about as quickly as they are hauled and loaded into waste containers. And, you'll reduce container and landfill fees.

How it Works

We've designed this program to be fast, easy and cost effective. Just follow these simple steps:

1. Verify that the panels are recyclable

We can accept mineral-fiber ceiling products for recycling. Material must be clean, dry and approved by USG. No wood, metal or construction debris of any kind is permitted. Panels must not have come into contact with any hazardous material that requires special handling or disposal.

2. Stack the panels

Instead of hauling and loading old panels into a waste container, stack them neatly on shipping pallets. When a pallet is full, simply wrap it with plastic and set aside for pickup by a local USG distributor.

3. Contact USG for pickup

We'll arrange and pay to haul away the old panels. Just be sure to have a full truckload (30,000 square feet), and call your local USG representative at least five days before pickup is required. If you cannot fill a truck, additional options are available. Our goal is to prevent recyclable materials from being discarded into landfills.

Recycling can also qualify your project for LEED points. To find out more, contact your local USG representative or visit www.usg.com.

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USGBC LEED Credit Category

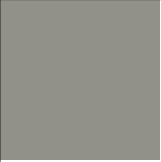| Substrate	Product Name	EQ4			EQ8			MR 4.1 and 4.2				MR 5.1 and 5.2
		VOC Class.[1]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	LR	NRC	CAC	Recycled Content[2] Class A		FIRECODE		Manufacturing Information
								Post-Ind.	Post-Cons.	Post-Ind.	Post-Cons.	
Cast Mineral Fiber	BRIO CLIMAPLUS	Free	●	○	.81	.70	35	72%	0%	70%	0%	Manufactured at Walworth, WI 53184
	"F" FISSURED	Free	—	—	.79	.70	35	72%	0%	70%	0%	
	FRESCO CLIMAPLUS	Free	●	○	.83	.70	35	72%	0%	70%	0%	Ingredients: slag wool, plaster of paris, starch, clay
	FROST	Free	—	—	.85	.70	35/38	72%	0%	70%	0%	
	FROST CLIMAPLUS	Free	●	○	.83	.70	35-40	72%	0%	70%	0%	
	GLACIER	Free	—	—	.70	.70	35	72%	0%	70%	0%	
	SANDRIFT CLIMAPLUS	Free	●	○	.83	.70	38	72%	0%	70%	0%	
	SUMMIT CLIMAPLUS	Free	●	○	.81	.70	38/40	56%	0%	56%	0%	
X-Technology-Mineral Fiber	ASTRO CLIMAPLUS	Low	●	○	.86	.50/.55	35	63%	0%	66%	0%	Manufactured at Cloquet, MN 55720
	ECLIPSE CLIMAPLUS	Low	● ○	○	.86	.70	35	76%	0%	61%	0%	
	MARS CLIMAPLUS	Low	○	○	.89	.70	35	74%	0%	—	—	Ingredients: slag wool, perlite, cellulose, starch, clay
	MILLENNIA CLIMAPLUS	Low	○	○	.87	.70/.75	30/35	74%	0%	61%	0%	
	ORION 210 CLIMAPLUS	—	—	—	.76	.65	25	81%	0%	—	—	
	ORION 270 CLIMAPLUS	Low	—	—	.86	.80	25	81%	0%	—	—	

● CLIMAPLUS Superior Performance: Features a lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests. Panel face and back surfaces are treated with USG's patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating (signifying "no mold growth") when tested and evaluated per ASTM D3273-00 and D3274-95.

○ CLIMAPLUS AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria.

1. Formaldehyde VOC Classification, according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society ofHeating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
2. Federal Trade Commission guidelines define recycled content as material recovered or diverted from the solid-waste stream, either during the manufacturing process (pre-consumer) or after consumer use (post-consumer).
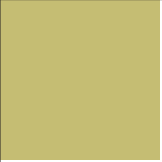
Sustainability

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USGBC LEED Credit Category

Substrate	Product Name	EQ4			EQ8			MR 4.1 and 4.2				MR 5.1 and 5.2
		VOC Class.[1]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	LR	NRC	CAC	Recycled Content[2] Class A		FIRECODE		Manufacturing Information
								Post-Ind.	Post-Cons.	Post-Ind.	Post-Cons.	
Water-Felted Mineral Fiber	FISSURED	Low	—	—	.81	.55	33/35	12%	17%	42%	6%	
	RADAR	Low	—	—	.85	.50-.60	33/35	12%	17%	42%	6%	
	RADAR CLIMAPLUS	Low	O	O	.84	.55	33/35	31%	13%	42%	6%	
	RADAR CLIMAPLUS High CAC	Low	O	O	.84	.55	40	51%	1%	51%	1%	
	RADAR CLIMAPLUS High NRC	Low	O	O	.84	.70	35	51%	1%	51%	1%	
	RADAR Ceramic CLIMAPLUS	Low	—	—	.82	.50	40	—	41%	—	0%	
	ASPEN	Low	—	—	.87	.50/.55	35/40	30%	4%	44%	3%	Manufactured at Greenville, MS 38701
	FISSURED	Low	—	—	.81	.55	33/35	17%	10%	44%	3%	Ingredients: slag wool, perlite, cellulose, starch, clay
	OLYMPIA MICRO CLIMAPLUS	Low	O	O	.87	.50	30/35	47%	7%	—	—	
	PEBBLED CLIMAPLUS	Low	O	O	.86	.55	35	30%	4%	44%	3%	
	RADAR	Low	—	—	.85	.50-.60	33/35	19%	10%	45%	3%	
	RADAR CLIMAPLUS	Low	O	O	.84	.55	33/35	25%	9%	44%	3%	
	ROCK FACE CLIMAPLUS	Low	O	O	.86	.55	35	—	—	44%	3%	
	TOUCHSTONE CLIMAPLUS	Low	O	O	.86	.55	35	30%	4%	44%	3%	
Fiberglass	HALCYON CLIMAPLUS	—	—	—	.88	.90-1.00	20-30	27%	0%	—	—	Manufactured at Greenville, MS 38701
	PREMIER HI-LIGHT CLIMAPLUS	—	—	—	.86	.60/.75	20	29%	0%	—	—	Ingredients: glass fiber
	PREMIER NUBBY CLIMAPLUS	—	—	—	.87	.85/.90	25	29%	0%	—	—	

● CLIMAPLUS Superior Performance: Features a lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests. Panel face and back surfaces are treated with USG's patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating (signifying "no mold growth") when tested and evaluated per ASTM D3273-00 and D3274-95.

O CLIMAPLUS AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria.

1. Formaldehyde VOC Classification, according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society ofHeating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
2. Federal Trade Commission guidelines define recycled content as material recovered or diverted from the solid-waste stream, either during the manufacturing process (pre-consumer) or after consumer use (post-consumer).

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Ceiling Panels and Suspension System

Panel[1]	DX/DXL SQ	DX/DXL SL/SLT/SLB	CENTRICITEE	FINELINE	DXW	DX/DXL Concealed	DXLA	ZXLA	AX	CE
Aspen	—	$$	—	—	—	—	—	—	—	—
Aspen Illusion	—	$$	—	—	—	—	—	—	—	—
ASTRO *CLIMAPLUS*	$$	$$	$$	$$	$$	—	—	—	—	—
ASTRO *CLIMAPLUS* Illusion	—	$$	—	—	—	—	—	—	—	—
BRIO *CLIMAPLUS*	—	$$	$$$	$$$	—	—	—	—	—	—
CLEAN ROOM *CLIMAPLUS*	$$	—	—	—	—	—	$$	$$	$$	$$$
ECLIPSE *CLIMAPLUS*	$$	$$	$$	$$$	$$	$$$$	—	—	—	—
ECLIPSE *CLIMAPLUS* Illusion and Pedestals	—	$$	$$	—	—	—	—	—	—	—
"F" FISSURED	$$	$$	$$	$$	$$	$$$$	—	—	—	—
Fissured	$	$	$	—	$$	—	—	—	—	—
Fresco *CLIMAPLUS*	—	$$	$$$	$$$	—	—	—	—	—	—
FROST	$$	$$	$$	$$$	$$	—	—	—	—	—
FROST *CLIMAPLUS*	—	$$	$$	$$$	—	—	—	—	—	—
GLACIER	—	$$	$$	$$$	—	$$$$	—	—	—	—
HALCYON *CLIMAPLUS*	$$	$$	$$	$$$	$$	—	—	—	—	—
MARS*CLIMAPLUS*	$$	$$	$$	$$$	$$	—	—	—	—	—
MILLENNIA *CLIMAPLUS*	$$	$$	$$	$$$	$$	$$$$	—	—	—	—
MILLENNIA *CLIMAPLUS* Illusion	—	$$	$$	—	—	—	—	—	—	—
MILLENNIA *CLIMAPLUS* High NRC	—	$$	$$	$$$	—	—	—	—	—	—
Olympia Micro *CLIMAPLUS*	$$	$$	$$	$$	$$	—	—	—	—	—
Olympia Micro *CLIMAPLUS* Illusion	—	$$	—	—	—	—	—	—	—	—
ORION 210 *CLIMAPLUS*	$	—	$	—	$$	—	—	$$	$$	—
ORION 270 *CLIMAPLUS*	$$	$$	$$	$$	$$$	—	—	—	—	—
Pebbled	$	$	$	$	$$	—	—	—	—	—
PREMIER HI-LITE *CLIMAPLUS*	$	—	—	—	$$	—	—	$$	$$	—
PREMIER NUBBY *CLIMAPLUS*	$$$	—	—	—	$$$$	—	—	—	—	—
RADAR	$	$$	$	$$	$$	$$$	—	—	—	—
RADAR Illusion	—	$$	$$	—	—	—	—	—	—	—
RADAR *CLIMAPLUS*	$	$$	$$	$$	$$	—	—	—	—	—
RADAR *CLIMAPLUS* High-Durability	$	$$	$$	$$	$$	—	—	—	—	—
RADAR *CLIMAPLUS* Illusion	—	$$	$$	—	—	—	—	—	—	—
RADAR *CLIMAPLUS* High CAC, High NRC	$	$	$	—	$$	—	—	—	—	—
RADAR Ceramic *CLIMAPLUS*	—	—	—	—	—	—	—	$$	$$	—
ROCK FACE *CLIMAPLUS*	$$	$$	—	—	—	—	$$	$$	$$	—
SANDRIFT *CLIMAPLUS*	—	$$$	$$$$	$$$$	—	—	—	—	—	—
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*, Vinyl	$	—	—	—	$$	—	$$	$$	$$	$$$
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*, CLEAN ROOM	$$	—	—	—	$$	—	$$	$$	$$	$$$
SUMMIT *CLIMAPLUS*	—	$$	$$$	$$$	—	—	—	—	—	—
Touchstone *CLIMAPLUS*	$$	$$	$$	$$	$$$	—	$$	—	—	—

Price/sq. ft.

$ < 1.50

$$ 1.51 to 2.50

$$$ 2.51 to 3.50

$$$$ > 3.51
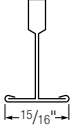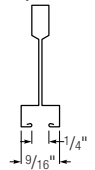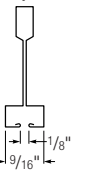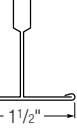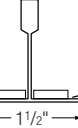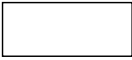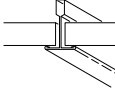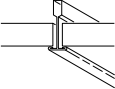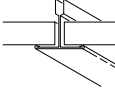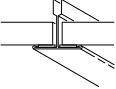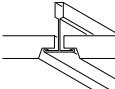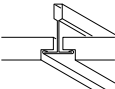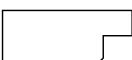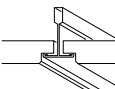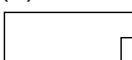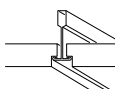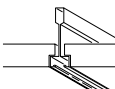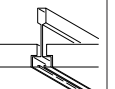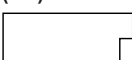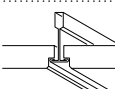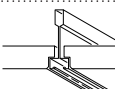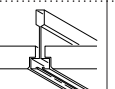
Relative installed costs per square foot are approximate and based on USG ceiling panel and suspension system combinations shown. These estimates are different from panel-only costs shown on other product data pages.

Costs are calculated from national average ranges for a typical installation under ideal height and job site conditions. Actual installed costs may vary based on several installation factors.

1. Costs do not include 12″x12″ products.

System Interface
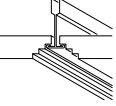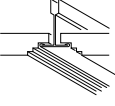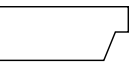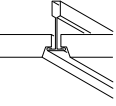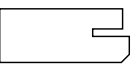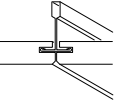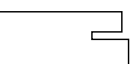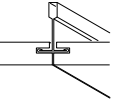
Edge Detail	DX/ DXL/ DXLA/ AX/ ZXLA/ DXSS	CENTRICITEE (DXT)[1]	FINELINE (DXF)	FINELINE 1/8 (DXFF)	DXW\	CE	
Suspension Systems	USG offers numerous suspension system and edge detail options to help meet your design requirements. Select a suspension system and match it with a corresponding panel edge detail, or vice versa, to assure proper system fit and assembly.						
dimensions	15/16"	9/16"	1/4" · 9/16"	1/8" · 9/16"	1 1/2"	1 1/2"	
Square Edge (SQ)	▣	▣			▣	▣	
Shadowline Tapered (SLT)	▣						
Shadowline (SL)	▣						
Shadowline Bevel (SLB)	▣						
Fineline (FL)		▣	▣	▣			
Fineline Bevel (FLB)		▣	▣	▣			

1. May be used with 2′ x 2′ ceiling panels only. May not be used with FROST or GLACIER ceiling panels.

USG

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

Suspension Systems

Edge Detail	DX /DXL	CENTRICITEE (DXT)	DX/DXL Concealed	Notes
	15/16"	9/16"	15/16"	
Pedestals (PE/ILT)				DONN Brand AX, DXLA, and ZXLA suspension systems have the same profile as DONN Brand DX and can utilize the same edge details.
Pedestals (PE/SLT)				DONN Brand DXL, DXLA, ZXLA, DXLF, and DXLT fire-rated suspension systems and FIRECODE Formulation panels may have restrictions on size and application; refer to appropriate UL Design for acceptable components.
Interline Tapered (ILT)				ILT edge is applicable only to Illusion and Pedestals face cut products.
BESK				Square edge panels are not recommended with 2′x4′ modules using 9/16″ grid. Refer to product pages for compatible grid options.
SESK				

Perimeter Interface

USG offers numerous perimeter options designed to accommodate all D<small>ONN</small> suspension systems with USG acoustical ceiling panels. Use this selector as a guide to ensure that a perimeter molding meets your design criteria. For fire-rated applications, check the UL design for approved molding shapes and sizes.

1. Shadowline tapered panel will result in mouse hole at molding.
2. Reveal depth will vary by product.
3. Detail requires field cut and reveal of perimeter panels.
4. US25 typical for concealed grid and tile.

Wall Molding and M12CE

	Shadowline edge at perimeter with Shadowline tile	Square edge at perimeter with Square edge tile	Square edge at perimeter with Shadowline tile
	exposed grid — wall molding [3] — acoustical panel [3]	exposed grid — wall molding — acoustical panel	exposed grid — wall molding [1] — acoustical panel

Typical Sizes	A	B
M7, M7Z, M7A	7/8″	7/8″
M9	15/16″	9/16″
M12	1-1/2″	1″
MC11A	1″	1″
M12CE	1-1/2″	1″
M20, M20HD, M20SM	1″	2″

Shadow Molding

	Shadowline edge at perimeter with Shadowline tile	Shadowline edge at perimeter with Square edge tile
	exposed grid — shadow molding [1] — acoustical panel [2]	exposed grid — shadow molding [2] — acoustical panel

Typical Sizes	A	B	C	D
MS124	15/16″	1/4″	5/16″	15/16″
MS134	9/16″	1/4″	5/16″	3/4″
MS144	3/4″	3/8″	1/2″	3/4″
MS154	7/8″	3/4″	3/4″	7/8″
MS164	3/4″	3/4″	3/4″	3/4″
MS174	1″	3/8″	3/8″	9/16″
MS274	7/8″	3/4″	9/32″	1-1/4″

US Channel Molding and US25CE

	Square edge at perimeter of concealed grid and tile	Square edge at perimeter of square edge tile
	US channel wall molding [4] — concealed grid — spring clips [2] — acoustical tile	exposed grid — US channel wall molding — acoustical panel

Typical Sizes	A	B	C
US8	1/2″	1/2″	1″
US10	5/8″	1/2″	1″
US12	3/4″	1/2″	1″
US16	1″	1/2″	1″
US19	1-3/16″	1/2″	1″
US20	1-1/4″	1/2″	1″
US22	1-3/8″	1/2″	1″
US25	1-9/16″	1/2″	1″
US25CE	1-9/16″	1/2″	1″
US31	1-15/16″	1/2″	1″

USG

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

USG offers numerous perimeter options designed to accommodate all Donn suspension systems with USG acoustical ceiling panels. Use this selector as a guide to ensure that a perimeter molding meets your design criteria. For fire-rated applications, check the UL design for approved molding shapes and sizes.

Vertical to horizontal transition detail for suspension system

MF Molding

A

$1^3/4"$

$5/8"$

.475

hanger wire

$1/2"$ from ₵ of cross tee to cut edge

notch thru bulb & web - bend face at 90°

ceiling drop (varies)

notch tee and insert into MF-10 molding

MF-10 molding use with $5/8"$ board

$1^3/4"$

pop rivet
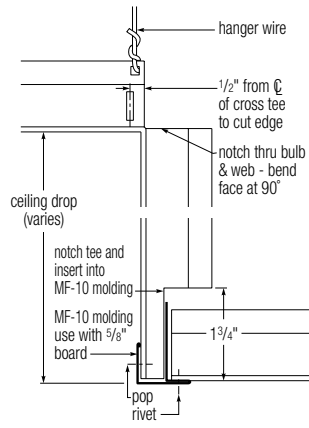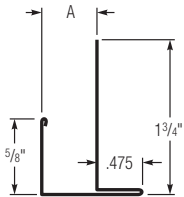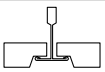
Typical Sizes	A
MF8	**1/2″**
MF10	**5/8″**

Select

Acoustical Ceiling Panels

Product Information

Aspen

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1809

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Recycled Content[3]	Panel Cost
ASPEN Panels	(SLT)	2′x2′x3/4″	Class A	**650**	.55	35	.87	White	A	Low	34%	$$
		2′x4′x3/4″	Class A	**651**	.55	35	.87	White	A	Low	34%	$$
ASPEN Illusion Two/24 Panels The look of 2′x2′ panels	(SLT)[4]	2′x4′x3/4″	Class A	**652**	.50	40 🔊	.84	White	A	Low	34%	$$

Face Cut Patterns

Illusion Two/24

Grid Profile Options

A
DONN® DX®/DXL™

ASTM E1264 classification
ASPEN: Type III, Form 2, Pattern CDFI
ASPEN Illusion: Type III, Form 2, Pattern CDFIK
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
1.12 lb./sq. ft. (Class A)
1.37 lb./sq. ft. (Illusion)

Thermal resistance
R-1.7 (3/4″ panels)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Recommended suspensions
See the Grid and Edge selector.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.
4. Panels have a 15/16″ routing.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

USG

Aspen™

Medium-textured panel

Indoor Environmental Quality	• Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits	• Random, naturally sculptured appearance offers upscale look without upscale cost. • Sizes and formulations meet most design criteria. Suitable for general applications.

Applications	• Schools • General offices • Retail stores

Substrate	Water-felted mineral fiber

Astro
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2321

ClimaPlus Non-Sag Warranty

ⓊⓁ UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
ASTRO CLIMAPLUS Panels	(SQ)	2′x2′x5/8″	Class A	8221	.55	35	.86	White	A,B,C	Low	●	•	63%	$$
		2′x2′x3/4″	🔥	8122	.50	35	.86	White	A, D	Low	●	•	66%	$$
		2′x4′x5/8″	Class A	8241	.55	35	.86	White	A,B	Low	●	•	63%	$$
	(SLT)	2′x2′x5/8″	Class A	8223	.55	35	.86	White	E	Low	●	•	63%	$$
		2′x2′x3/4″	🔥	8322	.50	35	.86	White	E	Low	●	•	66%	$$
		2′x4′x5/8″	Class A	8243	.55	35	.86	White	E	Low	●	•	63%	$$
	(FLB)	2′x2′x5/8″	Class A	8227	.55	35	.86	White	F, H, I	Low	●	•	63%	$$
		2′x2′x3/4″	🔥	8722	.50	35	.86	White	G, J	Low	●	•	66%	$$
		2′x4′x5/8″	Class A	8247	.55	35	.86	White	F, H, I	Low	●	•	63%	$$
ASTRO CLIMAPLUS Illusion Two/24 Panels	(SLT)[5]	2′x4′x3/4″	Class A	8742	.55	35	.86	White	E	Low	●	•	63%	$$
	(ILT)[6]	2′x4′x3/4″	Class A	8744	.55	35	.86	White	K	Low	●	•	63%	$$
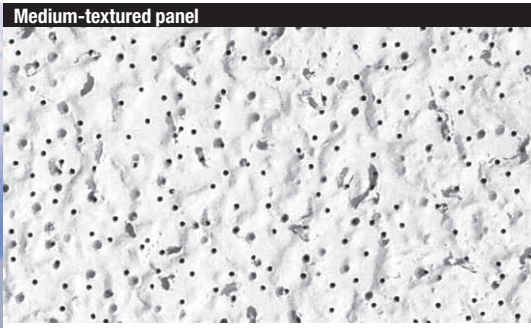
Illusion Two/24 The look of 2 x 2 panels

Patterns

Grid Profile Options

A DONN® DX®/ DXL™	B DONN® DXW™	C[7] CENTRICITEE™	D CENTRICITEE™ DXLT	E DONN DX/DXL	F CENTRICITEE

G CENTRICITEE DXLT	H FINELINE® 1/8	I FINELINE®	J FINELINE® DXLF	K CENTRICITEE

● **CLIMAPLUS Superior Performance: Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[8]**

• Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
ASTRO: Type III, Form 1 and 2, Pattern G; ASTRO Illusion: Type III, Form 1, Pattern GK
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25

Weight
0.92 lb./sq. ft. (Class A)
1.10 lb./sq. ft. (FIRECODE)
Thermal resistance
R-2.0 (Class A 5/8″)
R-2.4 (Class A 3/4″)
R-2.4 (FIRECODE 3/4″)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
Because the manufacturing process for ASTRO *CLIMAPLUS* ceiling panels can potentially create subtle texture variations, we recommend ordering and installing this product by production date code.
Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.

3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.
5. Panels have a 15/16″ routing.
6. Panels have a 9/16″ routing.

7. Maximum 2′x 2′ with SQ Edge panels.
8. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling*

Systems Warranties and Limitations (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Astro™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Indoor Environmental Quality

- *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests
- The industry's only limited lifetime (30 years) warranty against mold and mildew growth.
- Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits

- Fine-textured, non-perforated, and non-fissured appearance offers highly desired aesthetic.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/ 95% relative humidity without visible sag when used with a USG DONN® brand suspension system.
- Optional FIRECODE™ formulation designed to meet life safety codes.

Applications

- Schools
- Hospitals
- Healthcare facilities
- General offices
- Municipal buildings

Substrate

X-Technology mineral fiber

Brio
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2349

ClimaPlus NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
Brio ClimaPlus Panels	(SL)	**2′x2′x3/4″**	Class A	**308**	.70 🔊	35	.81	White	A	Free	●	●	72%	$$
	(FL)	**2′x2′x3/4″**	Class A	**309**	.70 🔊	35	.81	White	B, C, D	Free	●	●	72%	$$

	A Donn® DX®/ DXL™	B Centricitee™	C Fineline® 1/8	D Fineline®
Grid Profile Options				

● **ClimaPlus Superior Performance: Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[5]**

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 4, Pattern Z
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.55 lb./sq. ft.
Thermal resistance
R-1.7
Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.
Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Adding sound masking can be as effective as using a ceilings panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Brio™
ClimaPlus™

Heavily textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests. • Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum. • Integral color process masks nicks and scratches and enhances lifelong panel appearance. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system.
Applications	• Conference and lobby areas • Executive offices • Entertainment and gaming • Hospitality • Schools • Transportation terminals
Substrate	Cast mineral fiber

CLIMAPLUS™ NON-SAG WARRANTY

Clean Room *ClimaPlus*

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1811

ClimaPlus™ Non-Sag Warranty

UL Classified

	Edge	Panel Size	Class	Item No.	NRC[1]	CAC Min.	LR[2]	Color	Grid Options	Recycled Content[3]	Panel Cost
CLEAN ROOM *CLIMAPLUS* Class 100 Panels	(SQ)	2′x2′x5/8″	🔥	56099	—	35	.79	White	A, B, C, D, E	50%	$$
		2′x4′x5/8″	🔥	56091	—	35	.79	White	A, B, C, D, E	50%	$$
CLEAN ROOM *CLIMAPLUS* Class 10M-100M Panels	(SQ)	2′x2′x5/8″	🔥	56060	.55	35	.79	White	A, B, C, D, E	50%	$$
		2′x4′x5/8″	🔥	56090	.55	35	.79	White	A, B, C, D, E,	50%	$$
SHEETROCK CLEAN ROOM *CLIMAPLUS* Lay-In Ceiling Panel	(SQ)	2′x4′x1/2″	🔥	3200	—	40[4] 🔊	.79	White	A, B, C, E	50%	$

A	B	C	D	E
DONN® DX®/DXL™	DONN® DXLA®	ZXLA™	AX™	DONN® CE[6]

Grid Profile Options[5]

ASTM E1264 classification
SHEETROCK brand CLEAN ROOM *CLIMAPLUS* lay-in ceiling panel: Type XX, Pattern G, H
Class 100: Type X, Pattern GI
Class 10-100M: Type X, Pattern CGI

ASTM E84 surface burning characteristics
Class A
SHEETROCK brand CLEAN ROOM *CLIMAPLUS* lay-in ceiling panel:
Flame spread: 20
Smoke developed: 5
Class 100 and Class 10M-100M:
Flame spread: 25
Smoke developed: 45
Weight
1.11 lb./sq. ft. (CLEAN ROOM panels)
2.0 lb./sq. ft. (SHEETROCK brand CLEAN ROOM *CLIMAPLUS* lay-in ceiling panel)

Thermal resistance
R-16 for CLEAN ROOM Class 100 and 10M-100M Panels
R-0.44 for SHEETROCK brand lay-in ceiling panel.
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a damp sponge, mild detergent and water. Do not use acetate, ammonia, or highly concentrated chlorine, bromide or other harsh chemicals.
Humidity resistance
Tested by 48-hour cycles of 90% and 25% relative humidity repeated continuously for 24 days with no delamination.

Footnotes
1. NRC rating for SHEETROCK brand CLEAN ROOM *CLIMAPLUS* lay-in ceiling panel and CLEAN ROOM *CLIMAPLUS* Class 100 is .10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than .50
2. LR values are shown as averages.
3. For details, see the Sustainability selector.
4. Not UL Classified for acoustics.
5. Field-cut edges of CLEAN ROOM panels must be sealed with white latex paint, shellac, or a mixture of 50% water and 50% water-soluble glue.
6. Clean-room-rated applications require a suspension system with gasketed tee flanges such as DONN CE.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Clean Room™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Smooth-textured panel, Class 100

Smooth-textured panel, Class 10M-100M

Features and Benefits

- CLEAN ROOM™ *CLIMAPLUS*™ Class 100 and 10M-100M panels have an embossed, vinyl-laminated face with sealed back and edges for use in Class 100 or 10M-100M clean rooms. SHEETROCK® brand CLEAN ROOM™ *CLIMAPLUS*™ lay-in ceiling panels have a gypsum core, sealed edges, and vinyl face to meet USDA/FSIS requirements for food processing and use in clean room environments up to Class 100.
- FIRECODE™ formulation designed to meet life safety codes.
- *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system.

Substrate

Water-felted mineral fiber

Eclipse
ClimaPlus

Acoustical Ceilings

CLIMAPLUS NON-SAG WARRANTY

	Edge	Panel Size Imperial Metric (mm)[1]	Class	Item No. Imperial Metric	NRC	CAC Min.[2]	LR[3]	Color[4]	Grid Options	VOC Class.[5]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[6]	Panel Cost
ECLIPSE CLIMAPLUS Superior Performance Panels	(SLT)	2′x2′x3/4″	Class A	76777	.70 🔊	35	.86	White	D	Low	●	•	76%	$$
	(FL)	2′x2′x3/4″	Class A	76977	.70 🔊	35	.86	White	E, G, H	Low	●	•	76%	$$
ECLIPSE CLIMAPLUS Panels	(SQ)	2′x2′x3/4″	Class A	76575	.70 🔊	35	.86	White	A, B, C	Low	○	•	76%	$$
		2′x4′x3/4″	Class A	78575	.70 🔊	35	.86	White	A, B	Low	○	•	76%	$$
	(SLT)	2′x2′x3/4″ 600x600x19	Class A	76775 ME76775	.70 🔊	35	.86	White Standard	D	Low	○	•	76%	$$
		2′x2′x3/4″	🔥	76779	.60	35	.86	White	D	Low	○	•	61%	$$
		2′x4′x3/4″	Class A	78775	.70 🔊	35	.86	White	D	Low	○	•	76%	$$
	(FL)	2′x2′x3/4″ 600x600x19	Class A	76975 ME76975	.70 🔊	35	.86	White Standard	E, G, H	Low	○	•	76%	$$
		2′x2′x3/4″	🔥	76979	.60	35	.86		F, I	Low	○	•	61%	$$
		2′x4′x3/4″	Class A	78975	.70 🔊	35	.86	White	E, G, H	Low	○	•	76%	$$
ECLIPSE CLIMAPLUS Tile[7,8]	(BESK)	12″x12″x3/4″	Class A	70073	.60	40 🔊	.86	White	J	Low	○	•	76%	$$$$

RENDITIONS™[9]

Patterns

A	B	C	D	E	F	G	H	I	J
DONN® DX®/ DXL™	DONN®DXW™	CENTRICITEE™	DONN DX /DXL	CENTRICITEE	CENTRICITEE DXLT	FINELINE® 1/8	FINELINE®	FINELINE® DXLF	DONN® DX®/ DXL™ Concealed

Grid Profile Options

● **CLIMAPLUS Superior Performance: Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[10]**

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[11]

• Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 1, Pattern EI
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Imperial weight
1.04 lb./sq. ft. (Class A panels and tile)
1.16 lb./sq. ft. (FIRECODE panels)
Metric weight
5.07 kg/m² (Class A panels)
Thermal resistance
R-2.2 (Class A)
R-1.9 (FIRECODE)

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.
Footnotes
1. Metric available in white only.
2. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
3. LR values shown as averages.
4. See Colors selector for more information.

5. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
6. For details, see the Sustainability selector.
7. Contact USG for adhesive recommendations for 12″x 12″ glue-up applications.
8. Not UL Classified for acoustics
9. For more information on RENDITIONS face-routed ceiling panels, see IC327.
10. Panel face and back surfaces are treated with USG's superior performing,

patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS* Ceilings *Certification of Performance* (SC2451).
11. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/ stain-causing Gram-positive and

Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS* Ceilings *Certification of Performance* (SC2451).
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Eclipse™
ClimaPlus™

Fine-textured panel

Indoor Environmental Quality	• Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Available with CLIMAPLUS™ Superior Performance, which achieves "no growth" 10 rating per ASTM mold/mildew tests. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Non-directional pattern ensures consistent appearance. • NRC performance of .70. • Optional FIRECODE™ formulation. • CLIMAPLUS 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG DONN® brand suspension system. • Panel used in RENDITIONS™ face-routed ceiling systems. (see IC327).
Applications	• Schools • Hotels • Lobbies • General office and conference areas • Transportation terminals
Substrate	X-Technology mineral fiber

CLIMAPLUS™ NON-SAG WARRANTY

Eclipse *ClimaPlus* Illusion and Pedestals

Acoustical Ceilings

CLIMAPLUS™ NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[3]	Panel Cost
ECLIPSE CLIMAPLUS Illusion Two/24 Panels The look of 2′x2′ panels	(SLT)[4]	2′x4′x3/4″	Class A	**78785**	.65	35	.84	White	A	Low	○	●	76%	$$
	(ILT)[5]	2′x4′x3/4″	Class A	**78085**	.65	35	.84	White	B	Low	○	●	76%	$$
ECLIPSE CLIMAPLUS Pedestals I Panels Triple-step scoring	(PE/SLT)	2′x2′x3/4″	Class A	**72715**	.65	35	.84	White	C	Low	○	●	76%	$$
	(PE/ILT)	2′x2′x3/4″	Class A	**72015**	.65	35	.84	White	D	Low	○	●	76%	$$
ECLIPSE CLIMAPLUS Pedestals IV Panels Triple-step scoring in 12″x12″ modules	(PE/SLT)[4]	2′x2′x3/4″	Class A	**72716**	.65	35	.84	White	C	Low	○	●	76%	$$
	(PE/ILT)[5]	2′x2′x3/4″	Class A	**72215**	.65	35	.84	White	D	Low	○	●	76%	$$

Patterns

Illusion Two/24 Pedestals I Pedestals IV

RENDITIONS™[6]

A	B	C	D
DONN® DX®/ DXL™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[7]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 1, Pattern ElK (Illusion) or Pattern El (Pedestals)
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
1.04 lb./sq. ft.
Thermal resistance
R-2.2
Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.
Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

4. Panels have a 15/16″ routing.
5. Panels have a 9/16″ routing.
6. See RENDITIONS Face-Routed Ceiling Panels (IC327).
7. Panel face and back surfaces treated with a patented, broad-spectrum anti-microbial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS* Ceilings *Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Eclipse™ *ClimaPlus*™
Illusions and Pedestals

CLIMAPLUS™ NON-SAG WARRANTY

Fine-textured panel

| Indoor Environmental Quality | • *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.
• Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI. |

Features and Benefits

- A variety of face scores create the illusion of a smaller-scaled ceiling system without compromising accessibility.
- Solid NRC performance of .70 meets general office acoustical needs for sound absorption.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand temperature and humidity conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG Donn® brand suspension system.
- Panel used in *Renditions*™ face-routed ceiling systems (see IC327).

Applications

- Boutiques
- Schools
- Reception lobbies
- Transportation terminals

Substrate

X-Technology mineral fiber

"F" Fissured

Acoustical Ceilings

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Recycled Content[3]	Panel Cost
"F" Fissured Panels	(SQ)	**2'x2'x3/4"**	Class A	**131**	.70 🔊	35	.79	White	A, B, C	Free	72%	**$$**
		2'x4'x3/4"	Class A	**135**	.70 🔊	35	.79	White	A, B	Free	72%	**$$**
	(SL)	**2'x2'x3/4"**	Class A	**132**	.70 🔊	35	.79	White	D	Free	72%	**$$**
		2'x4'x3/4"	Class A	**136**	.70 🔊	35	.79	White	D	Free	72%	**$$**
	(FL)	**2'x2'x3/4"**	Class A	**133**	.70 🔊	35	.79	White	E, F, G	Free	72%	**$$**
"F" Fissured Tile[3,4]	(BESK)	**12"x12"x3/4"**	Class A	**102**	.70 🔊	25	.79	White	H	Free	72%	**$$$$**
	(SESK)	**12"x12"x3/4"**	Class A	**101**	.70 🔊	25	.79	White	I	Free	72%	**$$$$**

A	B	C	D	E	F	G	H	I
Donn® DX®/DXL™	Donn® DXW™	Centricitee™	Donn DX/DXL	Centricitee	Fineline® 1/8	Fineline®	Donn® DX®/DXL™ Concealed	Donn DX/DXL Concealed

Grid Profile Options

Composite of "F" Fissured ceiling products shows range to be expected in a production lot, and possibly in the same panel or tile. Ranges are random and cannot be specified. Texture appearance will vary based on ceiling height, installation methods, and natural variations of the product.

ASTM E1264 classification
Type III, Form 4, Pattern D
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15

Weight
1.55 lb./sq. ft.
Thermal resistance
R-1.7
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast prod-ucts by production date code.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.
4. Contact USG for adhesive recommendations for 12"x12" glue-up applications.
5. Not UL Classified for acoustics.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

The following are trademarks of USG Interiors, Inc. or a related company: Centricitee, ClimaPlus, Donn, DX, DXL, DXW, "F" Fissured, Fineline, USG.

USG

Medium-textured panel

Indoor Environmental Quality	• Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum. • Combine 12″x12″ tile with the USG Donn® DX®/DXL™ concealed suspension system to create a nearly monolithic ceiling surface.
Applications	• Administrative offices • Schools • Financial institutions • Religious buildings • Restaurants
Substrate	Cast mineral fiber

Fissured

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1815

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Recycled Content[3]	Panel Cost
FISSURED Panels	(SQ)	2′x2′x5/8″	Class A	**560**	.55	33	.81	White	A, B, C	Low	28%	$
		2′x2′x5/8″	🜄	**585**	.55	35	.81	White	A	Low	48%	$
		2′x4′x5/8″	Class A	**562**	.55	35	.81	White	A, B	Low	28%	$
		2′x4′x5/8″	🜄	**586**	.55	35	.81	White	A	Low	48%	$
	(SLT)	2′x2′x5/8″	Class A	**506**	.55	33	.81	White	D	Low	28%	$
		2′x4′x5/8″	Class A	**507**	.55	35	.81	White	D	Low	28%	$

A	B	C	D
DONN® DX®/DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL

Grid Profile Options

ASTM E1264 classification
Type III, Form 2, Pattern CD
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10

Weight
.65-.98 lb./sq. ft. (Class A)
1.14-1.22 lb./sq. ft. (FIRECODE)

Thermal resistance
R-1.4
R-1.6 (FIRECODE)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

Product Information
See usg.com for the most up-to-date product information.
Safety First!
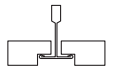Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appro priate personal protective equip- ment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

USG

Fissured™

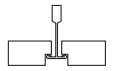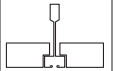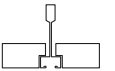| **Indoor Environmental Quality**	• Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Economical, all-purpose ceiling panel pattern in various sizes. • Optional FIRECODE™ formulation designed to meet life safety codes.
Applications	• Administrative offices • Corridors • Mass merchandisers • Convenience stores
Substrate	Water-felted mineral fiber

Fresco
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2348

ClimaPlus Non-Sag Warranty

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
Fresco ClimaPlus Panels	(SL)	2′x2′x3/4″	Class A	**608**	.70	35	.83	White	A	Free	●	●	72%	$$$
	(FL)	2′x2′x3/4″	Class A	**609**	.70	35	.83	White	B, C, D	Free	●	●	72%	$$$

A	B	C	D
Donn® DX®/ DXL™	Centricitee™	Fineline® 1/8	Fineline®

Grid Profile Options

● **ClimaPlus Superior Performance:** Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[5]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 4, Pattern Z
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.55 lb./sq. ft.
Thermal resistance
R-1.7
Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.
Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc. or a related company: Centricitee, ClimaPlus, Donn, DX, DXL, Fineline, Fresco, USG.

USG

USG

Fresco™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Heavily textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests. • Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum. • Integral color masks nicks and scratches and enhances lifelong panel appearance. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system.
Applications	• Conference and lobby areas • Department stores • Entertainment and gaming • Executive offices • Hotels • Media centers • Restaurants
Substrate	Cast mineral fiber

Frost

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1817

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Recycled Content[4]	Panel Cost
Frost Panels	(SLB)	2′x2′x3/4″	Class A	**440**	.70	40	.85	White	A	Free	72%	$$
		2′x2′x3/4″		**415**	.55	35	.85	White	A	Free	70%	$$
		2′x4′x3/4″	Class A	**450**	.70	38	.85	White	A	Free	72%	$$
	(FL)	2′x4′x3/4″	Class A	**460**	.70	38	.85	White	B, C, D	Free	72%	$$
Frost Pedestals I Panels Triple-step scoring	(PE/IL)	2′x2′x3/4″	Class A	**400**	.70	35	.85	White	E	Free	72%	$$$

Patterns

Pedestals I | Renditions™[5]

Grid Profile Options

A	B	C	D	E
Donn® DX®/ DXL™	Centricitee™	Fineline® 1/8	Fineline®	Centricitee

ASTM E1264 classification
Type III, Form 4, Pattern E
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.55 lb./sq. ft.

Thermal resistance
R-1.7 (Class A)
R-1.1 (Firecode)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Impact resistance
ASTM C369 – tested to min. 190 lbf. for 1/4″ depression by a 2″ steel ball.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.
5. See Renditions Face-Routed Ceiling Panels (IC327).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Frost™

Fine-textured panel

Indoor Environmental Quality	• Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Fine-textured cast product with durable surface that resists scrapes caused by accessing the ceiling plenum. • Integral color masks nicks and scratches to enhance lifelong panel appearance. • Optional FIRECODE™ formulation designed to meet life safety codes. • Nearly two times more impact resistant than typical fine-textured ceiling panels (ASTM C367 – 2″ ball hardness test).
Applications	• Conference and lobby areas • Entertainment and gaming • Executive offices • Hotels and restaurants • Retail stores • Education environments • Transportation terminals
Substrate	Cast mineral fiber
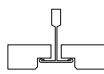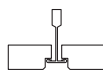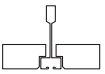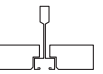
Frost
ClimaPlus

Acoustical Ceilings

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color[3]	Grid Options	VOC Class.[4]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[5]	Panel Cost
FROST *CLIMAPLUS* Panels	(SLB)	**2′x2′x3/4″**	Class A	**414**	.70	38	.83	White Standard Advantage	A	Free	●	●	72%	$$
	(FL)	**2′x2′x3/4″**	Class A	**418**	.70	38/40	.83	White Standard Advantage	B, C, D	Free	●	●	72%	$$
	(FLB)	**2′x2′x3/4″**	Class A	**419**	.70	38/40	.83	White Standard Advantage	B, C, D	Free	●	●	72%	$$
FROST *CLIMAPLUS* High LR	(SLB)	**2′x2′x3/4″**	Class A	**490**	.70	35	.88	White	A	Free	●	●	72%	$$
	(FLB)	**2′x2′x3/4″**	Class A	**491**	.70	35	.88	White	B, C, D	Free	●	●	72%	$$

A	B	C	D
DONN® DX®/DXL™	CENTRICITEE™	FINELINE® 1/8	FINELINE®

Grid Profile Options

● *CLIMAPLUS* **Superior Performance: Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[6]**

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 4, Pattern E
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.55 lb./sq. ft.
Thermal resistance
R-1.7

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces. Item Nos. 418 and 419 achieve 40 CAC when installed with Fineline or Fineline 1/8 suspension system.
2. LR values are shown as averages.
3. See Colors selector for more information.
4. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).

5. For details, see the Sustainability selector.
6. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/ stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Frost™
ClimaPlus™

Fine-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests. • Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits

- Fine-textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Integral color masks nicks and scratches.
- Exceptional light reflectance.
- Excellent acoustical properties.
- *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG Donn® brand suspension system.
- Nearly two times more impact-resistant than typical fine-textured ceiling panels (ASTM C367).

Applications

- Boutiques
- Schools
- Conference and lobby areas
- Executive offices
- Open-plan offices

Substrate Cast mineral fiber

Glacier

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color[3]	Grid Options	VOC Class.[4]	Recycled Content[5]	Panel Cost
Glacier Panels	(SL)	2′x2′x3/4″	Class A	**707**	.65	35	.70	White Standard Advantage	A	Free	72%	$$
		2′x2′x3/4″	🔥	**715**	.65	35	.70	White	A	Free	70%	$$
		2′x4′x3/4″	Class A	**711**	.65	35	.70	White	A	Free	72%	$$
	(FL)	2′x2′x3/4″	Class A	**708**	.65	35	.70	White Standard Advantage	B, C, D	Free	72%	$$
Glacier Tile [,6, 7, 8]	(SESK)	12″x12″x3/4″	Class A	**701**	.65	25	.70	White	E	Free	72%	$$$$

A	B	C	D	E
Donn® DX®/DXL™	Centricitee™	Fineline® 1/8	Fineline®	Donn® DX®/DXL™ Concealed

Grid Profile Options

USG

USG

Glacier™

Heavily textured panel

Indoor Environmental Quality	• Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

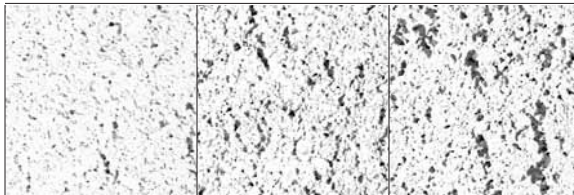|	
Features and Benefits	• Heavily textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
	• Combine 12″x12″ tile with the USG Donn® brand DX®/DXL™ concealed suspension system to create a monolithic ceiling surface.
	• Integral color masks nicks and scratches and enhances lifelong panel appearance.
	• Excellent color choices coordinate with Donn suspension systems to create multiple design options.
	• Optional Firecode™ formulation designed to meet life safety codes.
Applications	• Food courts
	• Hospitality
	• Libraries
	• Restaurants
Substrate	Cast mineral fiber

Halcyon
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2365

ClimaPlus™ NON-SAG WARRANTY

UL Classified

	Edge	Panel Size[1]	Class	Item No.	NRC		CAC Min.	LR[2]	Color	Grid Options	Recycled Content[3]	Panel Cost
HALCYON CLIMAPLUS Panels	(SQ)	2′x2′x3/4″	Class A	**97221**	.90	🔊	20	.88	White	A, B, C	27%	**$$**
		2′x4′x3/4″	Class A	**97241**	.90	🔊	20	.88	White	A, B	27%	**$$**
		2′x2′x1″	Class A	**98221**	.95	🔊	20	.88	White	A, B, C	27%	**$$**
		30″x30″x1″	Class A	**98331**	.95	🔊	20	.88	White	A, B, C	27%	**$$**
		2′x2′x1″	Class A, Foil-Back	**88221**	.90	🔊	30	.88	White	A, B, C	27%	**$$**
		2′x4′x1″	Class A	**98241**	.95	🔊	20	.88	White	A, B	27%	**$$**
		2′x4′x1″	Class A, Foil-Back	**88223**	.90	🔊	30	.88	White	A, B	27%	**$$**
		4′x8′x1″	Class A	**98481**	.95	🔊	20	.88	White	A, B	27%	**$$**
		2′x4′x1-1/2″	Class A	**99241**	1.00	🔊	25	.88	White	A, B	27%	**$$**
		2′x4′x1-1/2″	Class A, Foil-Back	**88224**	.95	🔊	30	.88	White	A, B	27%	**$$**
		4′x4′x1″	Class A	**98441**	.95	🔊	20	.88	White	A, B	27%	**$$**
		2′x2′x1-1/2″	Class A	**99221**	1.00	🔊	25	.88	White	A, B, C	27%	**$$**
	(SL)	2′x2′x1″	Class A	**98223**	.95	🔊	20	.88	White	D	27%	**$$**
		2′x2′x1″	Class A, Foil-Back	**88225**	.90	🔊	30	.88	White	D	27%	**$$**
		2′x4′x1″	Class A	**98243**	.95	🔊	20	.88	White	D	27%	**$$**
		30″x30″x1″	Class A	**98333**	.95	🔊	20	.88	White	D	27%	**$$**
		2′x4′x1″	Class A, Foil-Back	**88226**	.90	🔊	30	.88	White	D	27%	**$$**
		4′x4′x1″	Class A	**98443**	.95	🔊	20	.88	White	D	27%	**$$**
		2′x2′x1-1/2″	Class A	**99223**	1.00	🔊	25	.88	White	D	27%	**$$**
	(FL)	2′x2′x1″	Class A	**98225**	.95	🔊	20	.88	White	E, F, G	27%	**$$**
		2′x4′x1″	Class A	**98245**	.95	🔊	20	.88	White	E, F, G	27%	**$$**
		30″x30″x1″	Class A	**98335**	.95	🔊	20	.88	White	E, F, G	27%	**$$**
		2′x2′x1″	Class A, Foil-Back	**88227**	.90	🔊	30	.88	White	E, F, G	27%	**$$**
		4′x4′x1″	Class A	**98445**	.95	🔊	20	.88	White	E, F, G	27%	**$$**
		2′x2′x1-1/2″	Class A	**99225**	1.00	🔊	25	.88	White	E, F, G	27%	**$$**

A	B	C	D	E	F	G
DONN® DX®/DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE	FINELINE® 1/8	FINELINE®

Grid Profile Options

ASTM E1264 classification
Type XII, Form 2, Pattern G
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.38 lb./sq. ft. (3/4″ panels)
0.47 lb./sq. ft. (1″ panels)
0.68 lb./sq. ft. (1-1/2″ panels)
Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)
R-6.6 (1-1/2″ panels)

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Custom size panels available. Please contact your USG sales representative for details.
2. LR values are shown as averages.
3. For details, see the Sustainability selector.

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USG

![USG logo]

Halcyon™
ClimaPlus™

Fine-textured panel
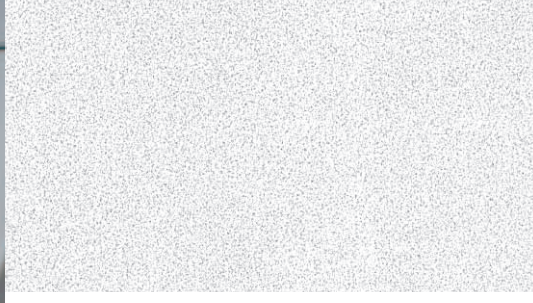
Features and Benefits	• Fine, monolithic texture. • Light reflectance of LR .88 is part of an "indirect lighting" solution. • Exceptional noise reduction with NRC values up to 1.00 to meet the demanding sound control needs of open-plan offices. • Low-maintenance panels look new for years to come. • *CLIMAPLUS*™ 15-year warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG DONN® brand suspension system. • Lightweight fiberglass basemat makes installation fast and easy.
Applications	• Offices with indirect lighting • Open-plan offices • Reception and lobby areas
Substrate	Fiberglass

Mars
ClimaPlus

Acoustical Ceilings

ClimaPlus Non-Sag Warranty

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
Mars ClimaPlus Panels	(SQ)	2′x2′x3/4″	Class A	**86185**	.70	35	.89	White	A, B, C	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	**88185**	.70	35	.89	White	A, B	Low	○	●	74%	$$
	(SLT)	2′x2′x3/4″	Class A	**86785**	.70	35	.89	White	D	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	**88785**	.70	35	.89	White	D	Low	○	●	74%	$$
	(FLB)	2′x2′x3/4″	Class A	**86985**	.70	35	.89	White	E, F, G	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	**88985**	.70	35	.89	White	E, F, G	Low	○	●	74%	$$

A	B	C	D	E	F	G
Donn® DX®/ DXL™	Donn® DXW™	Centricitee™	Donn DX/DXL	Centricitee	Fineline® 1/8	Fineline®

Grid Profile Options

○ *ClimaPlus* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[5]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern E, G
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
.96 lb./sq. ft.
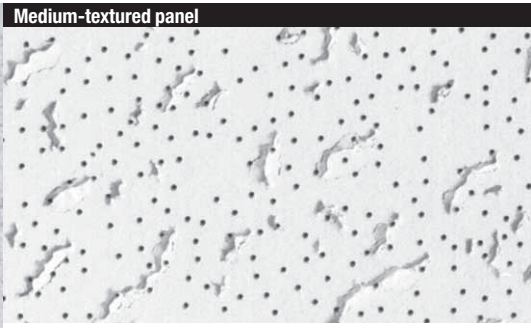**Thermal resistance**
R-2.2
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Scrubbability
Using the Gardner Scrubbability Test, 150 scrub cycles without surface break (ASTM D2486).
Surface scratch
No visual damage by a metal shim of up to 20 mils using a surface scratch test.
Edge damage resistance
Weight loss not to exceed 25-35% using the Friability Tests per ASTM C367. Panel edge should withstand compression of a 1/4″ blunt pin for at least 100 lbs. per square inch. Independently verified performance test results available upon request.

Water resistance
Absorption of 1,660 gm/m² per Cobb test (T 441 om-84)
Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).

4. For details, see the Sustainability selector.
5. Panel face and back surfaces treated with a patented, broad-spectrum anti-microbial standard formulation that inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/ stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
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USG

![USG logo]

Mars™
ClimaPlus™

CLIMAPLUS NON-SAG WARRANTY

Fine-textured panel

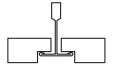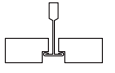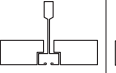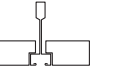| Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/ mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Fine, monolithic texture. • High light reflectance (LR .89). • Excellent noise reduction (NRC .70). • Durable, scratch-resistant, cleanable surface. • Low maintenance panels look like new for years to come. • *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 ˚F (40 ˚C)/ 95% relative humidity without visible sag when used with a USG Donn® brand suspension system.
Applications	• Corridors • Department stores • Executive offices • Offices with indirect lighting • Reception areas and lobbies • General office spaces
Substrate	X-Technology mineral fiber

Millennia
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1824

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
MILLENNIA CLIMAPLUS Panels	(SQ)	2′x2′x3/4″	Class A	76505	.70	35	.85	White	A, B, C	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	78505	.70	35	.85	White	A, B	Low	○	●	74%	$$
	(SLT)	2′x2′x3/4″	Class A	76705	.70	35	.85	White	D	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	78705	.70	35	.85	White	D	Low	○	●	74%	$$
	(FLB)	2′x2′x3/4″	Class A	76907	.70	35	.85	White	E, F, G	Low	○	●	74%	$$
		2′x4′x3/4″	Class A	76901	.70	35	.85	White	E, F, G	Low	○	●	74%	$$
MILLENNIA CLIMAPLUS Tile[5,6]	(BESK)	12″x12″x3/4″	Class A	70003	.60	40	.85	White	H	Low	○	●	74%	$$$$
MILLENNIA CLIMAPLUS Illusion Two/24 Panels The look of 2′x2′ panels	(SLT)[7]	2′x4′x3/4″	Class A	78780	.70	35	.85	White	D	Low	○	●	74%	$$
	(ILT)[8]	2′x4′x3/4″	Class A	78080	.70	35	.85	White	I	Low	○	●	74%	$$

Patterns

Illusion Two/24

RENDITIONS[9]

A DONN® DX®/DXL™	B DONN® DXW™	C CENTRICITEE™	D DONN DX/DXL	E CENTRICITEE	F FINELINE® 1/8	G FINELINE®	H DONN® DX®/DXL™ Concealed	I CENTRICITEE

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[10]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 1, Pattern E, G
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
1.04 lb./sq. ft. (panels and tile)
Thermal resistance
R-2.2

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Contact USG for adhesive recommendations for 12″x12″ glue-up applications.
6. Not UL Classified for acoustics.
7. Panels have a 15/16″ routing.
8. Panels have a 9/16″ routing.
9. See RENDITIONS Face-Routed Ceiling Panels (IC327) for more information.
10. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
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The following are trademarks of USG Interiors, Inc. or a related company: CENTRICITEE, CLIMAPLUS, DONN, DX, DXW, FINELINE, FIRECODE, MILLENNIA, RENDITIONS, USG.

USG

USG

Millennia™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Fine-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Market's fastest-installing fine-textured ceiling is an economical alternative to face-laminated panels. • NRC meets general office acoustical needs for sound absorption. • *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 ˚F (40 ˚C)/ 95% relative humidity without visible sag when used with a USG Donn® brand suspension system. • Panel used in Renditions™ face-routed ceiling systems (see IC327).
Applications	• Retail stores • Hospitality • Office and conference areas • Party rooms • Reception and lobby areas • Transportation terminals
Substrate	X-Technology mineral fiber

Millennia *ClimaPlus* High NRC

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1851

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
MILLENNIA CLIMAPLUS High NRC Panels	(SLT)	**2'x2'x3/4"**	Class A	**76201**	.75 🔊	30	.87	White	A	Low	○	●	74%	$$
	(FLB)	**2'x2'x3/4"**	Class A	**76302**	.75 🔊	30	.87	White	B, C, D	Low	○	●	74%	$$

A	B	C	D
DONN® DX®/ DXL™	CENTRICITEE™	FINELINE® 1/8	FINELINE®

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[5]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 1, Pattern E, G
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
1.04 lb./sq. ft.
Thermal resistance
R-2.2

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

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USG

USG

Millennia™ *ClimaPlus*™ High NRC

CLIMAPLUS™ NON-SAG WARRANTY

Fine-textured panel

Indoor Environmental Quality	• CLIMAPLUS™ ANTIMICROBIAL TREATMENT: PROVIDES DUAL INHIBITION OF MOLD/MILDEW AND ODOR/STAIN-CAUSING BACTERIA.
	• CLASSIFIED AS LOW-FORM ALDEHYDE ACCORDING TO STANDARDS ESTABLISHED BY CHPS, THE STATE OF WASHINGTON, ASHRAE, AND ANSI.

Features and Benefits

- Market's fastest-installing fine-textured ceiling is an economical alternative to face-laminated panels.
- NRC of .75 meets the demanding sound control needs of open-plan offices.
- CLIMAPLUS 30-year lifetime system warranty to withstand conditions up to 104 ˚F (40 ˚C)/95% relative humidity without visible sag when used with a USG DONN® brand suspension system.
- High NRC value without mechanical perforations.

Applications

- Libraries
- Open-plan offices
- Reception and lobby areas
- Legal
- Financial institutions

Substrate

X-Technology mineral fiber

Olympia Micro
ClimaPlus

Acoustical Ceilings

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[3]	Panel Cost
OLYMPIA MICRO *CLIMAPLUS* Panels	(SQ)	2′x2′x5/8″	Class A	**4211**	.50	30	.87	White	A, B, C	Low	○	●	54%	$$
		2′x4′x5/8″	Class A	**4411**	.50	30	.87	White	A, B	Low	○	●	54%	$$
	(SLT)	2′x2′x5/8″	Class A	**4221**	.50	35	.87	White	D	Low	○	●	54%	$$
		2′x4′x5/8″	Class A	**4421**	.50	35	.87	White	D	Low	○	●	54%	$$
	(FLB)	2′x2′x5/8″	Class A	**4231**	.50	35	.87	White	E, F, G	Low	○	●	54%	$$
		2′x4′x5/8″	Class A	**4431**	.50	35	.87	White	E, F, G	Low	○	●	54%	$$
OLYMPIA MICRO *CLIMAPLUS* Illusion Two/24 Panels The look of 2′x 2′ panels	(SLT)[4]	2′x4′x3/4″	Class A	**4742**	.50	35	.87	White	D	Low	○	●	54%	$$
	(ILT)[5]	2′x4′x3/4″	Class A	**4744**	.50	35	.87	White	E, H	Low	○	●	54%	$$

Illusion Two/24

Patterns
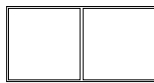
A	B	C	D	E	F	G	H
DONN® DX®/ DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE	FINELINE®	FINELINE® 1/8	CENTRICITEE

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[6]
● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CE
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
0.92 lb./sq. ft.

Thermal resistance
R-1.4 (5/8″ panels)
R-1.7 (3/4″ panels)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.
4. Panels have 15/16″ routing.
5. Panels have 9/16″ routing.

6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Olympia Micro™
ClimaPlus™

Fine-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Economical, fine-textured panel. • Excellent light reflectance enhances indirect lighting of a space. • *CLIMAPLUS* 15-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG Donn® brand suspension system.
Applications	• Classrooms • Hotels • Reception and lobby areas • Restaurants • Retail stores
Substrate	Water-felted mineral fiber
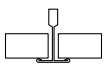
Orion 210
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1834

ⓊⓁ UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	Recycled Content[2]	Panel Cost
ORION 210 *CLIMAPLUS* Panels	(SQ)	**2′x2′x1/2″**	Class A	**62111**	.65	25	.76	White	A, B, C, D, E	81%	**$**
		2′x4′x1/2″	Class A	**64111**	.65	25	.76	White	A, B, D, E	81%	**$**

	A DONN® DX®/ DXL™	**B** DONN® DXW™	**C** CENTRICITEE™	**D** ZXLA™	**E** AX™
Grid Profile Options					

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern CE
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
0.58 lb./sq. ft.

Thermal resistance
R-1.6
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a damp sponge.

Patented technology
This product's unique combination of vinyl facings, sag resistance, and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnote
1. LR values are shown as averages.
2. For details, see the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

Orion™ 210
ClimaPlus™

Fine-textured panel
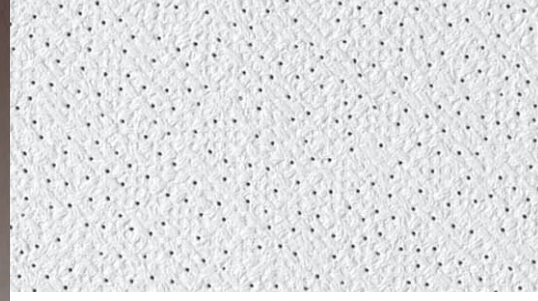
Features and Benefits

- Washable vinyl face for easy maintenance.
- Very good sound absorption (NRC .65) at mid-range price.
- Lightweight for quick installation.
- *CLIMAPLUS*™ 15-year system warranty to withstand conditions up to 90 °F (32 °C)/90% relative humidity without visible sag when used with a USG Donn® brand suspension system.

Applications

- Schools
- Convenience stores
- Corridors
- Discount stores
- Grocery stores
- Healthcare
- Retail stores

Substrate

X-Technology mineral fiber

Orion 270
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1835

CLIMAPLUS Non-Sag Warranty

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Recycled Content[3]	Panel Cost
ORION 270 CLIMAPLUS Panels	(SQ)	2'x2'x3/4"	Class A	**66171**	.80 🔊	25	.86	White	A, B, C	Low	81%	$$$
		2'x4'x3/4"	Class A	**68171**	.80 🔊	25	.86	White	A, B	Low	81%	$$$
	(SL)	2'x2'x3/4"	Class A	**66271**	.80 🔊	25	.86	White	D	Low	81%	$$$
	(FL)	2'x2'x3/4"	Class A	**66371**	.80 🔊	25	.86	White	E, F, G	Low	81%	$$$

A	B	C	D	E	F	G
DONN® DX®/DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE	FINELINE® 1/8	FINELINE®

Grid Profile Options

ASTM E1264 classification
Type IV, Form 1 or 2, Pattern G
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 25
Weight
0.86 lb./sq. ft. (SQ edge panel)
1.02 lb./sq. ft. (SL and FL edge panel)
Minimum AC
170 for item #66171.
180 for item #66271.

Thermal resistance
R-2.2
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Patented technology
This product's unique combination of sag resistance and sound performance results from a tech-nology covered by U.S. Patent No. 5,250,153.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc. or a related company: CENTRICITEE, *CLIMAPLUS*, DONN, DX, DXL, DXW, FINELINE, ORION, USG.

USG

USG

Orion™ 270
ClimaPlus™

Fine-textured panel

Indoor Environmental Quality
- Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits
- High-quality nubby cloth facing offers consistent, fine-textured appearance.
- Excellent noise reduction with superior NRC for effective sound control in office environments.
- *ClimaPlus*™ 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG Donn® brand suspension system.

