

Deep Textured Architectural Metals  
Custom Fabricated Products

# Contents

4	Patterns
6	Finishes
8	Colored Finishes
10	Benefits
11	Texture in Light
12	Interiors
15	Exteriors
18	Trim-Tex
19	DuoTex
20	Materials
21	Perforations
22	Rigi-Bump®
23	Panels
27	Acoustical Panels
28	Aluminum Panels
29	Elevators
31	Rigi-Grip®
32	Partitions
34	Dining
36	Fabrication
38	Sustainability
39	Technical Data



Unisphere, New York City, NY  
Continents fabricated with Rigidized® Metals' pattern 1UN

For over 75 years, as the originator and world leader of deep textured metals, Rigidized® Metals Corporation has manufactured lasting impressions. We continue to explore the world of textures, finishes, forms and shapes to enhance the performance of all metals.

Our journey has allowed us to develop a one-of-a-kind expertise in how metals can be improved. Many discoveries have created imaginative products and some surprising applications. An environmentally-conscious company, using LEED-certified sustainable, recyclable, green materials and methods, we strive to use less & give you more.

**A proud American manufacturer of metal products since 1940.**

## Deep Textured Patterns

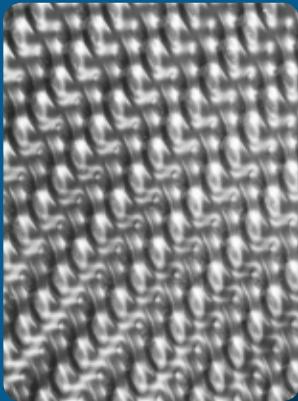
Rigidized® Metals' deep-textured metals are created by a unique process, which enhances the durability and beauty of flat metals. The texturing process can be applied to ALL metals. Patterns here are shown in stainless steel; other materials available include aluminum, carbon steel, copper, brass and titanium. Patterns are available in various widths and thicknesses. Representations of pattern samples shown in the printout may vary slightly from actual product specifications, pattern sizes, and/or colors. Pattern depth varies with gauge. Please refer to page 39 for technical data. For additional pattern information and to request samples, please call 800.836.2580

Maximum pattern widths available:

36"

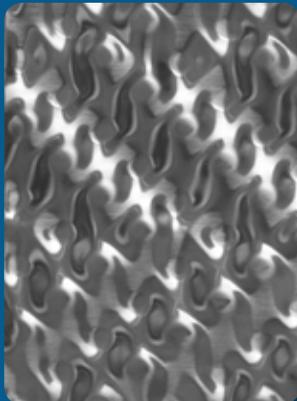
48"

60"



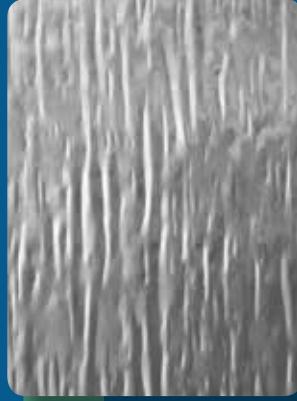
36"

1ACC



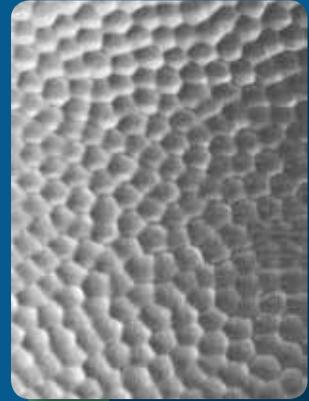
36"

ACC 4i



36"

1CS



36"

1HM



36"/48"

1HR



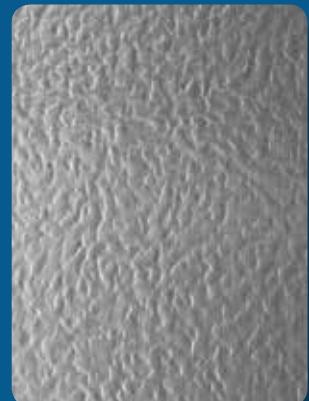
36"/48"

1NA®



36"/48"

1RL



36"/48"

1SLG



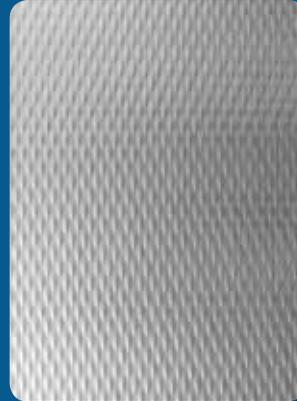
36"/48"

1UN



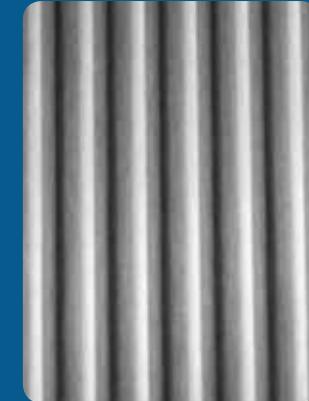
36"/48"

2FL



36"/48"

2WL®

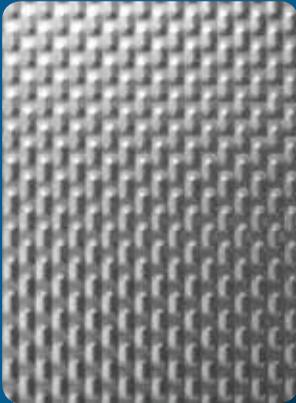


36"/48"

3FL



36"/48" 3ND



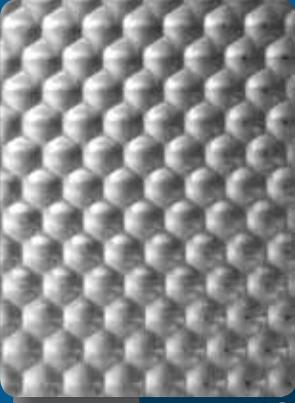
36"/48" 4LB



36"/48" 5HR



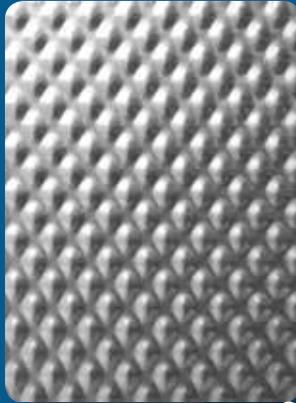
36"/48"/60" 5WL®



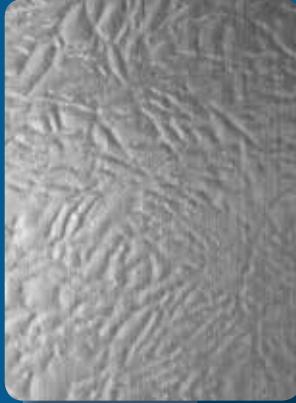
36"/48" 6HC



36"/48" 6SL®



36"/48"/60" 6WL®



36"/48"/60" 60LTH



36"/48"/60" RSS.3



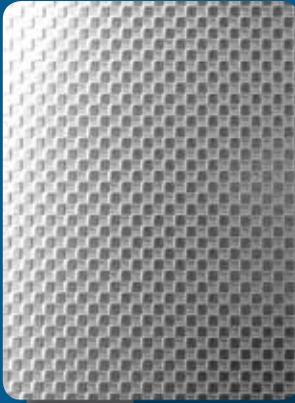
36"/48"/60" RTP®



36"/48" STP



36"/48" XTP



49.21" 3SQ



48" SANDTEX®



49.21" LINEN

## Example Finishes

Rigidized® Metals offers all standard mill produced finishes for both textured and non-textured distribution, as well as specialty polished and embossed finishes.



### #4 Satin

Number 4 finish stainless steel, commonly referred to as “satin” finish, is a general-purpose bright polish that is the most popular choice for architectural applications.



### Hairline Finish

Hairline Finish stainless is commonly referred to as “long-grain” because the grain is considerably more consistent than #4 Finish.



### 2B Mill

2B or “Mill” finish stainless steel is a dull, low-reflective finish with no grain or direction. 2B finish is not commonly used as an architectural quality surface.



### RND Non-Directional Vibration

Rigidized® Metals’ Non-Directional polish is a consistently polished finish that produces a low reflectivity uniform surface.



### B/A Bright Annealed

Bright Annealed stainless steel has a “cloudy mirror” reflective surface.



### Random Swirl

Random Swirl is polished by hand and as the name suggests, is completely random. No two sheets are the same.



### #8 Mirror

#8 polish, or mirror finish, is polished to a mirror quality with subtle grit lines visible.

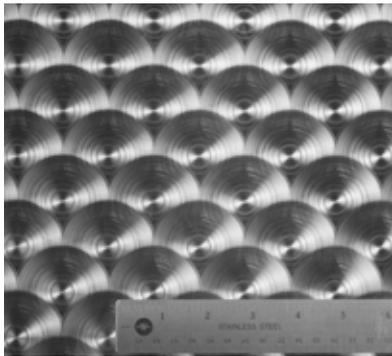


### Dull Bead Blast Bright Bead Blast

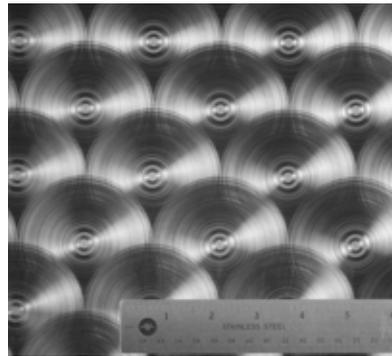
A Bead Blast finish in stainless steel is produced under controlled mechanical conditions to ensure consistency and flatness. We offer this Bead Blast finish in both Dull and Bright (shown).

