



BONDED METAL™

PRODUCT DATA





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Bonded Metal has achieved a place of distinction among high-performance surfacing materials. Providing a striking breadth of design possibilities, Bonded Metal is the product of a unique technology that casts metal granules in a tough, fiber-reinforced polymer matrix. Advanced mold-making techniques assure perfect reproduction of every fine detail in the original patterned surface. The result is lightweight, extremely durable castings with the character and appearance of solid metal. Field-proven for more than 50 years, Bonded Metal is exclusive to Forms+Surfaces.

BONDED METAL FEATURES

- Suitable for interior and select exterior applications.
- Bonded Metal does not absorb moisture and should not rot or rust.
- Products are manufactured to specification and provided cut to size and ready to install.

MATERIAL DESCRIPTION

Bonded Metal selections are defined by three basic parameters that are key to product specification:

BONDED MATERIAL	PATTERN	PATINA
The metal incorporated into the composite that gives the surface its color and character.	The distinctive texture or design cast into the Bonded Metal surface.	A contrast-enhancing surface treatment applied to the Bonded Metal.

PRODUCTS & APPLICATIONS

Bonded Metal can be specified for walls, wainscoting, column covers, doors, elevator interiors, accents, custom fabrications or any vertical application where modern, visual richness is desired.

CASTING TYPES	F+S SYSTEMS
<p>Depending on the application, different casting types may be better suited.</p> <ul style="list-style-type: none"> • Slim castings with a reduced sheet thickness are designed for applications where clearance is an issue. Select patterns are available as Slim castings, as shown on page 6. Slim castings can be factory-laminated to a variety of backer materials. Application directly to drywall is not recommended. • Standard castings are available in a range of thicknesses that vary per pattern, as shown on page 6. Standard castings can be factory-laminated to a variety of backer materials. Application directly to drywall is not recommended. • Backed castings provide a greater range of installation options using either adhesives or fasteners. Backer options include 1/4" (6 mm), 1/2" (13 mm), or 3/4" (19 mm) fire-rated particleboard or 6mm, 8mm, or 10mm polycarbonate. <p>Bonded Metal is intended to be an attractive and durable cladding material and should not be used as a structural element nor should it be used to provide reinforcing or bracing for structural embers. Forms+Surfaces recommends either a minimum 1/8" (3 mm) reveal or a trim detail between sheets. Exposed edges of casting should be protected by trim or other material.</p>	<ul style="list-style-type: none"> • LEVELr Wall Cladding System • LEVELr Column System • LEVELr Elevator Interiors • LEVELe Wall Cladding System • LEVELe Column System • LEVELe Elevator Interiors • LEVELc-2000 Elevator Interiors • Elevator Door Skins • Stile & Rail Doors

BONDED METAL CHARACTERISTICS

ROUTINE MAINTENANCE	CURVED PROFILE	FIRE RATING
The Bonded Metal surface has been sealed with a high-quality interior/exterior acrylic lacquer. It is a hard, durable finish that will last for many years but can be damaged if cleaned improperly. Avoid using harsh abrasives. If solvents are ever required for cleaning only naphtha or other aliphatic hydrocarbons should be used. Additional details can be found in the Architectural Surfaces Care & Maintenance document on our website.	<p>The minimum radius achievable varies depending on the thickness, pattern, and degree of relief. Higher relief patterns, such as door patterns, cannot be curved due to their thickness and uneven pattern.</p> <p>Standard and slim castings can generally be applied to curved surfaces with radii down to about 18" (450mm). Curve has to be in same orientation as the pattern.</p>	Bonded Metal is NFPA and IBC class B fire rated and UBC class 2 fire rated.

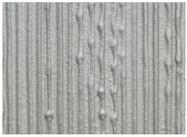
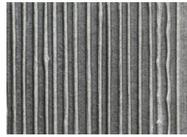


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COLOR & PATINA* OPTIONS

Bonded Metal is available in your choice of Natural or Dark patina. A Natural patina provides subtler, more even tonal gradations; Dark patina heightens the contrast between highlights and shadows for a more pronounced three-dimensional effect. Each of the Bonded Metal colors are shown below in both Natural and Dark patinas.

