

Metalwërks® Arcwall 2510



Applications:

For use in exterior wall cladding when the A/E desires a solid metal, high performance, dry-joint exterior cladding system. A smooth cladding material comprised of Aluminum OR Stainless Steel for insulated and/or non-insulated cladding applications over continuous masonry or stud/sheathing substrates where a suitable air/water barrier can be applied. Flexible joint designs enable the designer to articulate almost any vertical and horizontal joint rhythm or pattern.

Features and Benefits:

- All products are engineered and manufactured in-house. Fully tested to meet or exceed performance values mandated by ASTM E 283-04; 331-00; 330-02.
- The panel system employs concealed closed cell foam gaskets and extruded aluminum frames including internal horizontal gutter and vertical reveal flashing to fully express a 2" joint depth. Consult Sales for alternative design options.
- Standard 1/2" wide vertical and horizontal joints are open to minimize dirt and maximize the appearance. No exposed sealants to retain dirt and create streaking.
- With the interlocking horizontal joint, panels are secure yet free floating to accommodate thermal expansion and contraction.
- All panels are custom fabricated and not limited by minimum production runs in standard or custom colors
- Superior impact resistance to composite material or foamed in place panels.
- Cee shaped vertical flanges provide exceptional cross sectional strength tested up to 100PSF wind loads with Aluminum facings and 50PSF with Stainless Steel facings.

Product Applications:

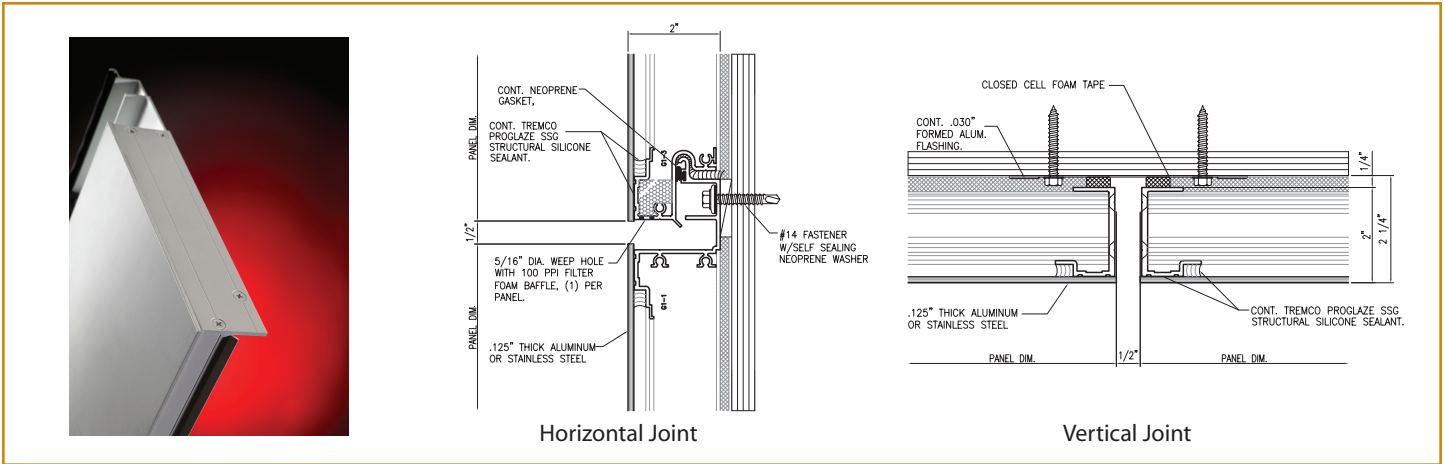
- Any vertical exterior wall surface application with continuous air/water barrier.
- Articulations: Dry Set Wall Cladding Systems rely on gravity to drain water out of the wall cavity. All horizontal surfaces should be sealed which include copings, soffits, and sloped conditions. To minimize water penetration, all perimeter conditions to be flashed and sealed. Accents applied to face of panel that do not interrupt the air water barrier may not require sealant. Consult Sales for design options.
- Panel systems attach to various substrates including but not limited to studs & exterior sheathing; CMU Block walls and Concrete substrates.
- Solid metal panels are particularly useful where metal panels are used in pedestrian areas due to superior impact performance compared to other composite metal panel cladding products.
- For use on LEED projects- consult our staff for specific areas of contribution.
- Enclosures for exposed columns beam or pilaster features can also be clad using matching materials and joint treatments to provide similar aesthetics.