Applications
- Auditoriums and gymnasiums
- Conference rooms
- Corridors
- Open-plan offices
- Reception and administrative areas

Substrate
X-Technology mineral fiber

Pebbled
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1836

ⓊⓁ UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[3]	Panel Cost
PEBBLED *CLIMAPLUS* Panels	(SQ)	2′x2′x5/8″	Class A	**4801**	.55	35	.86	White	A, B, C	Low	○	●	34%	$
		2′x4′x5/8″	Class A	**4800**	.55	35	.86	White	A, B	Low	○	●	34%	$
	(SLT)	2′x2′x5/8″	Class A	**4805**	.55	35	.86	White	D	Low	○	●	34%	$
	(FLB)	2′x2′x5/8″	Class A	**4867**	.55	35	.86	White	E, F, G	Low	○	●	34%	$

A DONN® DX®/ DXL™	B DONN DXW™	C CENTRICITEE™	D DONN DX/DXL	E CENTRICITEE	F FINELINE® 1/8	G FINELINE®

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.
● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CE
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
0.72 lb./sq. ft.

Thermal resistance
R-1.4
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

4. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Product Information
See usg.com for the most up-to-date product information.
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

The following are trademarks of USG Interiors, Inc. or a related company: CENTRICITEE, *CLIMAPLUS*, DONN, DX, DXL, DXW, FINELINE, PEBBLED, USG.

![USG logo]

Pebbled™
ClimaPlus™

Medium-textured panel
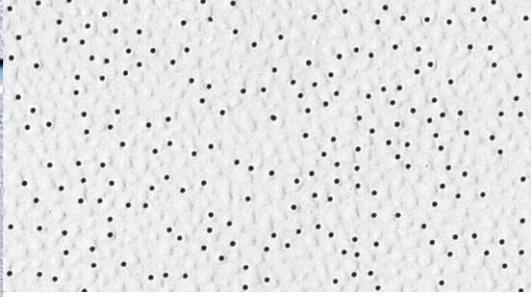
Indoor Environmental Quality

- *CLIMAPLUS*™ AntiMicrobial Treatmemt: Provides dual inhibition of mold/ mildew and odor/stain-causing bacteria.
- Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits

- Economical, medium-textured ceiling panel has upscale appearance.
- *CLIMAPLUS* 15-year lifetime system warranty to withstand conditions up to 104 °F (40°C)/ 90% relative humidity without visible sag when used with a USG DONN® brand suspension system.

Applications

- Schools
- Corridors
- General offices
- Retail stores

Substrate

Water-felted mineral fiber

Premier
Hi-Lite *ClimaPlus*

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1838

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color[2]	Grid Options	Recycled Content[3]	Panel Cost
PREMIER HI-LITE *CLIMAPLUS* Twill Panels	(SQ)	2′x2′x5/8″	Class A	**7050G** Perf.	.75	20	.76	White	A, B, C, D	26%	**$**
		2′x2′x5/8″	Class A	**7052G** Unperf.	.60	20	.76	White	A, B, C, D	26%	**$**
		2′x4′x5/8″	Class A	**7051G** Perf.	.75	20	.76	White	A, B, C, D	26%	**$**
		2′x4′x5/8″	Class A	**7053G** Unperf.	.60	20	.76	White	A, B, C, D	26%	**$**
PREMIER HI-LITE *CLIMAPLUS* Kapok Panels	(SQ)	2′x2′x5/8″	Class A	**7054G** Perf.	.75	20	.76	White and Black	A, B, C, D	26%	**$**
		2′x2′x5/8″	Class A	**7056G** Unperf.	.60	20	.76	White	A, B, C, D	26%	**$**
		2′x4′x5/8″	Class A	**7055G** Perf.	.75	20	.76	White and Black	A, B, C, D	26%	**$**
		2′x4′x5/8″	Class A	**7057G** Unperf.	.60	20	.76	White	A, B, C, D	26%	**$**

A DONN® DX®/ DXL™	**B** DONN® DXW™	**C** ZXLA™	**D** AX™

Grid Profile Options

ASTM E1264 classification
Type XII, Form 1, Pattern CE (Perforated), Pattern E (Unperforated)
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.143 lb./sq. ft.
Thermal resistance
R-2.7
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a damp sponge.

Footnotes
1. LR values are shown as averages.
2. See Colors selector for more information.
3. For details, see the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Premier Hi-Lite™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Medium-textured panel, Twill perforated and unperforated

Medium-textured panel, Kapok perforated and unperforated

Features and Benefits

- Washable vinyl face for easy maintenance.
- Excellent noise reduction with NRC of .60 or .75 for greater sound control in open-plan spaces.
- *CLIMAPLUS*™ 15-year system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG DONN® brand suspension system.
- Lightweight fiberglass basemat makes installation fast and easy.

Applications

- Discount stores
- Grocery stores
- Mass merchandisers
- Retail stores

Substrate

Fiberglass

Premier Nubby
ClimaPlus

Acoustical Ceilings

ClimaPlus™ NON-SAG WARRANTY

UL Classified

	Edge[1]	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	Recycled Content[2]	Panel Cost
PREMIER NUBBY CLIMAPLUS Panels	(SQ)	2′x2′x3/4″	Class A	**7000G**	.85 🔊	—	.87	White	A, B	29%	**$$$**
		2′x2′x1″	Class A	**7002G**	.90 🔊	—	.87	White	A, B	29%	**$$$**
		2′x2′x1″	Class A	**7012G** Foil-Back	.90 🔊	25	.87	White	A, B	29%	**$$$**
		2′x4′x1″	Class A	**7003G**	.90 🔊	—	.87	White	A, B	29%	**$$$**
		2′x4′x1″	Class A	**7013G** Foil-Back	.90 🔊	25	.87	White	A, B	29%	**$$$**

A DONN® DX®/DXL™	**B** DONN® DXW™

Grid Profile Options

ASTM E1264 classification
Type XII, Form 2, Pattern E
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50
Weight
0.38 lb./sq. ft. (3/4″ panels)
0.50 lb./sq. ft. (1″ panels)

Minimum AC
180 for item #7003G.
190 for item #7013G.
Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. LR values are shown as averages.
2. For details, see the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

USG

Premier Nubby™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Features and Benefits	• High-quality nubby cloth facing offers consistent, fine-textured appearance. • Excellent noise reduction with NRC of .85 or .90 meets the demanding sound control needs of open-plan spaces. • *CLIMAPLUS*™ 15-year system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a USG DONN® brand suspension system. • Lightweight fiberglass basemat makes installation fast and easy.
Applications	• Conference rooms and executive areas • Gymnasiums and auditoriums • Open office plans • Retail stores
Substrate	Fiberglass

Radar

Acoustical Ceilings

	Edge	Panel Size Imperial Metric (mm)[1]	Class[2]	Item No. Imperial Metric	NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Class.[4]	Recycled Content[5]	Panel Cost
RADAR Panels	(SQ)	2′x2′x5/8″ 600x600x15	Class A	2110 ME2110	.55	33	.85	White	A, B, C	Low	28%	$
		2′x2′x5/8″	🔥	2115	.55	35	.85	White	A	Low	48%	$
		2′x4′x5/8″ 600x1200x15	Class A	2310 ME2310	.55	35	.85	White	A, B	Low	28%	$
		2′x4′x5/8″	🔥	2315	.55	35	.85	White	A	Low	48%	$
		2′x4′x5/8″	Class A	2310P[6]	.55	35	.85	White	A, B	Low	28%	$
		2′x5′x5/8″	Class A	2619	.55	35	.85	White	A, B	Low	28%	$
		20″x60″x5/8″	Class A	2617	.55	35	.85	White	A, B	Low	28%	$
		2′x4′x3/4″	Class A	2311	.60	35	.85	White	A, B	Low	28%	$
		30″x60″x3/4″	Class A	2618	.60	35	.85	White	A, B	Low	28%	$
	(SLT)	2′x2′x5/8″ 600x600x15	Class A	2120 ME2120	.55	33	.85	White	D	Low	28%	$
		2′x2′x5/8″	🔥	2125	.55	35	.85	White	D	Low	48%	$
		2′x4′x5/8″	Class A	2320	.55	35	.85	White	D	Low	28%	$
		2′x2′x3/4″	Class A	2121	.60	35	.85	White	D	Low	28%	$
	(FLB)	2′x2′x5/8″	Class A	2130	.55	33	.85	White	E, F, G	Low	28%	$
RADAR Tile[7]	(BESK)	12″x12″x5/8″	Class A	2990	.50[8]	40[8] 🔊	.85	White	H	Low	28%	$$$
RADAR Illusion Two/24 Panel The look of 2′x2′ panels	(SLT)[3]	2′x4′x3/4″	Class A	2742	.55	35	.89	White	D	Low	28%	$$

Illusion Two/24

Pattern

A	B	C	D	E	F	G	H
DONN® DX®/DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE[9]	FINELINE® 1/8	FINELINE®	DONN® DX®/DXL™ Concealed

Grid Profile Options

ASTM E1264 classification
Type III, Form 2, Pattern C, D, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10

Imperial weight
.69-.81 lb./sq. ft. (Class A 5/8″ panels)
1.00 lb./sq. ft. (Class A 3/4″ panels)
1.10 lb./sq. ft. (Class A 5/8″ tile)
1.15 lb./sq. ft. (FIRECODE panels)

Metric weight
3.37-3.95 kg/m² (Class A 15 mm panels)

Thermal resistance
R-1.4 (Class A, 5/8″ panels and tile)
R-1.7 (Class A, 3/4″ panels)
R-1.4 (Class A,15 mm panels)
R-1.6 (FIRECODE, 5/8″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Metric available in White only.
2. Fire-rated items: see UL design details.
3. LR values are shown as averages.
4. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
5. For details, see the Sustainability Selector.
6. Includes plastic coating, Gardner-Scrubbability-tested to 3,000 cycles (ASTM D246).
7. Contact USG for adhesive recommendation for 12″x12″ glue-up applications.
8. Not UL Classified for sound.
9. Maximum 2′ x 2′ for square panels.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

USG

Radar™

Medium-textured panel

Indoor Environmental Quality
- Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits
- Non-directional pattern with a fresh, clean appearance offers fast, efficient installation.
- Economical, all-purpose ceiling pattern offered in many sizes.
- Optional FIRECODE™ formulation designed to meet life safety codes.

Applications
- Schools
- Corridors
- Offices
- Retail stores

Substrate
Water-felted mineral fiber

Radar
ClimaPlus

Acoustical Ceilings

CLIMAPLUS NON-SAG WARRANTY

	Edge	Panel Size Imperial Metric (mm)[1]	Class[2]	Item No. Imperial Metric	UL Classified NRC	CAC Min.	LR[3]	Color[4]	Grid Options	VOC Class.[5]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[6]	Panel Cost
RADAR CLIMAPLUS Panels	(SQ)	2'x2'x5/8"	Class A	2210	.55	33	.84	White Standard	A, B	Low	O	•	40%	$
		2'x2'x5/8" [fire]		2215	.55	35	.84	White	A	Low	O	•	48%	$
		2'x4'x5/8" 600x1200x15	Class A	2410 ME2410[1]	.55	35	.84	White Standard	A	Low	O	•	40%	$
		2'x4'x5/8" [fire]		2415	.55	35	.84	White Flat Black	A	Low	O	•	48%	$
	(SLT)	2'x2'x5/8" 600x600x15	Class A	2220 ME2220[1]	.55	33	.84	White Standard Flat Black not available	C	Low	O	•	40%	$
		2'x2'x5/8" [fire]		2225	.55	35	.84	White	C	Low	O	•	48%	$
		2'x4'x5/8"	Class A	2420	.55	35	.84	White	C	Low	O	•	40%	$
		2'x4'x5/8" [fire]		2425	.55	35	.84	White	C	Low	O	•	48%	$
	(FLB)	2'x2'x5/8"	Class A	2230	.55	33	.84	White	D, F, G	Low	O	•	40%	$
		2'x2'x5/8" [fire]		2235	.55	35	.84	White	D, F, G	Low	O	•	48%	$
RADAR CLIMAPLUS High-Durability Panels	(SQ)	2'x2'x5/8"	Class A	2207	.55	35	.84	White	A, B	Low	O	•	40%	$
		2'x4'x5/8"	Class A	2407	.55	35	.84	White	A, B	Low	O	•	40%	$
	(SLT)	2'x2'x5/8"	Class A	2227	.55	35	.84	White	C	Low	O	•	40%	$
RADAR CLIMAPLUS Tile	(SF)[7]	12"x12"x5/8"	Class A	2570	.45[8]	35	.84	White	Adhesive Staple	Low	O	•	40%	$$$

A DONN® DX®/ DXL™	B CENTRICITEE™	C DONN DX/DXL	D CENTRICITEE	E CENTRICITEE™ DXLT	F FINELINE® 1/8	G FINELINE®	H FINELINE® DXLF

Grid Profile Options

O *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[9]
• Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern C, D, E
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
0.69-0.81 lb./sq. ft. (Class A panels and tile)
1.15 lb./sq. ft. (FIRECODE panels)
Thermal resistance
R-1.4 (5/8" Class A panels and tile)
R-1.8 (FIRECODE panels)

Maximum backloading
See warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
High-Durability panels
ASTM D1037 – modified falling-ball impact test.
Footnotes
1. Metric available in White only.
2. Fire-rated items: see UL design details.
3. LR values are shown as averages.

4. See Colors selector for more information.
5. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
6. For details, see the Sustainability selector.

7. SF = staple flange.
8. Not UL Classified for acoustics.
9. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

USG

Radar™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Medium-textured panel

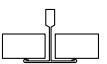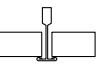|	
Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
RADAR *CLIMAPLUS* High-Durability Panels	• **55% more durable than standard ceiling panels.** • **20% more durable than competitive "school products."**
Features and Benefits	• Non-directional pattern offers fast, efficient installation. • Standard Colors available. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system. • Optional FIRECODE™ formulation designed to meet life safety codes.
Applications	• Schools • Corridors • Lobby areas • Offices • Retail stores
Substrate	Water-felted mineral fiber

Radar
ClimaPlus Illusion
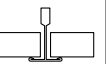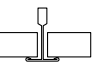
Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2126

UL Classified

Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR¹	Color²	Grid Options	VOC Class.³	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content⁴	Panel Cost
Radar *ClimaPlus* Illusion Two/24 Panels The look of 2′x2′ panels													
(SLT)⁵	2′x4′x3/4″	Class A	2842	.55	35	.89	White Standard Not available in Flat Black	A	Low	○	●	40%	$$
	2′x4′x3/4″		2846	.55	35	.89	White	A	Low	○	●	48%	$$
(ILT)⁶	2′x4′x3/4″	Class A	2844	.55	35	.89	White	B	Low	○	●	40%	$$
Radar *ClimaPlus* Illusion Four/48 Panels The look of 48″x6″ linear strips													
(SLT)⁶	2′x4′x3/4″	Class A	2882	.50	35	.89	White	A	Low	○	●	40%	$$
(ILT)⁶	2′x4′x3/4″	Class A	2884	.50	35	.89	White	B	Low	○	●	40%	$$
Radar *ClimaPlus* Illusion Eight/12 Panels The look of 12″x12″ tile													
(SLT)⁵	2′x4′x3/4″	Class A	2852	.55	35	.89	White	A	Low	○	●	40%	$$
(ILT)⁶	2′x4′x3/4″	Class A	2854	.55	35	.89	White	B	Low	○	●	40%	$$
Radar *ClimaPlus* Illusion Thirty-Two/6 Panels The look of 6″x6″ tile													
(SLT)⁵	2′x4′x3/4″	Class A	2862	.50	35	.89	White	A	Low	○	●	40%	$$
(ILT)⁶	2′x4′x3/4″	Class A	2864	.50	35	.89	White	B	Low	○	●	40%	$$

Patterns

Illusion Two/24 | Illusion Four/48 | Illusion Eight/12 | Illusion Thirty-Two/6

Grid Profile Options

A — Donn® DX®/DXL™
B — Centricitee™

Illusion Two/24 panel edges and center score painted for sharp, clean appearance.

○ *ClimaPlus* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.⁷

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CDEK
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
0.90-1.06 lb./sq. ft. (Class A)
1.41 lb./sq. ft. (Firecode)

Thermal resistance
R-1.7 (Class A)
R-1.9 (Firecode)
Maximum backloading
See warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. LR values are shown as averages.
2. See Colors selector for more information.
3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Panels have a 15/16″ routing.
6. Panels have a 9/16″ routing.
9. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc. or a related company: Centricitee, *ClimaPlus*, Donn, DX, DXL, Firecode, Radar, USG.

USG

Radar™
ClimaPlus™ Illusion

CLIMAPLUS™ NON-SAG WARRANTY

Medium-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Non-directional pattern offers fast, efficient installation. • Select items available in Standard colors. • Face scores create illusion of a smaller-scaled ceiling system. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system. • Optional FIRECODE™ formulation designed to meet life safety codes.
Applications	• Schools • Corridors • General offices • Retail stores
Substrate	Water-felted mineral fiber

Radar *ClimaPlus*
High CAC, High NRC

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2290

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class[1]	Item No.	NRC	CAC Min.	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
RADAR *CLIMAPLUS* High CAC Panel	(SQ)	2′x4′x5/8″	🔥	22310	.55	40 🔊	.84	White	A, C	Low	○	●	48%	$
RADAR *CLIMAPLUS* High NRC Panels	(SQ)	2′x2′x3/4″	🔥	22111	.70 🔊	35	.84	White	A, B, C	Low	○	●	48%	$
		2′x4′x3/4″	🔥	22311	.70 🔊	35	.84	White	A, C	Low	○	●	48%	$
	(SLT)	2′x2′x3/4″	🔥	22121	.70 🔊	35	.84	White	D	Low	○	●	48%	$
	(FLB)	2′x2′x3/4″	🔥	22127	.70 🔊	35	.84	White	E, F, G	Low	○	●	48%	$

A DONN® DX®/ DXL™	**B** CENTRICITEE™ DXLT	**C** DONN® DXW™	**D** DONN DX/DXL	**E** CENTRICITEE DXLT	**F** FINELINE® 1/8	**G** FINELINE®

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.[5]

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CDE
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
1.14 lb./sq. ft.

Thermal resistance
R-1.6 (High CAC panels)
R-1.9 (High NRC panels)
Maximum backloading
See Warranty for details.
Maintenance
Panels can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Fire-rated items: See UL design details.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
4. For details, see the Sustainability selector.

5. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc. or a related company: CENTRICITEE, *CLIMAPLUS*, DONN, DX, DXL, DXW, FINELINE, FIRECODE, RADAR, USG.

USG

USG

Radar™ *ClimaPlus*™
High CAC, High NRC

Medium-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatmemt: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Non-directional pattern offers fast, efficient installation. • Economical, all-purpose ceiling pattern in various sizes. • High CAC minimum of 40 increases room-to-room speech privacy. • High NRC .70 for greater sound control in open-plan areas. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without sag when used with a USG DONN® brand suspension system. • FIRECODE™ formulation designed to meet life safety codes.
Applications	• Conference rooms • Open office plans • Privacy rooms
Substrate	Water-felted mineral fiber

Radar
Ceramic *ClimaPlus*

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2293

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Recycled Content[3]	Panel Cost
RADAR Ceramic *CLIMAPLUS* Perforated Panels	(SQ)	2′x2′x5/8″	🔥	56644	.50	40 🔊	.82	White	A, B	Low	41%	$$
		2′x4′x5/8″	🔥	56645	.50	40 🔊	.82	White	A, B	Low	41%	$$

	A	**B**
	ZXLA™	AX™
Grid Profile Options		

ASTM E1264 classification
Perforated: Type XX, Pattern CEG
ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 0
Weight
1.61 lb./sq. ft.
Thermal resistance
R-1.3

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a damp sponge.
U.S. Coast Guard acceptance
Approved for use on merchant ships (No. 164,009/2120).

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Radar™ Ceramic
ClimaPlus™

USG

Medium-textured panel, perforated

Indoor Environmental Quality	• Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits

- 100% ceramic-bonded mineral fiber withstands high heat, high humidity, and corrosive chemical fumes.
- Successfully tested in live steam to withstand even the most severe applications such as saunas and steam rooms.
- Meets U.S. Coast Guard standards and can be used in high humidity marine applications.
- *CLIMAPLUS*™ 15-year system warranty to withstand conditions up to 104 °F (40 °C)/99% relative humidity without visible sag when used with a USG DONN® brand suspension system.
- FIRECODE™ formulation designed to meet life safety codes.

Applications

- Exterior soffits
- Parking garages
- Pools and shower areas
- Saunas and steam rooms

Substrate

Water-felted, ceramic-bonded mineral fiber

Rock Face
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
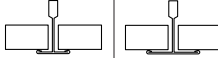Customer Service 800 950.3839
Literature Number SC1840

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[3]	Panel Cost
ROCK FACE CLIMAPLUS Panels	(SQ)	2′x2′x5/8″	🔥	56335	.55	35	.86	White	A, B, C	Low	◯	●	47%	$$
		2′x4′x5/8″	🔥	56380	.55	35	.86	White	A, B, C	Low	◯	●	47%	$$
	(SLT)	2′x2′x3/4″	🔥	55483	.55	35	.86	White	D, E, F	Low	◯	●	47%	$$

	A DONN® DX®/ DXL™	B DONN® DXLA™	C ZXLA™	D DONN DX/DXL	E DONN DXLA	F ZXLA
Grid Profile Options						

◯ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CE
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10
Weight
1.28 lb./sq. ft. (5/8″ panels)
1.48 lb./sq. ft. (3/4″ panels)
Thermal resistance
R-1.6 (5/8″ panels)
R-1.9 (3/4″ panels)

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Durability tests
ASTM C367: Tested to 220 lbf. for 1/4″ depression by a 2″ steel ball.
ASTM D1037: Tested to 45 lbf. for a 1/4″ depression by a Janka ball.
ASTM D5420: Tested to 3.5 in./lbf. for impaction.

Footnotes
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

4. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Rock Face®
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Medium-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Specially compounded textured surface with hard core. • Perfect for increased abuse resistance and sag resistance. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system. • FIRECODE™ formulation designed to meet life safety codes.
Applications	• Athletic areas and exercise rooms • Schools • Corridors • Dormitory rooms
Substrate	Water-felted mineral fiber

Sandrift
ClimaPlus

Acoustical Ceilings

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[1]	LR[2]	Color[3]	Grid Options	VOC Class.[4]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[5]	Panel Cost
SANDRIFT CLIMAPLUS Panels	(SL)	2'x2'x3/4"	Class A	**808**	.70	38	.83	White Advantage	A	Free	●	●	72%	$$$
	(FL)	2'x2'x3/4"	Class A	**809**	.70	38	.83	White Advantage	B, C, D	Free	●	●	72%	$$$

A DONN® DX®/ DXL™	**B** CENTRICITEE™	**C** FINELINE® 1/8	**D** FINELINE®

Grid Profile Options

● ***CLIMAPLUS* Superior Performance: Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[6]**

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

FIRECODE formulation
2'x2'x3/4" SL-edge panel with FIRECODE formulation is available without *CLIMAPLUS* performance. NRC=.55, CAC=35, recycled content = 70% (Item No. 815).
ASTM E1264 classification
Type III, Form 4, Pattern Z
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.55 lb./sq. ft. (Class A)

Thermal resistance
R-1.6 (Class A)
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. LR values are shown as averages.
3. To highlight the unique texture of SANDRIFT *CLIMAPLUS* panels, choose light colors. See Colors selector for more information.
4. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).

5. For details, see the Sustainability selector.
6. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

USG

Sandrift™
ClimaPlus™

Medium textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests.
	• Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.

Features and Benefits

- Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Integral color masks nicks and scratches.
- Extensive color selection provides multiple design options.
- Optional FIRECODE™ formulation designed to meet life safety codes.
- *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system.

Applications

- Conference and lobby areas
- Department stores
- Entertainment and gaming
- Executive offices
- Restaurants

Substrate

Cast mineral fiber

Sheetrock Lay-In Ceiling Panel *ClimaPlus*

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC1820

CLIMAPLUS™ NON-SAG WARRANTY

	Edge	Panel Size	Class	Item No.	NRC[1]	CAC Min.	LR[2]	Color	Grid Options	Recycled Content[3]	Panel Cost
SHEETROCK Lay-In Ceiling Panel *CLIMAPLUS*, Vinyl	(SQ)	2′x2′x1/2″	🔥	3260	—	35	.77	White	A, B, C, D,	23%	$
		2′x4′x1/2″	🔥	3270	—	40 🔊	.77	White	A, B, C, D,	23%	$
SHEETROCK Lay-In Ceiling Panel *CLIMAPLUS*, CLEAN ROOM[4]	(SQ)	2′x4′x1/2″	🔥	3200	—	40 🔊	.77	White	A, B, C, D,	23%	$$

	A DONN® DX®/DXL™	**B** DONN® DXLA™	**C** ZXLA™	**D** DONN® CE[5]
Grid Profile Options				

Vinyl-faced gypsum panels are suitable for commercial kitchens and meet USDA food safety inspection service requirements for food processing areas.

ASTM E1264 classification
Type XX, Pattern G
ASTM E84 surface burning characteristics
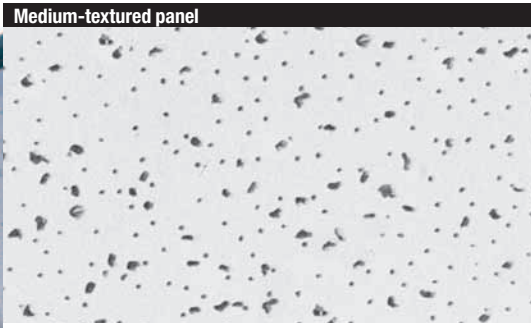Class A
Vinyl
Flame spread: 20
Smoke developed: 5
CLEAN ROOM
Flame spread: 20
Smoke developed: 5

Weight
1/2″ = 2.00 lb./sq. ft.
Thermal resistance
1/2″ = up to R-0.45
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a damp sponge. Use mild detergent and water – do not use acetate, ammonia or high concentration of chlorine, bromide or other harsh chemicals.

Humidity resistance
Tested by 48-hour cycles of 90% and 25% relative humidity repeated continuously for 24 days with no delamination.
U.S. Coast Guard acceptance
Approved for use on merchant ships.

Footnotes
1. NRC rating is .10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than .50
2. LR values are shown as averages.
3. For details, see the Sustainability selector.
4. Field-cut edges of CLEAN ROOM panels must be sealed with white latex paint, shellac, or a mixture of 50% water and 50% water-soluble glue.
5. Clean-room-rated applications require a suspension system with gasketed tee flanges such as DONN CE.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc. or a related company: CLEAN ROOM, *CLIMAPLUS*, DONN, DX, DXL, DXLA, FIRECODE, SHEETROCK, USG, ZXLA.

USG

Sheetrock®
Lay-In Ceiling Panel *ClimaPlus*™

Smooth-textured panel

Features and Benefits

- Panels meet U. S. Dept. of Agriculture Food Safety Inspection Service requirements for food processing areas.
- *CLIMAPLUS*™ 15-year system warranty to withstand temperature and humidity conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG Donn® brand suspension system.
- Sheetrock® brand Clean Room™ lay-in ceiling panels have a gypsum core, sealed edges, and a vinyl face and back; they meet USDA/FSIS requirements for food processing and can be used in clean room environments up to Class 100.
- Firecode™ formulation designed to meet life safety codes.

Applications

- Exterior protected soffits
- Parking garages
- Kitchens and food preparation areas
- Restrooms and utility areas
- Locker rooms
- Marine environments

Substrate

Gypsum panel

Summit
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2432

CLIMAPLUS NON-SAG WARRANTY

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC[1] Min.	LR[2]	Color	Grid Options	VOC Class.[3]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[4]	Panel Cost
SUMMIT CLIMAPLUS	(SLB)	**2′x2′x3/4″**	Class A	**990**	.70	38	.81	White	A	Free	●	●	56%	**$$**
	(FLB)	**2′x2′x3/4″**	Class A	**991**	.70	38/40	.81	White	B, C, D	Free	●	●	56%	**$$**

Grid Profile Options

A	B	C	D
DONN® DX®/ DXL™	CENTRICITEE™	FINELINE® 1/8	FINELINE®

● **CLIMAPLUS Superior Performance:** Features lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.[5]

• Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 4, Pattern E
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 15
Weight
1.75 lb./sq. ft.
Thermal resistance
R-1.6

Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.
Impact resistance
ASTM C367 – tested to 260 lbf. for 1/4″ depression by a 2″ steel ball.
ASTM D1037 – tested to 60 lbf. for 1/4″ depression by Janka ball.
ASTM D5420 – tested to 3.8 in./lbf. for impaction resistance.

Footnotes
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces. Item No. 991 achieves 40 CAC when installed with FINELINE or FINELINE 1/8 suspension system.
2. LR values are shown as averages.
3. Formaldehyde VOC Classification. Classified as formaldehyde-free according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).

4. For details, see the Sustainability selector.
5. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/ mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. Treated panels achieved a 10 rating, signifying "no mold growth", when tested and evaluated per ASTM D3273-00 and D3274-95). For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.
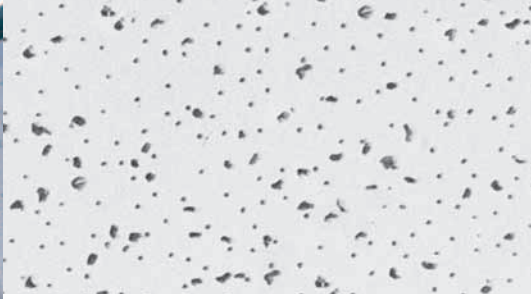
USG

USG

Summit™
ClimaPlus™

CLIMAPLUS™ NON-SAG WARRANTY

Fine-textured panel

| Indoor Environmental Quality | • *CLIMAPLUS*™ Superior Performance: Achieves "no growth" 10 rating per ASTM mold/mildew tests.
• Classified as formaldehyde-free according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI. |

| Features and Benefits | • Fine-textured cast product with an extremely durable, impact-resistant surface.
• Excellent combination of noise reduction (NRC) and sound attenuation (CAC).
• *CLIMAPLUS* 15-Year System Warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system. |

| Applications | • Schools
• Airports
• Convention centers
• Conference and lobby areas
• Hotels
• Corridors
• Healthcare
• Open and closed office plans |

| Substrate | Cast mineral fiber |

Touchstone
ClimaPlus

Acoustical Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number SC2214

CLIMAPLUS NON-SAG WARRANTY

Ⓤ UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[1]	Color	Grid Options	VOC Class.[2]	Anti-Mold & Mildew	Anti-Odor/ Stain Bacteria	Recycled Content[3]	Panel Cost
TOUCHSTONE *CLIMAPLUS* Panels	(SQ)	2'x2'x5/8"	◆	5893	.55	35	.86	White	A, B, C	Low	○	●	45%	$$
		2'x4'x5/8"	◆	5894	.55	35	.86	White	A, B	Low	○	●	45%	$$
	(SLT)	2'x2'x5/8"	◆	5896	.55	35	.86	White	D	Low	○	●	45%	$$
	(FLB)	2'x2'x5/8"	◆	5899	.55	35	.86	White	E, F, G, H, I	Low	○	●	45%	$$

A	B	C	D	E	F	G	H	I
DONN® DX®/ DXL™	DONN® DXW™	CENTRICITEE™	DONN DX/DXL	CENTRICITEE	CENTRICITEE™ DXLT	FINELINE® 1/8	FINELINE®	FINELINE® DXLF

Grid Profile Options

○ *CLIMAPLUS* AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria.