	BONDED ALUMINUM		BONDED BRONZE		BONDED NICKEL SILVER	
						
	Natural	Dark	Natural	Dark	Natural	Dark
Austin	•	•	•	•	•	•
Champagne	•		•		•	
Chardonnay	•		•		•	
Charleston	•	•	•	•	•	•
Dash	•	•	•	•	•	•
Delta	•	•	•	•	•	•
Glint	•	•	•	•	•	•
Grass	•	•	•	•	•	•
Herringbone	•	•	•	•	•	•
Kalahari	•		•		•	
Loft	•	•	•	•	•	•
Mara	•		•		•	
Rain	•	•	•	•	•	•
Sahara	•		•		•	
Talus	•		•		•	
Terrane	•		•		•	
Tilt	•	•	•	•	•	•
Trevia	•	•	•	•	•	•
Undercurrent	•		•		•	
Vancouver	•	•	•	•	•	•
Waterfall	•		•		•	

DOOR PATTERNS

Corona	•	•	•	•	•	•
Crete	•	•	•	•	•	•
Eclipse	•	•	•	•	•	•
Equinox	•	•	•	•	•	•
Solstice	•	•	•	•	•	•

*Bonded Metal is made with genuine metal. When installed outdoors, it is normal for the surface to weather over time to a deeper patina.

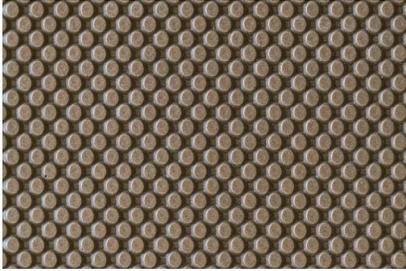


BONDED METAL™

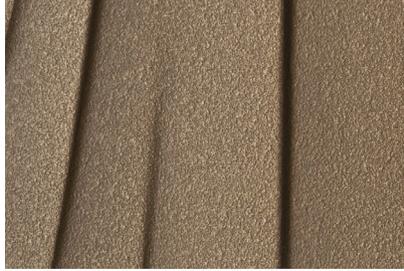
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PATTERN OPTIONS

All of the patterns shown on pages 3-4 are available as standard options. Some older patterns that are no longer part of our standard product offering can also be produced. For larger projects, Forms+Surfaces welcomes inquiries regarding custom designs and applications for this highly sculptural material.



