Metalwërks® Column and Beam Cladding is engineered to provide expanded design flexibility. Beyond typical cylindrical or square tubular enclosures, Metalwërks Column and Beam Cladding takes on virtually any geometrical form as it is manufactured from solid metal plate.

Perfect for enclosing any vertical, sloped, or horizontal structural member – concrete, structural steel, and stud backup – Metalwërks Column and Beam Cladding panels beautifully integrate with Metalwërks plate wall systems.

FEATURES AND BENEFITS
- Integrate with Metalwërks plate wall systems or stand-alone applications
- Typically manufactured in solid 0.125” (3.18 mm) or 0.188” (4.78 mm) thick aluminum and 16-12 gauge stainless steel (smooth and textured)
- More abuse resistant than gypsum- or fiberglass-based products or aluminum composite material.
- Can be custom formed to adapt to all types of geometric designs, including curves with radii down to 6”
- Non-Combustible: minimal smoke or fuel contribution
- Avoids NFPA 285 complications by avoiding thermo-plastic cores
- All panel systems are reinforced/stiffened to resist deflection limits
- Vertical butt joints or open 0.625” reveals with recessed batten strip, or backer rod and sealant
- Panels custom manufactured and not limited by minimum production runs
- Metalwërks supplies engineered supports for the enclosure products
- 100% recyclable and manufactured from materials with high post-consumer/industrial content which can contribute to LEED credits

- Virtually limitless palette of colors, finishes, and textures
- Aluminum: high performance finishes are post applied for the highest quality of coverage and uniformity
- Available in no-VOC powder coated finishes. Non-toxic and non-combustible.
- Finish warranties up to 20 years (coated aluminum). Consult Metalwërks for limitations

USES
- Enclosures for exposed columns, beams, or pilasters
- Custom duct enclosures
- Enhanced interior lobby aesthetics
- Glazed or non-glazed curtain wall applications
- Available with articulations, reveals and appliqués
- High durability for high traffic areas and transit centers
**Metal Substrate and Finish Options**

**Aluminum Plate**
- 3003-H14 aluminum alloy-temper
- Thickness: 0.125” (3.18 mm) standard, 0.188” (4.78 mm), 0.25” (6.35 mm) options.
- Consult Metalwërks for additional options.
- Finishes: Kynar® or architectural TGIC Polyester powder coating

**Stainless Steel**
- Type 304 or 316 for enhanced corrosion resistance
- Thickness: 14 gauge (0.078”) (1.98 mm) standard, 12 gauge (0.101”) (2.78 mm), 16 gauge (0.063”) (1.60 mm) options
- Finishes: #4, #6, #8, and non-directional satin in smooth or custom embossed patterns

**Zinc**
- Consult with Metalwërks for options
- Zinc is a natural metal which has specific properties that will limit its use. It must be adequately drained, ventilated and weeped when used in exterior applications to prevent excessive corrosion. Please consult Metalwerks for the appropriate uses for your project design.

**Panel Sizes**
- Profiles: Curved and Formed: 12” (305 mm) to 66” (1,676 mm)*
- Lengths: Curved: 12” (305 mm) to 192” (4,877 mm)*
- Formed: 12” (305 mm) to 240” (6096 mm)*
- Depth: Varies
- *Maximum panel size depends upon plate material, gauge, finish, and geometry

**Panel Weight**
- Consult with Metalwërks for options

**Shapes or Profiles**
- Round or square
- Elliptical & racetrack ovals
- Conical or tapered
- Non symmetrical articulations

**Accessories**
- Support framing
- Articulated capitals and bases
- “Snug fit” spring loaded ceiling closures
- Welded mitered sections, end caps, base reveals beam penetrations
- Access doors
- Sloped base, ceiling terminations
- Curved base, ceiling terminations
- Extruded or formed appliqués.
- Accent color reveals

**Warranty**
- Material & Workmanship: 1-year standard, with 2- or 5-year options
- Finish Integrity: 10-year standard and up to 20-year for coated aluminum
Column and Beam Cladding