● Inhibits or retards the growth of Gram-positive and Gram-negative bacteria.

ASTM E1264 classification
Type III, Form 2, Pattern CEI
ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 10

Weight
1.33 lb./sq. ft.
Thermal resistance
R-1.6
Maximum backloading
See Warranty for details.
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnote
1. LR values are shown as averages.
2. Formaldehyde VOC Classification. Classified as low-formaldehyde according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), and the American National Standards Institute (ANSI).
3. For details, see the Sustainability selector.

4. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.
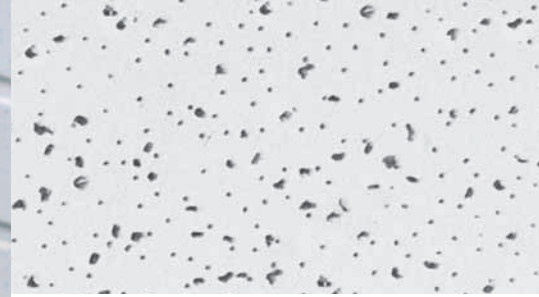
The following are trademarks of USG Interiors, Inc. or a related company: CENTRICITEE, *CLIMAPLUS*, DONN, DX, DXL, DXW, FINELINE, FIRECODE, TOUCHSTONE, USG.

USG

USG

Touchstone™ ClimaPlus™
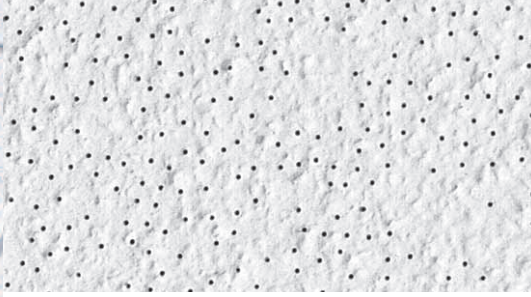
CLIMAPLUS™ NON-SAG WARRANTY

Medium-textured panel

Indoor Environmental Quality	• *CLIMAPLUS*™ AntiMicrobial Treatment: Provides dual inhibition of mold/mildew and odor/stain-causing bacteria. • Classified as low-formaldehyde according to standards established by CHPS, the State of Washington, ASHRAE, and ANSI.
Features and Benefits	• Panels are scuff- and abuse-resistant and can withstand day-to-day activity in high traffic areas. • *CLIMAPLUS* 15-year system warranty to withstand conditions up to 104 °F (40 °C)/90% relative humidity without visible sag when used with a USG DONN® brand suspension system. • FIRECODE™ formulation designed to meet life safety codes.
Applications	• Schools • General offices • Retail stores
Substrate	Water-felted mineral fiber
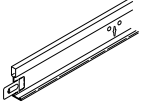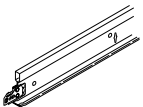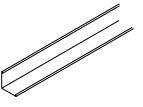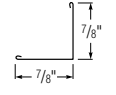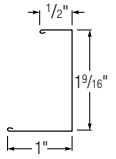
Select

Suspension Systems

Product Information

AX

Donn® Brand Suspension Systems
Aluminum Exposed
15/16″ Face

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3041

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones		Color	UL Classified–Rated Load[1,2]	
							UBC	IBC		3′ Hanger Spacing	4′ Hanger Spacing
15/16″ Tee System	Main Tee	Light Duty (strength equivalent to Intermediate Duty with 3′ hanger spacing)	12′	1-1/2″	AX26	Class A			Flat White	12.0 lbs./LF	6.9 lbs./LF
	Cross Tee		2′	1-1/2″	AX224	Class A			Flat White		
			4′	1-1/2″	AX424	Class A			Flat White		

		Length	Item No.	Color
Molding[3]	Wall Angle[4]	12′	M7A	Flat White
		10′	UA25	Flat White

Color
Contact your Customer Service representative for color requests.
Material
Double web aluminum tee with aluminum cap and stainless steel Quick-Release Clip.
Recycled content
90%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, extreme-humidity applications, this system is acceptable.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
This sytem meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.
Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. For detailing and module loading, request AC274QRC.
3. For more information on moldings, see Perimeter Interface selector.
4. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.
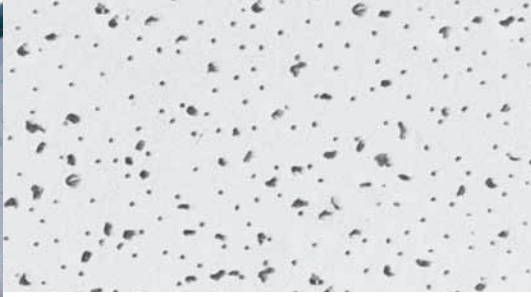
USG

LIFETIME LIMITED WARRANTY

Features and Benefits

- Non-corrosive aluminum 15/16″ exposed grid system ideal for high-humidity environments or wet-cleaned areas.
- Aluminum components can be used in non-magnetic environments and meet USDA/FSIS requirements.
- Patented Q<small>UICK</small>-R<small>ELEASE</small>™ cross tees are easy to remove without tools and help decrease renovation costs.
- Cross tees with override ends resist twisting and give a professionally finished look with no exposed edges.
- Available in Flat White.
- Lifetime limited warranty when used with USG ceiling panels ensures owner satisfaction.

Applications

- Food processing areas
- High-humidity areas
- Light-duty applications
- Magnetic-free zones
- MRI rooms

DONN Brand LOAD COMPLIANT

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

15/16″

CE

Donn® Brand Suspension Systems
Exposed 1-1/2″ (38 mm) Face,
Factory-Applied Gaskets

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3129

LIFETIME LIMITED WARRANTY
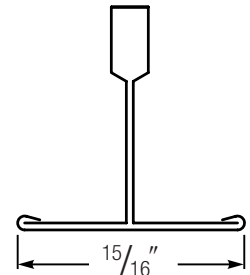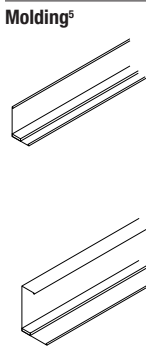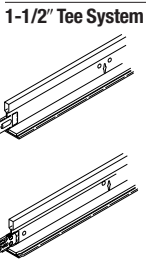
		ASTM Class	Length[2]	Height	Item No.	Class	Seismic Zones		Color	UL Classified–Rated Load[1,2,3,4]		
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
1-1/2″ Tee System	**Main Tee**	Heavy Duty	12′	1-1/2″	DXWCE26	Class A	0-4	A-F	High-Gloss White	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		2′	1-1/2″	DXWCE224	Class A	0-4	A-F	High-Gloss White	65.0 lbs./LF		
			4′	1-1/2″	DXWCE424	Class A	0-4	A-F	High-Gloss White	13.8 lbs./LF		

		Length	Item No.	Color
Molding[5]	**Wall Angle[6]**	12′	M12CE	High-Gloss White
		10′	US25CE	High-Gloss White

(Wall Angle M12CE dimensions: 1½″ height, 1″ base)

(US25CE dimensions: 1/2″, 1⁹/₁₆″, 1″)

Material
Double-web hot-dipped galvanized steel body and hot-dipped galvanized steel cap.
Recycled content
25%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated high-humidity applications, use aluminum or ZXLA™ suspension systems.
For exterior applications, suspen- sion should be reviewed by a structural engineer.
ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 5636 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc. have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.
ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifi-cations per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.
Testing
Particulate Test and Ceiling Integrity Tests per Federal Standard 209(e) are available from Technical Service.

Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. Do not use standard lay-in light fixtures with this system.
3. HEPA filters must be supported at all four corners of grid module.
4. For detailing and module loading, please request AC3128.
5. For more information on moldings, see Perimeter Interface selector.
6. Panels must be field-cut to size at the perimeter.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.
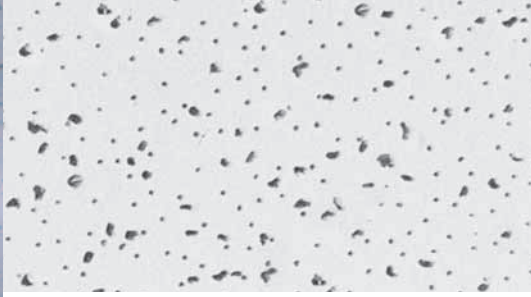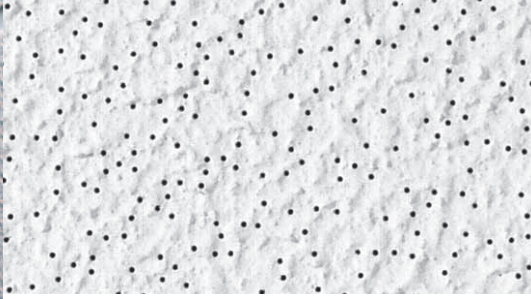
USG

LIFETIME
LIMITED
WARRANTY

Features and Benefits

- 1-1/2″ exposed, gasketed heavy-duty grid system. Designed for controlled-environment rooms that require a clean, particulate-free, sealed ceiling system.
- Hot-dipped galvanized body with enamel paint finish provides unequaled corrosion protection.
- Certified for Class 100 clean room environment per Federal Standard 209(e).
- Meets or exceeds all national code requirements, including seismic.
- Heavy-duty 1-1/2″ face grid supports clean room HEPA filters and lights.
- Factory-applied closed-cell foam gaskets eliminate labor-intensive field application.
- Patented stainless steel Quick-Release™ cross tees simplify installation and can be removed without tools.

Applications

- Controlled environments
- Hospitals
- Food processing areas
- Clean rooms to Class 100

LOAD COMPLIANT DONN Brand

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

1¹/₂″

Centricitee DXT/DXLT

DONN® Brand Suspension Systems
Narrow 9/16″ Face

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.[4]	Class	Seismic Zones		Color[5,6]	UL Classified–Rated Load[1,2,3]	
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing
9/16″ Tee System	Main Tee	Intermediate Duty	10′	1-1/2″	DXT24-10	Class A	0-4	A-C	Flat White	12 lbs./LF	6.6 lbs./LF
			12′	1-1/2″	DXT24	Class A	0-4	A-C	Flat White Standard Advantage	12 lbs./LF	6.6 lbs./LF
					DXLT24	🔥	0-4	A-C	Flat White		
		Heavy Duty	12′	1-1/2″	DXT26	Class A	0-4	A-F	Flat White	16 lbs./LF	7.3 lbs./LF
	Cross Tee 1-1/2″		2′	1-1/2″	DXT222	Class A	0-4	A-F	Flat White Standard Advantage		
					DXLT222	🔥	0-4	A-F	Flat White		
			4′	1-1/2″	DXT422	Class A	0-4	A-F	Flat White		
					DXT424	Class A	0-4	A-F	Flat White Standard Advantage		
					DXLT424	🔥	0-4	A-F	Flat White		

		Length	Item No.	Color	
Molding[7]	Wall Angle[8]	12′	M9	Flat White Standard Advantage	
	Shadowline[8]	12′	MS174	Flat White Standard Advantage	
		10′	MS274 2″ shelf for seismic	Flat White	

Wall Angle dimensions: 15/16″, 9/16″

Shadowline dimensions: 1″, 3/8″, 9/16″, 3/8″

MS274 dimensions: 7/8″, 9/32″, 1 1/4″, 3/4″

Color
Available in a variety of colors to match our USG ceiling panels; see Colors selector.

Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content
25%. For details see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, extreme-humidity applications, use all-aluminum AX™ or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision and possible cancellation.

L.A. Research Report Compliance
DONN brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Air diffusers
Request AC272-290.

Footnotes
1. Hanger wire spacing and locations must be per the UL design.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC2308QRC.

4. For metric products, add "ME" to the product number.
5. Color options are for Class A imperial products.
6. Tees also available in custom colors.
7. For more information on moldings, see the Perimeter Interface selector.
8. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Centricitee™
DXT/DXLT

LIFETIME
LIMITED
WARRANTY

Features and Benefits	• Narrow-faced 9/16″ exposed grid offers subtle appearance.

- Narrow-faced 9/16″ exposed grid offers subtle appearance.
- Patented panel-centering device allows use of standard square edge panels.
- Cross tees with override ends resist twisting and ensure a finished look with no exposed steel edges.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 2 hours. Design flexibility helps meet life safety codes.
- Patented Quick-Release™ cross tees are easy to remove without tools and help decrease renovation costs.
- Optional integrated air diffuser provides clean HVAC interface.
- Excellent color selection coordinates with USG ceiling panels.
- Lifetime limited warranty when used with USG ceiling panels.
- Hot-dipped galvanized steel body inhibits red rust.

Applications
- Interior general-use areas.
- Fire-rated interior general-use areas.

LOAD COMPLIANCE **DONN Brand**
- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

9/16″
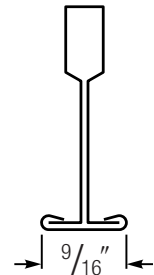
DX/DXL

Donn® Brand Suspension Systems
Exposed 15/16″ Face
Can Be Used in Fire-Rated and
Non Fire-Rated Applications.

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3167

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.	Class[3]	Seismic Zones[1]		Color[4]	UL Classified–Rated Load[2]		
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing[5]
15/16″ Tee System	**Main Tee**	Intermediate Duty	12′	1-1/2″	DX/ DXL24[6,7]	🔥	0-4	A-C	Flat White Standard Advantage	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	12′	1.64″	DX/ DXL26[6,7]	🔥	0-4	A-F	Flat White	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1″		2′	1″	DX/ DXL216[7]	🔥	0-4	A-F	Flat White Standard Advantage			
	Cross Tee 1-1/2″		4′	1-1/2″	DX/ DXL424[7]	🔥	0-4	A-F	Flat White Standard Advantage			
					DX422[8]	Class A	0-4	A-F	Flat White Standard Advantage			
			5′	1-1/2″	DX/ DXL524[7]	🔥	0-4	A-F	Flat White Standard			

		Length	Item No.	Color
Molding[9]	**Wall Angle[10,11]**	12′	M7[7]	Flat White Standard Advantage
	7/8″ × 7/8″	10′	M20	Flat White Custom
	1″ × 2″	10′	M20SM-2	Flat White
	2″ × 2″			
	Shadowline[10]	10′	MS274 2″ shelf for seismic	Flat White Custom
	7/8″, 9/32″, 1 1/4″, 3/4″			

Color
Available to match USG ceiling panels; see Colors selector.
Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.
Recycled content
25 percent. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA or standard industry practices, within all applicable code requirements. See UL Fire Resistance Directory for rated assembly details.

Limitations
Severe Environmental Requirements: Panels in exposed grids in non-fire-rated, high-humidity applications: use all-aluminum AX™ or ZXLA™ painted HDG suspension systems with aluminum cap. Panels in exposed grids in fire-rated, high-humidity applications: use ZXLA suspension systems. For all exterior applications, suspension should be reviewed by a structural engineer.
ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use. All reports are subject to re-examination, revision and possible cancellation.

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.
ASTM C635 Standard for Load Compliance
System meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories. See UL load label on carton.
Footnotes
1. All DX/DXL main-tee and cross-tee connections meet IBC requirements for tension and compression strength.

2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit of L/360. For detailing and module loading, request AC269QRC.
3. UL fire-rated listing, labeling and follow-up applies only to fire-rated components.
4. DX color program for imperial only. Consult Customer Service for colors of metric tees.
5. Non-fire-rated only.
6. Cross-tee hole punch spacings also available for 20″ and 30″ modules.
7. Available in metric; add "ME" to Item No. Consult Customer Service for colors of metric tees.
8. DX cross tees available in additional sizes and lengths. Non-fire-rated applications may mix DX and DXL parts.

9. For moldings information, see Perimeter Interface selector.
10. Panels must be specified to be field-cut, field-revealed and to provide widest possible lay-on edge.
11. For DXL, channel moldings are also acceptable in some designs. Check UL Fire Resistance Directory for molding options.
Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

The following are trademarks of USG Interiors, Inc., or a related company: AX, CLIMAPLUS, DONN, DX, DXL, ECLIPSE, QUICK-RELEASE, USG, ZXLA.

USG

LIFETIME LIMITED WARRANTY

Features and Benefits	• 15/16″ exposed tee system. Components for use in general and fire-rated applications. • Maximum economy and design simplicity. • DXL system features more than 80 UL designs (up to 3 hours). • Cross tees with override ends resist twisting and give a professionally finished look with no exposed steel edges. • Meets or exceeds all national code requirements, including seismic. • Patented Quick-Release™ cross tees are easy to remove without tools and help decrease renovation costs. • Extensive color selection coordinates with USG ceiling panels. • Lifetime limited warranty when used with USG ceiling panels ensures owner peace of mind. • Hot-dipped galvanized steel body inhibits red rust.
Applications	• Fire-rated, interior general use areas
DONN® Brand LOAD COMPLIANT	• System meets or exceeds UL load compliance specifications per ASTM C635. • Load certified and labeled through UL inspection.
Profile	
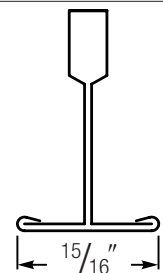
15/16″

DX/DXL Concealed

Donn® Brand Suspension Systems
Concealed 15/16″ Face

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3035

LIFETIME LIMITED WARRANTY
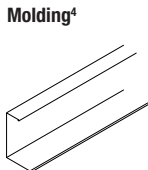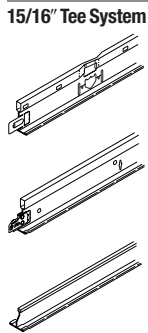
		ASTM Class[1]	Length[2]	Height	Item No.[3]	Class	Seismic Zones		Color[4]	UL Classified–Rated Load[1,2]		
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
15/16″ Tee System	Main Tee	Intermediate Duty	12′	1-1/2″	DX/DXL24	🔥	0-4	A-C	Flat White	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	12′	1.64″	DX/DXL26	🔥	0-4	A-F	Flat White	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		4′	1-1/2″	DX/DXL424	🔥	0-4	A-F	Flat White			
	Tee Spline 1″		4′	1″	DT416	Class A						
					DE416	Class A						

		Length	Item No.	Color
Molding[4]	Wall Angle	10′	US25	Flat White

Wall Angle dimensions: 1/2″ wide, 1 9/16″ high, 1″ deep

Material
Fire-rated, double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.
Recycled content
25%. For details see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use all-aluminum AX™ or ZXLA™ painted HDG with aluminum cap suspension systems. For exterior appli-cations, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifi-cations per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.
Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. For detailing and module loading, please request AC273QRC.
3. Some products are available in metric. Call Customer Service for details.
4. For more information on moldings and complete section detail, see the Perimeter Interface selector.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

The following are trademarks of USG Interiors, Inc., or a related company: AX, Donn, DXL, Eclipse, Firecode, USG, ZXLA.

DX®/DXL™
Concealed

LIFETIME LIMITED WARRANTY

Features and Benefits	• Supporting grid is completely concealed, providing a monolithic, uninterrupted ceiling plane with up to 50% access to the plenum. • Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 3 hours. Design flexibility helps meet life safety codes. • Lifetime limited warranty when used with USG ceiling panels ensures owner satisfaction. • Hot-dipped galvanized steel body inhibits red rust.
Applications	• Interior general use areas • Fire-rated, interior general use areas • Retail stores
LOAD COMPLIANT DONN Brand	• System meets or exceeds UL load compliance specifications per ASTM C635.
Profile	$^{15}/_{16}"$

DXLA

**DONN® Brand Suspension Systems
Exposed 15/16″ Face Fire-Rated
With Aluminum Cap**

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.[4]	Class	Seismic Zones		Color	UL Classified–Rated Load[1,2,3]	
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing
15/16″ Tee System	Main Tee	Intermediate Duty	12′	1-1/2″	DXLA24	🔥	0-4	A-C	Flat White / Silver Satin / Custom	12 lbs./LF	6.1 lbs./LF
		Heavy Duty	12′	1-1/2″	DXLA26	🔥	0-4	A-F	Flat White / Custom	16 lbs./LF	7.3 lbs./LF
	Cross Tee 1″		2′	1″	DXLA216	🔥	0-4	A-F	Flat White / Silver Satin / Custom		
	Cross Tee 1-1/2″		4′	1-1/2″	DXLA424	🔥	0-4	A-F	Flat White / Silver Satin / Custom		

		Length	Item No.	Color
Molding[5,6]	Wall Angle for DXLA[7]	10′	MC11A25	Flat White
		12′	M7Z	Flat White / Silver Satin / Custom
	Non-Rated Wall Angle	12′	M7A	Flat White

Color
Contact your Customer Service representative for color requests.
Material
Fire-rated, double-web, hot-dipped galvanized steel body and aluminum cap.
Recycled content
25%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For panels in exposed grids in fire-rated and/or high-humidity applications, use ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

**ICBO Evaluation
Report Compliance**
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision and possible cancellation.
**L.A. Research
Report Compliance**
DONN brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.
**ASTM C635 Standard
for Load Compliance**
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Hanger wire spacing and locations must be per the UL design.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC269QRC.
4. Some products are available in metric. Call Customer Service for details.
5. Channel moldings also acceptable in some UL designs.
6. For more information on moldings, see Perimeter Interface selector.
7. Panels must be field-cut to size at the perimeter. For Shadowline detail, field-cut edge must be at least as wide as the factory cut.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

LIFETIME
LIMITED
WARRANTY

Features and Benefits

- 15/16″ exposed, fire-rated, hot-dipped galvanized steel body with aluminum cap inhibits red rust.
- Maximum economy and design simplicity with UL designs (up to 2 hours).
- Suitable for use in food processing areas and meets USDA/FSIS requirements.
- Cross tees with override ends resist twisting and give a professionally finished look with no exposed steel edges.
- Meets or exceeds all national code requirements, including seismic.
- Patented QUICK-RELEASE™ cross tees are easy to remove without tools and help decrease renovation costs.
- Available in Flat White and Silver Satin.
- Lifetime limited warranty when used with USG ceiling panels provides peace of mind.

Applications

- Fire-rated; food processing areas.

LOAD
DONN Brand
COMPLIANT

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

15/16″

DXSS

Donn® Brand Suspension Systems
Type 316 Stainless Steel
Exposed 15/16″ Face

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3068

LIFETIME LIMITED WARRANTY
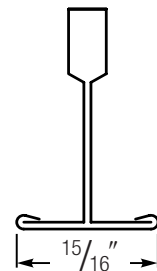
		ASTM Class	Length	Height	Item No.	Class	Seismic Zones		Color	UL Classified Minimum Load-Carrying Capabilities—Main Tee[1]
							UBC	IBC		4′ Hanger Spacing
15/16″ Tee System	Main Tee 1-1/2″[2]	Light Duty	12′	1-1/2″	DXSS24	Class A			Natural	5.0 lbs./LF
	Cross Tee 1-1/2″		2′	1-1/2″	DXSS224	Class A			Natural	
			4′	1-1/2″	DXSS424	Class A			Natural	

		Length	Item No.	Color
Molding	Wall Angle[3]	12′	M7SS	Natural

7/8″
7/8″

Color
Stainless steel finish.
Material
Double-web-type 316 stainless steel body and cap. This cap material is protected by PVC, which should be removed after installation.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices
Limitations
Conforms to ASTM C635 for severe environmental performance. Consult a chemist/metallurgist for specific applications and use of this product.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 5636 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. Cross-tee hole-punch spacings available for 24″ and 48″ modules.
3. Where needed, perimeter panels are field-cut to fit.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

LIFETIME LIMITED WARRANTY

Features and Benefits

- 15/16" Type 316 stainless steel grid system.
- Resistant to direct and indirect contact with many corrosive agents. Superior to Type 304.
- Stainless steel Quick-Release™ clips on cross tee ends provide plug-in, positive-lock insertion for quick installation and easy removal without tools.
- Non-magnetic.
- Cross tees with override ends resist twisting and give a professionally finished appearance.
- Meets USDA/FSIS requirements.
- Cap material is protected with removable PVC coating, reducing post-construction cleaning.
- Lifetime limited warranty.

Applications

- Food processing areas
- Industrial applications
- Laboratories
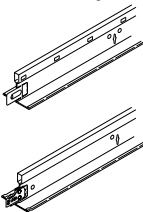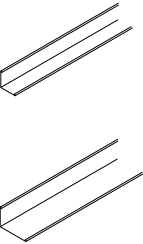
LOAD DONN Brand COMPLIANCE

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

$^{15}/_{16}$"

DXW

Donn® Brand Suspension Systems
Exposed 1-1/2″ Face

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3037

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones		Color	UL Classified–Rated Load [1,2]		
							UBC	IBC		4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
1-1/2″ Tee System	Main Tee	Heavy Duty	12′	1-1/2″	DXW26	Class A	0-4	A-F	Flat White Custom	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		2′	1-1/2″	DXW224	Class A	0-4	A-F	Flat White Custom	65.0 lbs./LF		
			4′	1-1/2″	DXW424	Class A	0-4	A-F	Flat White Custom	13.8 lbs./LF		

		Length	Item No.	Color
Molding[3]	Wall Angle[4]	12′	M7	Flat White Custom
		12′	M12	Flat White Custom
		10′	M20	Flat White Custom

Wall angle M7 dimensions: 7/8″ × 7/8″
Wall angle M12 dimensions: 1″ × 1 1/2″
Wall angle M20 dimensions: 1″ × 2″

Color
Contact your Customer Service representative for color requests.
Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.
Recycled content
25%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use aluminum or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 5636 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.
Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. For detailing and module loading, request AC3002QRC.
3. For more information on moldings, see Perimeter Interface selector.
4. Panels must be field-cut to size at the perimeter.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

LIFETIME LIMITED WARRANTY

Features and Benefits	• 1-1/2″ exposed grid system. Design alternative for high-bay areas and large panel modules.
	• Cross tees with override ends resist twisting and give a professionally finished look with no exposed steel edges.
	• Meets or exceeds all national code requirements, including seismic. Design flexibility helps meet life safety codes.
	• Patented Quick-Release™ cross tees are easy to remove without tools and help decrease renovation costs.
	• Lifetime limited warranty when used with USG ceiling panels ensures owner satisfaction.
	• Hot-dipped galvanized steel body inhibits red rust.
Applications	• Interior general use areas
	• High-bay areas
	• Large-module ceilings
DONN Brand LOAD COMPLIANT	• System meets or exceeds UL load compliance specifications per ASTM C635.
Profile	

1 1/2″
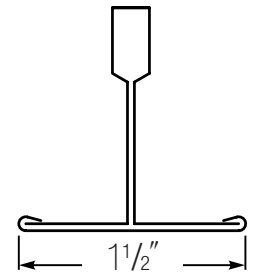
Fineline DXF/DXLF

Donn® Brand Suspension Systems
Narrow 9/16″ Face
with 1/4″ Reveal

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3034

LIFETIME LIMITED WARRANTY
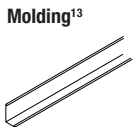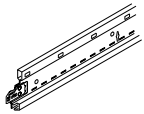
		ASTM Class	Length	Height	Item No.[4]	Class	UBC	IBC	Color[5]	4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
9/16″ Tee System	**Main Tee [6,7]**	Intermediate Duty	10′	1-25/32″	DXF2924-10	Class A	0-4	A-C	Flat White	12 lbs./LF	6.6 lbs./LF	3.6 lbs./LF
					DXF2930[8]				Flat White			
		Intermediate Duty	12′	1-25/32″	DXF2924	Class A	0-4	A-C	Flat White / Silver Satin	12 lbs./LF	6.6 lbs./LF	3.6 lbs./LF
					DXF2948[9]				Flat White			
					DXLF2924	🔥	0-4	A-C	Flat White			
		Heavy Duty	12′	1-25/32″	DXFH2924	Class A	0-4	A-F	Flat White	16 lbs./LF	8.3 lbs./LF	4.9 lbs./LF
	Cross Tee[10]		2′	1-25/32″	DXF229	Class A	0-4	A-F	Flat White / Silver Satin			
					DXLF229	🔥	0-4	A-F	Flat White			
			4′	1-25/32″	DXF429	Class A	0-4	A-F	Flat White			
			4′	1-25/32″	DXF429N[11]	Class A	0-4	A-F	Flat White / Silver Satin			
					DXF429S[12]				Flat White			
					DXLF429N[11]	🔥	0-4	A-F	Flat White			
			5′	1-25/32″	DXF529N[11]	Class A	0-4	A-F	Flat White			

		Length	Item No.	Color			Length	Item No.	Color
Molding[13]	**Wall Angle[14]**	12′	M7	Flat White / Custom	**Molding**	**Shadowline[14]**	12′	MS174	Flat White / Silver Satin
		12′	M9	Flat White / Silver Satin			10′	MS274 (2″ shelf for seismic)	Flat White

Color
Contact your Customer Service representative for color requests.

Material
Double-web hot-dipped galvanized steel tee.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use AX™ or ZXLA™ painted suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Air diffusers
Request AC272-290.

Footnotes
1. Hanger wire spacing and locations must be per the UL design.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading request AC3003QRC.
4. Some products are available in metric. Call Customer Service for details.
5. Tees also available in custom colors.
6. Standard main tee is notched 24″ o.c. but has cross-tee holes 12″ o.c.
7. Cross-tee hole spacings available for 24″, 30″, and 48″ modules except DXLF.
8. Notched 30″ o.c.
9. Notched 48″ o.c.
10. Cross tees also available in 1′ and 30″ lengths.
11. N = Notch at midpoint.
12. Midpoint notch on one side only to accommodate light fixtures.
13. For more information about moldings, see Perimeter Interface selector.
14. Panels must be field-cut to size at the perimeter.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc., or a related company: AX, CELEBRATION, CLIMAPLUS, DONN, ECLIPSE, FINELINE, QUICK-RELEASE, USG, ZXLA.

Fineline® DXF/DXLF

Features and Benefits

- Narrow-profile, slotted grid system with 1/4″ reveal provides streamlined appearance.
- 1/4″ slot accommodates partition attachments and pendant-mounted light fixtures.
- Mitered intersections offer a clean, tailored appearance.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 1 hour.
- Optional air diffuser provides clean, uninterrupted ceiling plane.
- Accepts Celebration™ metal ceiling panels for ceiling area accents without changing grid system.
- Hot-dipped galvanized steel body inhibits red rust.

Applications

- All interior general use areas
- Fire-rated, interior general use areas

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

$^1/_4''$

$^9/_{16}''$
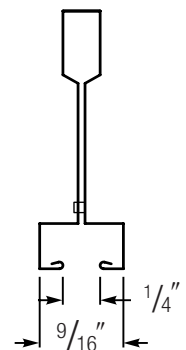
Fineline 1/8 DXFF

Donn® Brand Suspension Systems
Narrow 9/16″ Face
with 1/8″ Reveal

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3033

LIFETIME LIMITED WARRANTY

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	IBC	Color	UL Classified–Rated Load[1,2,3] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
9-16″ Tee System	Main Tee[2]	Intermediate Duty	10′	1-25/32″	DXFF2930[4]	Class A	0-4	A-C	Flat White Custom	12 lbs./LF	6.5 lbs./LF	3.6 lbs./LF
			12′	1-25/32″	DXFF2924 DXFF2948[5]	Class A	0-4	A-C	Flat White Custom	12 lbs./LF	6.5 lbs./LF	3.6 lbs./LF
		Heavy Duty	12′	1-25/32″	DXFFH2924	Class A	0-4	A-F	Flat White Custom	16 lbs./LF	8.3 lbs./LF	4.9 lbs./LF
	Cross Tee[6]		2′	1-25/32″	DXFF229	Class A	0-4	A-F	Flat White Custom			
			4′	1-25/32″	DXFF429 DXFF429N[7] DXFF429S[8]	Class A	0-4	A-F	Flat White Custom			

		Length	Item No.	Color
Molding[9]	Wall Angle[10]	12′	M9	Flat White Custom
	Shadowline[10]	12′	MS174	Flat White Custom

Color
Contact your Customer Service representative for color requests.
Material
Double-web hot-dipped galvanized steel tee.
Recycled content
25%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use AX™ or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.
ASTM C635 Standard for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Air diffusers
Request AC272-290.
Footnotes
1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
2. Cross-tee notches available in 24″, 30″, and 48″ modules. Standard is 24″ o.c.
3. For detailing and module loading request AC3011.
4. Notched 30″ o.c.
5. Notched 48″ o.c.
6. Cross tees also available in 30″, 1′, and 5′ lengths.
7. N = Notch at midpoint.
8. Midpoint notch on one side only to accommodate light fixtures.
9. For more information on moldings, see Perimeter Interface selector.
10. Panels must be field-cut to size at the perimeter.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc., or a related company: AX, ClimaPlus, Donn, Eclipse, Fineline, Quick-Release, USG, ZXLA.

