

# ARCHITECTURAL BARRIER WALL SYSTEMS



**Metalwërks®**

Omniplate 1500 is an economical barrier wall system with visible caulk joints at all horizontal and vertical panel joints. As a barrier wall, Omniplate 1500 serves as the primary weather barrier for the building envelope. It can be installed on vertical, sloped or horizontal surfaces over masonry, structural steel, stud backup or within curtain wall designs.

Manufactured from either aluminum or stainless steel plate, Omniplate 1500 provides outstanding freedom of form including curves and complex 3D profiles, and permits challenging transitions without exposed trim or joints.

The system installs with concealed fasteners over studs and continuous sheathing, continuous masonry, or concrete. In addition to walls, the system is suited for vestibules, canopies and eyebrows, as well as for enclosing exposed columns, beams, and pilasters.

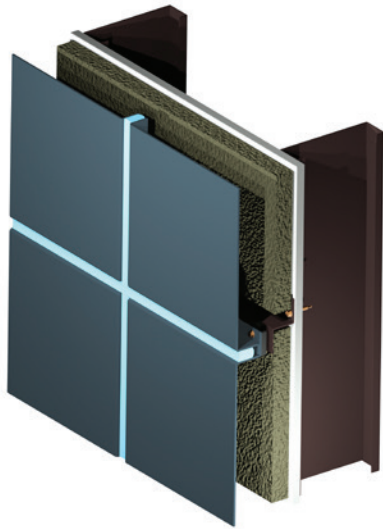


### DETAILS

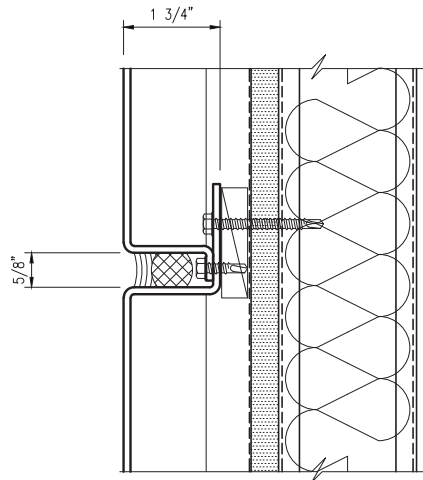
- Manufactured from solid aluminum or stainless plate with integral panel returns formed from a single piece of metal
- Consult with Metalwërks for zinc plate options
- Solid aluminum and stainless steel: high resistance to denting and puncturing, perfect for high-traffic or abusive environments
- Fully mitered and welded corners ground smooth for seamless appearance
- Panel to panel joints created with backer rod and sealant and at panel perimeters to create a complete airtight and watertight exterior barrier including roofs or sloping projected surfaces
- 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
- 0.625" (15.88 mm) wide standard horizontal and vertical joint
- Panels install both horizontally and vertically
- Panels attach with concealed corrosion-resistant self-tapping screws
- Aluminum: post-applied finishing for long-term performance and uniform aesthetic
- 100% recyclable with high percentage of post-consumer and industrial content, which may contribute to LEED credits

### DESIGN OPTIONS

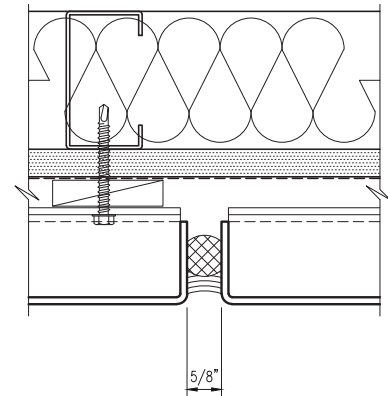
- Panels may be flat, curved, or custom 3D profiles
- Variable reveals: Horizontal 0.5" - 1" (12.7 mm - 25.4 mm); Vertical 0.5" - 1" (12.7 mm - 25.4 mm)
- Unlimited color options for aluminum plate
- Options for #4, #6, #8, and non-directional finishes for stainless plate
- Matching perforated and louvered panels
- Available shop-applied appliqué for accents
- **Optional back-cuts on formed panel edges for a sharper bend and crisper appearance**
- Integrated Copings
- Also compatible as column and beam cladding, canopy cladding, and custom 3D enclosures