## Engine Turn Finishes

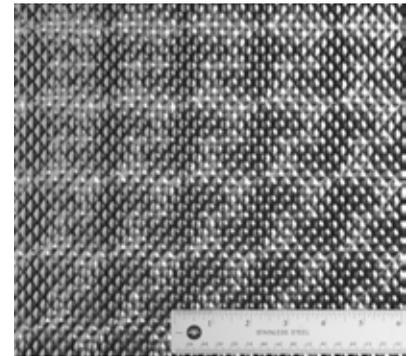
Rigidized® Metals offers full sheet custom polished CNC patterns on both smooth and textured materials.



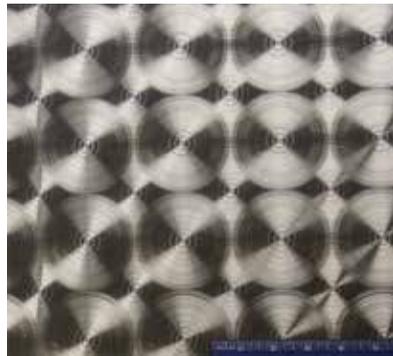
2" Engine Turn



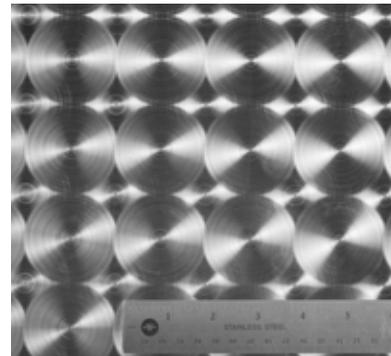
3" Engine Turn



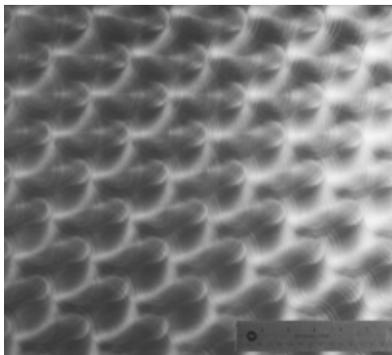
6WL® Engine Turn



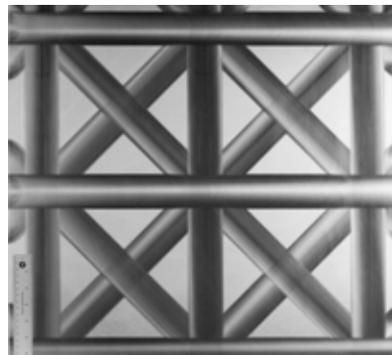
3" Overlay



2" Overlay



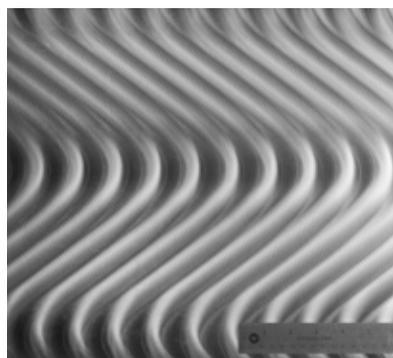
Clouds



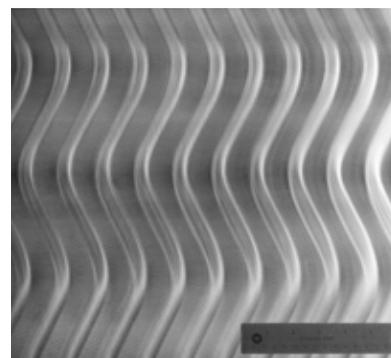
Girder



Nondirectional



Wave B



Wave A

## Colored Stainless Steel

Titanium Nitride (TiN) and Light Interference Coloring (LIC) are hard, inert, thin, and transparent molecular coatings that beautify stainless. TiN and LIC coatings are available in golds, bronzes, blues, and blacks. Colored stainless steel is available in various finishes, including: mirror, satin, non-directional, bead blast and 2B.

Note: Representations of TiN and LIC color samples shown below may vary from actual colors. Colors can be verified by requesting samples.

**All samples shown below have been rolled in Rigidized® Metals' pattern 6WL®. Colored stainless steel is available in all Rigidized® Metals patterns.**



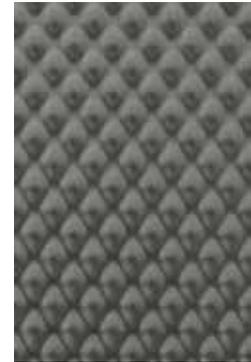
Sky Blue Satin (TiN)



Sapphire Satin (TiN)



Blue Satin (LIC)



Black Satin (LIC)



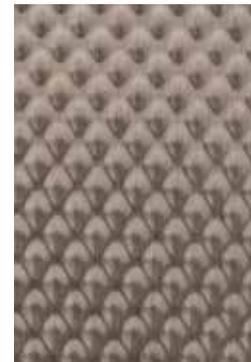
Rose Gold Satin (TiN)



Coffee Satin (TiN)



Gold Satin (TiN)



Bronze Satin (LIC)

## Other Metals



Copper\* (3ND)



Brass Mill\*\*



Muntz Metal\*\*\* (1NA®)



Aluminum Mill



Kynar Coated  
Aluminum (1CS)



Zinc (2FL)

\* Copper is a reddish-colored metal, and will patina over time.

\*\* Brass is the term used for alloys of copper and zinc. Brass will patina over time.

\*\*\* Muntz metal is a form of alpha-beta brass with about 40% zinc and 60% copper. Its primary benefit is that it is a more corrosion-resistant brass alloy. Available in both mill and satin finish, muntz will patina over time.

## Highlighted Metal

The highlighting process polishes the tops of Rigidized® Metals textures to expose the base metal and can be applied to all colored and powder coated Rigidized® Metals textures. Powder coatings are extremely durable, electronically charged and baked on polyurethane enamels. All highlighted metals can be produced in any color. For consistency, we recommend and use the RAL color system for powder coating.

Recommended gauges: .024", .029", .036" (other gauges & sizes may be available upon specific applications)



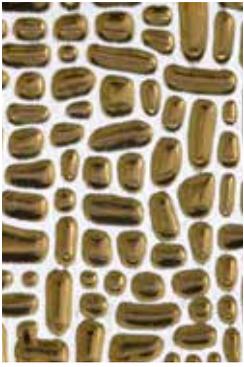
Niagara in Grey (2FL)  
Prime Side  
(Powder Coated)



Allen in Black (RTP®)  
Prime Side  
(Powder Coated)



Nottingham in Bronze Satin  
(1RL) Prime Side  
(Colored SS - LIC)



Cobblestone Gold Mirror  
(1NA®) Non-Prime Side  
(Colored SS - TIN)



Middlesex Blue Mirror (6WL®)  
Non-Prime Side  
(Colored SS - LIC)



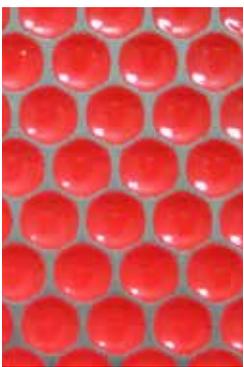
Richmond in Black (4LB)  
Non-Prime Side  
(Powder Coated)



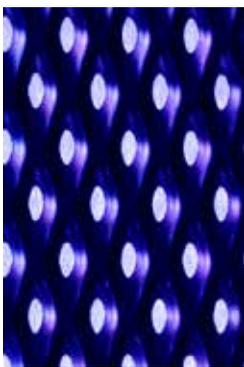
1UN in Black Mirror  
Prime Side  
(Colored SS - LIC)



Delaware in Black (6SL®)  
Prime Side  
(Powder Coated)



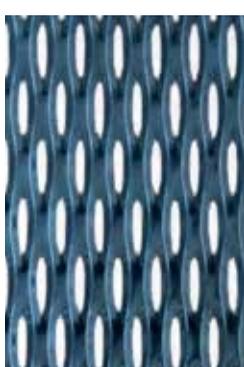
Linden in Red (6HC)  
Non-Prime Side  
(Powder Coated)



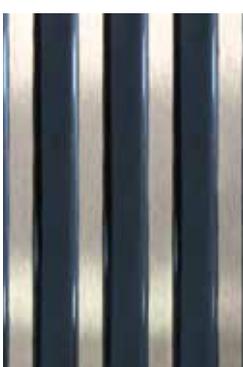
Arlington in Blue Mirror  
(6WL®) Prime Side  
(Colored SS - LIC)



Virginia in Black (5WL®)  
Non-Prime Side  
(Powder Coated)



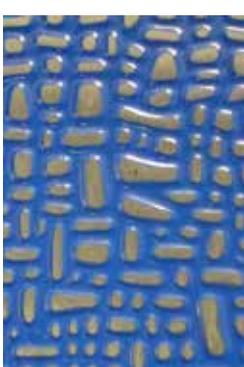
Elmwood in Blue Mirror  
(5WL®) Prime Side  
(Colored SS - LIC)



Niagara in Blue Mirror  
(2FL) Prime Side  
(Colored SS - LIC)



