Deep Textured Architectural Metals
Custom Fabricated Products

Via 57 West, New York, NY
Photograph by Gabrielle Pignanelli
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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 led us to new discoveries in metal surface engineering. These efforts have made it possible for buildings to stay clean, use less energy and resist both solar heat gain and impact damage. Further, we use LEED-certified sustainable, recyclable, green materials and methods, striving to use less while giving you more.

As a third-generation, family-owned business, we pride ourselves in our extensive knowledge, experience, reliable service and product quality and performance. We encourage and are always excited to explore new ideas for our materials.

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 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 43 for technical data. For additional pattern information and to request samples, please call 800.836.2580.

Maximum pattern widths available:

<table>
<thead>
<tr>
<th>36”</th>
<th>48”</th>
<th>60”</th>
</tr>
</thead>
</table>

Standard lengths (can be cut to size):

<table>
<thead>
<tr>
<th>96”</th>
<th>120”</th>
<th>144”</th>
</tr>
</thead>
</table>

Patterns here are shown in stainless steel; other materials available include aluminum, carbon steel, copper, brass and titanium.
Patterns

36”/48”
3ND

36”/48”
4LB

36”/48”
5HR

36”/48”
5WL®

36”/48”
6HC

36”/48”
6SL®

36”/48”
6WL®

36”/48”
60LTH

36”/48”/60”
RSS.3

36”/48”/60”
RTP®

36”/48”
STP

36”/48”
XTP

49.21”
3SQ

49.21”
LINEN

48”
SANDTEX®

48”
3QLT|4QLT

Only available in stainless steel.
Finishes

Rigidized® Metals offers all standard mill produced finishes for both textured and non-textured distribution, as well as specialty polished and embossed finishes. Rigidized® Metals' pattern 6WL® shown next to each finish, where applicable.

#4 Satin
#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.

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.

B/A - Bright Annealed
Bright Annealed stainless steel has a “cloudy mirror” reflective surface.

InvariBlend® (Hairline)
InvariBlend® is a two-step, abrasive polished finish with a linear appearance, designed for use in architectural applications.

InvariWisp (RND - Non-Directional Vibration)
InvariWisp is a multi-directional finish, similar to what is often called a vibration finish, with random, multi-directional grit lines.

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.
Micro Textures

Look to Contrarian Micro Textures, by Rigidized® Metals Corporation, for an unrivaled selection of versatile products in stainless steel, titanium and other metals, available in a variety of uniformly textured, wear-resistant textures.

**InvariMatte®**
A Matte finish is a non-directional, low gloss, consistent, uniformly textured, self-cleaning finish with a dull bead blast appearance, designed for use in architectural applications. InvariMatte® is available in stainless steel and titanium.

**InvariTone**
A Tone finish provides a self-cleaning, non-directional, moderate gloss, consistent, uniformly textured stainless steel finish with a moderate tone bead blast appearance designed for use in architectural applications.

**InvariLux®**
A Lux finish is a non-directional, reflective, consistent, uniformly textured, self-cleaning stainless steel finish with a bright bead blast appearance designed for use in architectural applications.

**InvariGrain**
InvariGrain is a rolled-in grit line finish, similar to conventional #4 stainless, with superb overall consistency, designed for architectural applications. InvariGrain is available in both stainless steel and titanium.

**InvariBold (Titanium only)**
InvariBold is a directional, linear ribbed titanium finish with moderate reflectivity, lending itself to a variety of applications.

**InvariSuede (Titanium only)**
InvariSuede is a moderately low gloss textured finish that is designed for use in architectural applications. Since InvariSuede has a dirt-resistant surface with no coatings to deteriorate, it will last indefinitely with little maintenance.

**InvariMatte® Walnut**
InvariMatte® Walnut is a directional, uniformly textured stainless steel finish with dull bead blast appearance and a thin brownish-black chromium oxide film designed for use in architectural applications. InvariMatte® Walnut retains the corrosion resistance of the underlying ATI 2003 alloy.