**HORIZONTAL JOINT**



**VERTICAL JOINT**



### METAL SUBSTRATE AND FINISH OPTIONS

#### ALUMINUM

##### 3003-H14 aluminum alloy-temper

**Thickness:** 0.125" (3.18 mm) standard, 0.090" (2.29 mm), 0.188" (4.78 mm), 0.25" (6.35 mm) options

**Finishes:** Kynar®, architectural TGIC Polyester powder coating, or anodized

#### STAINLESS STEEL

##### T304 or T316

**Thickness:** 14 gauge (0.078") (1.98 mm) standard, 16 gauge (0.063") (1.60 mm), 12 gauge (0.109") (2.78 mm) options

**Finishes:** #4, #6, #8, and non-directional satin in smooth or custom embossed patterns

### PANEL SIZES

**Widths:** 12" (305 mm) to 65" (1,651 mm)\*

**Lengths:** 12" (305 mm) to 160" (4,064 mm)\*

**Depth:** 1.75" (44.45 mm) minimum

\* Maximum panel size depends upon plate material, gauge, finish, and geometry

### PANEL WEIGHT RANGE

(dependent upon gauge and geometry)

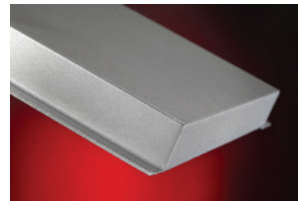
**Aluminum:** 2.22 - 4.02 lbs./ft<sup>2</sup>

**Stainless Steel:** 4.64 - 5.913 lbs./ft<sup>2</sup>

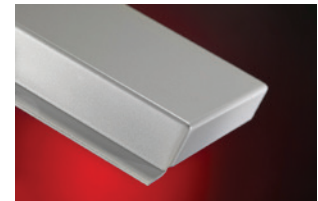
**Zinc:** Consult with Metalwerks

Ranges provided for clarification. Consult with Metalwerks for further options.

### SHARP CORNER



### STANDARD CORNER



### ACCESSORIES

**Flashing:** Formed sheet metal flashing which may be required at base or penetration conditions produced in the same material finish as the panel system

**Coping:** May be produced with the same material as the wall panel system

**Furring Channels:** As required for proper mounting of panels in 16 gauge minimum thickness

**Fasteners:** Type 304 Stainless Steel or Cadmium plated as recommended for specific application

**Shims:** High impact thermally-broken plastic shims to maintain co-planar surfaces

### TESTING

**Air Infiltration:** When tested in accordance with ASTM E 283-04

**Water Infiltration:** No water infiltration shall occur when tested in accordance with ASTM E 331-00 and AAMA 501.1-05 (Static and Dynamic Pressure Water Resistance)

**Structural:** When tested in accordance with ASTM E330-02

**ASTM B 209:** Standard Specification for Aluminum and Aluminum-Alloy Sheet and Steel

**AAMA 2605.2:** Voluntary Specification for High Performance Organic Coatings on Architectural Aluminum Extrusions and Panel

### 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



Omniplate 2510 is a premium dry-sealed barrier wall system with panel faces made from solid metal plate with no exposed sealants or gaskets. These plate faces are structurally attached to extruded aluminum perimeter framing comprising the panels' interlocking horizontal joinery. Best suited for horizontally oriented wall design, the vertical gutters capture the drainage from the horizontal joints and shed water to exterior base.

2510 is ideal for flat or curved walls and soffits where the design intent is for pronounced reveals between the panel units and extremely sharp panel edges. Panel frame is exposed as a design element with a deep reveal in matching or contrasting colors.

The system installs with concealed fasteners over studs and continuous sheathing, continuous masonry, or concrete. The panel frame is extremely stiff due to the interlocking components of the assembly, and tested to high wind loads.



