



TECHNICAL DATA SHEET

METALITE 3100
High-Performance Vertical Wall Aluminum
Composite Material System
DS1010

PRODUCT DESCRIPTION

Metalite 3100 is a high-performance vertical wall system, suitable for use in the most demanding applications. Designed, engineered, and tested to the highest performance criteria, this system provides unrivaled structural integrity. The system is custom-fabricated with Aluminum Composite Material (ACM) or Metal Composite Material (MCM) - known for flatness, ease of fabrication, and clean, sleek appearances - to achieve virtually any design. Proven, durable architectural coatings including Kynar®, as well as natural metals such as anodized aluminum, brushed aluminum, stainless steel, and copper, ensure that the system will last the life of the building.

FEATURES & BENEFITS

The Metalite 3100 System incorporates a route-and-return fabrication technique with continuous proprietary interlocking extrusions. The material return legs are fully encapsulated within the extrusion for a clean, crisp, open joint. The panel joints do not require filed-applied sealants as the weatherproofing is engineered into the joinery via concealed, integral gaskets. As further protection against moisture entrapment, the system is weeped to allow condensation to escape the cavity wall. Integral stiffeners are included on larger modules to strengthen the field of the panel.

LIMITATIONS

- Common sheet width limitation: 62", common sheet length limitation: 196", maximum thickness: 6mm, and optimal panel joint width (inside of reveal): 3/4".
- Custom color mica and metallic samples will have draw down lines.
- Refer to IBC Chapter 14 for standard core (polyethylene) applications.
- Not suitable material for break-forming, roll-forming, roofing, or coping material.
- Joints should not face upward.
- Some finishes may exhibit oil-canning.
- Some material must be assembled. (e.g. three-sided panels, cornice profiles)
- Do not install within 9" of proposed landscaping.
- Most material cores should not be exposed.
- Metallic and anodic finishes are batch sensitive and have a grain direction.
- Requires 16-gauge drywall studs, 16" on center.
- A properly installed 3100 system may be considered an air and water barrier within tested limits. For purposes of envelope continuity, the wall assembly should include a permeable, fluid-applied air barrier on the exterior side of the sheathing.
- Extrusion color of joint detail is black.

WARRANTY

A repair or replacement warranty is available on all Dryvit products. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES

SYSTEM PROPERTIES		TYPICAL RESULTS
System Depth		1 7/8"
Joint Width		1/2" (nominal)
System Weight		2.89 lbs/ft ²
Aluminum Extrusion Alloy		6063 T6
Minimum Structural Substrates		16 ga Steel Studs
Fasteners		#12-24 Self-Drilling
Air Infiltration @ 6.24 psf		<0.01 cfm/ft ²
Water Resistance Test Pressure		15.00 psf
Uniform Load Deflection		+100.25 psf
Uniform Load Structural		+150.38 psf
AAMA 509		W1, V1
SHEET PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	mm	4
WEIGHT	POUNDS PER FT²	1.56
Peel strength	In. x lbs./in.	22.5 minimum
Coefficient of expansion	in./in./°F	13 x 10 ⁻⁶
Tensile Yield	PSI	6344
Tensile strength	PSI	7126
Elongation	%	5
NFPA (Pass or Fail)		Passed**
Flame Spread	ASTM E84	0
Smoke Development	ASTM E84	10
Flash Point	°F	811
Self-ignition Temperature	°F	837
Fire Testing - 1 Hour	ASTM E119	Passed**
Fire Testing - 2 Hours	ASTM E119	Passed**

**Wall assembly specific

Testing was conducted on a vertical lab specimen; final system applications is the responsibility of the design team.

Please refer to our website at www.dryvit.com for the most up-to-date Product Data Sheets.

NOTE: All Dryvit Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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