

Inspiring Great Spaces®









MetalWorks™ Torsion Spring panels with PureWood™ veneer in Light Cherry

PureWood[™] Veneers for the WOOD ENTHUSIAST

MetalWorks[™] Torsion Spring panels in PureWood[™] real wood veneers offer the durability of metal with a natural finish in a variety of sizes.



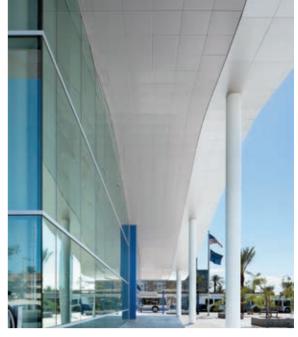
- Monolithic visual with 100% downward accessibility

- Five standard panel sizes install with pre-slotted standard 15/16" suspension system
- Interior panels feature swingdown accessibility
- Easy to install, fully concealed visual on standard suspension system
- PureWood™ real wood veneers available in three standard finishes and perforations for interior installations
- NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)



Reflections[™] LAMINATES

Choose a superior wood-look visual. And now, two Reflections[™] finishes can even connect your interior and exterior designs, bringing the outdoors in.

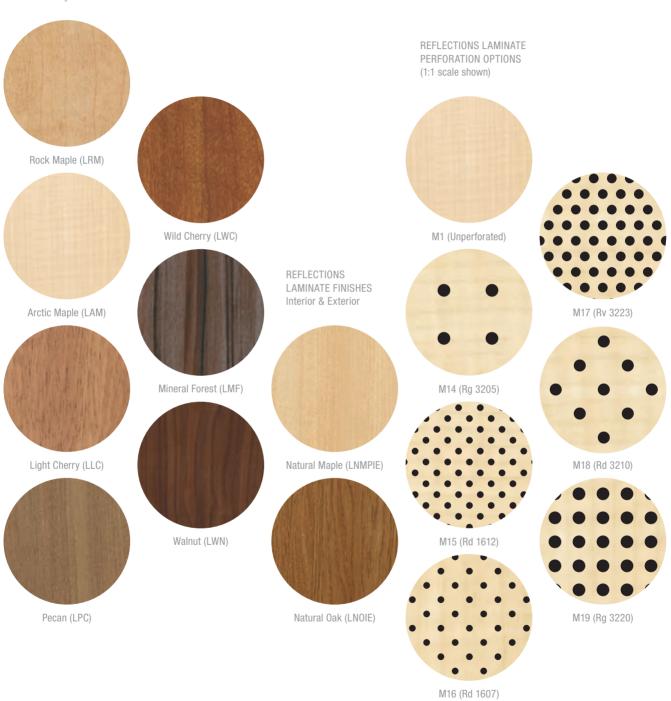


▲ MetalWorks[™] Torsion Spring exterior panels

▼ Custom MetalWorks™ Torsion Spring ceiling and wall panels in Reflections™ laminate finish Rock Maple; Dover High School, Dover, DE