Fineline® 1/8 DXFF

LIFETIME LIMITED WARRANTY

Features and Benefits

- Narrow-profile, slotted grid system with 1/8″ reveal provides a streamlined appearance.
- Mitered intersections offer a clean, tailored appearance.
- Optional air diffuser provides clean, uninterrupted ceiling plane.
- Lifetime limited warranty when used with USG ceiling panels ensures owner satisfaction.
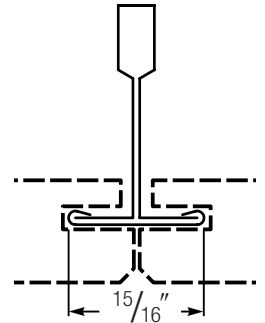- Hot-dipped galvanized steel body inhibits red rust.

Applications

- All interior general use areas

DONN Brand LOAD COMPLIANCE

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

$1/8″$

$9/16″$

ZXLA

LIFETIME LIMITED WARRANTY
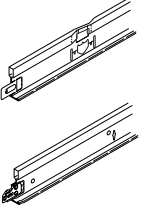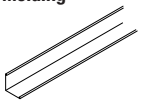
		ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	IBC	Color	UL Classified–Rated Load [1,2,3] 4' Hanger Spacing	5' Hanger Spacing	6' Hanger Spacing
15/16″ Tee System	**Main Tee**	Intermediate Duty[2]	12′	1-1/2″	ZXLA24	🔥	0-4	A-C	Flat White Custom	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	12′	1-1/2″	ZXLA26	🔥	0-4	A-F	Flat White Custom	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″ (38 mm)		2′	1-1/2″	ZXLA224	🔥	0-4	A-F	Flat White Custom			
			4′	1-1/2″	ZXLA424	🔥	0-4	A-F	Flat White Custom			

		Length	Item No.	Color
Molding[4]	**Wall Angle[5]**	12′	M7Z	Flat White Custom

7/8″ × 7/8″

Color
Contact your Customer Service representative for color requests.
Material
Double-web, hot-dipped galvanized, painted steel tee with painted aluminum cap.
Recycled content
25%. For details, see the Sustainability selector.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements: For exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation
Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 2244 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.
L.A. Research
Report Compliance
DONN brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.
ASTM C635 Standard
for Load Compliance
This system meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Hanger wire spacing and locations must be per the UL design.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading request AC274QRC.
4. For more information on moldings, see Perimeter Interface selector.
5. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

LIFETIME LIMITED WARRANTY

Features and Benefits

- 15/16″ exposed, hot-dipped galvanized grid system with aluminum cap, ideal for use in extreme environments.
- Polyester paint finish and stainless steel clip provides unequaled corrosion protection.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 2 hours. Design flexibility helps meet life safety codes.
- Aluminum-capped grid system, suitable for use in food processing areas, meets USDA/FSIS requirements.
- Patented QUICK-RELEASE™ cross tees are easy to remove without tools and help decrease renovation costs.
- Intermediate- and heavy-duty assemblies provide design flexibility.
- Lifetime limited warranty when used with USG ceiling panels ensures owner satisfaction.

Applications

- Exterior soffits
- Fire-rated service environments
- Industrial applications

LOAD COMPLIANCE DONN Brand

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profile

$^{15}/_{16}$″
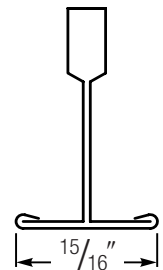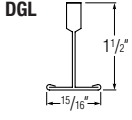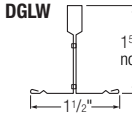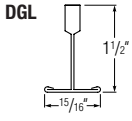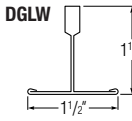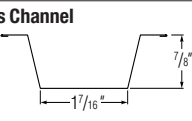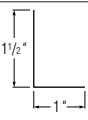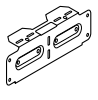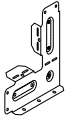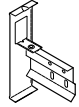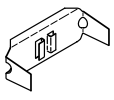
USG Drywall Suspension System

Suspension Systems
For Flat Drywall Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3117

LIFETIME LIMITED WARRANTY

			ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	IBC	UL Classified–Rated Load[1,2,3] 4′ Hanger Spacing
System Components	Straight Main Tees	DGL	Heavy Duty	12′	1-1/2″	DGL26		0-4	A-F	16.0 lbs./LF
		DGLW	Heavy Duty	12′	1.617″	DGLW26[4]		0-4	A-F	16.0 lbs./LF
	Cross Tees	DGL	—	2′	1-1/2″	DGL224		0-4	A-F	—
			—	4′	1-1/2″	DGL424		0-4	A-F	—
			—	8′	1-1/2″	DG824	Class A	0-4	A-F	—
		DGLW	—	2′	1-1/2″	DGLW224		0-4	A-F	—
			—	26″	1-1/2″	DGLW2624[4]		0-4	A-F	—
			—	4′	1-1/2″	DGLW424		0-4	A-F	—
			—	50″	1-1/2″	DGLW50[4]		0-4	A-F	—
	Cross Channel		—	4′	7/8″	DGCL4		0-4	A-F	7.4 lbs./LF
	Moldings		—	12′	1-1/2″	DGWM24	—	0-4	A-F	—
			—	12′	1-9/16″	DGCM27	—	0-4	A-F	—

Accessories

DGSC180 Splice Clip	DGTC90 Transition Clip	DGC4, DGC6, DGC8 Compässo™ Drywall Clip	DGWC Wall Attachment Clip	DGSP180 Splice Plate

Finishes
Galvanized.
Material
Double-web tee, hot-dipped, galvanized steel.
Recycled content
25%.
Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

ICBO Evaluation Report Compliance
See ICBO Evaluation Service, Inc., Evaluation Report No. 1994 for allowable values and/or conditions of use concerning material presented in this document, as it is subject to re-examination, revision, and possible cancellation.

Footnotes
1. Hanger wire spacing and locations must be per the UL design.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC3152.
4. DGLW26 main tees and DGLW2624 and DGLW50 cross tees feature special punching and cross-tee lengths to accommodate Type F light fixtures.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

The following are trademarks of USG Interiors, Inc., or a related company: Compässo, Donn, Sheetrock, USG.

USG Drywall Suspension System

**LIFETIME
LIMITED
WARRANTY**

**Features and
Benefits**

- Drywall suspension system simplifies the design and construction of flat drywall ceilings.
- Pre-engineered flat suspension eliminates labor-intensive superstructure.
- Pre-engineered components allow easy transitions in ceiling elevations and between ceiling types.
- Hot-dipped galvanized system suitable for interior and exterior applications.
- 30 UL fire-rated designs with design flexibility to meet life safety codes.
- Accepts Type F and Type G light fixtures.
- 30-year lifetime limited warranty on suspension system when used with SHEETROCK® brand gypsum panels ensures owner satisfaction.

Applications

- Exterior soffits
- Fire-rated, interior general use areas
- All interior general use areas

**DONN Brand
LOAD COMPLIANT**

- System meets or exceeds UL load compliance specifications per ASTM C635.

Profiles

15/16″   1 1/2″
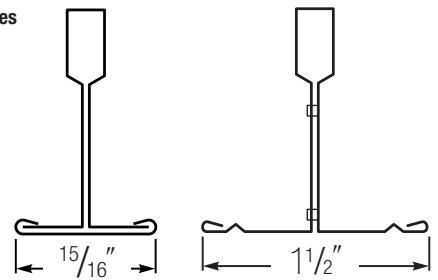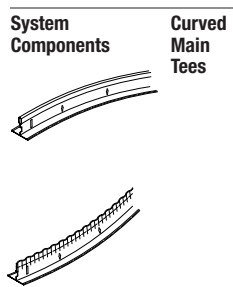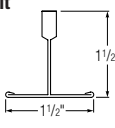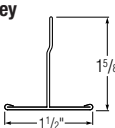
USG Drywall Suspension System

Suspension Systems
For Curved Drywall Ceilings

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC3118

(UL) UL Classified–Rated Load[1]
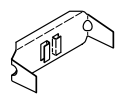
			ASTM Class per C635	Radius	Arc Length	Height	Item No.[2]	Class	2′ Hanger Spacing	4′ Hanger Spacing
System Components	**Curved Main Tees**	**Vault**	16 lbs.[3]	31″-44″	6′	1-1/2″	**DGW6VTxxx**	Class A		16.0 lbs./LF
			16 lbs.[3]	45″-60″	8′	1-1/2″	**DGW8VTxxx**	Class A		16.0 lbs./LF
			16 lbs.[3]	61″-72″	10′	1-1/2″	**DGW10VTxxx**	Class A		16.0 lbs./LF
			16 lbs.[3]	73″-91″	10′	1-1/2″	**DGW10VTxxx**	Class A		16.0 lbs./LF
			16 lbs.[3]	92″-239″	10′	1-1/2″	**DGW10VTxxx**	Class A		16.0 lbs./LF
			16 lbs.[3]	240″+	12′	1-1/2″	**DGW12VTxxx**	Class A		16.0 lbs./LF
		Valley	16 lbs.[3,4]	31″-44″	6′	1-5/8″	**DGW6VYxxx**	Class A	16.0 lbs./LF	
			16 lbs.[3,4]	45″-60″	8′	1-5/8″	**DGW8VYxxx**	Class A	16.0 lbs./LF	
			16 lbs.[3,4]	61″-72″	10′	1-5/8″	**DGW10VYxxx**	Class A	16.0 lbs./LF	
			16 lbs.[3,4]	73″-91″	10′	1-5/8″	**DGW10VYxxx**	Class A	16.0 lbs./LF	
			16 lbs.[3,4]	92″-239″	10′	1-5/8″	**DGW10VYxxx**	Class A	16.0 lbs./LF	

Cross Tees See Flat Ceilings (AC3117) for information on straight cross tees, cross channel, and moldings.

Accessories

DGSC180 Splice Clip	DGTC90 Transition Clip	DGC4, DGC6, DGC8 COMPÄSSO™ Drywall Clip	DGWC Wall Attachment Clip	DGSP180 Splice Plate

DGHUB Dome Hub	

Finishes
Galvanized.
Material
Double-web tee, hot-dipped galvanized steel.
Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.
Limitations
Severe Environmental Requirements. For exterior applications, suspension systems should be reviewed by an engineer.

Footnotes
1. For detailing and module loading, request AC3152.
2. "xxx" is a placeholder for a custom radius, in inches.
3. As tested per independent testing agency, both vault and valley main tees can carry 16 pounds per lineal foot.
4. As tested per independent testing agency, valleys require hanger wire spacing of 2′ o.c.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/ or installation.

The following are trademarks of USG Interiors, Inc., or a related company: COMPÄSSO, DONN, SHEETROCK, USG.

USG

USG Drywall Suspension System

Features and Benefits

- Drywall suspension system simplifies the design and construction of curved drywall ceilings.
- Pre-engineered curves ensure correct installation.
- Pre-engineered, custom components allow easy changes in ceiling elevations and transitions between ceiling types.
- Hot-dipped galvanized system suitable for interior and exterior applications.
- 30-year lifetime limited warranty on suspension system when used with SHEETROCK® brand gypsum panels ensures owner satisfaction.

Applications

- General use areas
- Domes
- Vaults

- System meets or exceeds UL load compliance specifications per ASTM C635.
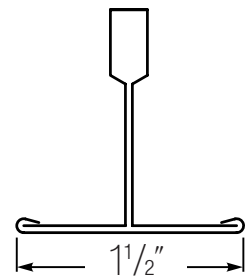
Profile

$1^1/_2''$

Suspension Systems Accessories

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC2396A

USG

Page 1 of 10

1. M7 and M9 available in color. For colors other than Flat White and Flat Black, packaging is 240 LF per carton.
2. MS154 and MS174 available in color. Packaging remains 300 LF per carton. With colors, only the exposed horizontal leg is painted the special color.

Moldings	Angle Molding	Angle Molding w/Gasket M12CE	Shadow Molding
	Use for standard ceiling perimeters.	Use in clean room applications with DONN® brand CE suspension system.	Useful for creating reveals at ceiling perimeters. Also helps to hide imperfections in drywall partitions and bulkheads.

Length x A x B x C x D
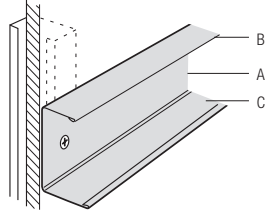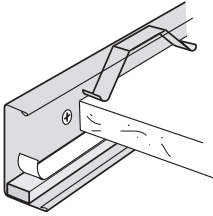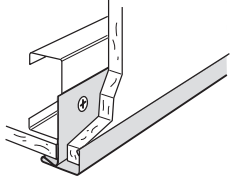
	Catalog Number	Description	Packaging/Ctn.		
			LF	Pcs.	Wt. (lbs.)
Angle Molding	M7[1]	12′ x 7/8″ x 7/8″ Wall Molding	480	40	63
	M7A	12′ x 7/8″ x 7/8″ Aluminum Wall Molding	480	40	26
	M7-10	10′ x 7/8″ x 7/8″ Wall Molding	400	40	26
	M7SS	12′ x 7/8″ x 7/8″ Stainless Steel Wall Molding	240	20	31
	M7Z	12′ x 7/8″ x 7/8″ Hot-Dipped Galvanized Steel Wall Molding	480	40	58
	M9[1]	12′ x 9/16″ x 15/16″ Wall Molding	480	40	55
	M9-10	10′ x 9/16″ x 15/16″ Wall Molding	400	40	23
	M12	10′ x 1″ x 1 1/2″ Wall Molding	250	25	63
	MC11A25	10′ x 1″ x 1″ Aluminum Cap Wall Molding	250	25	39
	M12CE	12′ x 1″ x 1 1/2″ Wall Molding w/ Gaskets High Gloss White	240	48	59
	M20	10′ x 1″ x 2″ Wall Molding	250	25	55
	M20HD	10′ x 1″ x 2″ Wall Molding (Heavy-Duty)	250	25	95
	M20SM	10′ x 1″ x 2″ Wall Molding (Seismic Molding)	250	25	80
Shadow Molding	MS124	12′ x 15/16″ x 1/4″ x 5/16″ x 15/16″ Shadow Molding	300	25	46
	MS134	12′ x 9/16″ x 1/4″ x 5/16″ x 3/4″ Shadow Molding	300	25	37
	MS144	12′ x 3/4″ x 3/8″ x 1/2″ x 3/4″ Shadow Molding	300	25	48
	MS154[2]	12′ x 7/8″ x 3/4″ x 3/4″ x 7/8″ Shadow Molding	300	25	67
	MS164	12′ x 3/4″ x 3/4″ x 3/4″ x 3/4″ Shadow Molding	300	25	62
	MS174[2]	12′ x 1″ x 3/8″ x 3/8″ x 9/16″ Shadow Molding	300	25	43
	MS274	10′ x 7/8″ x 3/4″ x 9/32″ x 1-1/4″ Seismic Shadow Molding	200	20	54

USG

Suspension Systems
Accessories

Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839
Literature Number AC2396A
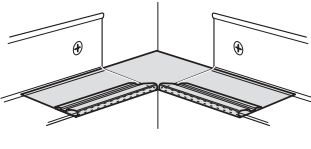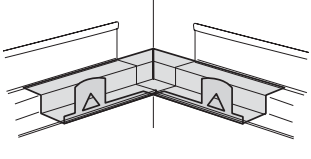
Page 2 of 10

Moldings	US Channel Wall Molding	US Channel Wall Molding w/Gasket US25CE	F-Molding
	Use with C-8 clip to hold down perimeter ceiling tiles.	Use with C-8 clip in clean room application with DONN CE suspension system.	Use F-Molding to create ceiling "breaks," soffits; changes in elevation.

Length x A x B x C

	Catalog Number	Description	Packaging/Ctn.		
			LF	Pcs.	Wt. (lbs.)
US Channel Wall Molding	US12	10′ x 3/4″ x 1/2″ x 1″ U-Molding	500	50	44
	US20	10′ x 1-1/4″ x 1/2″ x 1″ U-Molding	300	30	57
	US25	10′ x 1-9/16″ x 1/2″ x 1″ U-Molding	300	30	63
	US31	10′ 1-15/16″ x 1/2″ x 1″ U-Molding	300	30	70
	UA25	10′ x 1-9/16″ x 1/2″ x 1″ Aluminum Wall U-Molding	300	30	33
	US25CE	10′ x 1-9/16″ x 1/2″ x 1″ U-Molding w/ Gaskets, High-Gloss White	300	30	63
F-Molding	MF8	10′ x 1/2″ F-Molding (For 1/2″ panels)	100	10	28
	MF10	10′ x 5/8″ F-Molding (For 5/8″ panels)	100	10	29

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Molding Accessories

Square Molding Corner Clip JS	Outside Corner JS174	Radius Molding Corner Clip JH, JB
Use with angle molding.	Use with MS174 shadow molding.	Use for radius or "bullnose" corners.

Field-Modified Corner JM16	Inside Corner Angle Mold A2	Prefabricated Shadowline Corners
Cut clip to fit field condition.	Use with angle molding.	

	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	**Wt. (lbs.)**
Flat Corners	JS9	Square 90° Outside Corner Cap for 9/16″ Molding	100	3
	JS14	Square 90° Outside Corner Cap for 7/8″ Molding	100	3
	JS16	Square 90° Outside Corner Cap for 1″ Molding	100	3
	JS174	Square 90° Outside Corner Cap for MS174 Shadow Molding	50	1.5
	JH9	1″ Radius 90° Outside Corner Cap for 9/16″ Molding	100	3
	JH12	1″ Radius 90° Outside Corner Cap for 3/4″ Molding	100	3
	JH14	1″ Radius 90° Outside Corner Cap for 7/8″ Molding	100	3
	JH15	1″ Radius 90° Outside Corner Cap for 15/16″ Molding	100	3
	JH16	1″ Radius 90° Outside Corner Cap for 1″ Molding	100	3
	JB14	3/4″ Radius 90° Outside Corner Cap for 7/8″ Molding	100	3
	JB16	3/4″ Radius 90° Outside Corner Cap for 1″ Molding	100	3
	JM16	Field-modified Corner for 1″ Molding	100	3
	A2	Inside Corner Cap for 7/8″ Molding	200	4
Shadowline Corners	A174	Inside Corner Cap for MS174 Shadow Molding	50	1.5
	MS274-I	Inside Corner Cap for MS274 Shadow Molding	10	1
	MS271-O	Outside Corrner Cap for MS274 Shadow Molding	10	1
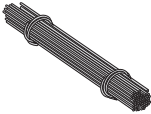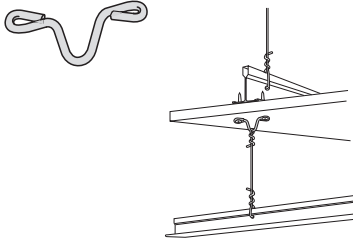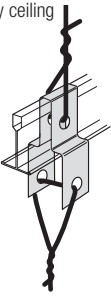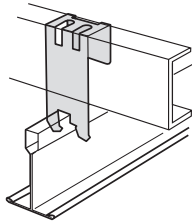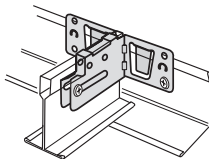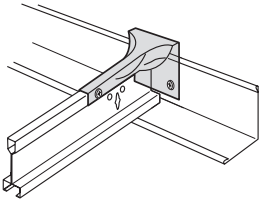
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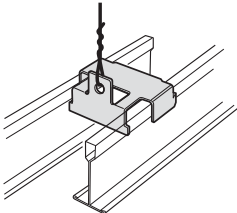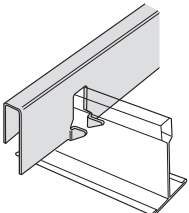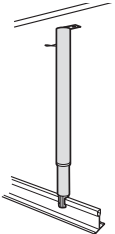
Notes
For special lengths, contact your Customer Service representative. Hanger wire complies with Federal Specification QA-W-461H.

Grid Installation Accessories

Galvanized Hanger Wire A	**Drywall Grid Hanger Clip** B	**Grid Load Transfer Bracket** C
Use to suspend acoustical ceilings. Also use for flat and curved USG drywall suspension system.	Use to suspend secondary ceiling.	Use to suspend secondary ceiling

Furring Clip for Grid to Channel D	**Seismic Attachment Clip for DX to Wall Angle** E	**Molding Attachment Clip** F
Use to connect grid to 1-1/2″ channel.	Use to attach grid at perimeter to avoid the use of pop rivets.	

	Catalog Number	Description	Packaging/Ctn.		Detail Key
			Pcs.	Wt. (lbs.)	
Galvanized Hanger Wire Consult Customer Service for available lengths in your area.	215109	12-Gauge Wrapped 12 ft.; 50 lb. bundle	140	50	A
	217128	12-Gauge Wrapped 12 ft.; 36 lb. bundle	100	36	A
	217268	12-Gauge Wrapped 16 ft.	100	48	A
Grid to Primary Support	DGHC	Drywall Grid Hanger Clip	100	1.5	B
	256860	Grid Load Transfer Bracket, 15/16″ grid	250	13	C
	256861	Grid Load Transfer Bracket, 9/16″ grid	250	13	C
	256862	Grid Load Transfer Bracket, 1-1/2″ grid	250	13	C
	V14	Furring Clip for Grid to Channel	500	45	D
Grid to Molding	ACM7	Seismic Attachment Clip for DX to Wall Angle	100	7	E
	MAC2	Molding Attachment Clip	100	3	F

Suspension Systems Accessories

Grid Installation Accessories	**MT/CT Converter** G	**3-Way Off-Module Connector** H	**4-Way Off-Module Connector** I
	Converter changes main-tee direction 90° from adjacent main tee.	Use with cross tees and main tees that are the same height.	Use with cross tees and main tees that are the same height.

	Paired Main-Tee Clip J	**Stabilizer Bar** K	**Seismic Compression Post** L
	Use for linear air diffusers; use only with DX®/DXL™, DXLA™, ZXLA™, FINELINE® (DXF), FINELINE® 1/8 (DXFF), and CENTRICITEE™ (DXT/DXLT).	Use to stabilize grid installation without cross tees.	See Compression Post Technical Data Sheet #AC275. Listed with ICBO Report #2244.
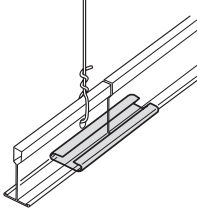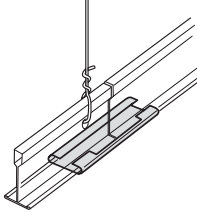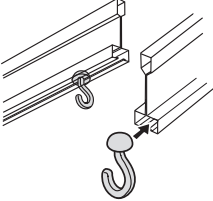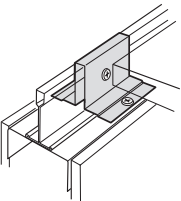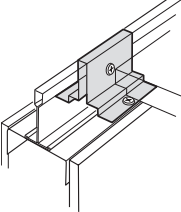
	Catalog Number	Description	Packaging/Ctn.			Detail Key
			LF	Pcs.	Wt. (lbs.)	
Tee-to-Tee	DXMT/CT	9″ x 1-1/2″ MT/CT Converter, changes MT direction		75	13	G
	DH3	3-Way Off-Module Connector		100	3	H
	DH4	4-Way Off-Module Connector		100	4	I
	V-32	Paired Main-Tee Clip (2″ separation center to center)		100	3	JI
Stabilizer Bars	SB12	18″ Stabilizer Bar	200	200	27	K
	SB24	2′ Stabilizer Bar	400	200	52	K
	SB36	3′ Stabilizer Bar	300	100	40	K
	SB48	4′ Stabilizer Bar	400	100	50	K
	SB48-24	4′ Stabilizer Bar notched 2′ on center	400	100	50	K
	SB60	5′ Stabilizer Bar	500	100	64	K
	CC15-4-2	4′ Stabilizer Bar notched 2′ on center	200	50	27	K
Seismic Compression Posts	VSA18/30	Adjustable 18″ to 30″		1	2.0	L
	VSA30/48	Adjustable 30″ to 48″		1	2.5	L
	VSA48/84	Adjustable 48″ to 84″		1	4.5	L
	VSA84/102	Adjustable 84″ to 102″		1	7.5	L

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Grid Installation Accessories

Tee Face Sleeve	Tee Face Cover	Accessory Hanger Hook
M	N	O
Use to cut in tees to existing system.	Use to cut in tees and to cover damage from partition attachment.	Remove top clip for use with standard 1/4″ FINELINE® suspension system.

Partition Attachment Clip	Partition Attachment Clip
P1	P2
Use for square-edge panels.	Use with reveal-edge panels.
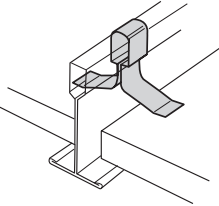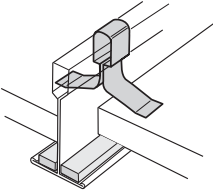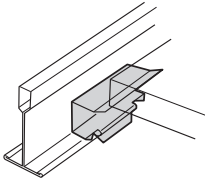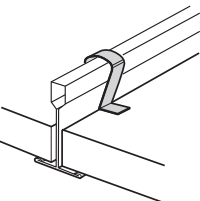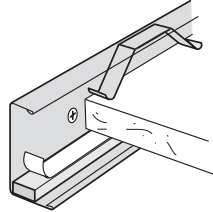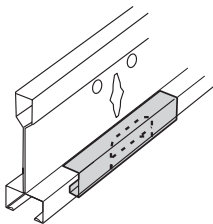
	Catalog Number	Description	Packaging/Ctn.		Detail Key
			Pcs.	Wt. (lbs.)	
Tee Accessories	TFS-1	Tee Face Sleeve (3″ long)	250	10	M
	TFC-1	Tee Face Cover (2″ long)	100	1	N
	AH1	Accessory Hanger Hook (white injection molded)	50	1	O
Partition Attachment	PAC15-SQ	Partition Clip for 15/16″ or 9/16″ SQ panels (245339)	100	8	P1
	PAC15-SL	Partition Clip for 15/16″ SL panels (254340)	100	8	P2
	PAC 9-FL	Partition Clip for 9/16″ FL panels (254341)	100	8	P2

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Grid Installation Accessories

Hold-Down Clip—Fire-Rated Grid Q1	**Hold-Down Clip** Q2	**Accessible Hold-Down Clip** R
Used when required in some fire-rated assemblies.	Use to maintain a cleanroom seal with DONN CE suspension system.	Use as a hold-down clip for 5/8″ panels. Provides ready accessibility.

Variable Hold-Down Clip S	**Wall Spring Clip** T	**Miter Closure Clip for FINELINE System** U
Use for 5/16″ to 3/4″ panels.	Use to hold down perimeter ceiling panels. Useful for maintaining cleanroom seal with US25CE molding.	
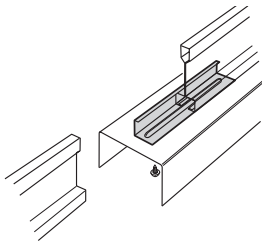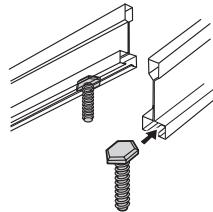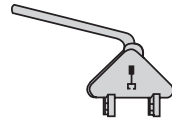
Catalog Number	Description	Packaging/Ctn. Pcs.	Wt. (lbs.)	Detail Key
Hold Down Clips				
L15	Hold-Down Clip—for 5/8″ fire-rated panels	1000	7	Q1
L15CE	Hold-Down Clip—for panels in clean room applications	500	3.5	Q2
L45	Accessible Hold-Down Clip for 5/8″ panels	1000	15	R
V15	Variable Hold-Down Clip	1000	8	S
C-8	Wall Spring Clip	2000	29	T
C-8CE	Wall Spring Clip (same clip as C-8; smaller quantity)	500	8	T
MCC3	2″ Miter Closure Clip for 1/8″ FINELINE suspension system	50	1	U
MCC2	2″ Miter Closure Clip for standard FINELINE suspension system	50	1	U

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Notes
C-8CE is the same clip in smaller quantity.

Grid Installation Accessories

Partition Attachment Clip V	**T-Bolt** W	**FINELINE Cut-Off Die** X
Use for closing off unused miters.	Use to bolt-attach partitions, signage, or pendant-mounted indirect lighting.	Use to field cut FINELINE tees.

FINELINE Accessories

Catalog Number	Description	Packaging/Ctn.		Detail Key
		Pcs.	Wt. (lbs.)	
MCC3	2″ Miter Closure Clip for 1/8″ FINELINE suspension system	50	1	V
MCC2	2″ Miter Closure Clip for standard FINELINE suspension system	50	1	V
MAC2	Molding Attachment Clip for FINELINE suspension system	100	3	W
PAC1	3″ Partition Attachment Clip	50	1	V
TB1	1″ x 1/4″ - 20 T-Bolt	100	1	W
FC1	FINELINE suspension system Cut-Off Die (scaffold mount)	1	10	X

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Light-Fixture Accessories	**Light-Fixture Clip**	
	For CENTRICITEE™ suspension system; use black clips with parabolic fixtures. Cross tee must be connected to main tee.	
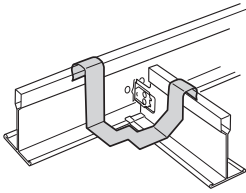
	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	Wt. (lbs.)
Light-Fixture Clip	LFC	Light-Fixture Clip (specify Flat White or Flat Black)	100	2
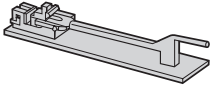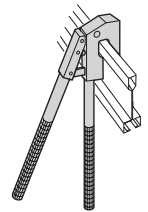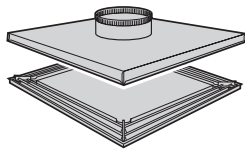
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Notes
* One carton contains six 12 oz. cans. Paints will not be shipped air freight.
** Specify color number from price list.

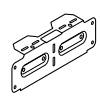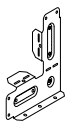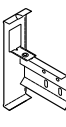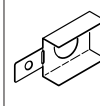| Miscellaneous Accessories	Universal Field Cross-Tee Hole Tool	Hand-Held Field Cross-Tee Hole Tool	Air Diffuser
	For all DONN suspension systems.	For all DONN suspension systems.	Field-cut foil-backed ceiling panels to fit diffuser face. Use with FINELINE and CENTRICITEE suspension systems.

