

# FORMAWALL DIMENSION SERIES<sup>®</sup>

## TECHNICAL DATA SHEET

### DESCRIPTION

Formawall Dimension Series panels provide a modern, monolithic appearance to the building façade. This system works as a single component to provide all necessary building control layers along with an outstanding aesthetic. Formawall 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 +		U Factor BTU/hr•ft²•°F	R Value hr•ft²•°F/BTU
	2"	0.069	16.0
	2½"	0.056	20.1
	3"-T	0.045	24.1
END JOINT	5/8" Insulated Metal Vertical (IMV) Joint (Optional: 1", 2", 3" IMV or 5/8" Gasket)		
SIDE LAP	Double tongue and groove; pressure equalized		
SIDE LAP REVEAL	½" Horizontal ⅛" Vertical		
	Optional Reveal: ¼", 1" to 6" in ½" increments		
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 (Exterior only)	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.	

\* 2" smooth exterior panels require 22 ga. non-planked/flat liner

+ U-Factor & R-Value per ASTM C1363/simulation & ASTM C518 and based on a mean temperature of 35° F; Standard IP unit convention shown.






° Panel lengths may be limited from standard offerings based on color & thermal movement; contact CENTRIA for assistance.

## FORMAWALL DIMENSION SERIES 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	Meets requirements of Class A per IBC Section 803.1.2 (FS < 25, SD < 450)
	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	Meets requirements of IBC 2603.5.3
	NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Numerous Assemblies meet requirements of IBC Section 2603.5.5; Contact CENTRIA for assistance
	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 requirements of Article 3.1.5.7 (2b)
	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	Meets requirements of Article 3.1.5.5 (1b)
 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*	U Factor BTU/hr•ft <sup>2</sup> •°F
			R Value hr•ft <sup>2</sup> •°F/BTU
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies*	2" 0.069 16.0 2½" 0.056 20.1 3"-T 0.045 24.1
 AIR INFILTRATION	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	< 0.01 cfm/ft <sup>2</sup> 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
 ACOUSTICAL	ASTM E 90 & ASTM E 413	Airborne Sound Transmission Loss of Building Partitions Classification for Rating Sound Insulation	Assemblies available ranging from STC= 23 to 45 & OITC= 23 to 34; Contact CENTRIA for assistance
SPECIAL APPROVALS	Florida Product Approval HVHZ	Product Approval for HVHZ areas in the State of Florida	(Approval No. FL20381 AND FL31378)
	CCRR Intertek Code Compliance Research Report		(Intertek CCRR-0276)

\*U-Factor & R-Value per ASTM C1363/Simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown.

## 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.