### DETAILS

- Manufactured from solid aluminum or stainless plate with extruded aluminum framing
- Consult with Metalwërks for zinc plate options
- Solid aluminum and stainless steel: high resistance to denting and puncturing, ideal for high-traffic or abusive areas
- Factory mitered corners
- 0.5" (12.7 mm) standard horizontal and vertical joint with variable options
- Integrated reveals in matching or contrasting finish
- Adjustable furring to address variable construction tolerances
- Concealed horizontal gutters that weep moisture to the exterior through baffled weep holes
- Non-Combustible: minimal smoke or fuel contribution
- Avoids NFPA 285 complications by avoiding thermo-plastic cores
- Horizontally oriented wall design
- All panel systems are reinforced/stiffened to resist deflection limits
- Concealed fastened using corrosion-resistant self-tapping screws into an engineered screw pocket with integrated drip edge

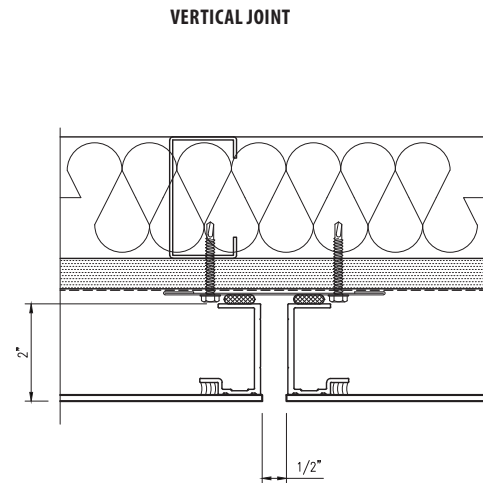
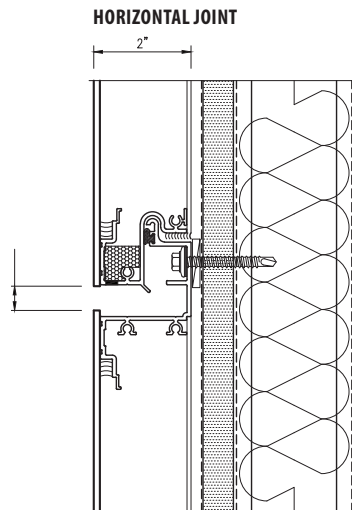
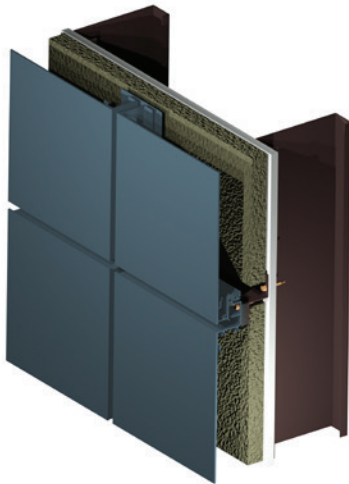
- Aluminum: post-applied finishing for long-term performance and uniform aesthetic
- 100% recyclable with high percentage of post-consumer and industrial content, which may contribute to LEED credits

### DESIGN OPTIONS

- Panels may be flat or curved
- Variable reveals: Horizontal 0.5" - 2" (12.7 mm - 50.8 mm); Vertical 0.25" - 6" (6.35 mm - 152.4 mm)
- Unlimited color options for aluminum plate
- Options for #4, #6, #8, and non-directional finishes for stainless plate
- Optional secondary color for panel framing and reveals
- Matching perforated and louvered panels
- Projecting eyebrows with integrated framing can be included
- Available shop-applied appliques for accents
- Enclosures for exposed columns, beams or pilaster features can be clad using the same material and finishes and joint treatments to achieve matching aesthetics

# Omniplate™ 2510

## Dry-Sealed Barrier Wall System



### METAL SUBSTRATE AND FINISH OPTIONS

#### ALUMINUM

##### 3003-H14 aluminum alloy-temper

**Thickness:** 0.125" (3.18 mm) standard, 0.188" (4.78 mm), 0.25" (6.35 mm) options

**Finishes:** Kynar®, architectural TGIC Polyester powder coating, or anodized

#### STAINLESS STEEL

**T304 or T316** for enhanced corrosion resistance

**Thickness:** 11 gauge (0.125") (3.18 mm) standard, 14 gauge (0.078") (1.98 mm), 12 gauge (0.109") (2.78 mm), 8 gauge (0.172") (4.37 mm), 7 gauge (0.188") (4.78 mm) options