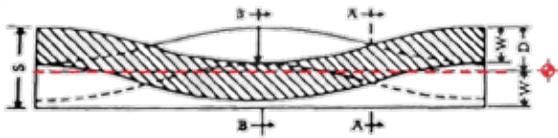
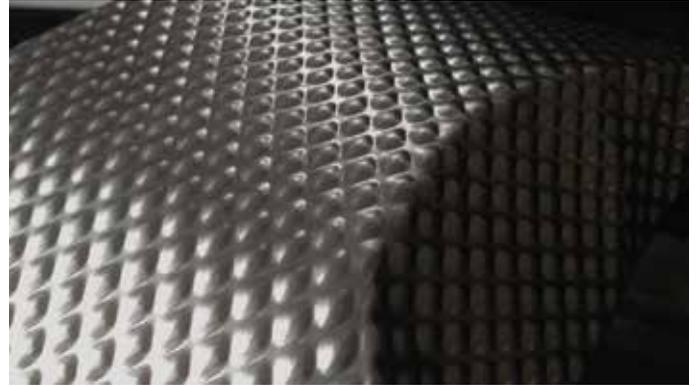
Virginia in Blue (5WL®)  
Non-Prime Side  
(Powder Coated)



1NA® in Royal Blue  
Prime Side  
(Powder Coated)

## Benefits of Deep Texturing

Deep textured metals hide the effects of high-traffic abuse, reduce the appearance of oil canning, provide controlled light reflection, diffuse light, and add structural rigidity and strength, allowing for the use of thinner gauge materials.



Deep texturing is the movement of metal above and below the neutral axis. In addition to the aesthetic appeal that deep texturing provides, the strength and durability of these materials helps reduce maintenance costs, ultimately saving time, resources and money.

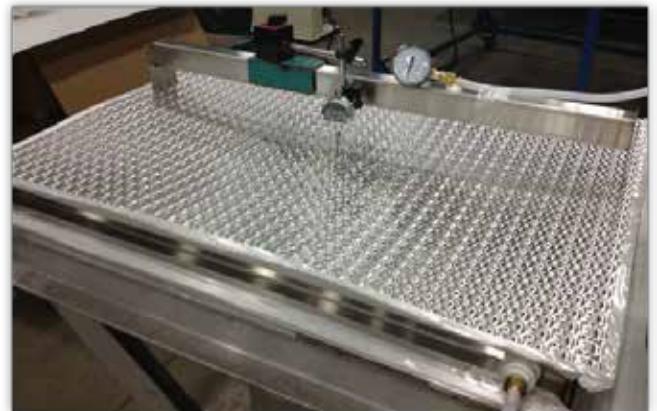


## Hides Abuse

The deep texturing of metals makes the surface appear scratch-resistant, as scratches become far less visible on the textured surface.

## Controlled Deflection

Oil canning refers to the appearance of metal when it deflects. This deflection can be caused by changes in temperature and pressure. While deep textured metal will also experience this deflection, the texture minimizes the amount of deflection as well as lends itself to aesthetically minimizing it. This is a direct result of the additional structural rigidity added to the sheet material through the process of deep texturing.





## Reflections and Highlighting

Stainless steel reflects the light conditions and colors of the surrounding environment, with both natural and artificial lighting effects. With the addition of deep texture, the effect is even more dramatic. Deep textured metals will change in appearance throughout the course of the day, naturally, based on the sun's movement throughout the sky. The deep textured steel "facets" also reflect point light sources, making them excellent choices for LED and special lighting effects.

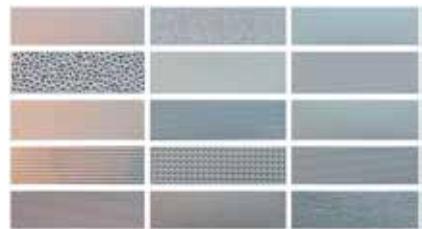
Samples below show natural light reflectivity on textured metal panels throughout the day. These panels are all facing south in sunny conditions. For a complete light study with panels facing all directions in all lighting conditions over an 8 hour period, please contact a representative.



8:00AM



1:00PM



5:00PM



Different colored LED lights shining on a series of Rigidized® Metals deep textured patterns.



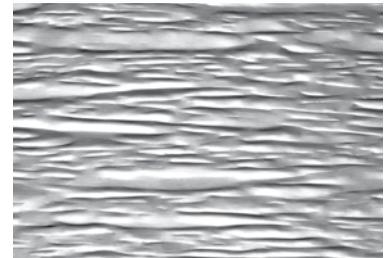
Coastline Design



Giant Eagle Foods



1HM Pattern in Copper (Above)



1CS Pattern (Left)

## Metal Made Better

We texture metals for interior surfaces, creating a richer, more vibrant and aesthetically pleasing environment.



2FL Pattern, Highlighted



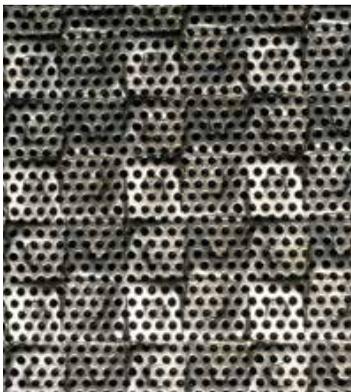
Jacob K. Javits Convention Center



Grand Junction Readiness Center, Grand Junction, CO



2FL Pattern  
Bronze, Highlighted



1RL Pattern, Perforated



(716) Food & Sport, Buffalo, NY



Column Cover

## Increased Durability

These patterned metals offer significantly more durable, longer lasting surfaces.



Middlesex in White (6WL® Pattern, non-prime side)



Desk Front at Coover-Clark & Associates, Inc.  
1RL Pattern, Perforated

## Resilient Interior Components

The durability of Rigidized® Metals' deep-textured metals makes us a leading choice for high traffic, high abuse areas.



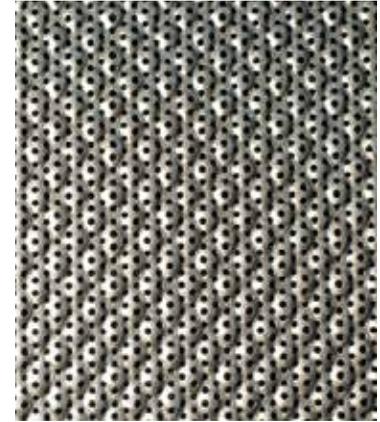
6WL® Pattern



(716) Food & Sport  
5HR Pattern



Conventus Center for Collaborative Medicine, Buffalo, NY



6WL® Pattern, Perforated

## Durability and Aesthetics

Rigidized® Metals' deep-textured materials provide the ability to withstand corrosion, high traffic abuse and moisture, while also being aesthetically pleasing. With textures and coloring options available to reflect light, hide oil canning, and offer durability, Rigidized® Metals' materials are the ideal choice for exterior applications.



Cedar Rapids Federal Courthouse, Cedar Rapids, IA



6WL® Pattern  
Bronze Colored SS

# Exteriors



Sherbourne Common Park, Toronto, Ontario



1UN Pattern



5WL® Pattern  
Bronze Colored SS



Chief Andrew Isaac Health Center, Fairbanks, AK



FedEx Building, Tonawanda, NY



5WL® Pattern



2FL Pattern

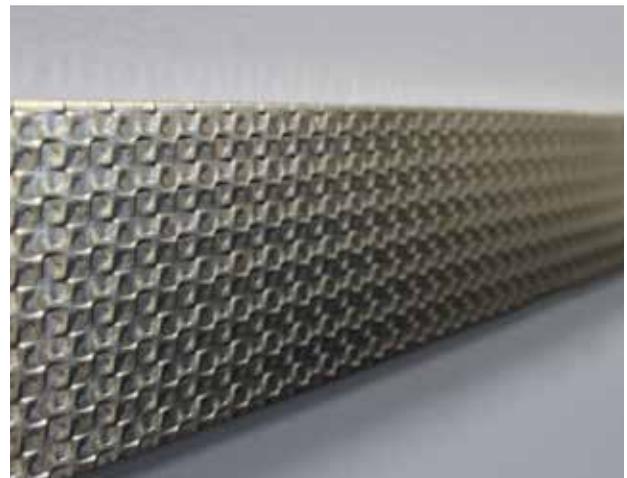
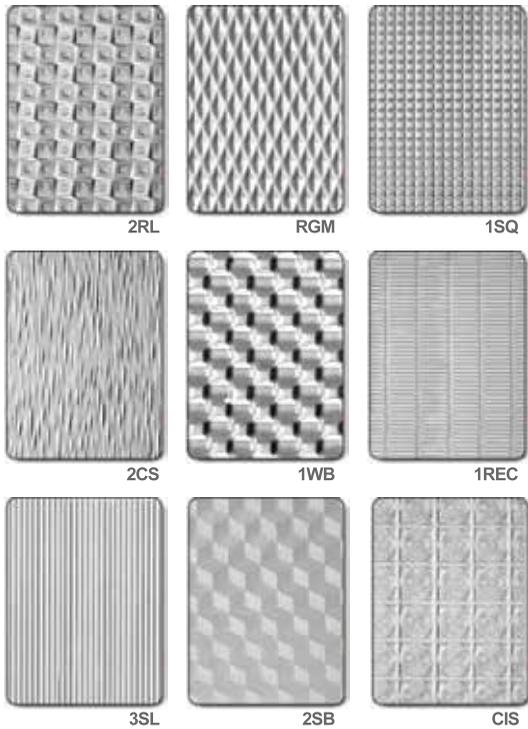


