Brandner Design

Steel Panels Systems & Patina Finishes

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Patina Finishes

A patina results from a reactive process of applying acids to steel and common alloys to create completely original designs, colors, and textural finishes. For the past 15 years, Brandner Design has been at the forefront of the architectural trend, utilizing these unique, artistic metal finishes in commercial and residential spaces worldwide.

A Craft

Each metal surface and acid finish has its own method, and with 15 years of experience in creating patina finishes, we have mastered an extensive palette of colors. Through the artistic use of acids, heat, humidity, time, and skilled craftsmanship, the final product features timeless colors, textures, and designs.

These can be applied to cold- and hot-rolled steel, stainless steel, copper, brass, aluminum, bronze, and zinc. All our patinated products are sealed with either hand-rubbed oil and wax, acrylic, or clear powder coat.

The Artisans

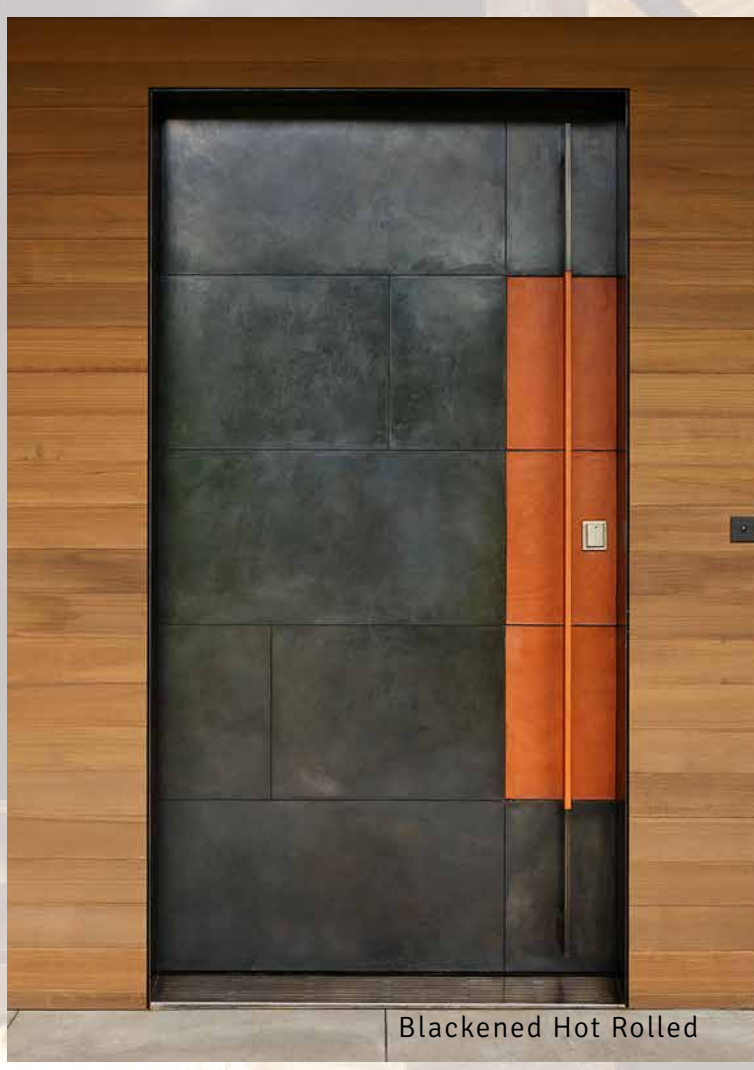
We are committed to creating timeless, signature architectural works of art in metal, wood, glass, concrete, leather, and acrylics.

All of our designs are created and built in our 41,500-square-foot studio in Bozeman, MT—a state-of-the-art facility featuring a complete millwork and cabinet shop, metal fabrication, a Trumpf fiber laser and CNC brake, a finishing department, and a design studio. Staffed with 35 woodworkers, metalworkers, artisans, architectural designers, and engineers, we thrive on solving complex problems and continually reinventing what is possible in the world of design.

Patina Gallery

Rust Veil

Natural Etched Steel



Blackened Hot Rolled

Teton Copper

Patina Gallery

Blackened Hot Rolled Steel with face screws

Antique Brown Black
floating panels

Rust Veil with face screws

Natural Etched Steel

Natural Etched Steel

Patina Gallery

Directional Black Veil Floating Fireplace

Blackened Hot Rolled

Hand-Brushed Copper

Stainless Steel

Blackened
Hot Rolled

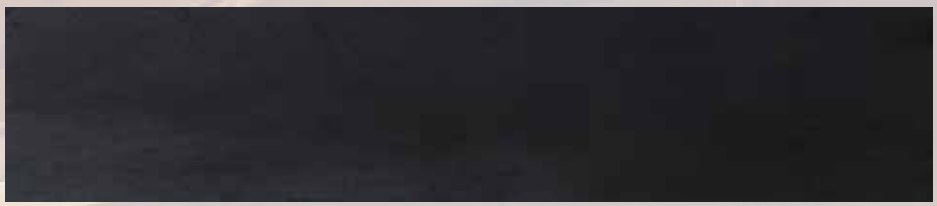
Blackened Hot Rolled

Blackened Hot Rolled

Steel and Alloys

Hot Rolled Carbon Steel:

It has an inherent blue mill scale, giving it an “industrial” look. We enhance this blue mill with an acid patina. Please note that carbon steel may be susceptible to rust in wet areas and exterior applications.



Cold Rolled Carbon Steel:

Cold rolled carbon steel lacks the blue mill scale of hot rolled steel, allowing us to apply a variety of acid patinas to create an array of colors and patterns. Like hot rolled carbon steel, it may be susceptible to rust in wet areas and exterior applications.

Brass:

Brass is a soft metal alloy of copper and zinc that does not rust. This warm yellow metal can be patinated in shades of light to dark brown. Rust-resistant and perfect for wet areas and exterior applications.

Stainless Steel:

Stainless steel has a low carbon content and is highly rust-resistant, making it ideal for wet areas and exterior applications.