	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	Wt. (lbs.)
Cross-Tee Hole Punches	215738	Universal Field Cross-Tee Hole Tool	1	30
	200308	Hand-Held Cross-Tee Hole Tool	1	5
	204755	Replacement Die Block for Universal Cross-Tee Tool	1	1
	276759	Replacement Die Block for hand-Held Cross-Tee Tool	1	1
	214418	Replacement Punch for Universal Cross-Tee Tool	1	1
	276760	Replacement Punch for Hand-Held Cross-Tee Tool	1	1
Touch-Up Paint	B14	Flat Black Spray Paint (205)*	6	7
	B13	Flat White Spray Paint (050)*	6	7
	PC15 GAL	Standard Gallon**	1	12
	PC16 QT	Standard Quart**	1	3
	PC19 GAL	Custom Gallon	1	12
	PC20 QT	Custom Quart	1	3
Air Diffusers Recommended for use with 9/16″ systems.	AD16	2′ x 2′ 1-Slot with 6″ Collar	1	7
	AD18	2′ x 2′ 1-Slot with 8″ Collar	1	7
	AD26	2′ x 2′ 2-Slot with 6″ Collar	1	8
	AD28	2′ x 2′ 2-Slot with 8″ Collar	1	8
	AD38	2′ x 2′ 3-Slot with 8″ Collar	1	8
	AD310	2′ x 2′ 3-Slot with 10″ Collar	1	9
	AD410	2′ x 2′ 4-Slot with 10″ Collar	1	10
	AD412	2′ x 2′ 4-Slot with 12″ Collar	1	10

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Support

Technical Information

Quality products from USG are backed by years of research, rigorous testing, and comprehensive technical support. For more information or assistance, please call our Technical Service Department at 800 USG.4YOU or visit our web site at www.usg.com

USG Environmental Statement

Integrity, dependability and innovation are the standards by which USG operates. We believe that health, safety and environmental well-being are compatible with economic health. We have a longstanding commitment to our employees, our customers and our communities to:
– Provide product and manufacturing solutions that reduce environmental impact
– Eliminate manufacturing waste at our plants
– Use recycled materials in product formulation and development

Reducing Environmental Impact

As a manufacturer, we are dedicated to safeguarding the environment. USG has a solid history of environmental responsibility and is constantly seeking environmentally sound products and manufacturing solutions.

Environmentally friendly alternatives

United States Gypsum Company's FIBEROCK® brand AQUA-TOUGH™ floor underlayment not only incorporates a patented technology that delivers outstanding performance benefits, but also offers an environmentally friendly alternative to conventional wood-based underlayments. Produced on a new manufacturing line at our Gypsum, Ohio plant, FIBEROCK Brand Underlayment is made from 100 percent recycled gypsum and 100 percent recycled cellulose fibers, recycled from scraps of cardboard box manufacturing. This plant also produces FIBEROCK® brand AQUA-TOUGH™ sheathing using the same technology.

In recognition of these achievements, United States Gypsum Company has earned independent certification from Scientific Certification Systems (SCS).

Using recaptured gypsum

Recaptured gypsum, also called synthetic gypsum, is a byproduct of several processes including flue gas desulfurization (FGD), which reduces acid rain by removing sulfur dioxide from the emissions of fossil-fuel-burning power plants. Our use of recaptured gypsum reduces the amount of this material that gets disposed in landfills. Wallboard made from recaptured gypsum offers the same properties and benefits as wallboard made from mined gypsum rock.

United States Gypsum Company has used recaptured gypsum to manufacture wallboard since 1974. Currently, we produce 24 percent (2.3 million tons per year) of our total production with recaptured gypsum cores. Nearly 50 percent of our wallboard plants use recaptured gypsum to some degree.

Eliminating Manufacturing Waste

United States Gypsum Company and USG Interiors, Inc. have used environmental control equipment since before the Clean Air Act was passed in 1969. Our plants consume clean fuels, such as low-sulfur oil and natural gas, wherever possible. Water treatment equipment installed at our paper mills and ceiling panel plants recycles water and reduces effluent discharges into municipal treatment systems.

Recycling heat

USG plants also conserve energy by recycling heat. Heat-exchange processes are used throughout our manufacturing operations to conserve energy and maximize efficiency. For example, we use heat from thermal process discharges to warm other parts of the plants.

Reusing waste

Our gypsum plants recycle plant waste back into the manufacturing process. U.S. Gypsum wallboard plants have a 95 percent recovery rate, and part of the remaining 5 percent is repurposed as protective material to support stacks of gypsum panels. Ceiling panels that are chipped or broken during manufacturing are also recycled and then returned to the process.
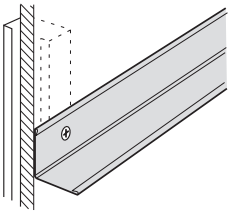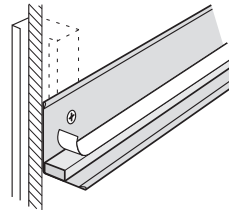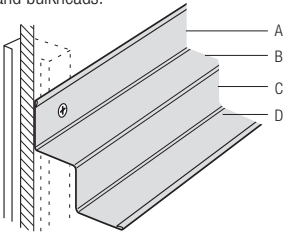
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Using Recycled Materials

The foundation of United States Gypsum Company is built on gypsum rock, which we complement with alternative resources, such as recycled industrial material, post-consumer waste and renewable agricultural sources. Incorporating these alternatives helps to preserve natural resources, support clean air and ease disposal problems for public utilities and other companies.

Reusing byproducts

– United States Gypsum Company has used recaptured gypsum to manufacture wallboard for more than 25 years. (See recaptured gypsum section for more information).
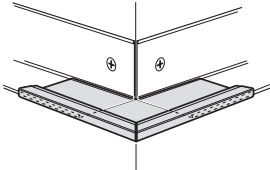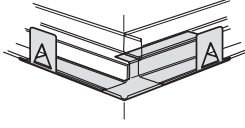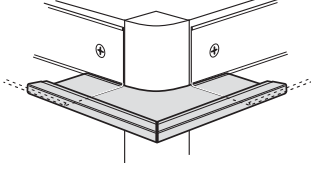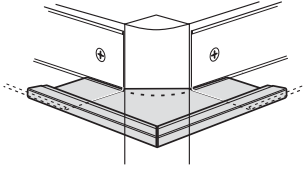– United States Gypsum Company uses fly ash, a byproduct of coal-fired utility plants, in the core of its cement board products. Lignin sulfonate, a byproduct from the paper industry, is also part of the formulation for gypsum wallboard.
– USG Interiors, Inc. uses slag, a byproduct of steel manufacturing, in manufacturing mineral wool for acoustical ceiling panels.
– USG Interiors, Inc. and U.S. Gypsum use post-industrial wastepaper for its acoustical ceiling panels and wallboard products.

Reusing discarded material

– Since the 1960s, United States Gypsum Company has made its own wallboard paper from 100 percent recycled paper including newspapers, phone books, corrugated cartons and cardboard cuttings.
– USG Interiors, Inc. grid can be recycled completely by remelting and salvaging the metal. Twenty-five percent of the material used in our steel fabrication plants is recycled. We also use waste newspaper to manufacture acoustical ceiling panels.

Reusing renewable agricultural sources

– Our plants use corn and wheat starches as binders in the manufacture of drywall and ceiling products.
– These agricultural sources can be harvested and replanted in a continuous cycle of renewal.

Leadership

USG supports environmental initiatives and is involved with a variety of environmental organizations.

U.S. Green Building Council

In 1993, USG helped establish the U.S. Green Building Council (USGBC), a diverse coalition of principal groups involved in the building industry. The council's mission is to promote buildings that are environmentally responsible, profitable and healthy places to live and work.

LEED Program

Developed by the USGBC, the Leadership in Energy and Environmental Design (LEED) program created a building rating system to evaluate environmental performance from a "whole building" perspective, providing a standard for "green building." Credits are earned for satisfying specific building criteria.
USG endorses this program by contributing environmentally sound products that help a builder earn credits toward a green building.

National Association of Home Builders

USG is involved in construction recycling demonstration projects with the National Association of Home Builders (NAHB).

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133	"F" Fissured	122	2220	Radar CLIMAPLUS	156
135	"F" Fissured	122	2225	Radar CLIMAPLUS	156
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415	Frost	128	2315	Radar	154
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460	Frost	128	2420	Radar CLIMAPLUS	156
490	Frost CLIMAPLUS High LR	130	2425	Radar CLIMAPLUS	156
491	Frost CLIMAPLUS High LR	130	2570	Radar CLIMAPLUS	156
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507	Fissured	124	2618	Radar	154
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562	Fissured	124	2742	Radar Illusion Two/24	154
585	Fissured	124	2842	Radar CLIMAPLUS Illusion Two/24	158
586	Fissured	124	2844	Radar CLIMAPLUS Illusion Two/24	158
608	Fresco CLIMAPLUS	126	2846	Radar CLIMAPLUS Illusion Two/24	158
609	Fresco CLIMAPLUS	126	2852	Radar CLIMAPLUS Illusion Eight/12	158
650	Aspen	110	2854	Radar CLIMAPLUS Illusion Eight/12	158
651	Aspen	110	2862	Radar CLIMAPLUS Illusion Thirty-Two/6	158
652	Aspen Illusion Two/24	110	2864	Radar CLIMAPLUS Illusion Thirty-Two/6	158
701	Glacier	132	2882	Radar CLIMAPLUS Illusion Four/48	158
707	Glacier	132	2884	Radar CLIMAPLUS Illusion Four/48	158
708	Glacier	132	2990	Radar	154
711	Glacier	132	3200	Sheetrock Lay-In Ceiling Panel, Clean Room	116, 168
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808	Sandrift CLIMAPLUS	166	3270	Sheetrock Lay-In Ceiling Panel CLIMAPLUS	168
809	SANDRIFT CLIMAPLUS	166	4211	OLYMPIA MICRO CLIMAPLUS	142
815	SANDRIFT	166	4221	Olympia Micro CLIMAPLUS	142
990	SUMMIT CLIMAPLUS	170	4231	Olympia Micro CLIMAPLUS	142
991	SUMMIT CLIMAPLUS	170	4411	Olympia Micro CLIMAPLUS	142
2110	Radar	154	4421	Olympia Micro CLIMAPLUS	142
2115	Radar	154	4431	Olympia Micro CLIMAPLUS	142
2120	Radar	154	4742	Olympia Micro CLIMAPLUS Illusion Two/24	142
2121	Radar	154	4744	Olympia Micro CLIMAPLUS	142
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7003G	Premier Nubby *CLIMAPLUS*	152	72215	Eclipse *CLIMAPLUS* Pedestals IV	120
7012G	Premier Nubby *CLIMAPLUS* Foil-Backed	152	72715	ECLIPSE *CLIMAPLUS* Pedestals I	120
7013G	Premier Nubby *CLIMAPLUS* Foil-Backed	152	72716	Eclipse *CLIMAPLUS* Pedestals IV	120
7050G	Premier Hi-Lite *CLIMAPLUS* Twill Perforated	150	76201	Millennia *CLIMAPLUS* High NRC	140
7051G	Premier Hi-Lite *CLIMAPLUS* Twill Perforated	150	76302	Millennia *CLIMAPLUS* High NRC	140
7052G	Premier Hi-Lite *CLIMAPLUS* Twill Unperforated	150	76505	Millennia *CLIMAPLUS*	138
7053G	Premier Hi-Lite *CLIMAPLUS* Twill Unperforated	150	76575	Eclipse *CLIMAPLUS*	118
7054G	Premier Hi-Lite *CLIMAPLUS* Kapok Perforated	150	76705	Millennia *CLIMAPLUS*	138
7055G	Premier Hi-Lite *CLIMAPLUS* Kapok Perforated	150	76775	Eclipse *CLIMAPLUS*	118
7056G	Premier Hi-Lite *CLIMAPLUS* Kapok Unperforated	150	76777	Eclipse *CLIMAPLUS*	118
7057G	Premier Hi-Lite *CLIMAPLUS* Kapok Unperforated	150	76779	Eclipse *CLIMAPLUS*	118
8122	Astro *CLIMAPLUS*	112	76901	Millennia *CLIMAPLUS*	138
8221	Astro *CLIMAPLUS*	112	76907	Millennia *CLIMAPLUS*	138
8223	Astro *CLIMAPLUS*	112	76975	Eclipse *CLIMAPLUS*	118
8227	Astro *CLIMAPLUS*	112	76977	Eclipse *CLIMAPLUS*	118
8241	Astro *CLIMAPLUS*	112	76979	Eclipse *CLIMAPLUS*	118
8243	Astro *CLIMAPLUS*	112	78080	Millennia *CLIMAPLUS* Illusion Two/24	138
8247	ASTRO *CLIMAPLUS*	112	78085	Eclipse *CLIMAPLUS* Illusion Two/24	120
8322	Astro *CLIMAPLUS*	112	78505	Millennia *CLIMAPLUS*	138
8722	ASTRO *CLIMAPLUS*	112	78575	Eclipse *CLIMAPLUS*	118
8742	Astro *CLIMAPLUS* Illusion Two/24	112	78705	Millennia *CLIMAPLUS*	138
8744	ASTRO *CLIMAPLUS* Illusion Two/24	112	78775	Eclipse *CLIMAPLUS*	118
22111	Radar *CLIMAPLUS* High NRC	160	78780	Millennia *CLIMAPLUS* Illusion Two/24	138
22121	Radar *CLIMAPLUS* High NRC	160	78785	Eclipse *CLIMAPLUS* Illusion Two/24	120
22127	RADAR *CLIMAPLUS* High NRC	160	78975	Eclipse *CLIMAPLUS*	118
22310	Radar *CLIMAPLUS* High CAC	160	86185	Mars *CLIMAPLUS*	136
22311	Radar *CLIMAPLUS* High NRC	160	86785	Mars *CLIMAPLUS*	136
55483	Rock Face *CLIMAPLUS*	164	86985	Mars *CLIMAPLUS*	136
56060	Clean Room *CLIMAPLUS* 10M-100M	116	88185	Mars *CLIMAPLUS*	136
56090	Clean Room *CLIMAPLUS* 10M-100M	116	88221	Halcyon *CLIMAPLUS*	134
56091	Clean Room *CLIMAPLUS* CLASS 100	116	88223	Halcyon *CLIMAPLUS*	134
56099	Clean Room *CLIMAPLUS* CLASS 100	116	88224	Halcyon *CLIMAPLUS*	134
56335	Rock Face *CLIMAPLUS*	164	88225	Halcyon *CLIMAPLUS*	134
56380	Rock Face *CLIMAPLUS*	164	88226	Halcyon *CLIMAPLUS*	134
56644	Radar Ceramic *CLIMAPLUS*	162	88227	Halcyon *CLIMAPLUS*	134
56645	Radar Ceramic *CLIMAPLUS*	162	88785	Mars *CLIMAPLUS*	136

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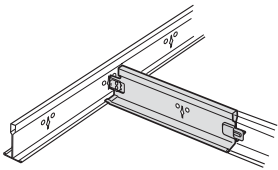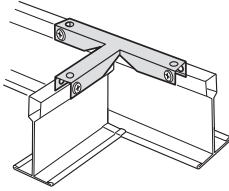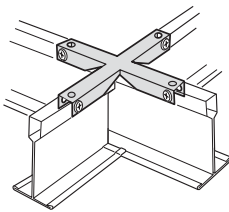Samples/Literature Fax 888 874.2348
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Packaging Information

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Page 1 of 3   The following are packaging quantities and details for USG acoustical ceilings panels.

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
ASPEN	650	54	12	48	20
	651	54	6	48	20
	652	54	6	48	20
ASTRO CLIMAPLUS	8221	60	16	64	20
	8241	60	8	64	20
	8223	60	16	64	20
	8243	58	8	64	20
	8227	60	16	64	20
	8247	61	8	64	20
	8122	55	12	48	20
	8322	60	12	48	20
	8422	60	12	48	20
	8722	57	12	48	20
	8742	59	6	48	20
	8744	59	6	48	20
BRIO CLIMAPLUS	308	71	12	48	32
	309	71	12	48	32
CLEAN ROOM CLIMAPLUS	56099	72	16	64	20
	56091	72	8	64	20
	56060	72	16	64	20
	56090	72	8	64	20
ECLIPSE CLIMAPLUS	76575	49	12	48	20
	78575	49	6	48	20
	76775	49	12	48	20
	76777	49	12	48	20
	ME76775	49	12	46.5	20
	78775	49	6	48	20
	76975	49	12	48	20
	76977	49	12	48	20
	ME76975	49	12	46.5	20
	78975	49	6	48	20
	70073	45	40	40	18
	76779	57	12	48	20
	76979	54	12	48	20
ECLIPSE CLIMAPLUS Illusion and Pedestals	78785	49	6	48	20
	78085	49	6	48	20
	72715	54	12	48	20
	72015	54	12	48	20
	72716	54	12	48	20
	72215	54	12	48	20

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
"F" FISSURED	131	72	12	48	32
	135	72	6	48	32
	132	72	12	48	32
	136	72	6	48	32
	133	72	12	48	32
	102	75	48	48	32
	101	75	48	48	32
FISSURED	560	42	16	64	20
	562	42	8	64	20
	506	43	16	64	20
	507	43	8	64	20
	585	65	16	64	20
	586	65	8	64	20
FRESCO CLIMAPLUS	608	71	12	48	32
	609	71	12	48	32
FROST CLIMAPLUS	414	71	12	48	32
	418	71	12	48	32
	419	71	12	48	32
FROST	400	71	12	48	32
	415	72	12	48	32
	440	71	12	48	32
	450	71	6	48	32
	460	71	6	48	32
FROST CLIMAPLUS High LR	490	71	12	48	32
	491	71	12	48	32
GLACIER	707	66	12	48	32
	711	66	6	48	32
	708	66	12	48	32
	701	70	44	44	32
	715	72	12	48	32

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Packaging Information

The following are packaging quantities and details for USG acoustical ceilings panels.

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
HALCYON *CLIMAPLUS*	97221	25	16	64	28
	97241	49	16	128	14
	98221	23	12	48	28
	98331	35	12	75	14
	88221	24	12	48	28
	98241	45	12	96	14
	88223	47	12	96	14
	98481	60	4	128	28
	99241	44	8	64	14
	88224	46	8	64	14
	98441	90	12	192	7
	99221	22	8	32	28
	98223	23	12	48	28
	88225	24	12	48	28
	98243	45	12	96	14
	98333	35	12	75	14
	88226	47	12	96	14
	98443	90	12	192	7
	99223	22	8	32	28
	98225	23	12	48	28
	98245	45	12	96	14
	98335	35	12	75	14
	88227	24	12	48	28
	98445	90	12	192	7
	99225	22	8	32	28
MARS *CLIMAPLUS*	86185	51	12	48	20
	86785	51	12	48	20
	86985	51	12	48	20
	88185	51	6	48	20
	88785	51	6	48	20
	88985	51	6	48	20
MILLENNIA *CLIMAPLUS*	76505	50	12	48	20
	78505	50	6	48	20
	76705	50	12	48	20
	78705	50	6	48	20
	76907	50	12	48	20
	76901	50	6	48	20
	70003	51	40	40	20

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
MILLENNIA *CLIMAPLUS* Illusion	78780	49	6	48	20
	78080	48	6	48	20
MILLENNIA *CLIMAPLUS* High NRC	76201	51	12	48	20
	76302	50	12	48	20
OLYMPIA MICRO *CLIMAPLUS*	4211	64	16	64	20
	4411	64	8	64	20
	4221	64	16	64	20
	4421	64	8	64	20
	4231	64	16	64	20
	4431	64	8	64	20
	4742	64	8	64	20
ORION 210 *CLIMAPLUS*	62111	40	16	64	20
	64111	40	8	64	20
ORION 270 *CLIMAPLUS*	66171	49	12	48	20
	68171	49	6	48	20
	66271	49	12	48	20
	66371	49	12	48	20
PEBBLED *CLIMAPLUS*	4801	56	16	64	20
	4800	56	8	64	20
	4805	55	16	64	20
	4867	56	8	64	20
PREMIER HI-LITE *CLIMAPLUS*	7050G	35	32	128	18
	7051G	35	16	128	18
	7054G	35	32	128	18
	7055G	35	16	128	18
	7052G	35	32	128	18
	7053G	35	16	128	18
	7056G	35	32	128	18
	7057G	35	16	128	18
PREMIER NUBBY *CLIMAPLUS*	7000G	35	32	128	14
	7002G	35	24	96	14
	7003G	35	12	96	14
	7012G	37	24	96	14
	7013G	37	12	96	14

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The following are packaging quantities and details for
USG acoustical ceilings panels.

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
RADAR	2110	42	16	64	20
	ME2110	42	16	62	20
	2310	42	8	64	20
	ME2310	42	8	62	20
	2619	53	8	80	20
	2617	43	8	67	20
	2311	44	6	48	20
	2618	63	6	75	20
	2120	42	16	64	20
	ME2120	42	16	62	20
	2320	42	8	64	20
	2121	43	12	48	20
	2310P	42	8	64	20
	2130	43	16	64	20
	2990	54	48	48	18
	2115	72	16	64	20
	2315	72	8	64	20
	2125	72	16	64	20
RADAR Illusion	2742	40	6	48	20
RADAR *CLIMAPLUS* High NRC	22310	73/75	8	64	20
	22111	57	12	48	20
	22311	58	6	48	20
	22121	58	12	48	20
	22127	58	12	48	20
RADAR Ceramic *CLIMAPLUS*	56644	75	12	48	20
	56645	75	6	48	20
RADAR *CLIMAPLUS*	2210	42	16	64	20
	2410	52	8	64	20
	ME2410	52	8	62	20
	2220	42	16	64	20
	ME2220	43	16	62	20
	2420	52	8	64	20
	2230	42	16	64	20
	2570	57	48	48	20
	2215	74	16	64	20
	2415	74	8	64	20
	2225	78	16	64	20
	2425	78	8	64	20

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
RADAR *CLIMAPLUS* High-Durability	2207	54	16	64	20
	2407	52	8	64	20
	2227	54	16	64	20
RADAR *CLIMAPLUS* Illusion	2842	44	6	48	20
	2844	44	6	48	20
	2882	44	6	48	20
	2884	44	6	48	20
	2852	44	6	48	20
	2854	44	6	48	20
	2862	44	6	48	20
	2864	44	6	48	20
	2846	49	6	48	20
	2886	49	6	48	20
	2856	49	6	48	20
	2866	49	6	48	20
ROCK FACE *CLIMAPLUS*	56335	82	12	48	20
	56380	82	6	48	20
	55483	71	12	48	20
SANDRIFT *CLIMAPLUS*	808	71	12	48	32
	809	71	12	48	32
SANDRIFT	815	72	12	48	32
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*	3260	33	4	16	92
	3270	67	4	32	46
	3200	67	4	32	32
SUMMIT *CLIMAPLUS*	990	42	6	24	64
	991	42	6	24	64
TOUCHSTONE *CLIMAPLUS*	5893	65	12	48	20
	5896	65	12	48	20
	5899	65	12	48	20
	5894	65	6	48	20

USG

Acoustical Ceilings

Manufacturer's Guide Specifications

Section 09511– Acoustical Panel Ceilings

1: General

1.01 Description of Work

A. Related work specified elsewhere:
  1. Insulation:-Section _____.
  2. Mechanical equipment: Section _____.
  3. Electrical:-Section _____.
  4. Gypsum board systems:-Section _____.
  5. Ceiling suspension systems:-Section _____.

B. Work installed but furnished under other sections (include applicable requirements):
Sound masking systems
Section 16727
(Contact Lencore Acoustics for a complete specification)

C. Work furnished but installed under other sections: (include applicable requirements):

1.02 System Description

Standard Panels:-Suspended (New Fire-Rated) ceiling system consisting of acoustical panel ceiling suspension system. System shall be rated NRC (   ) in accordance with ASTM C423 and CAC (   ) in accordance with ASTM test method E1414 and classification E4131 as tested by an independent agency.
Fire code™ formulation panels: Suspended (non-fire-rated) (fire-rated) ceiling system consisting of acoustical panel ceiling suspension system. System shall be rated NRC (   ) in accordance with ASTM C423 and CAC (   ) in accordance with ASTM test method E1414 and classification E4131 as tested or witnessed by an independent agency.
CAC: Ceiling Attenuation Class.
LR: Light Reflectance coefficient.
NRC: Noise Reduction Coefficient.
Recycled Content: Average percentage based on weight of component materials. Material recovered or diverted from the solid waste stream, either during the manufacturing process (pre-consumer) or after consumer use (post-consumer).
Sound Masking: Ceiling system to (include) (not include) Lencore sound masking with appropriate system customization to accommodate zoned masking and/or paging. (See Sound Masking System, section 16727.)

1.03 Delivery and Storage of Materials

A. All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements.

B. Storage time of materials at the jobsite should be as short as possible, and environmental conditions should be as near as possible to those specified for occupancy (see no. 1.04 below). Excess humidity during storage can cause expansion of material and possible warp, sag, or poor fit after installation. Chemical changes in the mat and/or coatings can be aggravated by excess humidity and cause discoloration during storage, even in unopened cartons. Cartons should be removed from pallets and stringers to prevent distortion of material. Long-term (6-12 months) storage under uncontrolled environmental conditions should be avoided.

C. Damaged or deteriorated materials should be removed from the premises. Immediately before installation, to stabilize tile and panels, store them at a location where temperature and humidity conditions duplicate those ambient during installation and anticipated for occupancy.

1.04 Environmental Conditions

A. Installation of acoustical panels shall not begin until building is enclosed, permanent heating and cooling equipment is in operation, and residual moisture from plaster, concrete, or terrazzo work has dissipated. CLIMAPLUS™ acoustical ceilings and CLIMAPLUS Ultra acoustical ceilings can be installed prior to building enclosure and permanent heating and cooling equipment is in operation.

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B. Do not use ceiling panels in extreme or continuous high humidity, or areas exposed directly to weather or water. Ceiling panels are sized and designed for use within the standard occupancy range of temperature and humidity, 65-85 °F (18-29 °C), no more than 70% RH (relative humidity). Humidity can greatly affect product dimensional stability and sag resistance. Sag can become noticeable during periods of high humidity lasting only a few hours. CLIMAPLUS ceilings and CLIMAPLUS Ultra ceilings, if used with Donn® Brand Suspension Systems, can withstand temperatures up to 90-104 °F (32-40 °C) and relative humidity 90%-100% RH. See USG Interiors Inc. for standard Warranty information.

C. Allow time for dimensional changes in ceiling panels stored at temperature/humidity conditions well outside of those recommended for service. With increases in temperature/humidity, these products expand (up to 1/64 in./ft. (4.3 mm/m) at 85 °F (29 °C)/90% RH) and may not fit into a fixed grid. Conversely, with decreases, these products will be undersize, but expand to normal when standard ambient conditions return.

D. For some pattern edge details, if perimeter panels must be cut smaller, the cut edge must be field-rabbetted, or the wall angle must be lowered by (1/4″) (3/8″) (Reveal Depth).

1.05
Quality Assurance

A. Single Source Responsibility: To obtain Lifetime ceiling system warranty, 15-year ceiling system warranty, color match or ceiling panel and suspension system compatibility, all acoustical panel and suspension system components shall be produced and supplied by one manufacturer. Materials supplied by more than one manufacturer are not acceptable.

B. Subcontractor qualifications: Installer shall have successful experience in the installation of suspended ceiling systems on projects with requirements similar to requirements specified.

C. Requirements of regulatory agencies: Codes and regulations of authorities having jurisdiction.

D. Source quality control:

   1. Test reports: Manufacturer will provide test certification for minimum requirements as tested in accordance with applicable industry standards and/or to meet performance standards specified by various agencies.

   2. Changes from system: System performance following any substitution of materials or change in assembly design must be certified by the manufacturer.

1.06
References

A. ASTM C635 and C636: Manufacturing of metal suspension systems and Installation of Suspended Ceilings.

B. Underwriters Laboratories, Inc.: Fire Resistance Directory, Acoustical Materials (BYIT).

C. ASTM E84: Surface Burning Characteristics Classification.

D. ASTM E119: Fire Tests of Building Construction and Materials.

E. ASTM C423: Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

F. CISCA Ceiling Systems Installation Handbook.

G. ASTM E1414-00: For CAC Testing

1.07
Submittals

A. Samples: Submit representative sample of color and finish of all exposed materials.

B. Shop drawings:

   1. Reflected ceiling plans: Contractors shall submit a layout arrangement of ceiling design, dimensions and locations of related integrated lighting and air distribution components.

   2. Installation drawings: Detail complete installation including suspension system, installation of related lighting and air distribution components, access requirements, sound absorption requirements, and fire rating requirements when applicable.

   3. Manufacturer's data: Submit manufacturer's catalog cuts or standard drawings showing details of system with project conditions clearly identified and manufacturer's recommended installation instructions.

   4. Maintenance materials: Submit ____(one) percent of amount of ceiling components installed.

C.   Warranty: Manufacturer's standard warranty for extent of conditions allowable and duration of warranty.

D.   Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical panel ceiling and suspension system.

   1. UL Acoustical Compliance: For acoustical performance, each carton of material must carry Underwriters Laboratories certification for CAC and NRC.

   2. UL Suspension System Load Compliance: Manufacturer must certify that the metal suspension system is UL Classified to be load compliant per ASTM C635. For load compliance, each carton of main tees must carry Underwriters Laboratories certification for load compliance.

1.08 Project Conditions

A.   Existing conditions: (include specific alteration work requirements for project).

B.   Environmental requirements for interior installation: Building shall be enclosed with windows and exterior doors in place and glazed, and roof watertight before installation of ceiling system and related ceiling components. Climatic condition range of 60-85 °F (16-29 °C) with a max 75% RH. *CLIMAPLUS* and *CLIMAPLUS* Ultra ceilings used with Donn Brand Suspension Systems can be used when building is not enclosed and in higher temperature, relative humidity range.

C.   Coordination with other work:

   1. Mechanical work: Ductwork above ceiling shall be complete, and permanent heating and cooling systems operating to climate conditions prior to installation of ceiling components.

   2. Electrical work: Installation of conduit above ceiling shall be complete before installation of ceiling components.

   3. Fire protection work: Fire protection lines and/or equipment occurring above ceiling shall be completed and tested before ceiling components are installed.

D.   Protection: Protect completed work above ceiling system from damage during installation of ceiling components.

2: Products

2.01 Manufacturer

A.   Ceiling panels as manufactured by USG Interiors, Inc., Ceilings Division, Chicago, Illinois, U.S.A.

B.   Sound masking, as manufactured by Lencore Acoustics Corp., Woodbury, New York, U.S.A.[1]

C.   Fill in the following information for the product you want to specify (see Color Selector, SC1859, for color numbers):

Pattern Name	Item No.	Color No.	Plastic Coating[2]	Sound Masking
			Yes/No	Yes/No

[1] See sound masking specification at www.lencore.com
[2] Plastic coating only available on certain panels. See Literature or Sales Representative.

3: Execution

3.01 Inspection

A.   Examine areas to receive ceiling panels for conditions that will adversely affect installation. Provide written report of discrepancies.

B.   Do not start work until unsatisfactory conditions are corrected.

C.   Work to be concealed: Verify work above ceiling is complete and installed in manner that will not affect layout and installation of ceiling panels.