*Please note that, on the InvariMatte® Walnut, there will be (2) hanger holes about ¼” in from the edge on the lateral side. This cannot be avoided and should be considered in your design. We are also limited to 48” width and 96” length due to the size of the anodizing tank. Please note, however, that width and length may ultimately be limited by substrate size restrictions.*
CNC Finishes

Engine Turn Finishes

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

Rigi-Bump® Specifications

<table>
<thead>
<tr>
<th>Type of Bump</th>
<th>Dimension and Shape</th>
<th>Type of Bump</th>
<th>Direction of Bump</th>
<th>Pattern Depth</th>
<th>Max. Thickness</th>
<th>Min. Center Spacing of Bump</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB1</td>
<td>1.000” Round</td>
<td>Flat</td>
<td>Up</td>
<td>0.030”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB2</td>
<td>0.750” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.085”</td>
<td>0.060”</td>
<td>1.000”</td>
</tr>
<tr>
<td>RB3</td>
<td>1.375” Round</td>
<td>Flat</td>
<td>Up</td>
<td>0.024”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB4</td>
<td>0.875” Square</td>
<td>Flat</td>
<td>Up</td>
<td>0.025”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB5</td>
<td>0.375” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.055”</td>
<td>0.060”</td>
<td>1.065”</td>
</tr>
<tr>
<td>RB6</td>
<td>0.250” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.053”</td>
<td>0.060”</td>
<td>0.750”</td>
</tr>
<tr>
<td>RB7</td>
<td>0.500” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.050”</td>
<td>0.060”</td>
<td>1.125”</td>
</tr>
<tr>
<td>RB8</td>
<td>1.500” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.024”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB9</td>
<td>0.625” Round</td>
<td>Flat</td>
<td>Up</td>
<td>0.030”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB21</td>
<td>1.500” Square</td>
<td>Flat</td>
<td>Up</td>
<td>0.040”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
<tr>
<td>RB22</td>
<td>0.250” Square</td>
<td>Flat</td>
<td>Up</td>
<td>0.025”</td>
<td>0.060”</td>
<td>0.625”</td>
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<tr>
<td>RB24</td>
<td>1.000” Round</td>
<td>Dome</td>
<td>Up</td>
<td>0.060”</td>
<td>0.060”</td>
<td>2.000”</td>
</tr>
</tbody>
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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.
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 and bead blast. Note: Representations of TiN and LIC color samples shown below may vary from actual colors. Colors can be verified by requesting samples.

Textured samples below are shown in Rigidized® Metals’ pattern 6WL®; most patterns are available.

Titanium Nitride (TiN) Colors - for use in interior applications, only.

- Rose Satin (TiN)
- Coffee Satin (TiN)
- Gold Satin (TiN)
- Nickel Silver Satin (TiN)
- Bronze Satin (LIC)
- Black Satin (LIC)
- Blue Satin (LIC)
- InvariMatte® Walnut (LIC)

Light Interference Coloring (LIC) Colors - for use in interior and exterior applications.

Please note that ATI 2003 InvariMatte® Walnut cannot be deep textured.

Additionally, there will be (2) hanger holes about ¼” from the edge on the lateral side. This cannot be avoided and should be considered in your design.

We are also limited to 48” width and 96” length due to the size of the anodizing tank. Please note, however, that width and length may ultimately be limited by substrate size restrictions.
Highlighted Metal

The highlighting process polishes the tops of Rigidized® Metals textures in stainless steel to expose the base metal, greatly reducing the risk of paint damage. Base metal patterns hide scratches, dents and damage often found on smooth painted or colored surfaces. Highlighting can be applied to most colored and powder coated Rigidized® Metals textures. Powder coatings are extremely durable, electronically charged and baked on polyurethane enamels. Powder coating and highlighting can be produced in a wide variety of colors. For consistency, we recommend and use the RAL color system for powder coating.

Recommended gauges: .024”, .029”, .036” (other gauges & sizes may be available on specific applications)
Benefits of Stainless Steel

Stainless steel is an extraordinary building material. The incredible environmental benefits, cost savings, and efficiency of this material enable building owners to know that their buildings will last with little or no maintenance. In addition, significantly less harm can be made to the environment by using long life materials as opposed to more commonly used materials that require maintenance and replacement. See more on stainless steel’s sustainable features on page 42.

Combating Climate Change

Since the chromium oxide layer that naturally develops on the surface of stainless steel is thin and invisible, it is a near-perfect solar and thermal reflector. This translates to energy savings in hot as well as cold climates, and a reduction in the heat island effect, therefore mitigating climate change. This improvement comes, in part, from a reduction of the energy used to heat and cool buildings, but the effect is compounded by the efficiency with which stainless steel reflects light without converting the wavelengths, thereby sending solar energy back into space.

Superior Durability

Stainless steel buildings have been around for nearly 100 years without showing signs of degradation. From an environmental standpoint, an architect or building owner can count on this material to last the useful life of the building. Combining this fact with energy savings, heat island mitigation, impressive recycling statistics and other environmental benefits, it is truly a sustainable product that is good for the planet.

Self-Cleaning

The best performance of all comes from the use of hydrophobic stainless steel surfaces, such as micro textured surfaces, that resist the accumulation of dirt, maximizing solar reflectance and minimizing the need to clean the surface - be it a roof or façade on a building.