**Finishes:** #4, #6, #8, and non-directional satin in smooth or custom embossed patterns

### PANEL SIZES

**Widths:** 12" (305 mm) to 72" (1,829 mm)\*

**Lengths:** 12" (305 mm) to 240" (6,096 mm)\*

**Depth:** 2.25" (57.15 mm)

\* Maximum panel size depends upon plate material, gauge, finish, and geometry

### PANEL WEIGHT RANGE

(dependent upon gauge and geometry)

**Aluminum:** 2.22 - 4.42 lbs./ft<sup>2</sup>

**Stainless Steel:** 6.32 lbs./ft<sup>2</sup>

**Zinc:** Consult with Metalwërks

Ranges provided for clarification. Consult with Metalwërks for further options

### ACCESSORIES

**Flashing:** Formed aluminum or stainless steel sheet metal flashing which may be required at base or penetration conditions produced in the same material finish as the panel system

**Coping:** Wall copings may be produced with the same material as the wall panel system unless otherwise noted

**Furring Channels:** As required for proper mounting of panels in 16 ga. minimum thickness

**Perforated Panels or Louvered Vents:** For accents, screening or ventilation. Consult with Metalwërks for options

**Fasteners:** Type 304 Stainless Steel or Cadmium plated as recommended for specific application

**Shims:** High impact thermally-broken plastic shims to maintain co-planar surfaces

### TESTING

**Air Infiltration:** When tested in accordance with ASTM E 283-04

**Water Infiltration:** No water infiltration shall occur when tested in accordance with ASTM E 331-00 and AAMA 501.1-05 (Static and Dynamic Pressure Water Resistance)

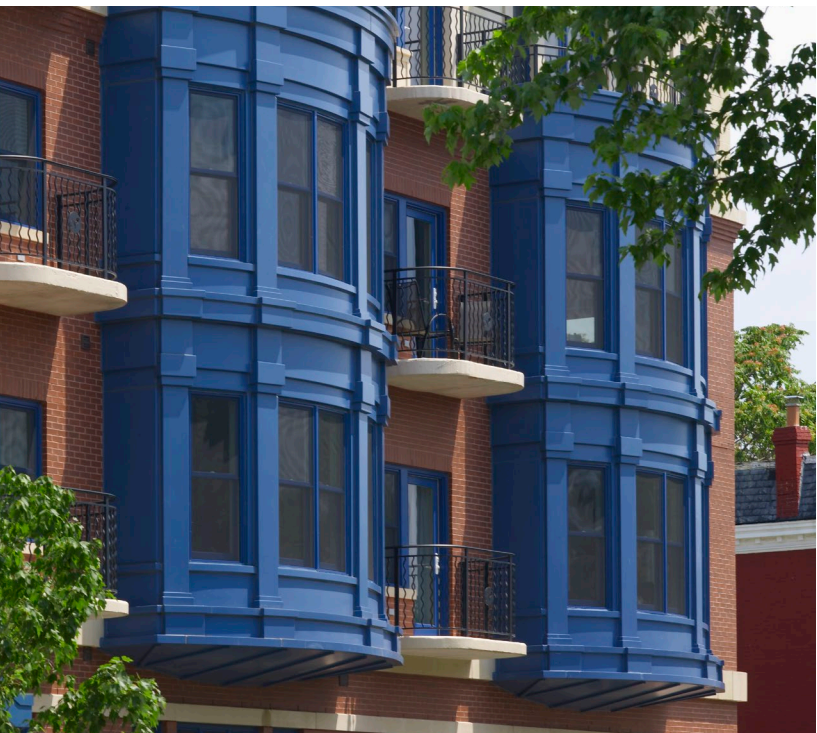
**Structural:** When tested in accordance with ASTM E330-02

**AAMA 2605-13:** *Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels*

### 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



200 Gale Lane  
Kennett Square, PA 19348  
[metalwerksusa.com](http://metalwerksusa.com)  
800-321-7816