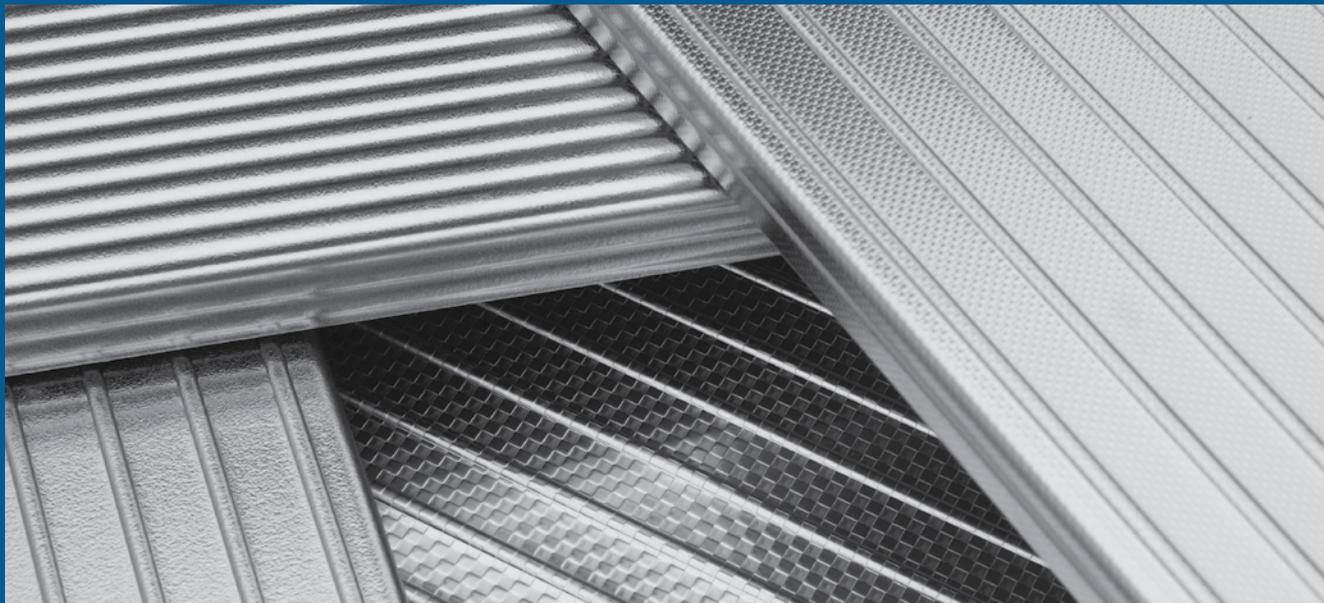
Tower of Hope, Los Angeles, CA

## Trim-Tex

Rigidized® Metals' Trim-Tex metal strips are available in a broad range of ferrous and non-ferrous metals up to 8 inches in width. Primarily rolled in stainless, carbon steel and aluminum alloys, Rigidized® Metals combines lightweight toughness and easy maintenance for long-lasting beauty and durability in a variety of applications including: hand rails, picture frames, metal borders, floor tiles, kitchen appliances, jewelry, walking canes, fishing lures, and electrical switch plates, among others.

The patterns below are available in a maximum width of 8".





## Deep Textures on an Embossed Surface

Rigidized® Metals offers all standard mill produced finishes for both textured and non-textured distribution, as well as coining fine texture on the face of stainless steel sheets. Rigidized® Metals' DuoTex (shown above) line combines the bold presence of our linear deep textures on a refined embossed surface. Rigidized® Metals' deep textured patterns are available in various widths and thicknesses. Refer to page 39 for technical details.

Pattern depth varies with gauge. Patterns are not shown actual size. Maximum widths are shown below each image. Please order sample to see pattern size.



49.21" 1SL LINEN

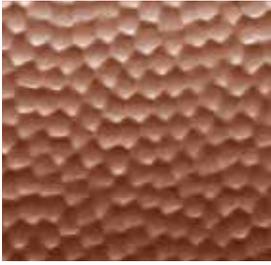


49.21" 1SL 3SQ

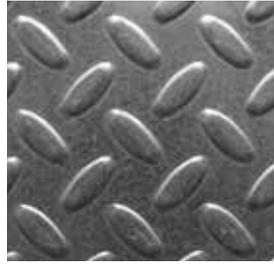


48" 1SL SANDTEX®

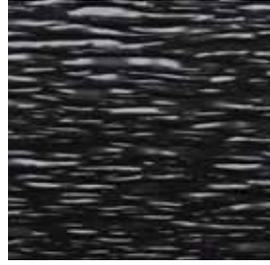
# Materials



Copper  
Pattern 1HM



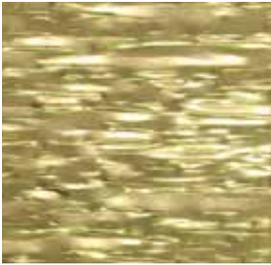
Galvanized Steel  
Pattern RTP®



Kynar Coated Aluminum  
Pattern 1CS



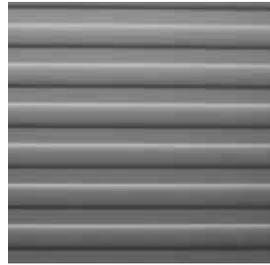
Muntz Metal  
Pattern 1NA®



Brass  
Pattern 1CS



Bright Polished Aluminum  
Pattern 6HC



Zinc  
Pattern 2FL



Bronze  
Pattern 1NA®

## Other Metals

Rigidized® Metals Corporation deep textures all kinds of metals, including stainless steel, aluminum, copper, brass, muntz metal, carbon steel, galvanized steel, titanium, zinc, and Kynar coated aluminum.



High durability stable walls



1HM Pattern  
Copper



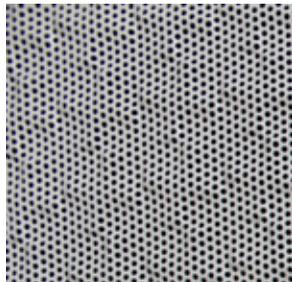
Sun Shade, San Dieguito Lagoon  
6WL® Pattern, Perforated

## Deep Textured Perforated Metal

With the increasing popularity of perforated metal, the demand to add visual interest and strength has led many to request texturing. Perforated stock is textured as a final treatment, giving it an enhanced look with the texture creating a softer glow and reflections of highlights. Contact us for more information on the wide range of materials, gauges and open area.



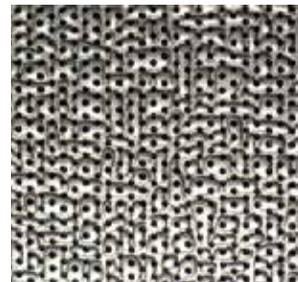
6WL® Pattern



1RL Pattern, White



RTP® Pattern



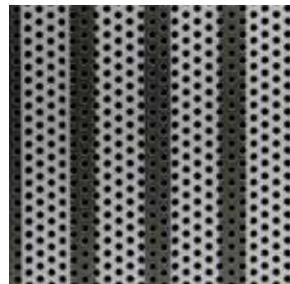
1NA® Pattern



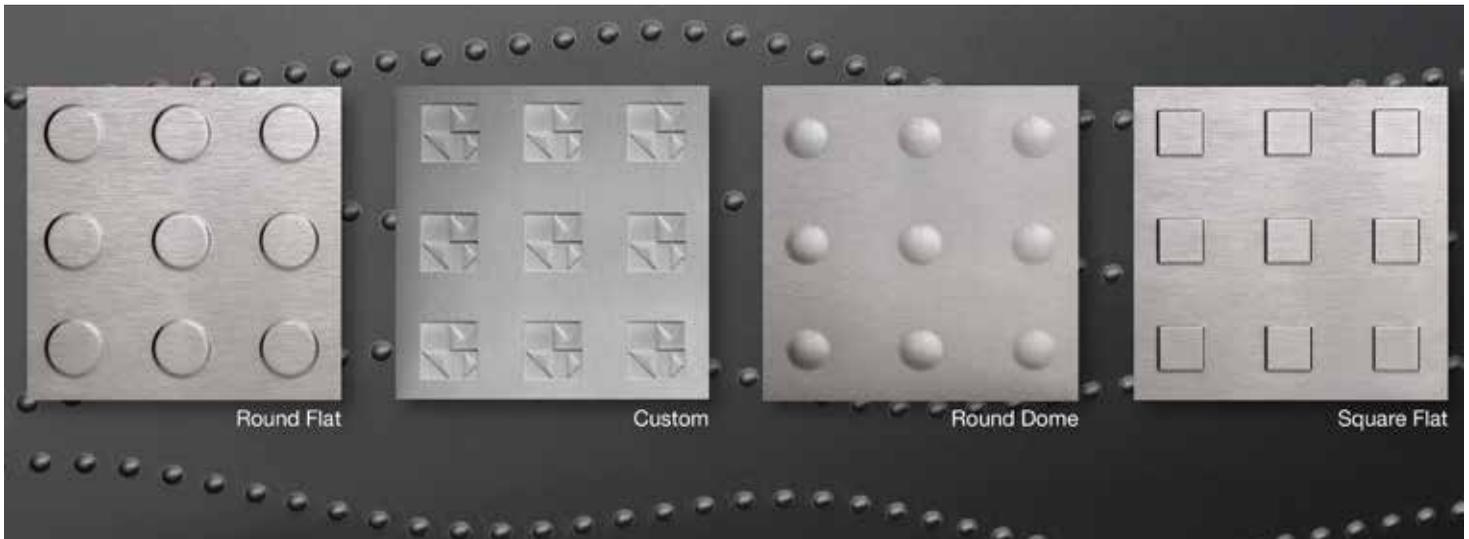
1RL Pattern



1UN Pattern



2FL Pattern, Highlighted



## Custom Architectural Patterns

Rigidized® Metals' Rigi-Bump® is a collection of flat and dome top circular and square impressions pressed into a wide variety of sheet metals. Rigi-Bump® offers limitless design possibilities with custom bump patterns available.