A hydrophobic surface, as defined by the angle of incidence of water droplets, repels water and has low surface tension, which tends not to attract contaminants and rinses cleanly. Accumulated surface soil absorbs more solar radiation than it reflects. It is, therefore, important to keep the stainless steel clean in order to maintain maximum solar reflection. The use of a hydrophobic surface will delay, if not eliminate, the need to clean the building’s surface.

A permanent hydrophobic surface is achieved in stainless steel by micro-texturing the surface of a mill-finished coil with a surface pattern that has features smaller than the diameter of a human hair. Rigidized® Metals Corporation produces several such hydrophobic stainless steel finishes, ranging from dull to bright. Chief among these are InvariMatte®, InvariTone and InvariLux®. See page 6-7 for a complete list of available micro textures.
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 have added 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 visible deflection. This is a direct result of the additional structural rigidity added to the sheet material through the process of deep texturing.

Substrate Combinations

Visual interest, self-cleaning performance and enhanced glare management can be achieved by specifying certain micro texture substrates in combination with a deep textured pattern. See our DuoTex line on page 23 for more information.
Textured Metals for Interiors

Textured metals offer significantly more durable, longer lasting surfaces.

Rigidized® Metals provides textured metal for column covers. Metal column covers using Rigidized® Metals’ textured metal creates a lasting beauty to your interior design. Specifying Rigidized® Metals’ textured metal products on your column enclosures ensures that they will endure abuse, vandalism and wear and tear much longer than ordinary metal enclosures. The results are life-cycle costing benefits and reduced maintenance costs.

Textures on this page

InvariMatte® Micro Texture (Above)

Middlesex in White (6WL® Pattern, non-prime side, Left)
We texture metals for interior surfaces, creating a richer, more vibrant and aesthetically pleasing environment.

Textures on this page

Sandtex® Texture (Above)

1RL Pattern, Perforated (Right)

(716) Food & Sport, Buffalo, NY
The durability of Rigidized® Metals’ deep-textured metals makes us a leading choice for high traffic, high abuse areas.

Textures on this page

2FL Pattern, Highlighted (Above)

1RL Pattern (Right, Top)

5HR Pattern in Sandtex® (Right, Bottom)
Textured Metals for Exteriors

With textures and coloring options available to reflect light, hide oil canning, self-clean and offer durability, Rigidized® Metals’ materials are the ideal choice for exterior applications.

Textures on this page

InvariMatte® Micro Texture (Above)

5WL® Pattern, Copper Colored Kynar Coating (Right)

FedEx Building, Tonawanda, NY
Textures on this page

6WL® Pattern, Perforated
(Left)

1SLG Pattern
(Below)
Exteriors

Parking Garage Screens
Buffalo, NY

Textures on this page

1UN Pattern, Perforated (Left)

InvariMatte® Micro Texture (Below)

1000 Connecticut Ave, Washington, D.C.
Deep and micro-textured materials provide the ability to withstand corrosion, high traffic abuse and moisture-related damage, while also being aesthetically pleasing.
Reflection 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.

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

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”.

RGM thickness: .018”-.060”
Standard thickness for all other patterns: .018”-.024”
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 line combines the bold presence of our deep textures on a refined embossed surface. Rigidized® Metals’ deep textured patterns are available in various widths and thicknesses. Refer to page 43 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.
Other Metals

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

All base metals are only available in Rigidized® Metals’ patterns and/or micro textures.

- Copper
- Galvanized Steel
- Titanium
- Muntz Metal
- Kynar Coated Aluminum
- Brass
- Bright Polished Aluminum
- Zinc
- Bronze
- ATI 2003

* 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.

High durability stable walls
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. Perforated metal is available in the patterns shown in the samples below. Powder coating and highlighting is also available. Please contact a representative for more information on colors, patterns, materials, gauges and open area.
Panel Systems

Rigidized® Metals panel systems are attractive, durable, and easily installed. Designed and fabricated to your specifications, the possibilities are limitless.
Butt joining the panels utilizes the same attachment system without the need for a second material between the panels.

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

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

Reveal

butt

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

butt

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

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.

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

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".

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.
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.

Trim Strips and Corner Mouldings

Trim strips and corner mouldings complete the easy installation of backsplashes and wall cladding systems. They adhere directly to drywall, utilizing construction adhesive. They are made from corrosion resistant 430 stainless steel with a bright annealed finish. They are sold in 12-foot, 8-foot and 4-foot pieces and are easily cut on the spot for simple installation.
Excellent Acoustical Performance Achieved in Metal

Deep textured perforated metal can meet the demands of acoustics, while adding the visual interest that 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.