REFLECTIONS™ LAMINATE FINISHES Interior Only

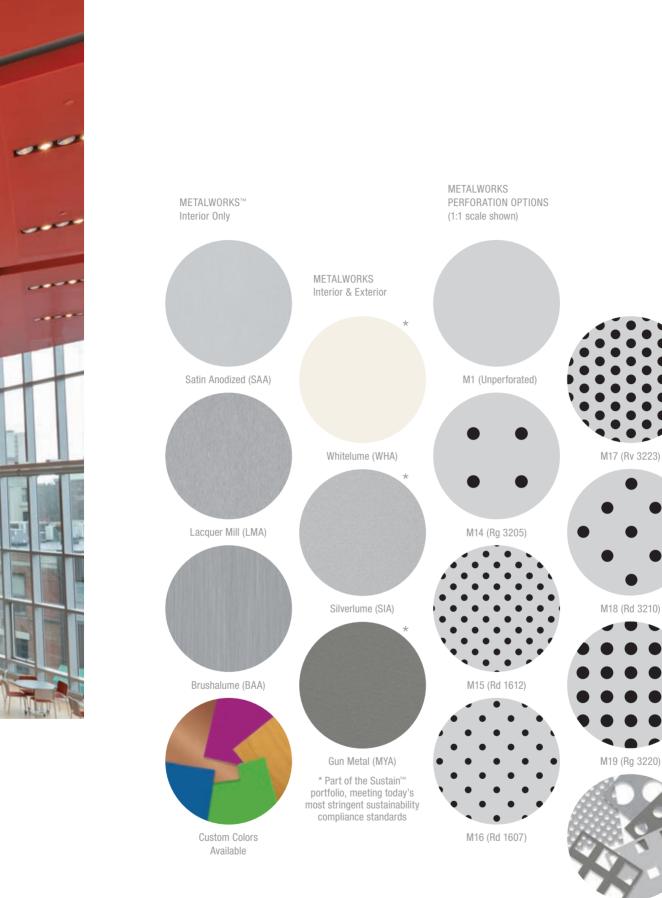




▲ MetalWorks™ Torsion Spring panels; Berklee College of Music Student Center, Boston, MA

Impactful COLORPLAY

Choose from popular metal-look finishes and perforations, or custom colors and perforations, to empower your design. Select finishes on unperforated panels are part of the Sustain™ ceiling systems portfolio, meeting today's most stringent sustainability compliance standards.

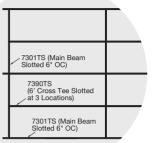


Custom Perforations Available

smooth texture



CAD/Revit® drawings at: armstrongceilings.com



plus... capabilities





armstrongceilings.com/capabilities See more photos at: armstrongceilings.com/photogallery

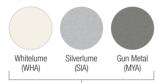
Large-size concealed panels offer a monolithic visual with 100% downward accessibility.

KEY SELECTION ATTRIBUTES

- Now available with PureWood[™] real wood veneers in three standard finishes
- · MetalWorks Torsion Spring is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- · Choose from a variety of standard panel sizes that install with pre-slotted standard 15/16" suspension system
- 48" x 48" panels are available as a premium option
 - Interior panels feature swing-down accessibility
 - · For exterior applications, choose from two standard panel sizes that install with 15/16" G90 suspension system
- Reflections[™] laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- · NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)

COLOR SELECTION Due to printing limitations, shade may vary from actual product.

MetalWorks™ - Interior and Exterior



Part of the Sustain[™] portfolio, meeting sustainability compliance standards

MetalWorks - Interior Only





Custom Colors Available

Reflections™ Laminate Finishes - Interior and Exterior





Natural Maple Natural Oak (LNMPIE) (I NOIF)

Reflections Laminate Finishes - Interior Only





Rock Maple (LRM) (LAM)



(LWN)

PureWood Veneer Finishes - Interior Only



(LPC)



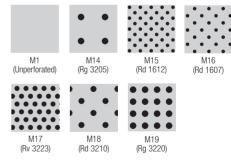
(LMF)



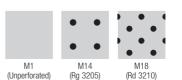
Dark Cherry

PERFORATION OPTIONS (1:2 scale shown)

Painted and Laminate Perforations



PureWood Perforation Options (1:2 scale shown)







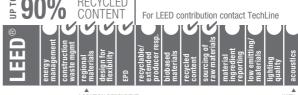
Available



smooth texture

Declare^{sh} Living Building Challenge Compliant

Ceiling Systems Unperforated (M1)



ACOUSTICAL INFORMATION

NRC with NRC with 1"

LOCATION DEPENDENT

Perforation

Dots represent high

PERFORMANCE level of performance.

VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches) W x L Custom Sizes Available	Light Reflect*	Springs per Panel
METALWORKS™	Torsion Spring Squar	re with Acoustical Fleece		
Torsion Spring Square 15/16"	7209	24 x 24"	0.77	4
	7210	24 x 48"	0.77	4
	7211	24 x 72"	0.77	6
	7212	24 x 96"	0.77	6
	7213	30 x 30"	0.77	4
Exterior Panels				
	7225	24 x 24"	0.77** 0.61***	4
	7226	24 x 48"	0.77** 0.61***	4

		acoustical fleece	fiberglass infill panel††
		NRC	NRC
M1 [†]	Unperforated	-	-
M14 [†]	Rg 3205	0.55	0.85
M15†	Rd 1612	0.70	0.90
M16 [†]	Rd 1607	0.70	0.80
M17 [†]	v 3223	0.70	0.90

Available for exterior applications

⋧

Rd 3210

3220 Rg

Maximum NRC achieved with acoustical infill (item 8200100 or 5823)

0.65

0.75

0.85

0.90

For infill panel information, refer to Pg. 156.