Zinc Sheeting:

Zinc sheeting is rust- and corrosion-resistant and light grey in color. It can be patinated in shades ranging from light to dark charcoal. Rust-resistant and perfect for wet areas and exterior applications.

Bronze:

An alloy primarily composed of copper and tin, along with other metals. It can be patinated in various shades of brown and yellow. Rust-resistant and perfect for wet areas and exterior applications.

Copper:

A soft material that can be patinated in various shades of brown. Rust-resistant and perfect for wet areas and exterior applications.

Patina Options:

Directional Black Veil

Only Available on Carbon Steel

Random Black Veil

Only Available on Carbon Steel

Patina Options:

Blackened Hot Rolled

Only Available on Carbon Steel

Patina Options:

Directional Blue Heat

Only Available on Carbon Steel

Patina Options:

Weathered Black Dark

Only Available on Stainless Steel

Charcoal Steel

Available on Carbon Steel & Stainless Steel

Patina Options:

Weathered Black and Bronze

Only Available on Stainless Steel

Available on Carbon Steel & Stainless Steel

Patina Options:

Sandblasted Black

Only Available on Stainless Steel

Sandlasted Natural

Only Available on Stainless Steel

Patina Options:

Sandblasted Light Bronze

Only Available on Stainless Steel

Sandblasted Dark Bronze

Only Available on Stainless Steel

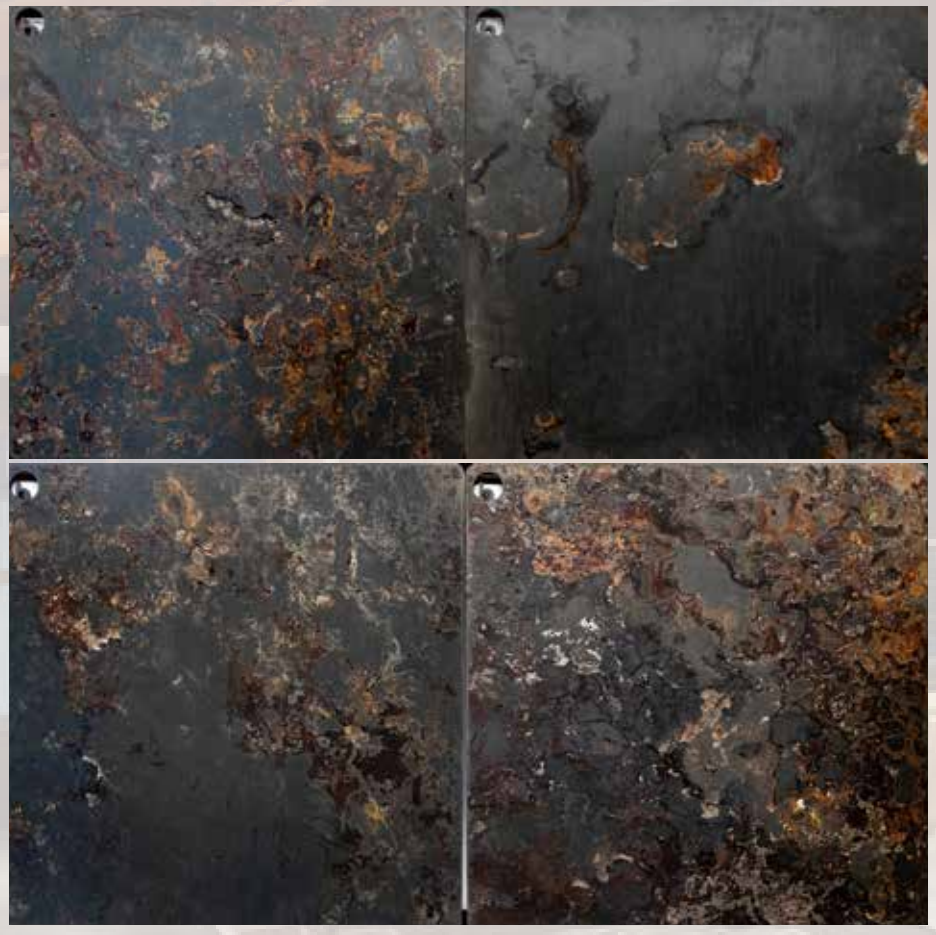
Patina Options:

Bronze Stainless

Only Available on Stainless Steel

Patina Options:

Black Etched Steel

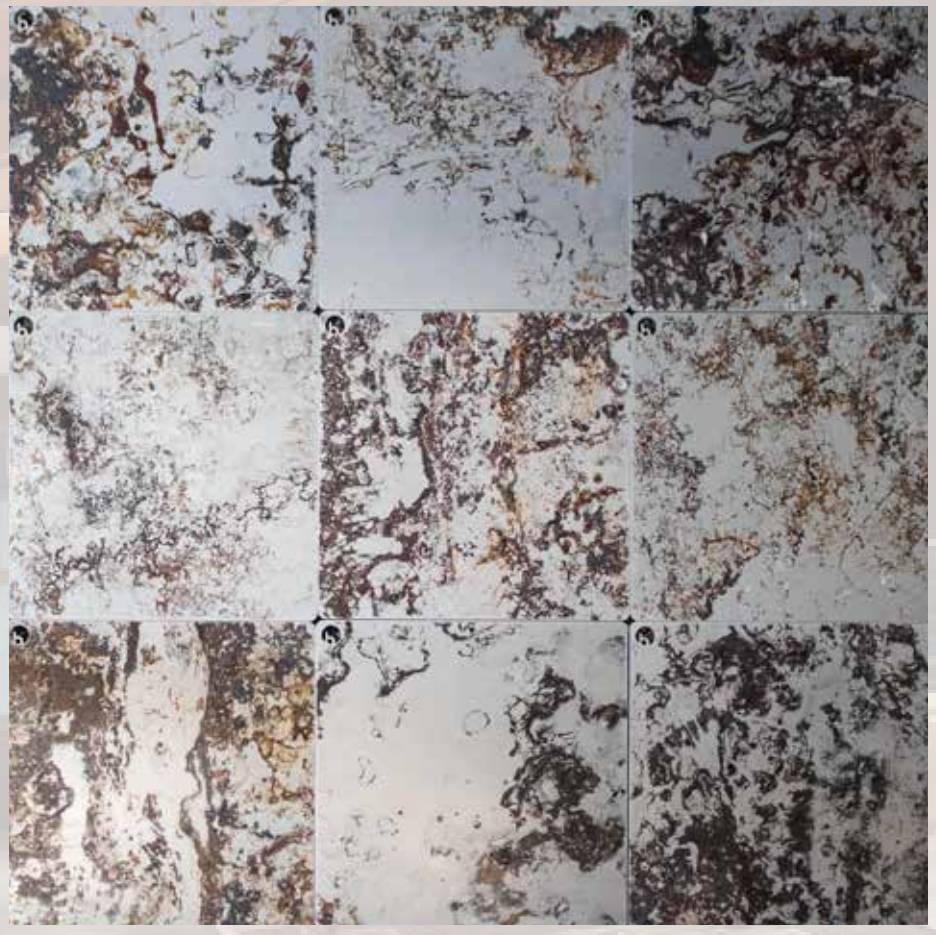


Available on Carbon Steel & Stainless Steel

Available on Carbon Steel & Stainless Steel

Patina Options:

Natural Etched Steel



Available on Carbon Steel & Stainless Steel

Available on Carbon Steel & Stainless Steel

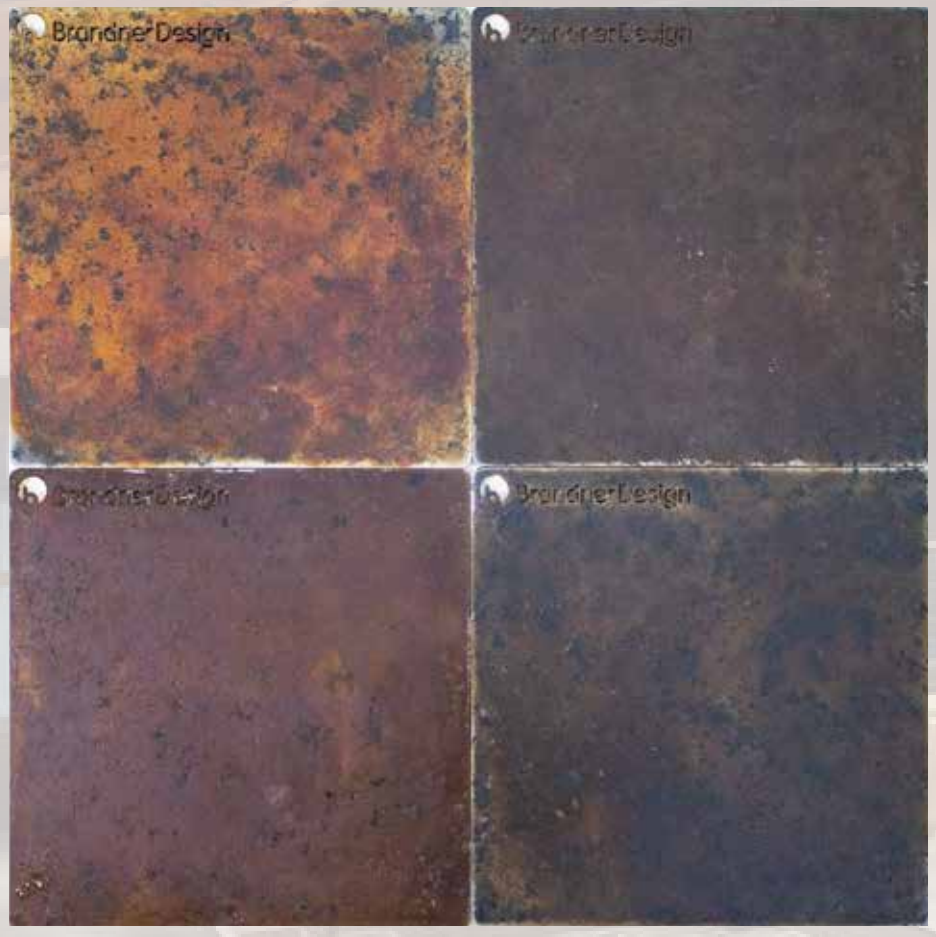
Patina Options:

Marbleized Steel

Available on Carbon Steel & Stainless Steel

Patina Options:

Bronze Etched Steel



Available on Carbon Steel & Stainless Steel

Patina Options:

Autumn Veil

Only Available on Carbon Steel

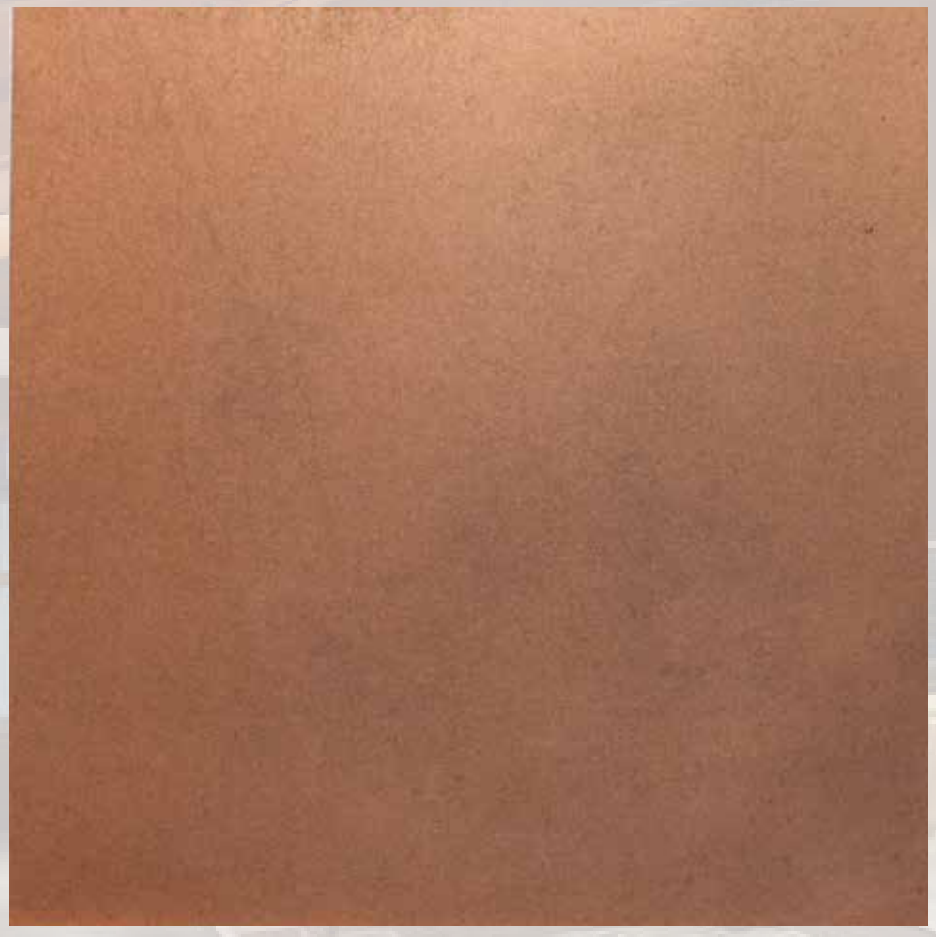
Patina Options:

Rust Veil

Only Available on Carbon Steel

Patina Options:

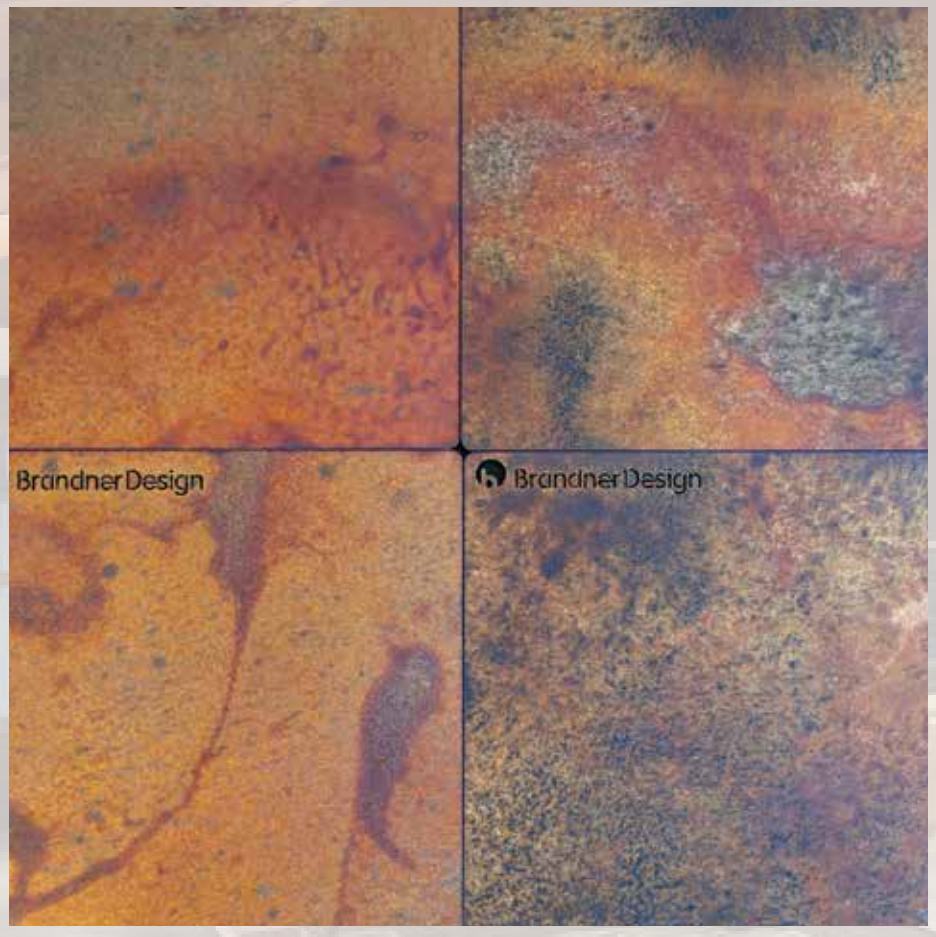
Copper Veil

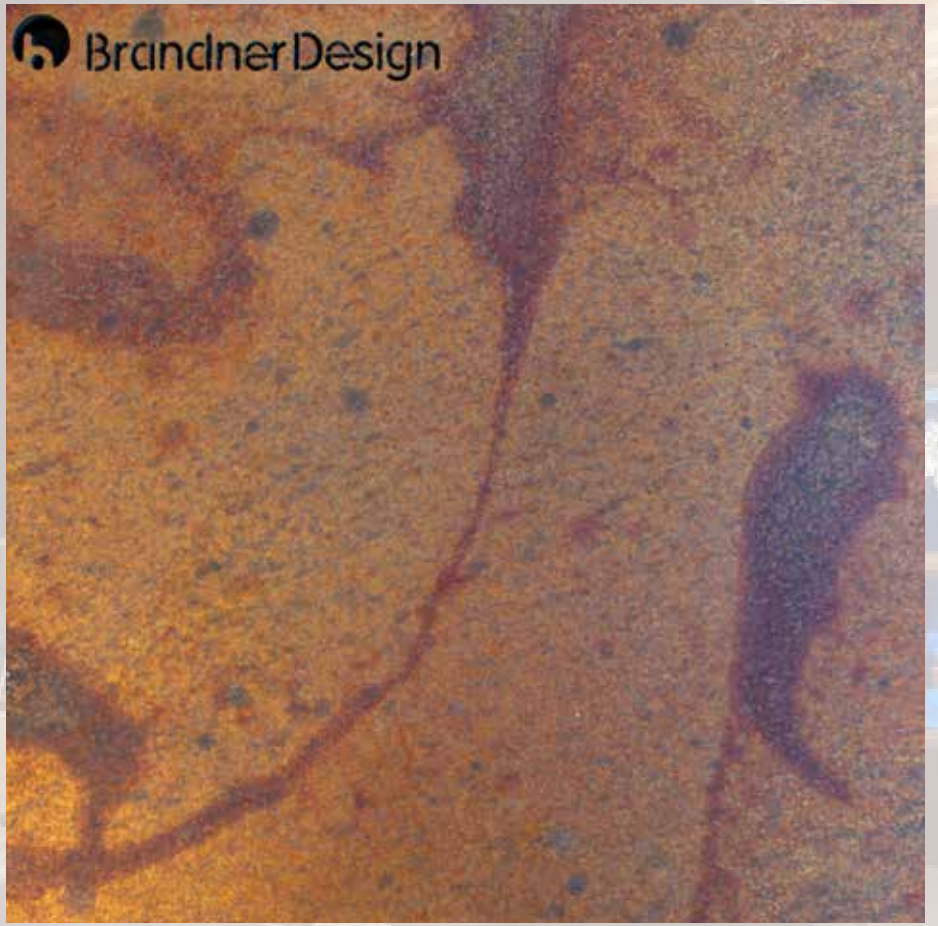


Only Available on Carbon Steel

Patina Options:

Antique Brown Black

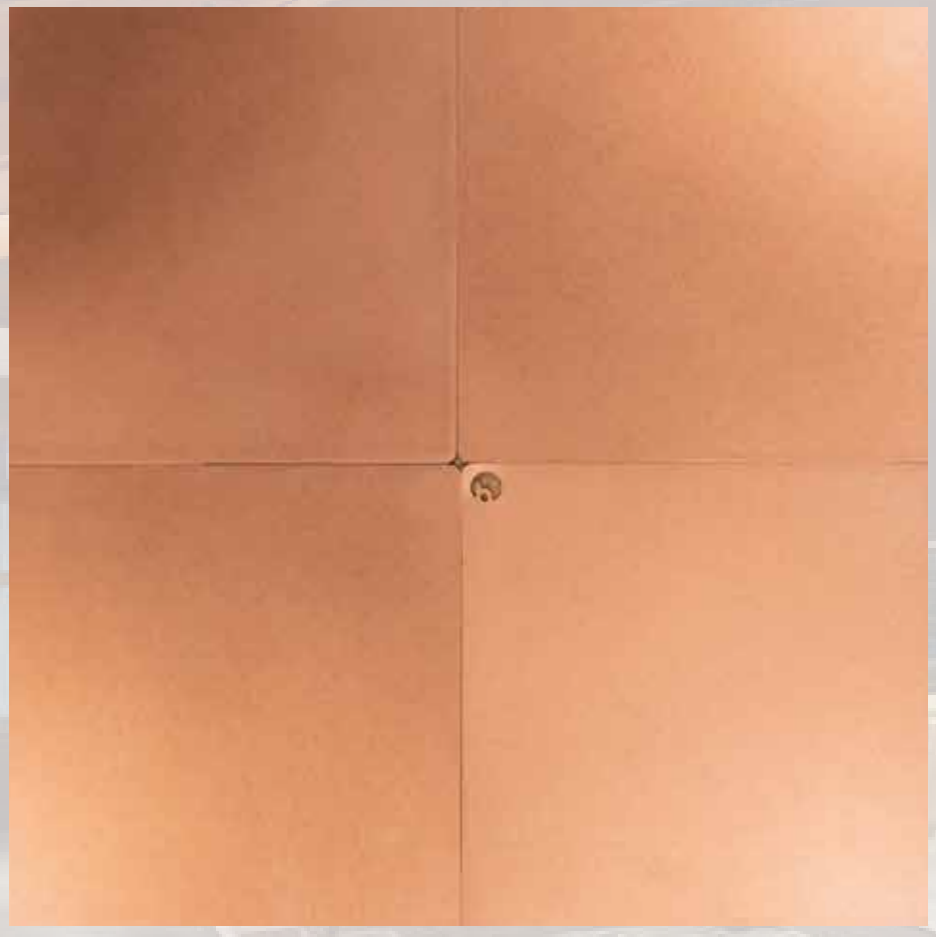




Only Available on Carbon Steel

Patina Options:

DA Sanded Copper



Only Available on Copper

Patina Options:

Teton Copper

Only Available on Copper

Random Burnished Medium Zinc

Only Available on Zinc

Patina Options:

Linear Burnished Medium Zinc

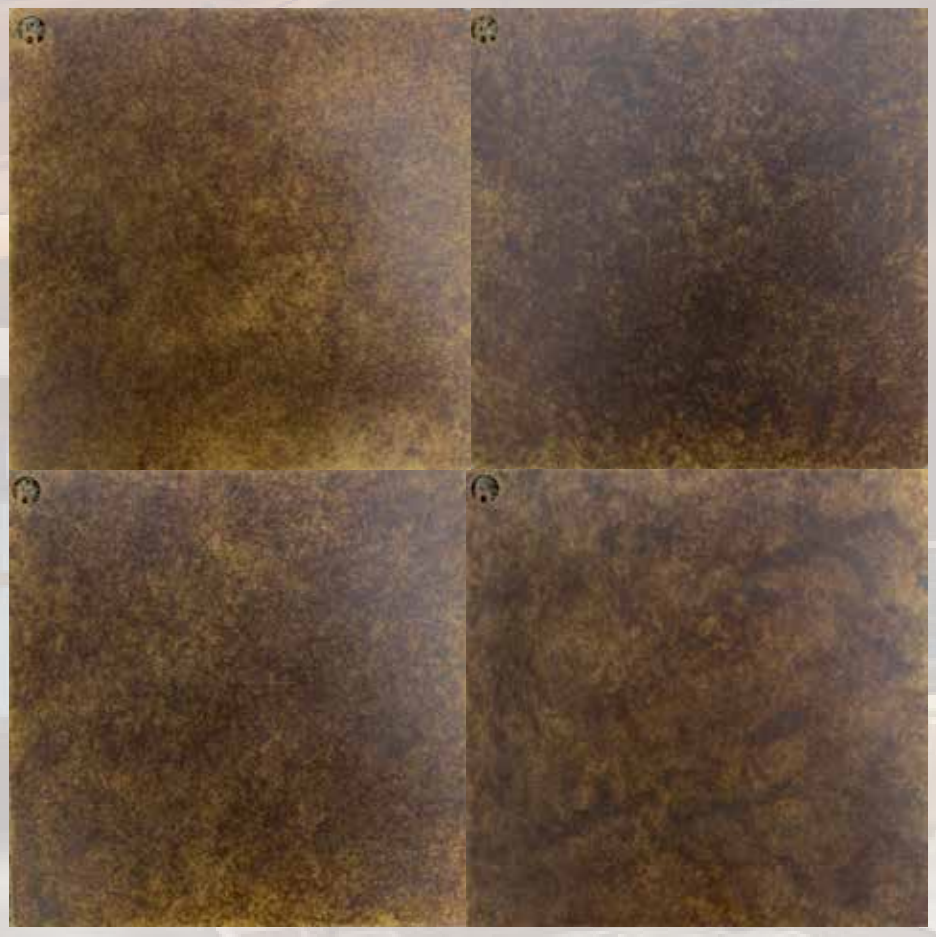
Only Available on Zinc

Linear Burnished Light Zinc

Only Available on Zinc

Patina Options:

Stippled Brass



Only Available on Brass

Patina Options:

Teton Brass

Only Available on Brass

Patina Options:

Directional Dark Brown on Brass

Only Available on Brass

Patina Options:

Directional Light Brown on Brass

Only Available on Brass

Patina Options:

DA Sanded Brass

Only Available on Brass

Patina Options:

Dark Brown on Bronze

Only Available on Bronze

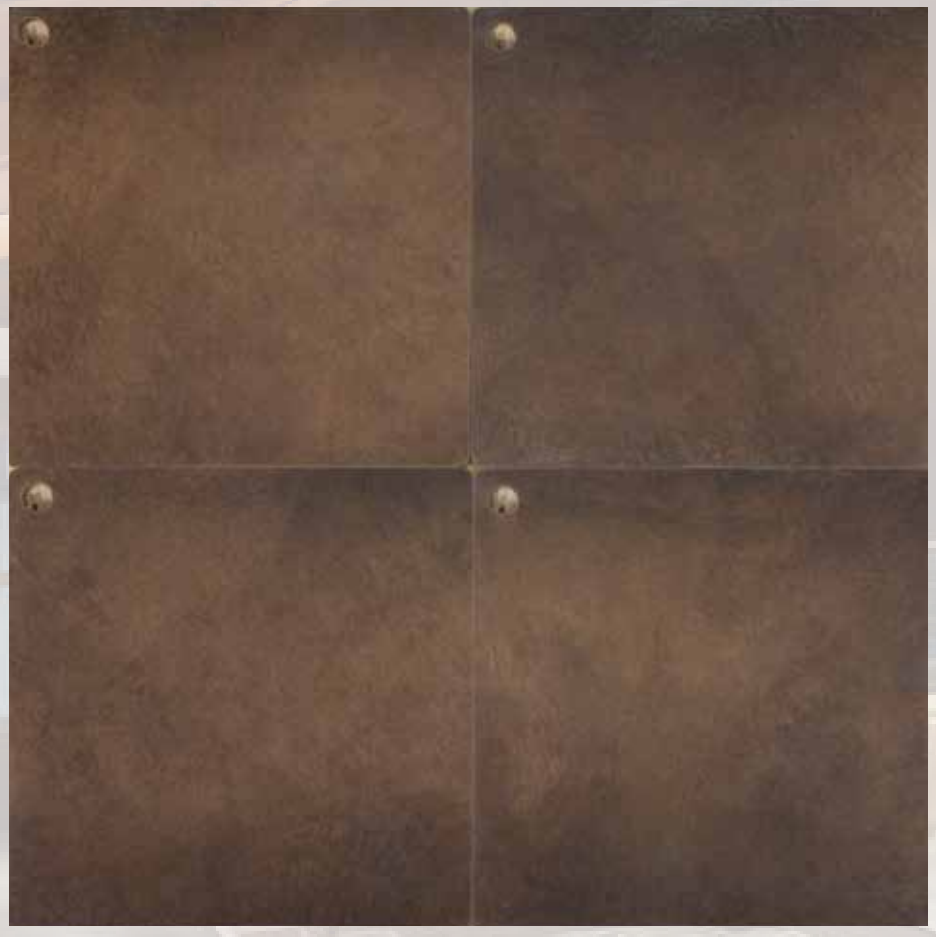
Patina Options:

Light Brown on Bronze

Only Available on Bronze

Patina Options:

Teton Light Bronze



Only Available on Bronze

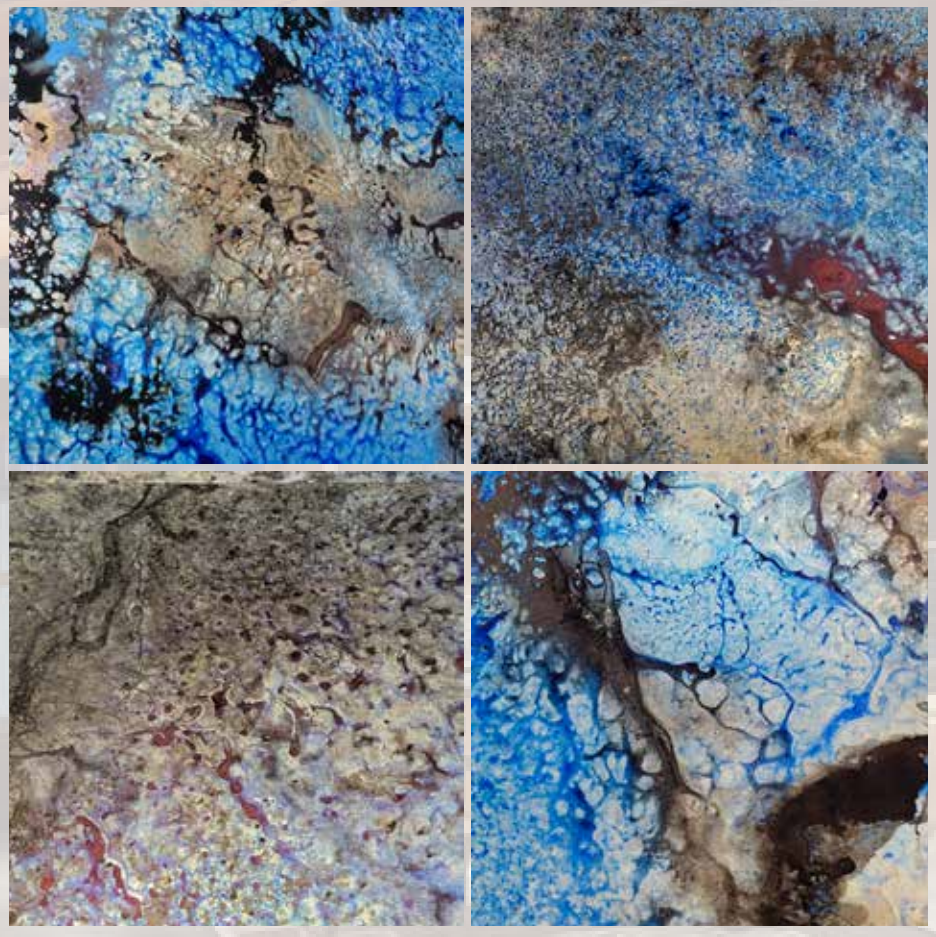
Patina Options:

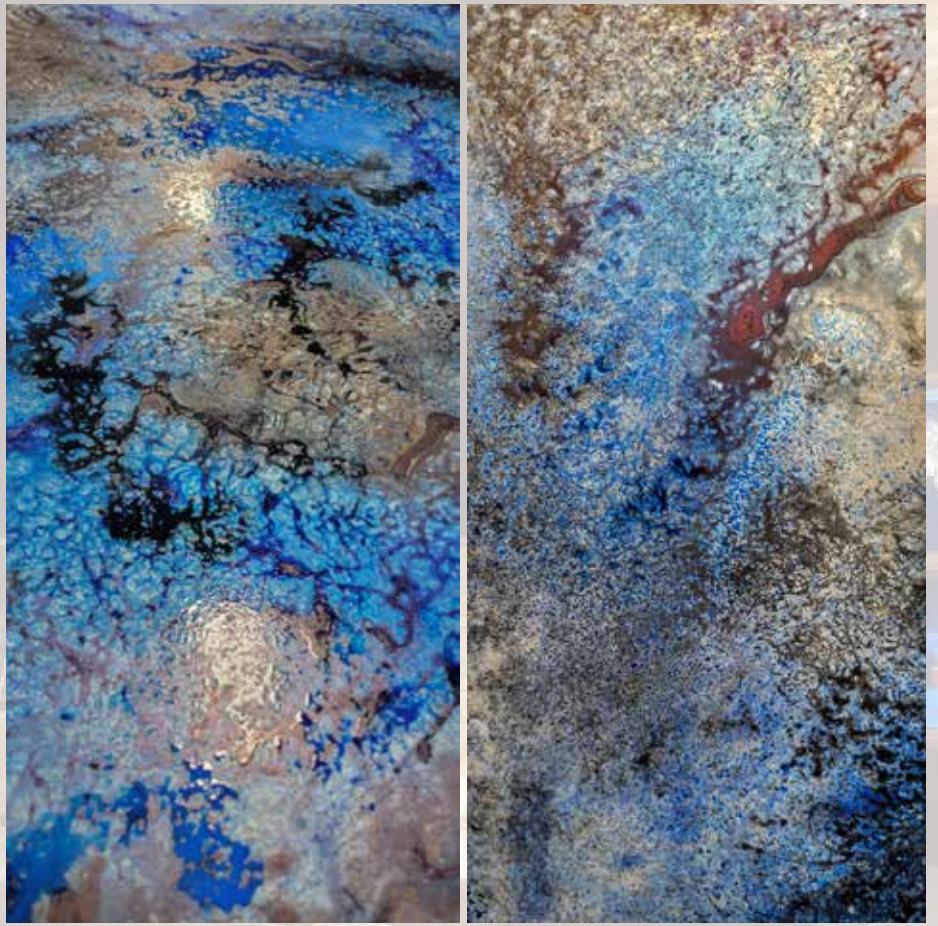
Teton Dark Bronze

Only Available on Bronze

Patina Options:

Vibrant Blue Pittsburgh Veil





Only Available on Aluminum

Patina Options:

Autumn Rain Veil

Only Available on Aluminum

Fastening Methods

Our Panels can be fastened using three different methods:

- **Exposed Fasteners:** Panhead or countersunk flathead screws.
- **Hidden Fasteners:** Z-Clips
- **Adhesive Fasteners:** Glue