D.   Beginning of installation shall signify acceptance of conditions in areas to receive ceiling panels.

E.   Fire-rating requirements: Construction above fire-rated assembly shall meet requirements of UL Design specified in *2: Products.*

3.02 Preparation

A.   Field dimensions must be verified prior to installation.

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3.03 **Installation**	**A.**	Standard reference: Install ceiling panels and suspension system, including necessary hangers, grillage, splines, and other supporting hardware, in accordance with ASTM C636, CISCA Installation Syds., (UL Design) and any applicable code requirement.
	B.	Manufacturer's reference: Install ceiling panels in exposed grid systems, supported on all edges, in accordance with manufacturer's current printed recommendations.
	C.	Drawing reference: Install ceiling panels in accordance with approved shop drawings.
3.04 **Maintenance**	**A.**	Cleaning: Panels can be cleaned easily with a soft brush, vacuum, or dry chemical sponge.
	B.	Repainting: Spray a thinned, nonbridging vinyl-acrylic flat wall paint. The type of paint selected and the method of application can alter the acoustical performance and fire ratings of any acoustical product. Therefore, USG Interiors, Inc. cannot guarantee that the field-painted panels will match the published performance.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

USG

Suspension Systems

Manufacturer's Guide Specifications

Section 09511– Acoustical Panel Ceilings

1: General	**1.01** **Related Work**	**A.**	Related work specified elsewhere: **1.** Gypsum Board Systems: Section _____. **2.** Acoustical Ceilings: Section _____. **3.** Integrated Assemblies: Section _____. **4.** Air Handling: Section _____. **5.** Lighting: Section _____.
		B.	Work installed but furnished under other sections: (Include applicable requirements.)
		C.	Work furnished but installed under other sections: (Include applicable requirements.)

	1.02 **System Description**	**A.**	Suspended ceiling system consisting of main tees and cross tees snapped together to form modules for the installation of lay-in acoustical panels, air diffusers, and light fixtures.

	1.03 **Quality Assurance**	**A.**	Subcontractor qualifications: Installer shall have successful experience in installation of ceiling suspension systems on projects with requirements similar to requirements specified.
		B.	Requirements of regulatory agencies: Codes and regulations of authorities having jurisdiction.
		C.	Source quality control: Manufacturer will provide test certification for suspension system as required to meet performance standards specified by various agencies.

	1.04 **References**	**A.**	ASTM C635, Standard Specifications For Metal Suspension Systems For Acoustical Tile And Lay-In Panel Ceilings.
		B.	ASTM C636, Recommended Practice For Installation Of Metal Suspension System For Acoustical Tile And Lay-In Panels.
		C.	ASTM E119, Standard Methods of Fire Tests of Building Construction and Materials.
		D.	CISCA Ceiling Systems Installation Handbook.
		E.	Underwriters Laboratories, Inc. (UL): Fire Resistance Directory—listing and classification.

	1.05 **Submittals**	**A.**	Samples: Submit data for suspension system main tees and cross tees for acceptance.
		B.	Shop drawings: **1.** Reflected ceiling plans: Contractor shall submit ceiling suspension system layout to indicate ceiling modules and related lighting and mechanical systems. **2.** Assembly drawings: Indicate module dimensions, accessory attachments, and installation of integrated systems components.
		C.	Manufacturer's Data: Submit manufacturer's catalog cuts or standard drawings showing details of system with project conditions clearly identified, and manufacturer's recommended installation instructions. **1.** System details: Submit manufacturer's descriptive literature or standard drawings showing details of system with project conditions clearly identified, and manufacturer's recommended installation instructions. **2.** Color chart: Submit manufacturer's standard color chart for selection of color.
		D.	Maintenance Materials: Provide _____ percent of amount of main tees and cross tees installed.
		E.	Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical panel ceiling and suspension system. **3.** UL Acoustical Compliance: For acoustical performance, each carton of material must carry Underwriters Laboratories certification for AC (if applicable), CAC and NRC. **4.** UL Suspension System Load Compliance: Manufacturer must certify that the metal suspension system is UL Classified to be load compliant per ASTM C635. For load compliance, each carton of main tees must carry Underwriters Laboratories certification for load compliance.

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	1.06 **Delivery, Storage,** **and Handling**	**A.**	Delivery of materials: Deliver materials in original, unopened packages clearly labeled with manufacturer's name, item description, part number, type, and class, as applicable.
		B.	Storage: Store in manner that will prevent warpage, scratches, or damage of any kind.
		C.	Handling: Handle in such manner to ensure against racking, distortion, or physical damage of any kind.

1.07 Project Conditions

A. Existing conditions: (Include specific alteration work requirements for the project.)

B. Environmental requirements:

   1. Building conditions: Building shall be enclosed with all windows and exterior doors in place and glazed, and the roof watertight before installation of suspension system.

   2. Interior temperature/humidity in building: Climatic conditions in areas to receive ceiling suspension systems shall range from 60 °F to 104 °F and relative humidity of not more than 90% shall be maintained before installation of components.

C. Coordination with other work:

   1. General: Coordinate with other work supported by or penetrating through the ceiling, including mechanical and electrical work and partition systems.

   2. Mechanical work: Ductwork above suspension system shall be complete, and permanent heating and cooling systems operating.

   3. Electrical work: Installation of conduit above suspension system shall be complete before installation of suspension system.

D. Protection:

   1. Personnel: Follow good safety and industrial hygiene practices during handling and installing of all products and systems, with personnel to take necessary precautions and wear appropriate personal protective equipment as needed. Read material safety data sheets and related literature for important information on products before installation. Contractor to be solely responsible for all personal safety issues during and subsequent to installation; architect, specifier, owner, and manufacturer will rely on contractor's performance in such regard.

   2. Existing completed work: Protect completed work above suspension system from damage during installation of suspension system components.

1.08 Warranty

A. The warranty period for a DONN® Brand Suspension System is 10 years.

B. A lifetime warranty is offered for DONN Brand Suspension Systems when used with USG tiles or panels. (A lifetime is defined as 30 years).

2: Products

2.01 Manufacturer

A. Metal ceiling suspension system as manufactured by USG Interiors, Inc., Chicago, IL, U.S.A.

B. Fill in the following information for the product you want to specify:

Suspension Name	Item No.	Color

3: Execution

3.01 Inspection

A. Examine areas to receive materials for conditions that will adversely affect installation. Provide written report of discrepancies.

B. Do not start work until unsatisfactory conditions are corrected.

C. Work to be concealed: Verify work above ceiling suspension system is complete and installed in manner that will not affect layout and installation of suspension system components.

D. Beginning of installation shall signify acceptance of conditions in areas to receive ceiling suspension system.

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Manufacturer's Guide Specifications

3.02 **Installation**	**A.**	Field dimensions: Installer must verify actual field dimensions prior to installation.

3.03
Preparation

A. Standard reference: Install in accordance with ASTM C636, CISCA installation standards, UL fire-rating classification, and any other applicable national or local code requirements.

B. Manufacturer's reference: Install in accordance with manufacturer's current publications.

C. Hanger wires:

   1. Spacing: Space hanger wires on main tees a maximum of 48″ or 60″ (1200 or 1500 mm) o.c. attaching hangers directly to structure above. A hanger wire shall occur directly adjacent to the fire expansion notch on every main tee, and as required per design requirements.

   2. Limitations: Do not support wires from mechanical and/or electrical equipment, piping, or other equipment occurring above ceiling.

   3. Fixtures at ceiling: Provide additional hanger wires where lighting fixtures and/or air supply and return units occur in ceiling.

D. Allowable tolerances: Per ASTM C636.

E. Hold-down clips: Install hold-down clips when FIRECODE™ formulation panels weigh less than 1.0 lb./sq. ft. (4.5 kg/m^2)

3.04
Maintenance

A. Cleaning: Remove panel material and perform any necessary cleaning maintenance with nonsolvent-based commercial cleaner.

B. Immediately remove any corrosive substances or chemicals that would attack painted finishes (e.g., wallpaper adhesives).

C. Touch up all minor scratches and spots, as acceptable, or replace damaged sections when touch-up is not permitted.

D. Painting: Repainting of suspension members shall be with a high-quality solvent-based paint and applied as recommended by paint manufacturer.

E. Removal of debris: Remove all debris resulting from work of this section.

Sound Test Data[1]

Note: All sound testing is conducted at the USG Research CSL Acoustical Test Facility, which is certified under the NVLAP Voluntary Accreditation Program and under the UL Client Data Test Program.

Acoustical Panel Product Name	Item No.	Size	CAC[3]	CAC Mounting[4]	NRC	Mounting	125	250	500	1000	2000	4000
ASPEN	650	3/4"x2'x2'	35	CE[7]	.55	E400	.48	.36	.53	.76	.75	.74
	3845	3/4"x2'x2'	35	CE[5]	.55	E400	.56	.35	.67	.87	.70	.75
ASPEN Illusion Two/24	652	3/4"x2'x4'	40	CE[7]	.50	E400	.37	.33	.47	.60	.61	.61
ASTRO *CLIMAPLUS*	8241	5/8"x2'x4'	35	CE	.55	E400	.51	.31	.47	.65	.71	.73
	8223	5/8"x2'x2' SL	35	CE	.55	E400	.43	.43	.53	.70	.74	.72
BRIO *CLIMAPLUS*	308	3/4"x2'x2' SL	35	CE	.70	E400	.40	.30	.62	.98	.99	.97
CLEAN ROOM (perforated)	56060	5/8"x2'x2'	35	CE	.50	E400	.43	.38	.63	.79	.56	.35
ECLIPSE *CLIMAPLUS*	76775	3/4"x2'x2'	35	CE	.70	E400	.52	.51	.63	.92	.95	.87
"F" FISSURED	101	3/4"x12"x12"	25	CCF	.70	E400	.62	.60	.55	.78	.90	.88
	132	3/4"x2'x2'	35	CE[5,7]	.70	E400	.59	.30	.72	1.02	.98	.97
	131	3/4"x2'x2'	35	CE[6,7]	.70	E400	.45	.31	.71	1.04	.98	.99
FISSURED	562	5/8"x2'x4'	35	CE	.55	E400	.47	.35	.51	.80	.76	.62
	586	5/8"x2'x4'	35	CE	.55	E400	.38	.29	.46	.78	.70	.56
FRESCO *CLIMAPLUS*	608	3/4"x2'x2' SL	35	CE	.70	E400	.59	.24	.64	1.01	1.02	.98
FROST *CLIMAPLUS*	414	3/4"x2'x2'	38	CE[5,7]	.70	E400	.40	.33	.67	1.02	.96	.99
GLACIER	701	3/4"x12"x12"	25	CCF	.65	E400	.80	.71	.59	.79	.93	.97
	707	3/4"x2'x2'	35	CE[5,7]	.65	E400	.51	.31	.49	.92	1.05	.98
	715	3/4"x2'x2'	35	CE[5]	.65	E400	.59	.28	.58	.96	.96	1.06
HALCYON *CLIMAPLUS*	97241	3/4"x2'x4'	20	CE	.90	E400	.69	.82	.76	.98	1.05	1.03
	98241	1"x2'x4'	25	CE	.95	E400	.80	.95	.78	1.04	1.07	1.09
	99241	1-1/2"x2'x4'	25	CE	1.00	E400	.78	.88	.90	1.10	1.06	.97
	88223	1"x2'x4'	30	CE	.90	E400	.58	.52	.01	1.06	1.12	1.10
	88224	1-1/2"x2'x4'	30	CE	.95	E400	.64	.75	.92	1.17	1.08	.98
MARS *CLIMAPLUS*	86185	3/4"x2'x2'	35	CE	.70	E400	.67	.39	.67	.97	1.02	1.04
MILLENNIA *CLIMAPLUS*	76705	3/4"x2'x2'	35	CE	.70	E400	.55	.37	.64	.89	.98	.96
MILLENNIA *CLIMAPLUS* High NRC	76201	3/4"x2'x2'	30	CE	.75	E400	.73	.63	.66	.86	.93	.91
ORION 210 *CLIMAPLUS*	64111	1/2"x2'x4'	25	CE	.70	E400	.70	.65	.61	.79	.69	.41
ORION 270 *CLIMAPLUS*	66271	3/4"x2'x2'	25	CE	.80	E400	.67	.70	.70	.92	1.01	1.03
PREMIER NUBBY *CLIMAPLUS*	7013G	1"x2'x4'	25	CE	.90	E400	.62	.56	.81	1.07	1.11	1.02
RADAR	2120	5/8"x2'x2'	33	CE[5,7]	.55	E400	.67	.37	.52	.76	.78	.71
	2310	5/8"x2'x4'	35	CE	.55	E400	.47	.33	.51	.72	.74	.71
	2315	5/8"x2'x4'	35	CE	.55	E400	.38	.28	.48	.75	.76	.70
	2990	5/8"x12"x12"	40	CCF	.55	E400	.50	.34	.52	.67	.63	.70
RADAR *CLIMAPLUS* High-Durability	2207	5/8"x2'x2'	35	CE	.55	E400	.45	.31	.52	.77	.76	.73
RADAR *CLIMAPLUS* High NRC/ High CAC	3173	3/4"x2'x2'	35	CE[5]	.70	E400	.48	.41	.66	.93	.86	.79
	3178	3/4"x2'x4'	35	CE	.70	E400	.58	.37	.64	.97	.95	.80
RADAR Illusion Two/24	2742	3/4"x2'x4'	35	CE	.55	E400	.41	.29	.51	.77	.69	.57
ROCK FACE *CLIMAPLUS*	56380	5/8"x2'x4'	35	CE	.55	E400	.33	.23	.50	.75	.65	.55
SANDRIFT *CLIMAPLUS*	808	3/4"x2'x2'	40	CE	.70	E400	.39	.31	.59	1.03	1.00	1.00
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*	3270	1/2"x2'x4'	40	CE	—	—	—	—	—	—	—	—
SUMMIT *CLIMAPLUS*	990	3/4"x2'x2'	38	CE	.70	E400	.42	.33	.72	.98	.91	.90

Sound Absorption Test Data[2] — **Band Center Frequency Hz**

1. Data on physical properties for sound control products were obtained by testing at recognized laboratories. Sound-test surfaces were painted. Procedures were according to:
– ASTM C1477 for light reflectance (LR)
– ASTM C423 for sound absorption (NRC)
– ASTM 1414 for sound attenuation (CAC)
2. Sound absorption test specimen mountings: B—adhesive application to gypsum board; D20—stapled to wood furring strips; E400 or E405—metal suspension system. Mountings are designations from ASTM Standard E795.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. Sound attenuation test specimen mountings, coded: (1st letter) Ad—Adhesive attachment, C—Continuous at partitions, I—Interrupted at partitions; (2nd letter) C—Concealed suspension system,

E—Exposed suspension system; (3rd or 4th letter) F—Flat splines, T—Tee splines, X—accessible feature; a—one layer 1-1/2" Thermafiber® sound attenuation fire blankets, laid on ceiling continuous; d—two layers 1-1/2" Thermafiber sound attenuation fire blankets, laid on ceiling in an 8-ft width centered over the partition; t—inverted-T plenum barrier of 3" Thermafiber sound attenuation fire blankets, centered above partition continuous.
5. Shadowline (rabbeted) edge configuration.
6. For current acoustical data, verify with 800 USG.4YOU.
7. Minimal requirement under the U.L. acoustical compliance program.
8. From recent test data as tested at USG Research and Technology Innovation Center.

Lencore Acoustics
Sound Masking

Achieve Speech Privacy and Acoustical Comfort
with Lencore Sound Masking

Acoustics are an important aspect of any design, whether to enhance productivity and comfort in office environments or comply with federal speech privacy regulations in healthcare and financial settings. To meet these demands, architects increasingly turn to sound masking to optimize the acoustical performance of a quality ceiling system.

From Worker Comfort to Legal Compliance

Sound masking provides a constant, random and unobtrusive background sound that effectively overrides sound not absorbed or blocked by ceiling panels, acoustical wall panels, carpeting, partitions and other design elements. In open-plan offices, sound masking reduces distractions from coworkers' conversations, meetings and speakerphones. In enclosed offices and spaces with wall and ceiling penetrations for lighting, HVAC and other systems, sound masking complements high-CAC ceiling panels by further reducing the amount of intelligible conversation that may reach others outside.

Even exceptionally quiet environments can benefit from sound masking. In these spaces, the faintest sounds—rustling papers, drawers opening and closing—can be distracting. Without ambient background sound, intermittent noise becomes intrusive.

Beyond reducing distraction and allowing people to speak in confidence, sound masking can help ensure compliance with privacy regulations. The Health Insurance Portability and Accountability Act (HIPAA) regulates the transmission of health information in electronic, paper and oral forms, while the Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), requires financial institutions to protect customer financial information from inadvertent disclosure. Both regulations include requirements that affected facilities adopt systems and procedures to prevent consultations with and about patients and customers from being overheard. Sound masking can help architects, specifiers and building owners and managers achieve compliance.

USG offers an extensive selection of acoustical ceiling panels with high NRC and CAC ratings, performance that can be further enhanced with Lencore sound masking:

	NRC	CAC[1]
ECLIPSE *CLIMAPLUS*	.70	35
FROST *CLIMAPLUS*	.70	38/40
HALCYON *CLIMAPLUS*	1.0	25
MARS *CLIMAPLUS*	.70	35
SANDRIFT *CLIMAPLUS*	.70	38
SUMMIT *CLIMAPLUS*	.70	38/40

The Lencore Advantage

Sound masking systems from Lencore Acoustics employ a unique design to provide even, uniform coverage throughout a space. Take a closer look at the comprehensive benefits of the high-quality Lencore Spectra® sound masking system.

– Performance. Masking is directed upward to create a reverse "cone of sound" that fills the plenum and filters down through the ceiling panels, preventing "hot" and "cold" spots common to other system types, such as direct-field and centrally controlled systems. Coverage from adjacent units overlaps, distributing even, uniform sound throughout the workspace.

– Flexibility. Lencore sound generating units hang above the ceiling system, where they won't interfere with ceiling renovations or have to be reconfigured if the layout of office furniture, workstations or partitions changes. Lencore systems support optional, integrated paging and music capabilities vastly superior to conventional systems, and individual and/or central controls are available.

– Savings. Each unit is hung on 15-ft. centers, providing 225 sq. ft. coverage – up to three times as much coverage as panel-mounted, direct-field and some centrally controlled sound masking units, significantly reducing equipment and labor costs.

Units operate on low-voltage power, with no special electrical requirements. Documented workplace productivity gains of 3-20 percent can provide a full return on investment in less than one year.

– Comfort. Ensuring that the sound generated is not distracting is the most nuanced aspect of sound masking, and where many other systems fail. Lencore technology creates digital, non-repeating masking cycles with the tightest masking variance (+/- ½ dBa) of any available system. These advantages ensure uniformity in masking and speech privacy levels, producing a sound preferred by 99 percent of listeners in competitor system comparisons.

– Quality. Lencore systems have a 30-year record of performance in the field, and many Spectra systems have been in use for 10+ years. All systems are made in the U. S. A., UL-listed and backed by a 10-year warranty from date of installation.

– Zero maintenance. No system maintenance or tuning is required after installation.

To learn more about how sound masking can enhance the sound control and speech privacy performance of a USG ceiling, visit Lencore Acoustics online at www.lencore.com. Local assistance is available from Lencore expert representatives in all 50 states to provide complete project services and support, from acoustical analysis through system installation and tuning.

Proof of Speech Privacy Levels

Lencore's award-winning Sound and Privacy Evaluation and Criteria (SPEC™) software analyzes and compares the sound levels and speech privacy of a space (existing or in design) with a standard ceiling system and with a high-performance USG acoustical ceiling and Lencore sound masking.

Provided as a free service, Lencore representatives use SPEC to tailor a sound masking solution to your design and acoustical performance requirements. Upon installation, the facility owner or manager receives a PRIVACY INDEX REPORT™ fully documenting that the desired Articulation Index[2] has been attained.
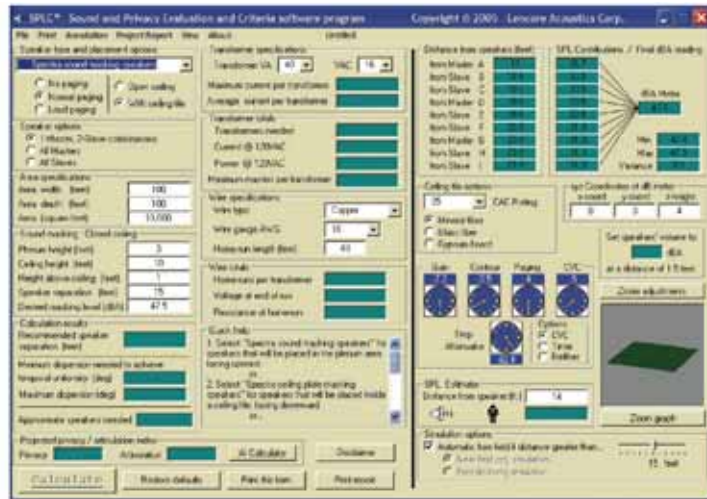
1. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
2. Speech privacy is measured per ASTM E1130, Standard Test Method for Objective Measurement of Speech Privacy in Open Offices Using Articulation Index, which classifies speech privacy levels as minimal, normal or confidential.

Standard Seismic Applications

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For lay-in acoustical panels and direct-hung acoustical tiles.

Visit the USG Seismic Ceilings Resource Center at www.seismicceilings.com

	IBC Category C[1]	IBC Category D, E, F[2]	UBC 25-2[3]
Basic Connections, Perimeter, and Lateral Splay Bracing			
Minimum intersection strength limits @ MT / CT[4]	60 lbs	180 lbs	180 lbs
Vertical hanger wire 12-gauge @ 4′ o.c.	Required	Required	Required
Connection device from vertical wire to the structure above must sustain min 100 lbs	Not required	Required	Required
Main tee classifications[5]	Intermediate- or heavy-duty	Heavy-duty	Intermediate- or heavy-duty[6]
1 in 6 max plumb of vertical hanger wires	Required	Required	Required
Perimeter vertical hanger wires not more than 8″ from wall	Not required unless molding < 7/8″	Required	Required
Grid end/wall clearance	Min 3/8″	Min 3/4″	Some clearance on two non-attached walls, if applicable
Perimeter closure (molding) width	Min 7/8″ (or use perimeter wires)	Min 2″	Min 7/8″
Grid connection to perimeter attached on two adjacent walls	Not permitted	Required	Optional
Perimeter tee ends tied together at perimeters	Required	Required	Required
Horizontal restraint (splay wires or rigid bracing) within 2″ of intersection and splayed 90° apart at 45° angles	Not required	Required[7,8]	Required[8,9]
Compression posts (struts) 12′ o.c. in both directions, starting 6′ from walls	Not required	Required[7,8]	Required[8,9]
Splay bracing connection strength 200 lbs or the design load, whichever is greater	Not required	Required	Required
Partition attachment	Allowed only if ceiling is able to move laterally	Bracing independent of ceiling splay bracing	Allowed with bracing
Seismic separation joint	Not required	Required for areas > 2,500 sq. ft. (or full height partition)[8]	Not required
Rigid bracing for ceiling plane elevation changes	Not required	Required	Not required
Light Fixture Attachment			
Light fixture (all types) mechanically attached to grid per NEC 410-16 (two per fixture unless independently supported)	Required	Required	Required[8]
– Surface-mounted fixtures attached to grid	Not required	Not required	Required (including safety wires to vertical wire or structure)[6]
– Pendant-hung fixtures directly supported from structure with 9-gauge wire (or approved alternative)	Required	Required	Required
– Rigid lay-in or can light fixtures			
< 10 lbs – one wire to structure (may be slack)	Required	Required	Lower limit is 20 lbs.
10 to 56 lbs – two wires from housing to structure (may be slack)	Required	Required	Required – lower limit is 20 lbs.
> 56 lbs – supported directly to structure by approved hangers	Required	Required	Required
Service Applications			
Air terminals			
< 20 lbs – positively attached to grid	Required	Required	Required
20 to 56 lbs – positively attached to grid and two 12-gauge wires to structure (may be slack)	Required	Required	Required
> 56 lbs – directly supported to structure	Required	Required	Required
Sprinkler heads and other penetration clearance	Min 3/8″ on all sides	Min 2″ dia. opening or a swing joint	Not required
Cable trays and electrical conduit independently supported and braced	Not required	Required	Not required

Notes
The above information is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system. This is only intended as a quick reference. A thorough understanding of IBC 2003 and UBC 25-2 is necessary when designing and installing ceiling suspension systems.

1. Refers to CISCA installation recommendations for zones 0-2 via ASCE 7-02. Max ceiling weight: 2.5 psf.
2. Refers to CISCA installation recommendations for zones 3-4 via ASCE 7-02.
3. UBC 25-2 continues to be the code adopted by the state of California.
4. All USG DONN® brand ceiling suspension systems meet these requirements.
5. Per ASTM C635.

6. When intermediate-duty systems are used, No. 12-gauge hanger wires shall be attached to the suspension members within three inches of each corner of each fixture.
7. Required for ceilings larger than 1,000 square feet.
8. Where substantiating design calculations are not provided.
9. Seismic bracing standards generally apply to ceilings larger than 144 square feet.

Fire-Rated Ceiling Assemblies

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Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs— Concrete with Cellular Steel Floor Units and Beam Support Concealed Grid System and Tile	A003	3 hr. R; 3 hr. UR; 3 hr. URB	3/4 FR-81; 3/4 FR-83	12 x 12 12 x 24	Z-runners	Fluorescent type, 2 x 4—8%	None	2-1/2″ concrete; Cellular deck; W10 x 25 beam
Floor/Ceiling Designs— Concrete with Steel Floor Units and Beam Support Exposed Grid System and Lay-in Panels	D209	2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-81; FR-83; FR-4; M; FR-X1; [GR-1]; FGCB	2 x 2; 2 x 4	DXL, DXLA	Fluorescent type, 2 x 4—8%	None	2-1/2″ concrete; Cellular or fluted deck W10x 21 beam
	D215	4 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr URB	3/4″ FR-83	2 x 4;	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″ concrete; Cellular or fluted deck W8 x 15 beam
	D218	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R 2 hr. UR; 2 hr. URB	FR-83; Metal Pans	2 x 4	DXLP, DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—20% 5 x 48—10% 9 x 48—14%; Incandescent type, 6-1/2″ diam.	1 air boot per 100 sq. ft.	3-1/4″ concrete (3 hr.), 2-1/2″ concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
	D219	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-4; FR-X1	2 x 2 2 x 4	DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 12 x 48—16% 24 x 24—20% 20 x 48—20% 20 x 48—24%	144 sq. in.	3-1/2″ concrete (3 hr.); 2-1/2″ concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
Floor/Ceiling Designs— Concrete and Steel Joists Exposed Grid System and Lay-in Panels	G203	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83; [GR-1] Astro-FR	2 x 2; 2 x 4; 20 x 60	DXL, DXLT	Fluorescent type, 2 x 4 or 20 x 60—16% Incandescent type, 6-1/2″ diam.—1.4%	254 sq. in. (576 sq. in.)	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 24″ o.c. or Hambro system, W6 x 12 or W8 x 10 beam
	G211	3 hr. R; 3 hr. UR	FR-83; FR-4; FR-X1; FC-CB; Astro-FR; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLZ, ZXLA, SDXL, SDXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	3″ concrete; Metal lath; 10″ bar joists 24″ o.c.
	G213	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-4; FR-81; FR-83; M; FR-X1; FC-CB (1 or 1-1/2 hr.) Astro-FR; [GR-1]	2 x 4; 2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	154 sq. in.	3-1/2″ concrete; metal lath or deck 10″ bar joists 24″ o.c.; W6 x 12 beam
	G202	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1 Astro-FR; [GR-1]	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48; 20 x 48/60—24%; 2 x 2 HID—12%; Incandescent type, 6-1/2″ diam.	576 sq. in.	2-1/2″ concrete; Metal lath 10″ bar joists 24″ or 30″ o.c.
	G204	2 hr. R; 2 hr. UR; 2 hr. URB	FR-81; FR-83; FR-4; M; FR-X1 Astro-FR; [GR-1]	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 24 x 24; 24 x 48; 24 x 60; 24%; 2 x 2 HID; Incandescent type, 6-1/2″ diam.	113 sq. in. (576 sq. in.)	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 30″ o.c.; W6 x 12 beam

Fire-Rated Ceiling Assemblies

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs–Concrete and Steel Joists Exposed Grid System and Lay-In Panels (continued)	G205	3 hr. R, 3 hr. UR, 3 hr. URB	FR-83; FR-X1; FC-CB; FR-4 Astro-FR; [GR-1]	2 x 2; 2 x 4	DXLT, DXL, DXLZ, SDXL, DXLA, SDXLA, DXLZA, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2" diam.	576 sq. in.	3-1/2" concrete (3 hr.) 2-1/2" concrete (2 hr..) 8" bar joists, 72" o.c. (2 hr. rating) 10" bar joists 48" o.c. (3 hr. rating)
	G215	2 hr. R; 2 hr. UR; 2 hr. URB 2 hr. URB	FR-81 FR-83; FR-4; FR-X1 Astro-FR; [GR-1]	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48/60—24%; 2 x 2 HID—2%; Incandescent type, 6-1/2" diam.	154 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c. or Hambro system; W10 x 21 beam
	G222	2 hr. R; 2 hr. UR; 2 hr. URB	FC-CB	2 x 2	DXL, DXLA, DXLH, DXLZ, SDLX, SDXLA	Fluorescent type, 2 x 4—12%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W8 x 24 beam 6-1/2" diam.
	G227	2 hr. R; 2 hr. UR; 3 hr. URB	FR-83 Astro-FR; [GR-1]	2 x 2; 2 x 4	Not a USG product	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c. or Hambro System; W8 x 31 beam
	G228	2 hr. R; 2 hr. UR; 2 hr. URB	AP; AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—12%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c.; W8 x 31 beam
	G230	2 hr. R; 2 hr. UR 2 hr. URB	FR-83; FX-X1; Astro-FR; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	2" building units; Floor topping mixture; 10" bar joists 48" o.c.; W8 x 31 beam
	G231	2 hr. R; 2 hr. UR; 3 hr. URB	3/4" FR-83	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2" concrete; Metal lath or deck; 8" bar joists 24" o.c.; W8 x 31 beam
	G265	2 hr. R; 2 hr. U; 2 hr. URB	3/4" FR-83; FR-X1	2 x 2; SQ, ILT edge	DXLT, DXLTA, DXLTZ, DXLTZA	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c; W8 x 35 beam
	G259	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FC-CB	2 x 4	DXL, DXLA, DXLH, DXLZ, SDLX, ZXLA	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W8 x 31 beam
	G201	1 hr. R; 1 hr. UR	GR-1; FR-X1; FR-83; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2" diam.	None	2" concrete; Metal lath or deck;10" bar joists 24 to 30" o.c. or Hambro System
	G262	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; [GR-1]	2 x 2 ILT edge	DXLT, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%	113 sq. in.	2-1/2" concrete; Steel deck; 8" bar joists 24" o.c.
	G264	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; [GR-1]	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2"concrete; Steel deck; 8" bar joists 24" o.c.
Floor/Ceiling Designs–Concrete and Steel Joists Concealed Grid System and Tile	G002	2 hr. R; 2 hr. UR	FR-81; FR-83	12 x 12; 12 x 24	Z-runners	Fluorescent type, 2 x 4—24%	576 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.
	G007	2 hr. R; 2 hr. UR; 2 hr. URB	FR-81; FR-83	12 x 12; 12 x 24; 24 x 24	Not a USG product	Fluorescent type, 1 x 4—16% or 2 x 4—24%	196 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W10 x 21 beam
	G008	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83	12 x 12 to 24 x 24	DXL, DXLZ, SDXL (DE, DT, DEN, PAT, BPA/PAT, E, BPC)	Fluorescent type, 1 x 4—12% 2 x 4 —16%	288 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c.; W8 x 31 beam