SINGLE SPAN COLUMN COVERS

MULTIPLE SPAN COLUMN COVERS
<table>
<thead>
<tr>
<th>DETAIL</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Vertical Butt Joint Connection w/ Key Hole</td>
</tr>
<tr>
<td>2</td>
<td>Vertical Butt Joint Connection w/ Key Hole for Square Column Enclosure</td>
</tr>
<tr>
<td>3</td>
<td>Vertical Joint Reveal w/ Caulk</td>
</tr>
<tr>
<td>4</td>
<td>Optional Vertical Joint Reveal w/ Batter</td>
</tr>
<tr>
<td>5</td>
<td>Framing Options</td>
</tr>
<tr>
<td>6</td>
<td>Standard Head and Base</td>
</tr>
<tr>
<td>7</td>
<td>Optional Head and Base Reveal</td>
</tr>
<tr>
<td>8</td>
<td>Optional Adjustable Spring Ring at Column Cover Head</td>
</tr>
<tr>
<td>9</td>
<td>Optional Reveals at Sealed Column Covers</td>
</tr>
<tr>
<td>10</td>
<td>Optional Head</td>
</tr>
<tr>
<td>11</td>
<td>Standard Horizontal Joint</td>
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<tr>
<td>12</td>
<td>Optional Horizontal Joint</td>
</tr>
<tr>
<td>13</td>
<td>Standard Beam Wrap</td>
</tr>
<tr>
<td>14</td>
<td>Optional Column Cover and Beam Wrap Profiles</td>
</tr>
</tbody>
</table>
1) Vertical Butt Joint Connection w/ Key Hole
2) Vertical Butt Joint Connection w/ Key Hole for Square Column Enclosure
3) Vertical Joint Reveal w/ Caulk

12 1/2" MINIMUM DIAMETER

CONTINUOUS BACKER ROD AND SEALANT

FASTENERS, SIZE AND FREQUENCY AS REQUIRED

PLASTIC HORSESHOE SHIMS AS REQUIRED

*FOR DIAMETERS SMALLER THAN 12 1/2", PLEASE CONSULT METALWERKS
4) Optional Vertical Joint Reveal w/ Batten
5) Framing Options

- OPTION "A" BACK TO BACK ANGLES
- OPTION "B" BUILT UP STUD FRAMING
- OPTION "C" CONTINUOUS "ZEE" AND SHIMS
- OPTION "D" CLIP ANGLES SPACED AS REQUIRED

**INSTALLATION NOTE:**
FIELD ATTACH FRAMING WITH FASTENERS, SHOT & PIN, OR WELD. TO BE DETERMINED BASED ON LOAD AND SPEC REQUIREMENTS.
FRAMING METHODS CAN BE APPLIED TO ALL VERTICAL JOINT DETAILS.

**ALL FRAMING PARTS ARE 16 GAGE MINIMUM GALVANIZED STEEL**
6) Standard Head and Base

5A) Typical Head Detail

5B) Typical Base Detail

5C) Typical Sealed Base Detail

NOTE: 3/4" minimum required for keyhole engagement.
7) Optional Head and Base Reveal

HEAD REVEAL, FINISH TO MATCH COLUMN COVER OR ACCENT COLOR SHIPPED LOOSE

COLUMN COVER

FINISHED CEILING

3/4" TO 6"

FINISHED FLOOR

3/4" TO 6"
8) Optional Adjustable Spring Ring at Column Cover Head
Column and Beam Cladding

9) Optional Reveals at Sealed Column Covers

- FINISHED CEILING
- COLUMN COVER
- 16 GAGE MINIMUM FRAMING AS REQUIRED
- BASE REVEAL, FINISH TO MATCH COLUMN COVER OR ACCENT COLOR
- CONTINUOUS BACKER ROD AND SEALANT
- 6" MAX

Metal Sales & Service, Inc. 200 Gale Lane, Kennett Square, Pa. 19348 800.321.7816 metalwerksusa.com
10) Optional Head
11) Standard Horizontal Joint
12) Optional Horizontal Joint

STANDARD JOINT FOR KEYHOLE SLOT CONNECTION

#12 FASTENERS AS REQUIRED

REVEAL RING, FINISH TO MATCH COLUMN COVER OR ACCENT COLOR

6" MAX

16 GAUGE MINIMUM FRAMING AS REQUIRED

OPTIONAL REVEAL JOINT
RECOMMENDED FOR INTERIOR USE ONLY
13) Standard Beam Wrap

GALVANIZED STEEL OR ALUMINUM FRAMING AS REQUIRED

STRUCTURAL STEEL BEAM NOT BY MSS

BEAM ENCLOSURE PANEL

#12 SELF DRILLING FASTENERS AS REQUIRED

OPTIONAL CAULK JOINT
14) Optional Column Cover and Beam Wrap Profiles