NOTE: 48 x 48" panels are available as a premium option

- ◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M 1 4 L M A)

 * Light reflectance is for unperforated Whitelume.
- ** Unperforated Whitelume light reflectance
- *** Perforated Whitelume light reflectance



PHYSICAL DATA

Material

Aluminum – thickness 0.040" Aluminum – thickness 0.060" (item 7226 only)

Surface Finish

Reflections¹⁸ laminates: Vinyl-faced membrane Painted finishes: Factory-applied polyester paint Custom colors and finishes available.

If a composite test report is needed, Class A test reports are available for aluminum Torsion Spring painted and metal finishes, along with Class B test reports for both PureWood™ veneer and Reflections

Fire performance for other finishes will vary depending on the required finish

Code Considerations

The International Mechanical Code requires that materials used in or forming part of an air plenum, have a flame spread index of 25 or less and a Smoke Developed Index of 50 or less on all surfaces of the material including those surfaces that may be exposed by cutting the material. Exception: The IBC states, "Materials having a thickness less than 0.036 inches (0.9mm) applied directly to the surface of walls or ceilings shall not be required to be tested."

Panels finished with PureWood veneers. Reflections laminates, and paint finishes typically have a thickness less than 0.036 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

Acoustical Options

Perforated panels are supplied with a black fiberglass fleece to absorb sound.

imum 25%. Up to 90% recycled content available.

Design ConsiderationsAnodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only. 30" x 30" panels have a directional finish that is perpendicular to the main beams; all other panel sizes have a directional finish that is parallel to the main beams $\mathsf{MetalWorks}^{\scriptscriptstyle\mathsf{TM}}$ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

For PureWood finishes, variation among panels may occur due to the natural characteristics of the wood and grain.

Wind Uplift Performance

24" x 24" and 24" x 48" panels noted as exterior on this document tested for wind uplift Classes 30, 60, and 90. Specific installation instructions to meet these classes are available. For more information, visit armstrongceilings.com or contact TechLine customer support at 1 877 276-7876

Design Support

Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

MetalWorks Torsion Spring panels have been engineered. tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

Warranty

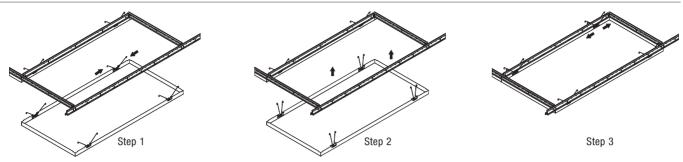
One (1) year limited warranty. Details at armstrongceilings.com

Weight

0.69 lbs/SF 0.86 lbs/SF (item 7226)

Installation Details

HOW TO INSTALL PANELS



INTERIOR INSTALLATION DETAILS -XL7341TS (4' Cross Tee Slotted at 4 7301TS (Main Beam Slotted 6" O.C.) 7301TS (Main Beam Slotted 6" O.C.) XL7341 (Standard 4' Cross Tee) 7210M1 (24" x 48" Standard Torsion Spring Panel) 4 Spring Locations 24.00-7301TS (Main Beam Slotted 6" O.C.) 7301TS (Main Beam Slotted 6" O.C.) 24" x 48" Standard Panel Layout with Main Beams 4' O.C., Standard 4' Prelude® XL® Cross Tees, 4' Slotted Cross Tees 7390TS (6' Cross Tee Slotted at 3 Locations) 30.00 7301TS (Main Beam Slotted 6" O.C.) 7328 (Standard 2' Cross Tee) 30.00 7341 — (Standard 4' Cross Tee) 7378 — (Standard 30" Cross Tee) Suspension System Layout Suspension System Layout Suspension System Layout

for 24" x 72" Panels

for 24" x 96" Panels

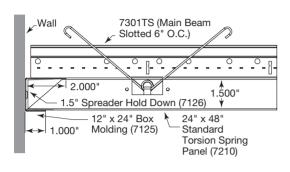
for 30" x 30" Panels

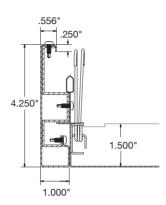
Perimeter Details

INTERIOR WALL PERIMETER DETAILS - For exterior details, consult the MetalWorks Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.