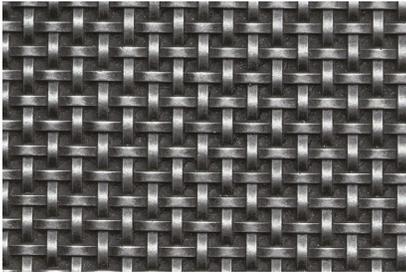
AUSTIN™



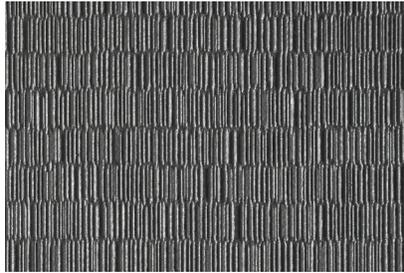
CHAMPAGNE™



CHARDONNAY™



CHARLESTON™



DASH™



DELTA™



GLINT™



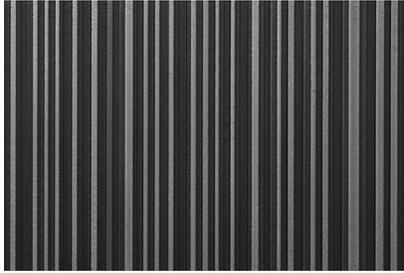
GRASS™



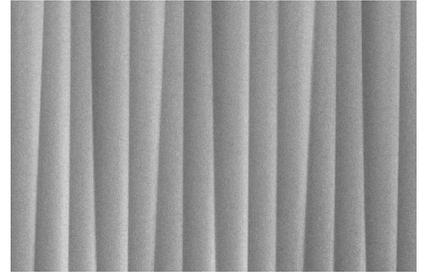
HERRINGBONE™



KALAHARI™



LOFT™



MARA™



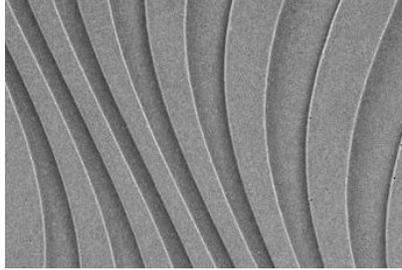
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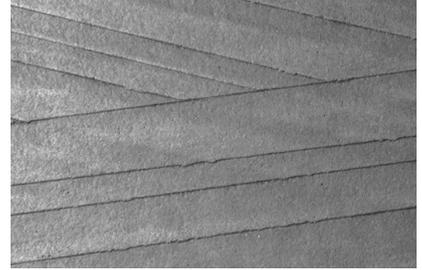
PATTERN OPTIONS, CONTINUED



RAIN™



SAHARA™



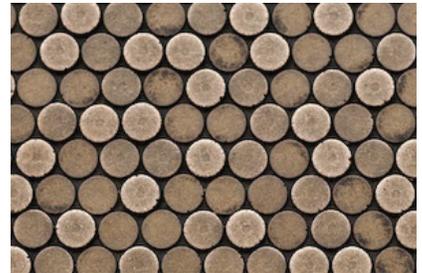
TALUS™



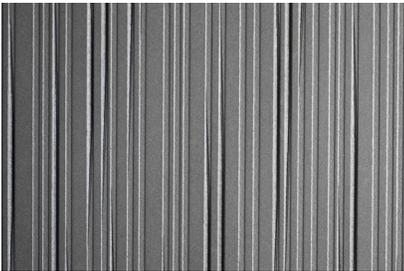
TERRANE™



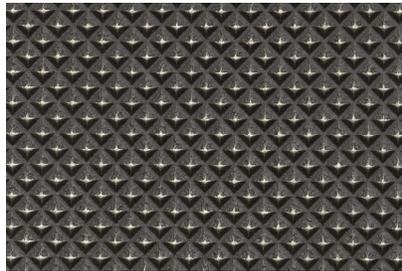
TILT™



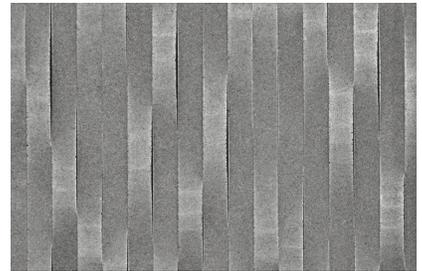
TREVIA™



UNDERCURRENT™



VANCOUVER™



WATERFALL™

Note: Because different computers will render colors and textures differently, actual finishes may vary from those shown.



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DOOR PATTERNS

The five patterns shown below are special, full-scale symmetrical patterns available with mating left and right sides. While any Bonded Metal pattern may be specified for our doors, these five patterns are designed specifically for full-sheet use on doors, wall panels or other large-scale applications where a dramatic visual effect is desired. Choosing just one side of the pattern for a single-leaf door or narrower wall panel is also an option.



