



FORMAWALL FWDS®

TECHNICAL DATA SHEET

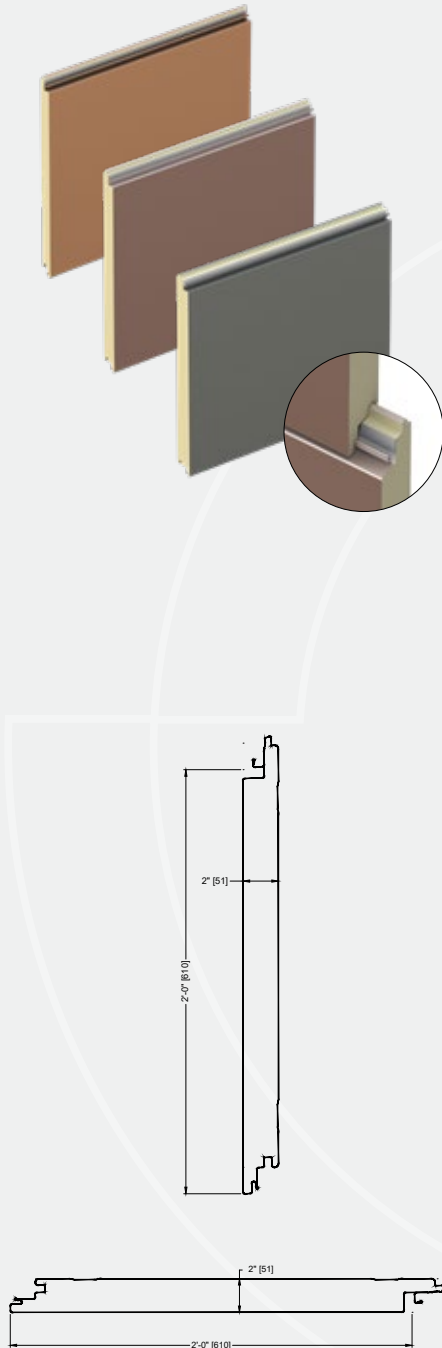


DESCRIPTION

Formawall Dimension Series panels provide a modern, monolithic appearance to the building facade. This system works as a single component to provide all necessary building control layers along with an outstanding aesthetic. Formwall Dimension Series panels integrate easily with our window, louver and sunshade systems to provide a complete building envelope system. This system provides an uninterrupted appearance in horizontal and vertical applications with concealed clips, fasteners, sealants and the standard Insulated Metal Vertical (IMV) joint.

GENERAL DESIGN OPTIONS

FORMAWALL DIMENSION SERIES			
PANEL THICKNESS	2" [51mm], 2½" [64mm], 3"-T [76mm]		
PANEL MODULE	24" [610mm], 30" [762mm], 36" [914mm] Custom Modules: 10" [254mm] - 40" [1016mm]		
PANEL CORE	Red List-free, Foamed-in-placed polyisocyanurate (PIR)		
THERMAL VALUES *		R Value	U Factor
	2"	R- 16.0	0.069
	2½"	R- 20.1	0.056
	3"-T	R- 24.1	0.045
END JOINT	5/8" Insulated Metal Vertical (IMV) Joint (Optional: 1", 2", 3" IMV or 5/8" Gasket)		
SIDE LAP	Double tongue and groove		
SIDE LAP REVEAL	½" Horizontal		
	⅛" Vertical		
STANDARD PANEL LENGTHS	Embossed	Flat - 5' [1.52m] - 37' [11.3m]	
		Striated - 5' [1.52m] - 37' [11.3m]	
	Smooth	Flat - 5' [1.52m] - 16' [4.9m]	
		Striated - 5' [1.52m] - 20' [6.1m]	
304 Stainless	Flat - 5' [1.52m] - 16' [4.9m]		
STANDARD EXTERIOR FACE & GAUGE	22 ga. Embossed, Flat		
OPTIONAL EXTERIOR FACE & GAUGE	20 ga. Embossed, Flat, 20, 22, 24 ga. Embossed, Striated, 20, 22 ga. Smooth, Flat or Striated		
STANDARD INTERIOR LINER & GAUGE	26 ga. Embossed, Planked		
OPTIONAL INTERIOR LINER & GAUGE	20, 22 ga. Embossed, Planked 20, 22 ga. Embossed, Flat 20, 22 ga. Smooth, Planked		
WEIGHTS	2"	2.72-4.57 lbs./sq. ft.	
	2½"	2.88-4.81 lbs./sq. ft.	
	3"-T	3.03-5.06 lbs./sq. ft.	