Installation Detail - Wall Perimeter

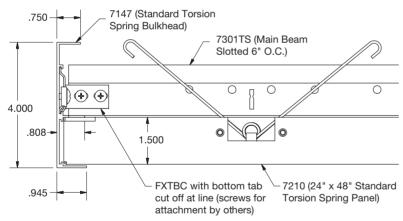
Installation Detail – Perimeter Trim (Formed Trim #7131)



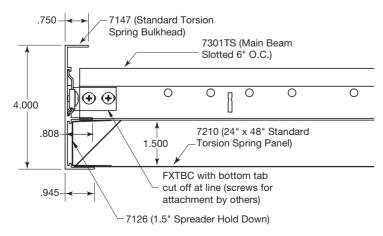


Installation Detail – Perimeter Trim (Extruded Trim #7147)

Full Panels



Cut Panels



Accessories

ACCESSORIES

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
7125	Box Molding (for Laminates and PureWood™, Black is recommended)	2 x 96 x 1.5"	WHA, SIA, MYA, SAA, LMA, BAA, BL	10
7147	Torsion Spring Perimeter Trim (Extruded) (for Laminates and PureWood, Black is recommended)	1 x 120 x 4"	WH, SG, MY, BL	6
7131	Torsion Spring Perimeter Trim (Formed)	1 x 96 x 4.25"	LMA, BAA, SAA	6
7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	10
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
8200100	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
7129	Torsion Spring Hook Access Tool	N/A	N/A	1
7130	Torsion Spring Suction Access Tool	N/A	N/A	1

lacktriangle When specifying or ordering, include the appropriate color code with the item number (e.g. 7131 \underline{K} \underline{M} \underline{A})

Suspension Systems

SUSPENSION SYSTEMS

Item No.	Description	Dimensions (Inches)	
15/16" Prelude® XL® Suspe	ension System – Some items slotted for Torsion Spring. See below.		
7301TS	Prelude XL 12' HD Main Beam — slotted for Torsion Spring	144 x 15/16 x 1-11/16"	
XL7341TS	Prelude XL 4' Cross Tee — slotted for Torsion Spring	48 x 15/16 x 1-11/16"	
XL7390TS	Prelude XL 6' Cross Tee — slotted for Torsion Spring	72 x 15/16 x 1-11/16"	
XL7378	Prelude XL 30" Cross Tee	30 x 15/16 x 1-11/16"	
XL8320	Prelude XL 2' Cross Tee	24 x 15/16 x 1-11/16"	
XL7341	Prelude XL 4' Cross Tee	48 x 15/16 x 1-11/16"	
Exterior Suspension Syst	tem		
15/16" Prelude XL – Some i	items slotted for Torsion Spring. See below.		
7301G90ATS	Prelude XL 12' HD Exterior Main Beam — slotted for Torsion Spring	144 x 15/16 x 1-11/16"	
XL7341G90ATS	Prelude XL 4' Exterior Cross Tee — slotted for Torsion Spring	48 x 15/16 x 1-11/16"	
XL7321G90A	Prelude XL 2' Exterior Cross Tee	24 x 15/16 x 1-11/16"	

TAKE THE NEXT STEP

1 877 276 7876

Customer Service Representatives 7:45 a.m. to 5:00 p.m. EST Monday through Friday

TechLine – Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8:00 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1 800 572 8324 or email: techline@armstrongceilings.com

armstrongceilings.com/commercial

Latest product news

Standard and custom product information

Online catalog

CAD, Revit®, SketchUp® files

A Ceiling for Every Space® Visual Selection Tool

Product literature and samples – express service or regular delivery

Contacts - reps, where to buy, who will install

YOU INSPIRE™ SOLUTIONS CENTER

1 800 988 2585

email: solutionscenter@armstrongceilings.com armstrongceilings.com/youinspire

Design Assistance

Collaborative design

Detail drawings

Specifications

Planning and budgeting

Pre-construction Assistance

Layout drawings for standard and premium products

Project installation recommendations

Contractor installation assistance



helping to bring your one-of-a-kind ideas to life

Revit® Is a registered trademark of Autodesk, Inc.; SketchUp® is a registered trademark of Trimble Navigation Limited; LEED® is a registered trademark of the U.S. Green Building Council. Inspiring Great Spaces® is a registered trademark of AFI Licensing LLC All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2017 AWI Licensing LLC Printed in the United States of America

armstrongceilings.com/torsionspring