CORONA™



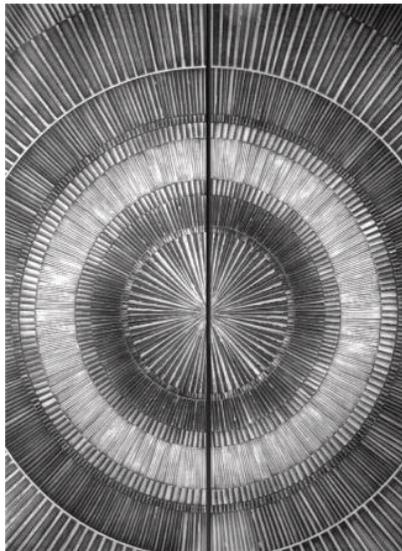
CRETE™



ECLIPSE™



EQUINOX™



SOLSTICE™



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MATERIAL SPECIFICATIONS

The chart below is arranged by sheet thickness and shows sheet size dimensions for all Bonded Metal castings. The face layer of the cast matrix that makes up Bonded Metal ranges from 0.018-0.035". Castings may be specified in any sheet size up to the maximum indicated in the chart. For backed castings, simply add the thickness of your preferred backer to the casting thickness shown.

PATTERN	CASTING TYPE	THICKNESS	SHEET SIZE	MINIMUM CURVE RADIUS
CHAMPAGNE	SLIM	0.060" (1.5 mm)	30" x 120" (762 x 3048 mm)	18" (450mm) approx.
CHARDONNAY	SLIM	0.060" (1.5 mm)	30" x 120" (762 x 3048 mm)	18" (450mm) approx.
LOFT	STANDARD	0.105" (2.7 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
RAIN	STANDARD	0.112" (2.8 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
TERRANE	STANDARD	0.116" (2.9 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
TREVIA	STANDARD	0.120" (3.0 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
UNDERCURRENT	STANDARD	0.130" (3.3 mm)	47.5" x 119.5" (1207 x 3035 mm)	18" (450mm) approx.
WATERFALL	STANDARD	0.130" (3.3 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
AUSTIN	STANDARD	0.131" (3.3 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
DASH	STANDARD	0.132" (3.4 mm)	47.5" x 119.5" (1207 x 3035 mm)	18" (450mm) approx.
GLINT	STANDARD	0.132" (3.4 mm)	47.5" x 119.5" (1207 x 3035 mm)	18" (450mm) approx.
TILT	STANDARD	0.132" (3.4 mm)	47.5" x 119.5" (1207 x 3035 mm)	18" (450mm) approx.
GRASS	STANDARD	0.135" (3.4 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
TALUS	STANDARD	0.135" (3.4 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
VANCOUVER	STANDARD	0.137" (3.5 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
CHARLESTON	STANDARD	0.139" (3.5 mm)	36" x 120" (914 x 3048 mm)	18" (450mm) approx.
HERRINGBONE (H / V)	STANDARD	0.139" (3.5 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
CHAMPAGNE	STANDARD	0.147" (3.7 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
CHARDONNAY	STANDARD	0.147" (3.7 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
DELTA (H / V)	STANDARD	0.151" (3.8 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
SAHARA	STANDARD	0.158" (4.0 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
KALAHARI (H / V)	STANDARD	0.200" (5.1 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.
MARA (H / V)	STANDARD	0.200" (5.1 mm)	48" x 120" (1219 x 3048 mm)	18" (450mm) approx.

DOOR PATTERNS

EQUINOX (L / R)	STANDARD	0.116" (2.9 mm)	36" x 120" (914 x 3048 mm)	N/A
CORONA (L / R)	STANDARD	0.289" (7.3 mm)	36" x 120" (914 x 3048 mm)	N/A
ECLIPSE (L / R)	STANDARD	0.289" (7.3 mm)	48" x 120" (1219 x 3048 mm)	N/A
SOLSTICE (L / R)	STANDARD	0.289" (7.3 mm)	48" x 120" (1219 x 3048 mm)	N/A
CRETE	STANDARD	0.357" (9.1 mm)	48" x 120" (1219 x 3048 mm)	N/A

ENVIRONMENTAL CONSIDERATIONS

Please refer to the Bonded Metal Environmental Data Sheets for detailed environmental impact information.

HOW TO SPECIFY

To order, please indicate material, pattern, patina and quantity.

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