- Standard Sheet Widths - 48"; Sheet Lengths - 96" and 120"
- Available in stainless steel, aluminum, bronze, copper, brass, and mild steel.
- Applications include wall cladding, ceiling tiles, flooring, elevator interiors and doors, entrance doors, column covers, furniture, toilet partitions, and point-of-purchase displays.
- Custom layouts and tooling available at a minimum up-charge.



DaVita Building  
Denver, CO

## Rigi-Bump® Specifications

Type of Bump	Dimension and Shape	Type of Bump	Direction of Bump	Pattern Depth	Max. Thickness	Min. Center Spacing of Bump
RB1	1.000" Round	Flat	Up	0.030"	0.060"	2.000"
RB2	0.750" Round	Dome	Up	0.065"	0.060"	1.000"
RB3	1.375" Round	Flat	Up	0.024"	0.060"	2.000"
RB4	0.875" Square	Flat	Up	0.025"	0.060"	2.000"
RB5	0.375" Round	Dome	Up	0.055"	0.060"	1.065"
RB6	0.250" Round	Dome	Up	0.053"	0.060"	0.750"
RB7	0.500" Round	Dome	Up	0.050"	0.060"	1.125"
RB8	1.500" Round	Dome	Up	0.024"	0.060"	2.000"
RB9	0.625" Round	Flat	Up	0.030"	0.060"	1.300"
RB21	1.500" Square	Flat	Up	0.040"	0.060"	2.000"
RB22	0.250" Square	Flat	Up	0.025"	0.060"	0.625"
RB24	1.000" Round	Dome	Up	0.060"	0.060"	2.000"

Note: Pattern depth is measured from the bottom of the sheet to the bottom of the bump/pattern. Phone customer service for finish, pattern specifications, technical information and samples.



Jacob K. Javits Convention Center  
2FL Pattern, Highlighted



1CS Pattern in Copper

## Panel Systems

Rigidized® Metals panel systems are attractive, durable, and easily installed. Designed and fabricated to your specifications, the possibilities are limitless.



Miami International Airport  
6WL® Pattern

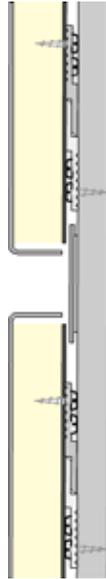
# Panels



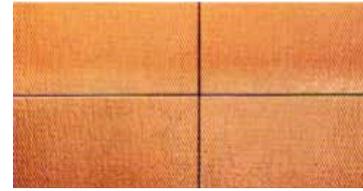
## reveal

Reveal joints allow for the addition of complementary or contrasting elements between the panels. Wood veneers or colored stainless can be used to create a wide variety of effects.

The image of the panels (with reveal), above, are 304 stainless steel with non-directional polish.



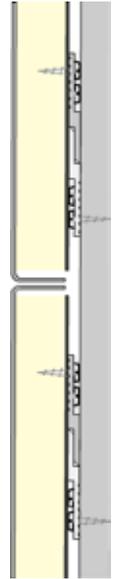
## section view



## butt

Butt joining the panels utilizes the same attachment system without the need for a second material between the panels.

The image of the panels (butted), above, are bronze colored stainless steel with pattern 1CS.

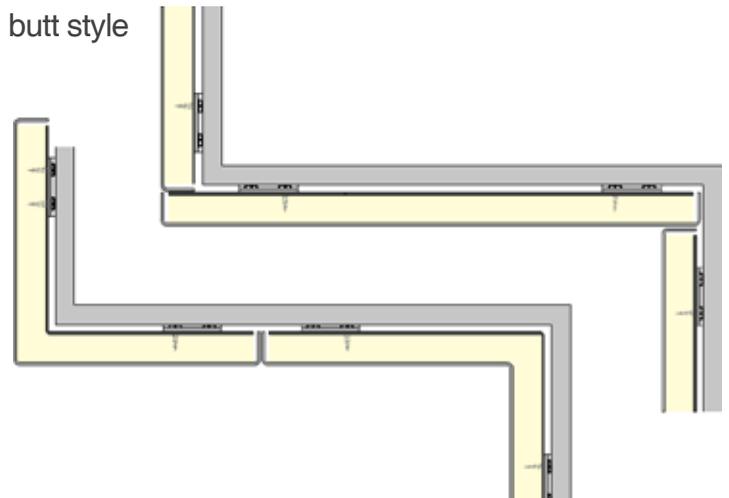


## inside and outside corners

Corners can be detailed by overlapping panels or by fabricating panels "formed" with both inside and outside corners. Formed outside corners can be combined with butt inside corners to save cost and ease installation.

### formed style

### butt style



### plan view

## Z-clip Panel Attachment

Made from extruded aluminum, Z-Clips are the most popular choice of professional installers because they install in minutes. Z-Clips are available in a wide variety of widths and lengths. Simply attach the wall Z-Rail to wall surface and drop in the factory attached panel clip and panel assembly.



### z-clip panel attachment

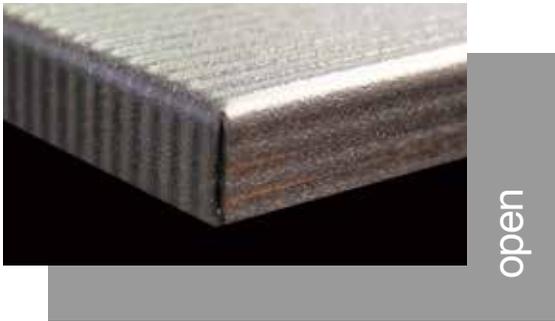


### attachment

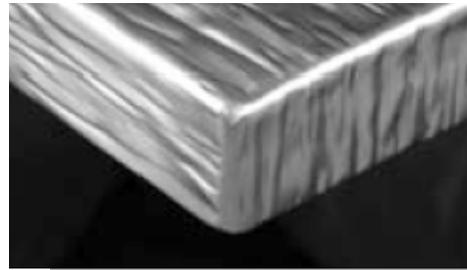
## Panel Face and Corner Types

With certain patterns, texturing 20 gauge material can provide the same impact resistance of 16 gauge ordinary sheet metal. By reducing the gauge of the panel face material, savings are realized with both raw material cost and consumption.

Beautifully finished corners are the hallmark of a superior quality panel manufacturer. Corners exemplify the attention to detail and pride in architectural panel construction. Traditionally, two types of corners are available: open and welded.



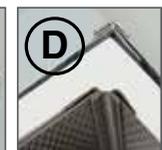
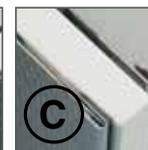
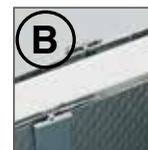
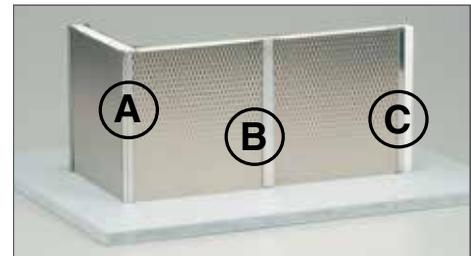
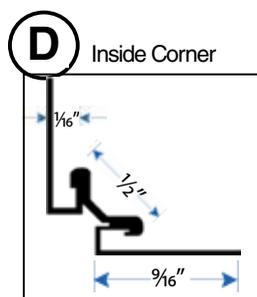
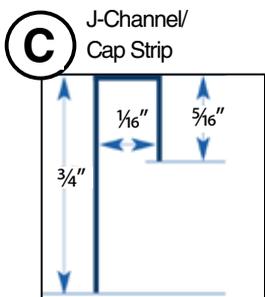
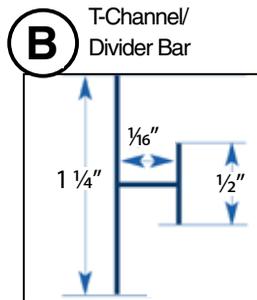
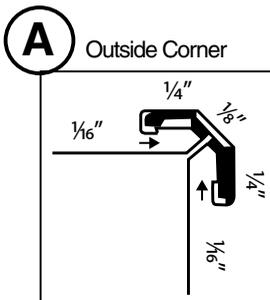
open



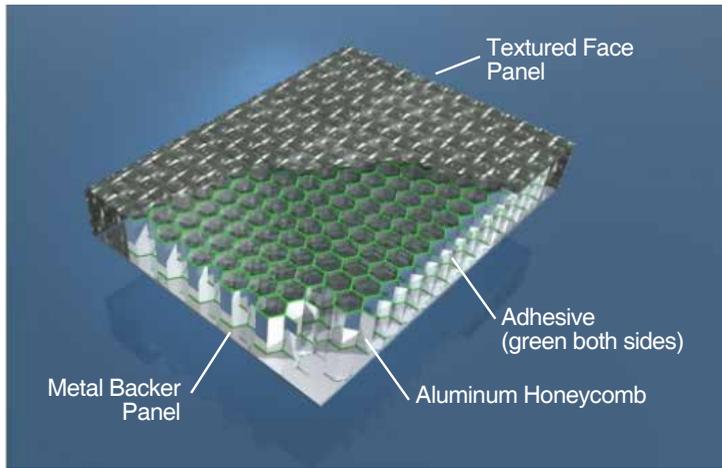
welded

## Trim Strips and Corner Mouldings

Trim strips and corner mouldings complete the easy installation of backsplashes and wall cladding systems. They are made from corrosion resistant 430 stainless steel with a bright annealed finish. They are sold in 12-foot pieces and are easily cut on the spot for simple installation.