Special Approvals







- CCRR Intertek Code Compliance Research Report (Intertek CCRR-0276)
- Florida Product Approval HVHZ (Miami-Dade NOA) (Approval No. FL20381 and FL31378)
- Florida Product Approval non-HVHZ (Approval No. FL31378)

DESIGN FEATURES & BENEFITS

- May be installed horizontally or vertically and is available in a variety of reveals, thicknesses and profiles
- Concealed clips, fasteners and sealants, combined with Insulated Metal Vertical (IMV) Joints, provide an uninterrupted appearance in horizontal applications
- Pressure-equalized side joint to help prevent water infiltration
- Pressure-equalized end joint available with optional Seal Plate
- Unlike laminated insulated metal panels, Formawall Dimension Series is factory foamed in-place, minimizing the potential for gaps within the panel
- Can be integrated with other Formawall profiles to create unique looks



FORMAWALL DIMENSION SERIES TESTING

TEST	TEST METHOD	TEST TITLE	RESULTS
 FIRE US	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread <20 Smoke Development <250
	ASTM E119/UL 263	Fire Tests of Building Construction and Materials	See UL Fire Resistance Directory for tested assemblies
	NFPA 259	Standard Test Method for Potential Heat of Building Materials	Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285
	NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Various tested assemblies meet the requirements of the standard
	NFPA 268	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source	Assembly tested meets the requirements of the standard
	FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	See FM Approval Listings
	FM 4882	Class 1 Interior Wall and Ceiling Materials for Smoke Sensitive Occupancies	See FM Approval Listings
 FIRE CANADA	CAN/ULC S101	Standard Methods of Fire Endurance Tests of Building Construction and Materials	Meets 10 minute stay-in-place requirements
	CAN/ULC S102	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies	Flame spread rating- 30 Smoke developed classification- 235
	CAN/ULC S134	Standard Method of Fire Test of Exterior Wall Assemblies	Assembly tested meets the requirements of the standard
 STRUCTURAL	ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables
	FM 4881	Class 1 Exterior Wall Structural Performance	See FM Approval Listings (VSH Rating)
 THERMAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus*	2" R Value = R-16.0 2½" R Value = R-20.1 3" R Value = R-24.1
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	2" U Factor = 0.069 2½" U Factor = 0.056 3" U Factor = 0.045
 AIR INFILTRATION	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	< 0.01 cfm/ft ² air infiltration rate at static pressure differential of 6.24 psf
 WATER INFILTRATION	ASTM E331	Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference	No uncontrolled water penetration at static pressure differential of 6.24 psf for 2 hours (IBC Section 1402) and 15 psf for 15 minutes
	AAMA 501.1	Standard Test Method for Water Penetration of Exterior Walls Using Dynamic Pressure	No leakage at a dynamic pressure of 15 psf for 15 minutes

* R-Value based upon ASTM C518 at 35 degrees and U-Factor based upon ASTM C1363 at 35 degree

NOTES

- For information on special applications, contact your local CENTRIA Sales Representative.
- Maximum support spacing and panel length may be limited for medium and dark colors due to thermal stress, consult CENTRIA.
- Length limitations may vary based on color. Contact CENTRIA for details.