<table>
<thead>
<tr>
<th></th>
<th>Perforated 6WL® 1/2” Acoustical Mat</th>
<th>Perforated 1RL 1/2” Acoustical Mat</th>
<th>Perforated 6WL® 1” Acoustical Mat</th>
<th>Perforated 1RL 1” Acoustical Mat</th>
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<tbody>
<tr>
<td>SAA</td>
<td>0.51</td>
<td>0.52</td>
<td>0.73</td>
<td>0.77</td>
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<tr>
<td>NRC</td>
<td>0.50</td>
<td>0.55</td>
<td>0.75</td>
<td>0.75</td>
</tr>
</tbody>
</table>

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®

Elevator Interiors by SnapCab
5WL® Pattern
Nearly all elevator cab and door manufacturers are customers. Simply specify the Rigidized® Metals pattern, finish and gauge of your choice.

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 23).
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. 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 (page 22) is used to create both rail and other shapes. Rigidized® Metals supplies textured tubes to fabricators of handrail systems. The texture in our products provides added strength and durability with its ability to hide scratches, dents and dings. This reduces maintenance costs, making our products more sustainable and longer-lasting, while increasing aesthetic appeal.

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.

Rigidized® Metals’ Rigi-Grip® tubing in stainless steel is the ideal choice for many high traffic applications.

Specified by New York State Parks, Niagara Falls, NY
Handrail Components

The following components and fittings are available for 1 1/2" diameter Rigi-Grip® tubes in Trim Tex 8” pattern RGM.

- Flush End Post
- Flush Center Post
- Combination Bracket
- Handrail Bracket
- Flush Tee
- Flush Side Outlet Elbow
- Half Ball End Cap
- Radius Wall Return
- Flush Elbow
- 3” Wall Flange
- Flush End Cap
- Flush Radius Elbow
Stainless Steel Partitions

Rigidized® Metals 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 costs, discourage vandalism and enhance aesthetic appearance.
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.
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.
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 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.
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.
**Making Your Vision a Reality**

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, all of which can be achieved under one roof.

“Gut Flora” by Shasti O’Leary-Soudant  
Buffalo, NY
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® Metals 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%.

1Specialty 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.

2Steel Recycling Institute (SRI)

05. Clean Health Rating
Rigidized® Metals products are a sustainable choice for interior building surface applications because they produce no VOC emissions and do not require a surface coating that can deteriorate to possibly pollute the environment. This makes them ideal for buildings where control of the interior air quality is critical and where low air volatile organic compound (VOC) levels are desired. They also offer 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.

3Manufacture, 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)
<table>
<thead>
<tr>
<th>Pattern / Micro Texture</th>
<th>Max Width</th>
<th>Stainless Steel Thickness</th>
<th>Other Metal Thickness: Carbon Steel, Copper, Aluminum, Brass, etc.</th>
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<tbody>
<tr>
<td>1ACC</td>
<td>36”</td>
<td>0.018” - 0.125”</td>
<td>0.018” - 0.125”</td>
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<td>36”</td>
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<td>36”</td>
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<tr>
<td>1HM</td>
<td>36”</td>
<td>0.018” - 0.036”</td>
<td>0.010” - 0.062”</td>
</tr>
<tr>
<td>1HR</td>
<td>36” / 48”</td>
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<td>0.048” - 0.062”</td>
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<td>1NA®</td>
<td>36” / 48”</td>
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<td>36” / 48”</td>
<td>0.018” - 0.120”</td>
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<td>36” / 48”</td>
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<tr>
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<td>6HC</td>
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<td>0.024” - 0.125” / 0.120” / max 36” wide</td>
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<td>6SL®</td>
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<td>60LTH</td>
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<td>SANDTEX®**</td>
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<td>3SQ*</td>
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<td>RSS.3</td>
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<td>0.032” **</td>
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<td>Diagonal</td>
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<td>0.029”</td>
<td>0.032” **</td>
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<td>InvariLux®</td>
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<td>InvariBlend®</td>
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<td>InvariWisp</td>
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<td>InvariBold</td>
<td>48”</td>
<td>N/A</td>
<td>0.018” - 0.075”</td>
</tr>
</tbody>
</table>

**Technical Data**

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.

Standard Lengths: 96”, 120”, 144”

Pattern depth varies with gauge. Custom sizes available.

*Only available in Bright Annealed finish

**Only available in Aluminum and Copper

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

Metals Textured Include: Stainless Steel, Titanium, Carbon Steel, Copper, Aluminum, Brass, Bronze, Perforated, Galvanized and Galvannealed.
“Gut Flora” Art Installation by Shasti O’Leary-Soudant, Buffalo, NY