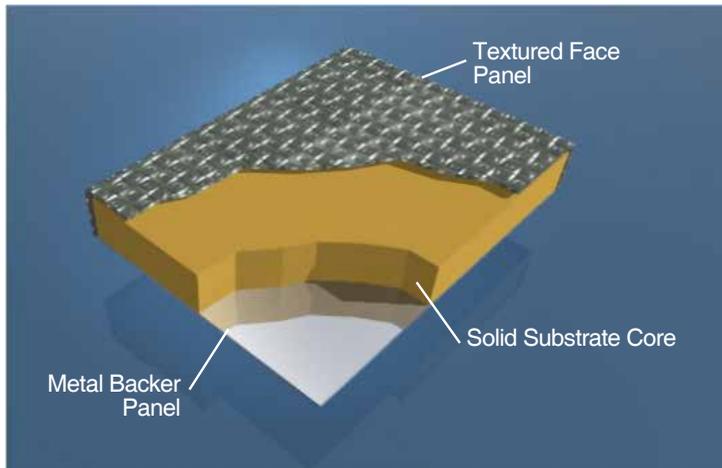
# Panels



## honeycomb

The aluminum honeycomb is laminated with FR adhesive to provide an extremely strong, yet lightweight, panel. Core thicknesses are from 1/4" to 2".

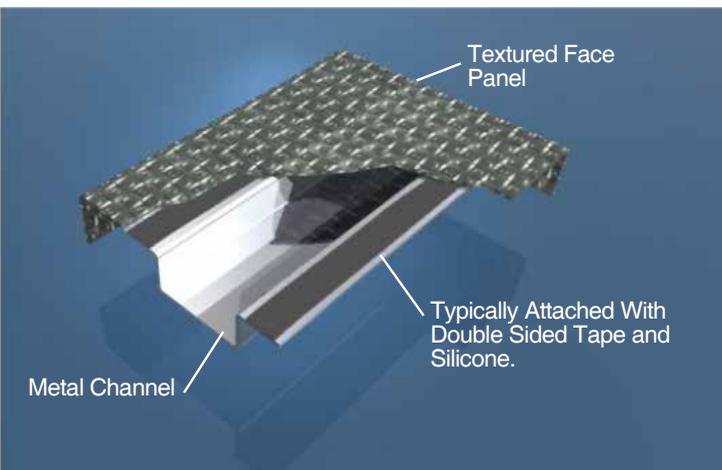
Honeycomb Core



## solid

Solid cores include premium fire rated MDFB laminated with an FR adhesive. Plywood and standard medium density fiberboard are also available. Panel thicknesses are from 1/2" to 2".

Solid Core



## channel

Hat channels are metal elements that stiffen panels and provide mounting points for the attachment of Z-Clips. A feature of hat channels is the ability to create deeper panels (up to 2") without adding significant weight to the assembly.

Hat Channel



(716) Food and Sport, 1RL Pattern, Perforated

## Excellent Acoustical Performance Achieved in Metal

Deep textured perforated metal can meet both the demands of acoustics and add the visual interest only metal can deliver. When panel systems are desired, attachment systems can be added without compromising acoustic performance.

304 Stainless Steel / 20 gauge (.036")

Perf - .066" diameter round on .109" (60 staggered) spacing with 33.09% open area

Current patterns available: 1UN\*, 6WL®, 1NA®, 1RL, 2FL, RTP®

**\*Special Note:** Because of the boldness of 1UN's pattern depth, it cannot easily be break formed (bent to sharp corners).

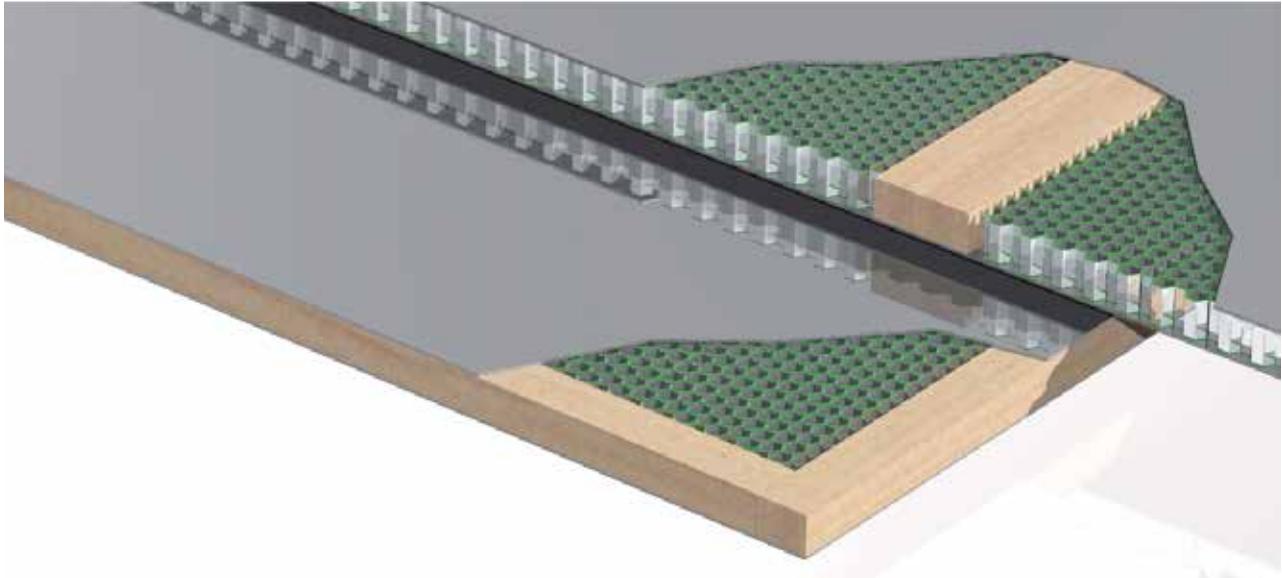
Designers should keep this in mind when designing with pattern 1UN and consult with Rigidized® Metals about fabrication techniques for your specific application.

Rigidized® Metals' 6WL® and 1RL patterns have been tested on perforated stainless steel with both 1/2" and 1" deep acoustic insulation.

Absorption Coefficient A(A/m <sup>2</sup> )				
	Perforated 6WL® 1/2" Acoustical Mat	Perforated 1RL 1/2" Acoustical Mat	Perforated 6WL® 1" Acoustical Mat	Perforated 1RL 1" Acoustical Mat
SAA	0.51	0.52	0.73	0.77
NRC	0.50	0.55	0.75	0.75

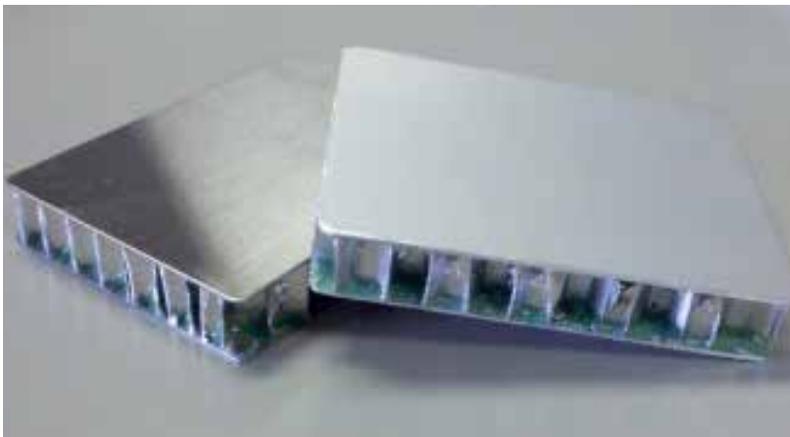


Z-clip attachment  
Retains acoustic transparency  
Custom configurations



## Lightweight Panels for Elevator Cabs

Rigidized® Metals offers Class A Fire-Rated (ASTM E84) aluminum alloy honeycomb and pretreated skin panels. Available with blocking in wood and aluminum at edges and rail locations, these provide a lightweight filler option for elevator cab interiors and wall panel systems.



Rigidized® Metals can provide laminated panels to fit your requirements with cores and adhesives to meet the high demands of the industry. Rigidized® Metals' fabrication department can also provide forming operations to create complete panels, along with CNC routing for cutouts and contours.

Standard thicknesses: 1/4" to 1"

Standard Widths: 48" and 60"

Standard Lengths: 96" and 120"

Custom sizes available upon request.

As with all of our panel systems, Z-clips are available with the option of 0.040" backers for heavier-duty applications or when a thicker backer is required.