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Metalwërks® Arcwall 2510



PRODUCT DESCRIPTION:

ArcWall 2510 is a Horizontally oriented cladding system and is used as a non insulated and/or insulated Rear sealed dry set wall cladding system utilizing solid aluminum or stainless steel for vertical wall surfaces over continuously sheathed or masonry substrates covered with an appropriate air/water barrier.

PANEL SYSTEM COMPONENTS AND MATERIAL DESCRIPTIONS:

Arcwall 2510 system is a “Dry-set” Design with extruded aluminum interlocking horizontal joints. Other system accessories:

- Panel units: Panels are comprised of solid aluminum or stainless steel sheets structurally siliconed to 0.090” thick [nominal] 6063 T6 extruded aluminum frames.
- Panel Face Material: Standard facings are 3003 H14 aluminum alloy and temper or 304 & 316 Alloy Stainless Steel. Standard offerings include: minimum .125” thickness (1/8” or 3mm) standard (aluminum or Stainless Steel), .190” thickness (3/16” or 4.5 mm) Aluminum; .250” thickness (1/4” or 6mm) Aluminum. Other materials available subject to factory limitations.
- Stiffeners: Extruded aluminum panel stiffeners interlocked to the panel frames and structurally adhered to panel face with structural silicone of sufficient size and strength to maintain panel flatness and deflection resistance.
- Horizontal panel uses two interlocking continuous 6063 T6 panel retention extrusions. Interlocking profiled joint allows for thermal expansion, directs moisture horizontally to verticals and saves field labor by reducing fasteners.
- Total system depth is 2-1/4”. Additional space is allowable to provide a “Continuous Insulation” layer or an adjustable 2 piece furring. Consult for system depth adjustments based on preferred insulation and R value.
- Vertical reveal flashing receive drainage from horizontal gutters and drains moisture to exterior. Reveal flashing is sealed to back of panel with concealed compressible closed cell foam tape.
- Perimeter flashing is provided to drain moisture to the exterior and effect seals to adjacent construction.

SIZES AND SHAPES:

Panels are custom formed to specific project design requirements.

- Panel height: minimum 12” up to 60”. Larger sizes are subject to factory limitations.
- Panel length: optimal sizes up to 168” with longer sizes available. Larger sizes are subject to factory limitations.
- Panels are strong enough to receive shop applied appliqué for additional design accents. Consult sales for design options.

ACCESSORIES:

- Flashing: 0.040” thick to 0.063 aluminum sheet metal trim.
- Coping /Fascia options: Same material as the wall panel system or in aluminum / stainless steel sheet metal to match.
- Furring channels fabricated from G-90 Glav. Steel, 3003 Aluminum or 304 Stainless Steel. Shape, size and spacing as required per project specific structural requirements.

TECHNICAL INFORMATION:

- Air Infiltration – ASTM E 283-04 Passed at 0.02 cfm/SF (0.03 allowed). Test conducted at 6.24 psf positive static air pressure difference.
- Static Pressure Water Resistance – ASTM E 331-00: No uncontrolled water leakage – Passed. Test conducted at 10 psf positive static air pressure difference.
- Structural – ASTM E330-02 used for applying loads between tests.

WARRANTY INFORMATION:

- Material & Workmanship - Standard – one year
- Finish Integrity – Standard – 10 year up to 20 years (Not available for Stainless Steel products).

MATERIALS & FINISHES:

Material & Thickness	Metal Spec	Avail Finishes	AAMA Compliance
<input type="checkbox"/> Aluminum 0.125”	3003 H-14	<input type="checkbox"/> Kynar 500	AAMA 2605-05
<input type="checkbox"/> Other _____		<input type="checkbox"/> Polyester Powder	AAMA 2604-05
		<input type="checkbox"/> 70% Fluoropolymer Powder	AAMA 2605-05
Stainless Steel 11Ga (0.125”)	<input type="checkbox"/> 304	#4; #6; Non Directional	
Stainless Steel 11Ga (0.125”)	<input type="checkbox"/> 316	#4; #6; Non Directional	
Stainless Steel	<input type="checkbox"/> Other _____		