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Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs–Concrete and Steel Joists Concealed Grid System and Tile (continued)	G019	2 hr. R; 2 hr. UR	FR-83	12 x 12	Not a USG product	Fluorescent type, 2 x 4—24%	113 sq. in.	2-1/2″ concrete; Metal lath ; 10″ bar joists 24″ o.c.;
	G267	1 1/2 hr. R; 2 hr. UR	FR-83; AP AP-3, FR-X1	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″concrete; Steel deck; 8″ bar joists 24″ o.c.;
	G268	3 hr. R; 3 hr. UR 3 hr. URB	3/4″ AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—12% Incandescent type, 6-1/2″ diam.	57 sq. in.	2-5/8″ concrete; Metal lath; 10″ bar joists 28″ o.c.; W8 x 31 beam
	G040	2 hr. R; 2 hr. UR	FR-83	12 x 12; 12 x 24	DXL, DXLA, ZXLA, (DE, DT), DXLZ, SDXL	Fluorescent type, 2 x 4—16%	113 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.; W10 x 19 beam
Floor/Ceiling Designs— Precast and Field-Poured Concrete Exposed Grid System and Lay-In Panels	J201	2 hr. R; 2 hr. UR 1-1/2 hr.	FR-81; FR-83; FR-4; M; FR-X1; [GR-1]	2 x 2; 2 x 4; 20 x 60	DXL, DXLT, DXLZ, SDXL, DXLA, SDXLA, ZXLA DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	2-1/2″ concrete floor with 6″ concrete stems
	J202	2 hr. R; 2 hr. UR	FR-83; FR-X1; [GR-1]	2 x 2; 2 x 4 DXLTZ	DXL, DXLT, DXLZ, SDXL, Incandescent type, 6-1/2″ diam.	Fluorescent type, 2 x 4—14%;	57 sq. in.	Precast concrete; 2″ deck; Stems 4′ o.c.
Floor/Ceiling Designs– Wood or Combination Wood and Steel Joists Assemblies Exposed Grid System and Lay-In Panels	L211 (P237)	2 hr. UR; Finish Rating: 75 min.	FR-4; FR-83; FR-X1; [GR-1]	2 x 4	DW (for drywall), DXL, DXLA, SDXL, DXLZ, SDXLA, ZXLA (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.; 1/2″ FIRECODE C Gypsum Panel Ceiling w/6″ fiberglass insulation
	L202	1 hr. UR; Finish Rating: 15 min.	FR-81; FR-83; FR-4; M; FR-X1; [GR-1] Astro-FR	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL Acoustical tent	Fluorescent type, 20 x 48/60 or 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1%	110 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.
	L206	1 hr. UR; Finish Rating: 17 min.	FR-83; FR-X1; [GR-1]	2 x 2 x 3/4; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2″ diam.—0.5%	110 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.
	L206	1 hr. UR; Finish Rating: 17 min.	FC-CB; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, ZXLA DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2″ diam.	110 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c
	L212 (P238)	1 hr. UR; Finish Rating: 17 min.	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16″ o.c; Panels back Panels backloaded w/6″ fiberglass
Floor/Ceiling Designs– Wood or Combination Wood and Steel Joists Assemblies Concealed Grid System and Tile	L006	1 hr. UR; Finish Rating: 12 min.	FR-81; FR-83	12 x 12; 12 x 24	Not a USG product	Fluorescent type, 12 x 48; 20 x 48; 20 x 60—14%	81 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16″ o.c

Fire-Rated Ceiling Assemblies

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Roof/Ceiling Designs Exposed Grid System and Lay-in Panels	P213	2 hr. R; 2 hr. U	3/4″ FR-83; FR-X1	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1.0%	110 sq. in.,	2″ planks; Insulation; 14″ bar joists 84″ o.c.
	P237	2 hr. R; 2 hr. UR; 2 hr. URB	FR-4; FR-83; FR-X1; [GR-1]	2 x 4	DW (for drywall) DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	144 sq. in. Linear air returns	Unlimited insulation; Steel deck; 8″ bar joists 72″ o.c.; 1/2″ FIRECODE C Gypsum Panel Ceiling w/6″ fiberglass insulation
	P241	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1; [GR-1]	2 x 4	DW (for drywall), ZXLA, DXL, DXLZ, SDXL, DXLZA, SDXL (for panels) (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	Insulating concrete; Steel deck; 10″ bar joists 72″ o.c.; 1/2″ FIRECODE C Gypsum Panel Ceiling w/6″ fiberglass insulation
	P230	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB 1 hr.; 1 hr. UR; 1 hr. URB	FR-4 FR-83; FR-X1; AP (1 hr. only); AP-3; Astro-FR; [GR-1]	2 x 2; 2 x 4; 20 x 60	DXL, DXLA, DXLP, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.; 2 X 2 HID	255 sq. in. (576 sq. in. for 1 hr.)	Unlimited insulation; Gypsum panels or DUROCK® on steel deck; 10″ bar joists 72″ o.c.; 6 x 12 beam
	P201	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; M; [GR-1]	2 x 4	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	None	None	Steel deck; 3/4″ insulation; 10″ bar joists 84″ o.c.; W8 x 17 beam
	P202	1 hr. R; 3/4 hr. UR; 1 hr. URB	FR-83; FR-X1; M; [GR-1]	2 x 4	Not a USG product	Fluorescent type, 2 x 4—16%	57 sq. in.	Steel deck; 1″ insulation; 8″ bar joists 48″ o.c.
	P214	1 hr. R; 1 hr. UR; 1 hr. URB	3/4″ FR-83; [GR-1]	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1%	57 sq. in.	Steel deck 3/4″ to 15/16″ insulation; 10″ bar joists 72″ o.c.
	P267	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M; Metal pans; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLP, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—16%	576 sq. in.	1″ to 2″ insulation; Steel deck; 8″ bar joists 48″ o.c.
	P235	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M; Metal pans; [GR-1]	2 x 4; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%	144 sq. in.	Foamed plastic insulation; Gypsum panels; Steel deck, 10″ bar joists 72″ o.c.; W8 x 15 beam
	P238	1 hr. R; 1 hr. UR; 1 hr. URB	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	1″ to 2″ insulation; Steel deck; 8″ bar joists 48″ o.c.;
	P245 (P238)	1 hr. R; 1 hr. UR	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	3/4″ insulation over 2″ Bldg. Units; 14″ bar joists 84″ o.c.; Ceiling panels back-loaded w/ 6″ fiberglass
	P246	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; [GR-1]	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—20%; 2 x 4—24%; 2 x 4 HID; Incandescent type, 6-1/2″ diam.	576 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8″ bar joists 72″ o.c.; W8 x 15 beam

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Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Roof/Ceiling Designs Exposed Grid System and Lay-In Panels (continued)	P254	1 hr. R; 3/4 hr. UR; 3/4 hr. URB	3/4 FR-81; 3/4″ FR-83	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2 or 2 x 4—24%; Incandescent type, 6-1/2″ diam.	113 sq. in.	Unlimited insulation; Gypsum wallboard; Steel roof deck, 10″ bar joists 48″ to 72″ o.c.
	P255	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83 FR-X1; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	57 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8″ bar joists 72″ o.c.; W8 x 15 beam
	P257	1hr. UR	FR-83 FR-X1; [GR-1]	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXZA, SDXLA	Fluorescent type, 2 x 4—25%	255 sq. in.	4-7/8″ insulation; Gypsum wallboard over steel deck; 7-1/4″ steel "C" joists 24″ o.c.
	P268	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	3/4″ FR-81; 3/4″ FR-83; 5/8″ FR-4; FR-X1	2 x 2	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%	576 sq. in.	Metal roof deck panels; glass fiber insulation; steel roof purlins 60″ o.c.; ceiling panels backloaded w/6″ fiberglass
	P269	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-83; FR-X1; FR-4; [GR-1]	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.—1.4%	255 sq. in.	Insulating concrete; Steel deck; 10″ bar joists 48″ o.c.; W8 x 15 beam
	P203	3/4 hr. R; 3/4 hr. UR; 3/4 hr. URB	FR-83; M; FR-X1; [GR-1]	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%	113 sq. in.	Steel deck 1″ to 2″ insulation 8″ bar joists 60″ o.c.

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Concrete/Steel Deck Floors Over Steel Beams	D501	2 HR-R 1-1/2 HR-UR 2 HR-UBR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2″ ltwt. concrete on Min. W8x17 beams
	D502	2 HR-R & UR 2 HR-UBR	5/8″	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq. in.	Min. 2-1/2″ normal wt. concrete topping on Min. W8x28 beams
	D503	2 HR-R & UR 2 HR-UBR	5/8″	SHEETROCK FIRECODE C	6″dia. incandescent 4 per 100 sq. ft	N/A	Min. 2-1/2″ normal wt. concrete on 2″ steel deck on min. W12x19 beams .
Concrete/Expanded Lath Floors Over Steel Joists and Beams	G523	2 HR-R & UR 3 HR-UBR	5/8″	SHEETROCK FIRECODE C 1P-X2	2x4 (24%)	144 sq. in.	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G524	2 HR-R & UR 2 HR-UBR	1/2″	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	N/A	113 sq. in.	Min. 2-3/4″ or 2-1/2″ lt wt. or normal wt. concrete topping on min. 8″ or 10″ Hambro joists, respectively, and min. W8x24 beams
	G525	2 HR-R & UR 2 HR-UBR	5/8″	SHEETROCK FIRECODE C	N/A	113 sq. in.	Min. 3-1/2″ or 3-1/4″ normal wt. concrete topping on Min. 8″ or 10″ Hambro joists, respectively, and W8x24 beams
	G526	2 HR-R & UR 2 HR-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (25%)	57 sq.in	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G527	2 HR-R & UR 3 HR-UBR	1/2″	SHEETROCK FIRECODE C 1P-X2 & 1PC-AR	N/A	N/A	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G528	1-1/2 HR-R & UR	1/2″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2-1/2″ normal wt. concrete topping on Min. 10J2 joists
	G529	2 HR-R & UR 2 or 3 HR-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-1/2″ normal wt. or ltwt. concrete topping on Min. 10J2 joists and W8x24 beams
		3 HR & UR 3 HR-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 3-1/4″ normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
		3 HR-R & UR 3 HR-UBR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-3/4″ normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
	G531	2 HR-R&UR 2 HR-UBR	1/2″	SHEETROCK FIRECODE C	1x1 (1%)	144 sq. in.	Min. 3-1/4″ normal wt. concrete Min. 6″ D500 steel joist
		1 HR-R&UR	5/8″	SHEETROCK FIRECODE	1x1 (1%)	144 sq. in. (1%)	Min. 2-1/2″ normal wt. concrete Min. 6″ D500 or D510 steel joist
	G541	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	2x4	113 sq. in. (24%)	Min. 3-1/2″ normal wt. concrete Min. 7-3/16″-deep, 18-ga. steel C-joists
	G546	1 HR-R&UR 1 HR-UBR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2″ normal ltwt. concrete light-gauge steel truss
	G547	2 HR-R&UR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 2-1/2″ normal wt. concrete Min. 8J2 or 10K1 steel joists
		3 HR-R&UR 3 HR-UBR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 3″ normal wt. concrete Min. 8J2 or 10K1 steel joists
	G551	1 HR-UR	5/8″ one or two layers	SHEETROCK FIRECODE C	N/A	N/A	1″ Levelrock, steel deck, 9-1/4″-deep steel C-joists @ 24″ o.c., 3-1/2″ insulation, RC-ls @ 24″ o.c.
Precast Concrete Floors	J502	2 HR-U & UR 3 HR-R & UR	5/8″ 5/8″	SHEETROCK FIRECODE C SHEETROCK FIRECODE C	NA NA	NA NA	Min. 2″ normal wt. concrete slab Min. 2-3/4″ normal wt. concrete slab
Wood Joists	L211	2 HR-UR 75 min finish rating	1/2″	SHEETROCK FIRECODE C	1x4 (12%) 2x2 (16%) 2x4 (24%) 20″x48″ (20%)	576 sq. in..	T & G or plywood (see 6 alternatives) over subfloor on 2x10 joists @16″ oc, plus P237- ceiling const.
	L502	1 HR-UR 22 min finish rating	1/2″	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G or plywood (see 14 alternatives) over subfloor on 2x10 joists @ 16″ o.c.
	L508	1 HR-UR 29 min finish rating	5/8″	SHEETROCK FIRECODE C 1P-X1, 2P-X2, 2PC-AR, SCX, SYX, & WRX	N/A	N/A	T & G or plywood on 4x10 or DBL 2x10 joists

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Wood Joists	L513	1 HR-UR 28 min finish rating	5/8"	SHEETROCK FIRECODE C	N/A	N/A	3/4" T & G w/ adhesive on 2x10" joists @ 24" o.c., drywall battens at joints (see 15 alternatives)
	L515	1 HR-UR 21 min finish rating	1/2"	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G over subflooring on 2x10 joists @ 16" o.c. (see 9 alternatives)
	L523	1 HR-U 21-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	198 sq. in.	Finish floor over 5/8" plywood on 2x10 joists @ 16" o.c. max.
	L525	1 HR-UR 21 min finish rating	1/2" or 5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq. in.	T & G or plywood over subflooring on 2x10 joists @ 16" o.c.(see 12 alternatives)
	L526	1 HR-UR 22 min finish rating	5/8"	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	114 sq. in.	T & G or plywood over on 2x10 joists (see 10 alternatives)
Plywood with Wood Truss	L521	1 HR-U 25-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	324 sq. in.	Finish floor over plywood subfloor on min. 18"-deep wood truss @ 24" o.c. max.
	L529	1 HR-UR 22 min finish rating	5/8"	SHEETROCK FIRECODE C 1P-X2, 2PC-AR	2x4 (24%)	57 sq. in.	T & G wood floor or ltwt insulating concrete over subflooring (see 16 alternatives) on trusses @ 24" o.c. max
	L550	1 HR-U 23-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	360 sq. in.	Finish floor over T&G plywood subfloor on min.-18" deep wood truss @ 24" o.c. max.
Plywood with Steel C-Joists or Light-Gauge Steel Truss	L524	1 HR-R&UR	1/2" two layers	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over plywood subfloor on min. 7"-deep steel C-joist
	L548	1 HR-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	7/8" T&G plywood on min. 11-3/8"-deep, 16-ga. steel truss @ 24" o.c. max.
	L549	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L551	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L552	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L553	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L559	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L560	1 HR-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L563	1 HR-UR	5/8"	SHEETROCK FIRECODE C	N/A	256 sq. in.	Wood floor; 2x4 open-web wood truss @ 24" o.c.
	L569	1 HR-UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Wood floor; 2x10 wood joists @ 16" or 24" o.c. when battens (item7) are used.
	L570	1 HR-UR	1/2"	SHEETROCK FIRECODE C	N/A	N/A	Wood floor, 9-1/2"-deep wood I-joists @ 19.2" o.c..

* R = restrained rating
UR = unrestrained rating
UBR = unrestrained beam rating

Fire-Rated Ceiling Assemblies

Flat Drywall Suspension Designs

Roof/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Double Ceiling Roof Assemblies	P237	2-HR-R & UR 2-HR-UBR	1/2″	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20″x48″ (20%)	576 sq. in.	Roof system on steel roof deck, min. fiber 8H3 or 10k1 min @ 72″ o.c. max
	P239	1-1/2 HR-R & UR 1-1/2 HR-UBR	1/2″	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20″x48″ (20%)	576 sq. in.	Roof covering of gypsum concrete over USG form board, subpurlins and 12J3 joists w/ w6x16 beam.
	P241	2 HR-R & UR	1/2″	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20″x48″ (20%)	576 sq. in.	Roof covering over over insulating concrete on steel roof deck and 10J3 min joists @ 48″ o.c.
Mineral and Fiber Board on Building Units or Precast Concrete	P501	1 and 2 HR-R & UR	5/8″	SHEETROCK FIRECODE C 2P-X2 & 2PC-AR	N/A	N/A	Roof covering over mineral and fiber board on building or precast concrete units, 14J5 joists @ 48″ o.c. max.
Gypsum Plank, Insulation Board	P506	1-1/2 HR-R & UR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering over min & fiber boards. on gypsum planks, subpurlins and 12 H5 joists @48″ o.c. max.
	P508	1 HR-R & UR	5/8″	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq in	Roof covering over min & fiber boards (see alt) gyp wallboard., steel roof deck, 10J4 joists (min) @48″ o.c.
Insulating Concrete	P507	1-1/2 HR-R 1 HR-UR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering on foamed plastic insulation, Gypsum conc and form boards. on subpurlins and 10J4 joists (min) @ 4′ o.c.
	P509	1 HR-R & UR 1 HR-R	5/8″	SHEETROCK FIRECODE C`	2x4 (24%)	144 sq in	Roof covering on foamed plastic insulation, Gypsum conc. and form boards. on subpurlins and 10J4 joists (min) @ 4′ o.c.
Corrugated Steel Deck w/Insulated Board or Foam Plastic Insulation	P510	1 & 1-1/2 HR-R & UR	1/2″ & 5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering over insulation (see alt) on gypsum wallboard steel roof deck, 10J4 joists (min) @ 72″ o.c. max.
	P513	1-1/2 HR-R & UR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	144 sq in	Roof covering on insulating concrete and foamed plastic over corrugated steel deck, 10J4 steel joists @ 48″ o.c.
	P514	2 HR-R & UR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	255 sq in	Roof covering over insulation (see 9 alternatives), gyp. wallboard and steel deck, 8H3 steel joists @ 48″ o.c.
	P516	1 HR-UR	5/8″ (2 layers)	SHEETROCK FIRECODE C	NA	NA	Metal roof deck panels on Min. 8″ deep C-or-Z-shaped purlins @ 60″ max, glass fiber insulation between roof deck panels and steel roof purlins, W-shaped beam
	P518	1 HR-R&UR 1 HR-UB	1/2″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over steel deck on min. min. 8″-deep, 18-ga. steel C-joists @ 24″ o.c. max.
Engineered Steel Or Wood Roof Truss	P515	1 HR-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over mineral and fiber board on steel roof deck over steel roof trusses @ 48″ o.c. max.
	P521	2 HR-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over foamed plastic insulation, gypsum wallboard, steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P522	1 HR-UR	5/8″	SHEETROCK FIRECODE C	N/A	196 sq. in.	Roof system over 15/32″ plywood on wood trusses @ 24″ o.c. max.@ 24″ o.c. max.
	P523	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.

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Flat Drywall Suspension Designs

Roof/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Engineered Steel Or Wood Roof Truss	P525	2 HR-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof membrane or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P526	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P527	1-1/2 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P528	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P529	1-1/2 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P530	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P531	1 HR-UR	5/8″	SHEETROCK FIRECODE C	N/A	360 sq. in.	Roof system over 15/32″ plywood on wood trusses @ 24″ o.c. max.
	P534	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P535	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck over mineral and fiber board or foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over light-gauge steel trusses @ 48″ o.c. max.
	P536	2 HR-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wall-board over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P537	1 HR-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywwod or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.

Fire-Rated Ceiling Assemblies

USG

General Notes

1. Hanger wire should be located between the main tee splice and the expansion relief notch and a maximum 48″ o.c., or per the requirements of the specific UL design.
2. All 60″ cross tees are to have hanger wires at their midpoint.
3. Assemblies are tested with the method and criteria established in Standard UL 263, also known as A2.1, ASTM E119 and NFPA 251.

4. Hold-down clips are required when fire-rated board weighs less than 1.0 lb./sq. ft.
5. % Fixtures column indicates 24″ x 48″ fixture only, unless noted. Check for suspension requirements.
6. Some designs pertain to DXL only. Contact UL Fire Resistance Directory and revisions to confirm all information listed in these tables.
7. DXLR and ZXLA are also listed by UL.

8. DXL has been used in many other industry fire tests and listed in reports such as the National Evaluation Reports, for example, NER-148 and NER-399 (wood truss constructions).
** Check UL Designs for deck options.

UL Abbrevations
(See UL Directory for details)

R = Restrained assembly
UR = Unrestrained assembly
URB = Unrestrained beam
FIRECODE Cast Panels
AP or AP-3 = SANDRIFT CLIMAPLUS, GLACIER, FROST, "F" FISSURED
AP-1 or AP-2 = SANDRIFT CLIMAPLUS, FROST, GLACIER, "F" FISSURED

FIRECODE Panel
FC-CB = SHEETROCK Brand Lay-In Ceiling Panel CLIMAPLUS
FIRECODE Water-Felted Panels
Astro-FR = ASTRO CLIMAPLUS
FR-X1 = ECLIPSE CLIMAPLUS, MILLENNIA CLIMAPLUS
FR-83 = ASPEN, FISSURED, PEBBLED CLIMAPLUS, RADAR, RADAR CLIMAPLUS, RADAR CLIMAPLUS High NRC/CAC, ROCKFACE CLIMAPLUS, TOUCHSTONE

FR-4 = RADAR Ceramic CLIMAPLUS
M = CLEAN ROOM CLIMAPLUS

Report Compliance

L.A. Research Report Compliance
DONN brand suspension systems manufactured by USG Interiors, Inc. comply with one or more of the following L.A. Research Report numbers: 22179, 23541, 24095.

ICBO 2244 and 1939 Research Reports

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Warranties and
Limitations

Lifetime (30-Year) Limited Warranty

All USG Donn® brand suspension systems, when used with any USG ceiling panels or tiles or Sheetrock® brand gypsum lay-in ceiling panels, carry a lifetime (30-year) warranty that our products shall be free from manufacturing defects and that the suspension systems shall be free from the occurrence of 50% red rust.

USG ceiling panels and tiles with ClimaPlus™ performance are specially formulated to endure environments with up to 100% relative humidity and temperatures up to 104 °F. These panels carry a limited warranty against visible sag for up to 30 years when installed in a Donn suspension system.

Controlled laboratory tests have demonstrated the effectiveness of USG ClimaPlus mineral-fiber ceiling panels treated with a patented antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast and odor/stain causing Gram-positive and Gram-negative bacteria.[1] This formulation is a broad-spectrum antimicrobial treatment applied to panel face and back surfaces.

In addition, USG ClimaPlus Superior Performance ceiling panels (all Astro™ panels and tile, select Eclipse™ panels, and all cast-mineral-fiber ClimaPlus panels) treated with USG's high-performance, broad-spectrum antimicrobial surface formulation have shown superior performance when tested against untreated panels per ASTM D3273-00[2] and evaluated in accordance with the ASTM D3274-95[3] rating scale.

After a 28-day incubation period, USG ClimaPlus Superior Performance ceiling panels tested in accordance with ASTM D3273-00 and evaluated per ASTM D3274-95 have achieved a 10 rating. This is the highest rating achievable and signifies "no growth."

ClimaPlus Superior Performance ceiling panels and tiles are the only standard ceilings products on the market with a limited lifetime (30-year) warranty against mold and mildew growth, subject to use under normal conditions. ClimaPlus Superior Performance products include:

– Astro ClimaPlus panels and tile
– Brio™ ClimaPlus panels
– Select Eclipse ClimaPlus panels
– Fresco™ ClimaPlus panels
– Frost™ ClimaPlus panels
– Sandrift™ ClimaPlus panels
– Summit™ ClimaPlus panels

ClimaPlus Superior Performance products feature a USG-patented antimicrobial treatment that provides broad-spectrum control for mold/mildew, fungi, yeast, algae, and bacteria over the warranty period.

When installed in a Donn suspension system, these panels are guaranteed for the lifetime (30 years) of the product, subject to use under normal conditions, to inhibit or retard microbial growth on product treated surfaces that can result from high humidity conditions.

Continued mold inhibition cannot be assured if ceiling panels and tile with ClimaPlus Superior Performance are installed in or exposed to abnormal conditions. Abnormal conditions include chemical fumes, vibrations or moisture coming in direct contact with the ceiling, such as building leaks or condensation.

Notes
1. See SC2451 for a complete list of qualifying products.
2. Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
3. Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.

USG

Warranties and Limitations

By "lifetime" we mean the useful life of the ceiling system, up to a maximum of 30 years.

In addition, these panels are warranted against visible sag.
The CLIMAPLUS warranty periods for these and other USG products and systems are as follows:

Warranties
(Defects, Panel Sag, 50% Red Rust)

Ceiling Systems	Panel/Tile	Suspension System
CLIMAPLUS Ultra Panels & Tile plus DONN Suspension System	Lifetime 30 Years	Lifetime 30 Years
CLIMAPLUS Panels & Tile plus DONN Suspension System	15 Years	Lifetime 30 Years
All Other USG Ceiling Panels & Tile plus DONN Suspension System	1 Year	Lifetime 30 Years
USG Specialty Ceilings	1 year	—

Individual Products	Panel/Tile	Suspension System
CLIMAPLUS Ultra Panels & Tile	10 Years	—
CLIMAPLUS Panels & Tile	10 Years	—
All Other USG Ceiling Panels & Tile	1 Year	—
DONN Suspension Systems	—	10 Years

All warranties are subject to the following terms and conditions:

Who is covered?

Except where stated otherwise on specific product warranties, all USG warranties cover the original owner of the building at the time of installation.

What will USG do?

In the unlikely event of product performance failure, at our election USG will replace the goods or we will refund or credit an amount equal to the (original) purchase price of the goods within warranted conditions.

The building owner is responsible for all costs associated with removal and installation.

What does this warranty not cover?

All ceiling products and systems must be installed and maintained in accordance with current USG written instructions and best industry practice, including the CISCA Handbook and ASTM C 636, "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels." SHEETROCK® brand gypsum panels used with the USG drywall suspension system are not covered.

Also, you must observe the following:

– Care must be taken that the products are not damaged during delivery and while they are stored at the job site.
– The products must always be protected from vibration, direct contact with water including condensation, and chemical fumes, both before and after installation.
– These products cannot be used in exterior applications.

Except for CLIMAPLUS Superior Performance ceiling panels and tiles with USG's patented anti-microbial treatment, the growth of mold is not covered by this warranty nor is it the responsibility of USG.

Damage that may occur from vibrations is not covered by this warranty.

If subject to abnormal conditions, the products should be removed immediately and replaced once conditions are normal.

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Technical Service 800 USG.4YOU
Web Site www.usg.com
Samples/Literature 888 874.2450
Samples/Literature Fax 888 874.2348
Customer Service 800 950.3839

What are the environmental limitations?

CLIMAPLUS Ultra Ceilings Prior to, during, and after installation, the ceiling tiles or panels shall be maintained within the following conditions and free of chemical fumes or vibration. These products include:

60-104 °F (16-40 °C) up to 95% RH	
ASTRO CLIMAPLUS	MILLENNIA® CLIMAPLUS
ASTRO CLIMAPLUS Illusion	MILLENNIA CLIMAPLUS High NRC
ECLIPSE CLIMAPLUS	MILLENNIA CLIMAPLUS Illusion
ECLIPSE CLIMAPLUS Illusion and Pedestals	ORION™ 270 CLIMAPLUS
MARS™ CLIMAPLUS	

CLIMAPLUS Ceilings Prior to, during, and after installation, the ceiling tiles or panels shall be maintained within the following conditions and free of chemical fumes[2] or vibration. These products include:

60-90 °F (16-32 °C) up to 90% RH	60-104 °F (16-40 °C) up to 90% RH	60-104 °F (16-40 °C) up to 95% RH	60-104 °F (16-40 °C) up to 100% RH
ORION 210 CLIMAPLUS	BRIO CLIMAPLUS	HALCYON™ CLIMAPLUS	RADAR Ceramic CLIMAPLUS[1]
	CLEAN ROOM™ CLIMAPLUS Class 100	PREMIER NUBBY™ CLIMAPLUS	
	CLEAN ROOM CLIMAPLUS Class 10M-100M	PREMIER HI-LITE™ CLIMAPLUS Twill	
	FRESCO CLIMAPLUS	PREMIER HI-LITE CLIMAPLUS Kapok	
	FROST CLIMAPLUS		
	SHEETROCK Lay-In Ceiling Panel CLIMAPLUS, CLEAN ROOM		
	SHEETROCK Lay-In Ceiling Panel CLIMAPLUS		
	OLYMPIA MICRO™ CLIMAPLUS		
	OLYMPIA MICRO CLIMAPLUS Illusion		
	RADAR™ CLIMAPLUS		
	RADAR CLIMAPLUS Illusion		
	RADAR CLIMAPLUS High-Durability		
	RADAR CLIMAPLUS High NRC/High CAC		
	ROCK FACE® CLIMAPLUS		
	SANDRIFT CLIMAPLUS		
	SUMMIT CLIMAPLUS		
	TOUCHSTONE™ CLIMAPLUS		
	TRUE™ CLIMAPLUS		

Standard Commercial Ceilings Prior to, during, and after installation the ceiling tiles or panels shall be maintained free of chemical fumes, vibration, and within a temperature range of 60-85 °F (16-29 °C). Relative humidity shall not exceed 70%.

CLIMAPLUS Superior Performance Products The ceiling should be maintained to avoid excessive dirt or dust buildup that would provide a media for microbial growth on ceiling panels protected with USG's patented anti-microbial treatment. Microbial protection does not extend beyond the treated surface as received from the factory, and does not protect other materials that contact the treated surface such as supported insulation materials.

Note
1. RADAR Ceramic ceiling panels with CLIMAPLUS performance will withstand corrosive chemical fumes and contain coatings and/or a formulation to inhibit or retard the growth of mold and mildew.

USG
Warranties and Limitations

Suspension Systems Prior to, during, and after installation, the suspension systems (excluding DXLA™, AX™, ZXLA™ and the USG drywall suspension system) shall be maintained in a temperature range of 60-104 °F (16-40 °C) and relative humidity shall not exceed 90%. DXLA shall be maintained in a temperature range of 60-104 °F (16-40 °C) and relative humidity shall not exceed 95%. AX, ZXLA and the USG drywall suspension system shall be maintained in a temperature range from 60-104 °F (16-40 °C) and relative humidity can be up to 100%. The warranty does not cover rusting that occurs from building leaks or condensation.

General notes

The ceiling panels must not be used to support any material including insulation. Where insulation must be used, it should be no heavier than 0.26 lbs./sq. ft. and installed with the following USG recommendations: insulation must be applied perpendicular to the suspension cross tees with the suspension system supporting the weight of the insulation. Insulation is also not recommended to be used as follows: with FIRECODE® panels, unless specified and use described by Underwriters Laboratories, Inc. Mold or mildew growth on insulation or placed above the ceiling panel or tile are not covered by this warranty.

This warranty does not cover damage caused by fire, water, accident, or by any form of abuse except normal wear and tear.

Please see USG written instructions about proper maintenance, touch up, and repainting of our ceiling systems. Please note that not all products can be repainted and that repainting will affect acoustical performance, appearance, microbial resistance, fire resistance, and ventilation through the ceiling panels or tiles.

Normal environmental conditions must prevail to warrant product performance. This warranty will not cover situations where the panels are subject to vibrations or chemical fumes or where moisture comes in contact with the ceiling panel or tile as a result of a leaking roof, a sweating pipe, a leaking radiator, a flood, condensation on windows, condensation on more subtle surfaces where dew points are reached, humidified air from the HVAC system or any other similar causes.

How do you get service?

You must notify USG of the problem within 30 days of the time the problem first became apparent to you at the following address: USG Interiors, Inc., 550 West Adams Street, Chicago, IL 60661. Please send us any photographs of the problem area as these are often helpful. (Or, call us at 800-950-3839.) We will contact you within 30 days and, if we authorize a replacement or payment, that will be done within 30 days thereafter.

How does state law apply?

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Replacement or refunding the purchase price of defective material shall constitute the sole and total obligation of USG. We shall not be responsible for any labor charges or other installation or replacement costs or for incidental or consequential damages of any nature whatsoever. THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS.

Web Sites
usg.com
sustainableceilings.com
seismicceilings.com

Technical Service
800 USG.4YOU

Samples/Literature
888 874.2450

Samples/Literature E-mail
samplit@usg.com

Samples/Literature/Fax
888 874.2348

Customer Service
800 950.3839

Product Information
See usg.com for the most up-to-date product information.

Note
All products described here may not be available in all geographic markets. Consult your local sales office or representative for information.

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Notice
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Safety First!
Follow good safety and industrial hygiene practices during handling and installing of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.