## Elevator Doors & Cab Interiors

We have all been in a metal elevator cab that was scratched and beaten. Abused elevators speak volumes about building maintenance, its tenants, and its owners. That's why cab and door manufacturers and elevator consultants recommend Rigidized® Metals for hard working cabs. The durability of Rigidized® Metals deep textured materials offers significant maintenance cost savings and reduced cab operating interruptions.



Elevator Interiors by SnapCab DuoTex Pattern 1SL/Sandtex®



5WL® Pattern

# Elevators



Pattern 5HR

Nearly all elevator cab and door manufacturers are customers. Simply specify the Rigidized® Metals pattern, finish and gauge of your choice.



Pattern 5WL®

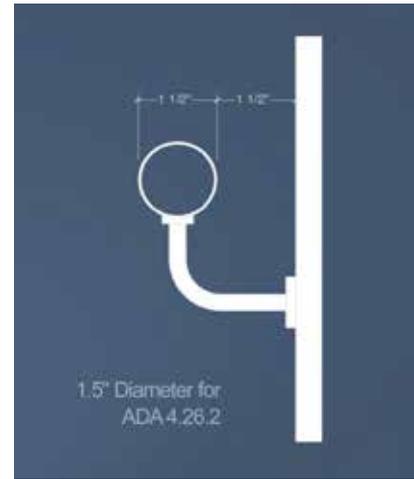
Common pattern choices for elevator cab interiors, due to their attractiveness and durability, include 5HR, 5WL®, 6WL®, 4LB or any of our DuoTex patterns (see page 19).



Pattern 4LB

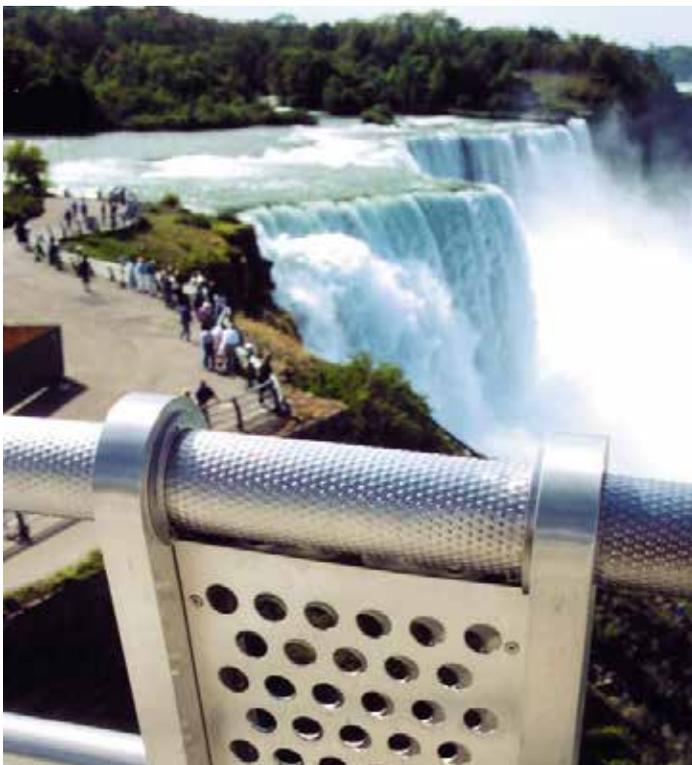


Pattern 5WL®



## A Better Grip

Rigidized® Metals' Rigi-Grip® tubing is perfect for railings, grab bars and transportation holds, in order to limit and prevent accidental injury. The textured surface is up to six times more grip-able than ordinary handrail. With standard diameters of 1.25" and 1.5" they can be used for ADA compliant gripping rails. Rigidized® Metals' Trim-Tex 8" wide strip is used to create both rail and other shapes. Rigidized® Metals supplies textured tubes to fabricators of handrail systems.



Specified by New York State Parks, Niagara Falls, NY

## A Commanding Grip

Demanding applications call for Rigidized® Metals' Rigi-Grip® tube in stainless steel construction for corrosive environments (like salt water), and enhanced grip in wet environments.





5WL® Pattern



60LTH Pattern

## Stainless Steel Partitions

Rigidized® Metals Corporation provides materials for restroom partitions. Rigidized® Metals' patterns 5WL®, 6WL® and 60LTH are simply the most durable and longest lasting in the industry. In fact, several worldwide retailers specify bathroom partitions manufactured with Rigidized® Metals' pattern 5WL® stainless steel to dramatically reduce maintenance cost, discourage vandalism and enhance aesthetic appearance.



Random Swirl Finish



## Specifying

Simply specify the embossed metal pattern\* or finish in the gauge required and the bathroom partition of your choice.

\*Please note: restroom partition materials can only be rolled in 60" wide patterns. See pages 4-7 for a complete list of patterns and finishes.



Hadrian® Partitions  
5WL® Pattern

## Commercial and Residential Kitchens & Dining

We offer durable, functional and attractive options for any dining application - from backsplashes and countertops to paneling. Each design is custom made to fit perfectly to your exact specifications, making installation easy. Combined with our trim strips and corner mouldings, Rigidized® Metals' deep textured materials give your home or establishment a professional look and feel.



Kitchen backsplash  
1CS Pattern



Bar Top  
1SLG Pattern



Kitchen appliances  
1HM Pattern



Mel's Diner Restaurant Interior  
Diamond Pattern



Diamond Pattern

## Classic and Sophisticated Stainless Finishes

The unique beauty and durability of deep textured Rigidized® Metals' products create a lasting impression while providing sustainable, durable functionality. Rigidized® Metals Corporation offers classic and sophisticated patterns in sheet material for use in wall coverings, traditionally seen in food trucks, hospitality and commercial projects. Our design and fabrication team will bring your vision to life utilizing the latest design and fabrication software and tools.



MOSAIC



3QLT | 4QLT | 6QLT



DIAMOND



CHECKERBOARD



HARLEQUIN



DOUBLE DIAMOND



DIAGONAL



"COFFEE" HARLEQUIN



SQUARE



"Weeping Wall" Art Installation, Buffalo, NY



Fabricated, Perforated Sculptures

## Fabricating

A full assortment of fabricating equipment, including shears, press brakes, panel lamination lines, turret presses and welding stations, allows us to engage in a vast array of products and projects. Our skilled craftsmen, with decades of experience and a sense of unmatched quality, execute everything from prototypes to complete projects, offering our customers services from concept to completion.



"Dandelion Seed" as part of the "Wish Field" art installation at Roswell Park Cancer Institute, Buffalo, NY



Custom Beer Flight



Custom Curved Decorative Panels

## Fabricating

Our designers and fabricators can assist with project and product design concepts and ideas. Our team is capable of developing simple concept renderings, or, if needed, complete detailed drawing sets. This seamless and transparent design collaboration ensures timely and successful execution of projects, and can be achieved all under one roof.



RSS Design Studio, Buffalo, NY

## Sustainable Features:

Weight and material reduction • Durable and long lasting • Sourced from recycled content  
Recyclable • Clean Health Rating

# sustainability

Textured Stainless steel is playing an important role in sustainable design and alternative energy evolution. Ultimately, the most environmentally friendly materials are corrosion resistant and durable, have high-recycled content and recapture rates, provide long service life and reduce resource use. Rigidized® Metal provides all of these benefits. If the correct alloy is selected and properly maintained, it will last the life of the project.

### 01. Weight and Material Reduction

Rigidized® Metals products are design-strengthened to last. The deep texturing process allows the use of lighter gauges (thickness of metal) because of significantly improved strength-to-weight ratios. For example, down-gauging from 16GA to 18GA, results in a material savings of 20%. Using less metal creates less strain on resources and the environment.

### 02. Durable and Long-Lasting

Textured surfaces resist dents, hide scratches, and hide fingerprints, making them last longer and look cleaner than ordinary metals. Ultimately the most environmentally friendly materials are corrosion resistant and durable, and Stainless steel facades have been known to provide up to 80 years of service life in architectural projects without appearance deterioration or metal replacement. When properly selected, fabricated, and maintained, it should last the life of the structure. Products made from Rigidized® Metals simply look better for longer, require less effort to maintain, and are made from fewer raw materials.

### 03. Sourced from Recycled Content

A vast majority of the metals Rigidized® Metals transforms are steel and aluminum. Both materials have high levels of recycled content and are 100% recyclable. On average the recycled content of stainless steel is 60%. Throughout the industry, it is widely accepted that any given “heat” of stainless will be composed of the following materials:

- 25% post-consumer waste
- 35% post-industrial waste
- 40% raw materials

In North America and other parts of the world, which have historically used more stainless steel, recycled contents can be higher. The stainless steel producing members of the Specialty Steel Industry of North America have indicated that the average recycled content of the 300 series stainless steel grades that are used in the architectural, building and construction markets is approximately 75-85%<sup>1</sup>.

<sup>1</sup>Specialty Steel Industry of North America

### 04. Recyclable

Steel is North America's #1 recycled material. Each year, more steel is recycled in the US than paper, plastic, aluminum and glass combined. This is because steel scrap is 100% recyclable, has a high scrap value, an infinite recycling cycle, and is an essential raw material in making new steel. As a result, each year millions of tons of steel are recycled at the end of their service life, diverting material from landfills and recaptured for use in new steel. This use of steel scrap to make new steel conserves energy, reduces emissions and conserves natural resources<sup>2</sup>.