Panhead Screws

Countersunk Screws

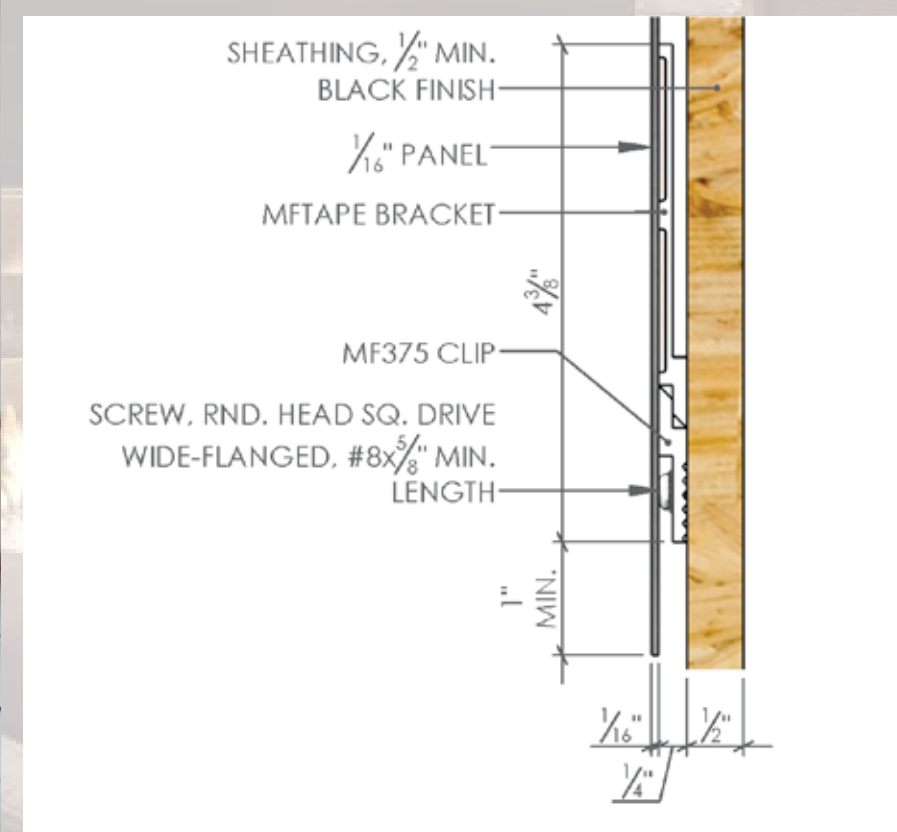
Exposed Fasteners

- **Panhead Screws** have a round head that sits on top of the steel surface. We recommend 14-gauge material for panhead fasteners. Panels come with pre-cut holes.

- **Countersunk Screws** have a flat head that sits flush with the surface. We recommend 12-gauge material for countersunk fasteners, which are intended for interior use only. Panels with countersunk screws are sold with pre-drilled holes.

Hidden Fasteners

Z-Clip fasteners are screwed to the steel panel substrate and fit into the opposing clip on the mounting surface. We recommend 16-gauge steel when using hidden Z-clip fasteners.



Adhesive Fastening

Brandner Design offers a highly effective adhesive for gluing steel panels or tiles to wood, plaster, or concrete substrates. We recommend 16-gauge steel for smaller panels adhered with glue.

*The most important step when using adhesives is ensuring the substrate is as flat as possible to achieve the best result.

Antique Brown Black Glued Mosaic Panels

Zinc Glued Panel Doors

Autumn Veil Glued Steel

Panel Systems

Steel sheets can be cut into shapes or panels up to 5'x10' at True Cut Laser, our partner company. Our CNC fiber laser cuts with high precision from CAD-based drawings and dimensions provided by our clients.

Available Thicknesses:

- 18 gauge
- 16 gauge or 1/16" thick
- 14 gauge
- 12 gauge
- 10 gauge or 1/8" thick
- 3/16" thick
- 1/4" thick
- 3/8" thick

Floating Panel

For designs requiring a "floating panel," the panels are typically pre-fastened to a substrate such as ½" plywood. When hung, a gap between the panels creates the effect of them floating.

Tight Panel

Panels can also be set tightly together, creating a tile texture, using any of the three fastening methods mentioned.

True Cut Laser - Steel Processing Studio

Our Trumpf 3000-watt, 5'x10', high-speed fiber laser provides the most efficient and precise laser cutting in the world. This laser is extremely versatile, handling materials from the thinnest up to ¾"-thick steel, aluminum, bronze, copper, and brass. We also offer etching services on various metals, including mirror-finish #8 stainless steel.

Our Trumpf TruBend CNC Press Brake ensures consistent, high-quality formed parts with a bending length of 10'. From simple 90° bends to complex multi-angle, multi-bend designs, True Cut Laser has you covered!

TRUE CUT LASER

Design

Our staff of draftspeople and designers assist with layout, material selection, finishes, and installation engineering.

We can meet any client need and provide advice where needed.

Shipping & Installation

We ship nationally and internationally. We can install projects anywhere or consult with installers to ensure a successful outcome.

Patina Protective Sealers

All patinated products come pre-sealed with one of the following to protect the finish and deter rusting*:

- Hand Rubbed Oil & Wax
- Acrylic
- Clear Powder Coating/Paint

Hand Rubbed Oil & Wax

- Allows natural weathering and rust to occur over time.
- Recommended for drier climates and interior residential use.
- Occasional maintenance and cleaning may be required to mantain a vibrant finish.

Acrylic*

- Recommended for high-traffic interior areas, areas with moisture, and commercial applications.

Clear Powder Coat | Paint*

- Recommended for countertops and bar tops.
- Provides extra durability in exterior settings.
- Clear powder coat is only available for hot-rolled steel.

Warranty Overview

Warranty on Patina Finishes:
All patina finishes and sealers on all metals have a one-year conditional warranty against delamination, rusting and discoloration. Patina finishes are living finishes and must be mantained according to the Patina Care Sheet for any issues to be considered for warranty claims.

Warranty on Panel Lamination to Plywood Substrate or Door:
All laminated panels applied to a Brandner Design substrate have a one-year conditional warranty against delamination, separation, and warping. Panels must be installed according to Brandner Design specs and maintained per the Care Sheet to be considered for warranty claims.

*Brandner Design does not provide a warranty against rust for exterior steel finishes.

Contact

Contact Brandner Design for a consultation with one of our finish experts to discuss your project and determine which materials, patina, and sealers will work best for your application. We are happy to provide guidance and answer any questions.

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