<sup>2</sup>Steel Recycling Institute (SRI)

### 05. Clean Health Rating

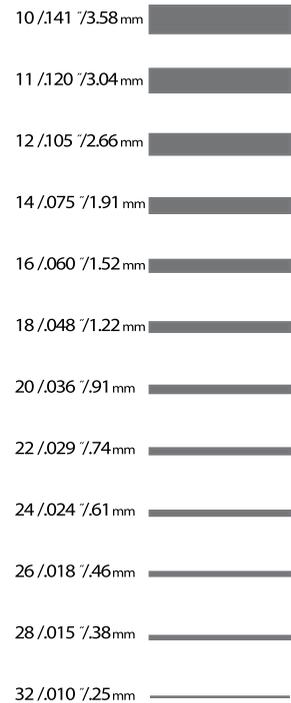
Rigidized® Metals products are a sustainable choice for interior building surface applications because it produces no VOC emissions and does not require a surface coating that can deteriorate to possibly pollute the environment. This makes it ideal for buildings where control of the interior air quality is critical and where low air volatile organic compound (VOC) levels are desired. It also offers excellent cleanability - cleaning stainless steel requires no environmentally hazardous or dangerous chemicals. A study by EUROFER concluded that stainless steels themselves do not cause adverse effects on health and so do not need to be classified as hazardous to health<sup>3</sup>.

<sup>3</sup>"Manufacture, Processing, and Use of Stainless Steel: A Review of the Health Effects" Published in January 1999 by the EUROFER (European Confederation of Iron and Steel Industries)



Pattern	Max Width	Stainless Steel Thickness	Other Metal Thickness: Carbon Steel, Copper, Aluminum, Brass, etc.
1ACC	36"	0.018" - 0.125"	0.018" - 0.125"
ACC 4i	36"	0.018" - 0.125"	0.018" - 0.125"
1CS	36"	0.018" - 0.075"	0.010" - 0.080"
1HM	36"	0.018" - 0.036"	0.010" - 0.062"
1HR	36" / 48"	0.048" - 0.060"	0.048" - 0.062"
1NA®	36" / 48"	0.018" - 0.075"	0.010" - 0.090"
1RL	36" / 48"	0.018" - 0.120"	0.018" - 0.125"
1SLG	36" / 48"	0.018" - 0.048"	0.010" - 0.062"
1UN	36" / 48"	0.018" - 0.120"	0.018" - 0.125"
2FL	36" / 48"	0.024" - 0.120"	0.020" - 0.125"
2WL®	36" / 48"	0.018" - 0.036"	0.008" - 0.032"
3FL	36" / 48"	0.018" - 0.060"	0.010" - 0.062"
3ND	36" / 48"	0.018" - 0.036"	0.024" - 0.040"
4LB	36" / 48"	0.018" - 0.060"	0.010" - 0.090"
5HR	36" / 48"	0.024" - 0.060"	0.025" - 0.062"
5WL®	36" / 48" / 60"	0.018" - 0.075"	0.008" - 0.075"
6HC	36" / 48"	0.024" - 0.105" / 0.120" max 36" wide	0.024" - 0.125"
6SL®	36" / 48"	0.018" - 0.048" / 0.060" consult factory for max width	0.024" - 0.125"
6WL®	36" / 48" / 60"	0.018" - 0.120"	0.008" - 0.125"
60LTH	36" / 48" / 60"	0.018" - 0.075"	0.010" - 0.090"
LINEN*	49.21"	0.029" - 0.075"	N/A
SANDTEX®*	48"	0.036" - 0.060"	N/A
3SQ*	49.21"	0.029" - 0.075"	N/A
RSS.3	36" / 48" / 60"	0.029" - 0.120"	0.036" - 0.125"
RTP®	36" / 48" / 60"	0.018" - 0.120"	0.010" - 0.125"
STP	36" / 48"	0.075" - 0.105"	0.080" - 0.100"
XTP	36" / 48"	0.024" - 0.075"	0.024" - 0.080"
3.QLT	48"	0.024" - 0.029"	0.024" - 0.032"
Square	44"	0.029"	0.032" **
Diagonal	45"	0.029"	0.032" **
Checkerboard	44"	0.029"	N/A
Harlequin	45"	0.029"	N/A
Diamond	45"	0.029"	0.032" **
Mosaic	45"	0.029"	N/A

U.S. Standard Gauges / Nominal Thickness in Inches



## STAINLESS STEEL ALLOY TYPES

304 is the basic chromium-nickel austenitic stainless steel and has been found suitable for a wide range of applications. It is the most readily available in a variety of product forms. This grade is easy to form and fabricate with excellent resistance to corrosion.

316 offers more corrosion resistance through the addition of molybdenum. This grade is desirable where the possibility of severe corrosion exists, such as heavy industrial, marine and de-icing environments.

430 is a straight chromium ferritic stainless steel with lower corrosion resistance than the 300 series. It is principally employed for interior use and is magnetic.



### Metals Textured Include:

Stainless Steel, Carbon Steel, Copper, Aluminum, Brass, Titanium, Bronze, Perforated, Galvanized and Galvannealed.

Standard Lengths: 96", 120", 144"

Standard Widths: 36", 48", 60"

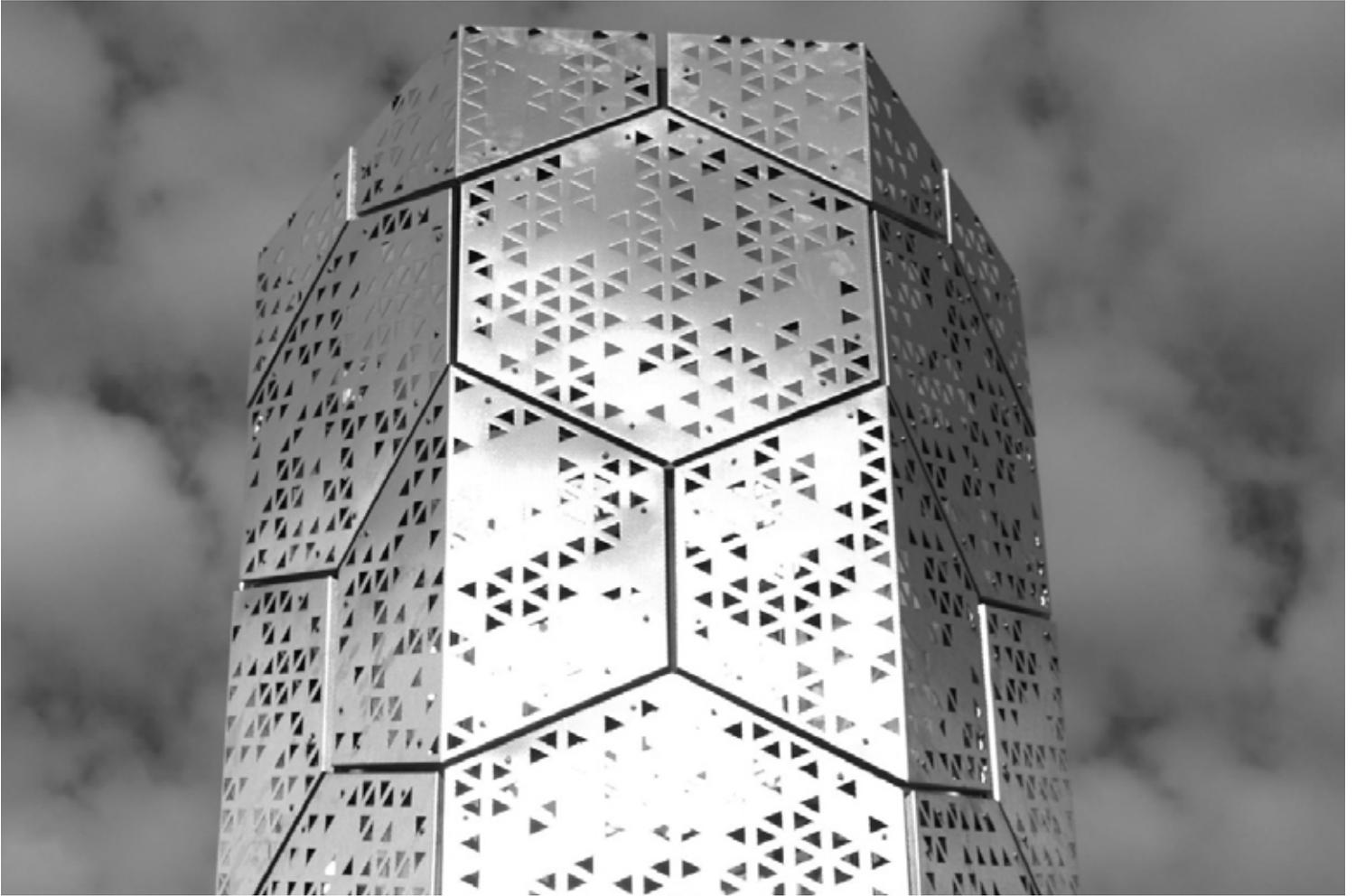
Pattern depth varies with gauge.

\*Only available in Bright Annealed finish

\*\*Only available in Aluminum and Copper

Custom sizes available

Please phone customer service for specific finish, pattern specifications, non-standard sizes, technical information and free samples.



**Rigidized® Metals Corporation** | 658 Ohio Street | Buffalo, New York 14203 | USA  
TOLL FREE 800.836.2580 | P 716.849.4760 | FAX 716.849.0401 | [www.rigidized.com](http://www.rigidized.com)

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