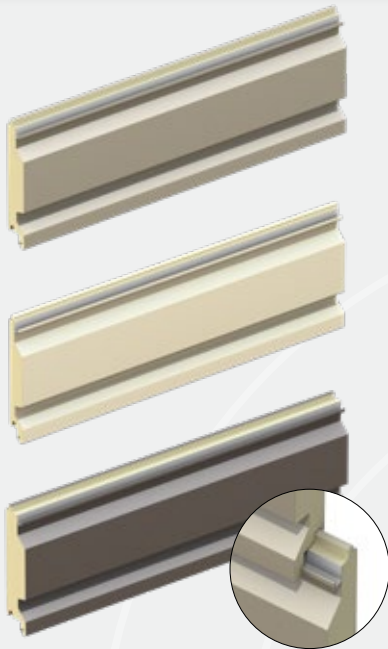




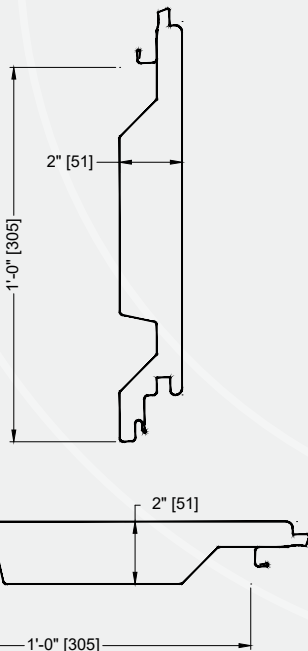
DESCRIPTION

Formawall Dimension Series DS59 Profile features two steep slopes above and below the panel joint, creating an alternating large and small high cell pattern, along with maximum thermal performance and moisture control. This option can be integrated with flat or other profiled panels as well as Formavue Windows, CS Sunshades, CS Louvers and translucent panels.



GENERAL DESIGN OPTIONS

FORMAWALL DS59			
PANEL THICKNESS	2" [51mm], 2½" [64mm], 3"-T [76mm]		
PANEL MODULE	12" [305mm]		
PANEL CORE	Red List-free, Foamed-in-placed polyisocyanurate (PIR)		
THERMAL VALUES *		R Value	U Factor
	2"	R- 16.0	0.089
	2½"	R- 20.1	0.065
	3"-T	R- 24.1	0.053
END JOINT	⅝" Insulated Metal Vertical (IMV) Joint (Optional: 1", 2", 3" IMV or ⅝" Gasket)		
SIDE LAP	Double tongue and groove		
SIDE LAP REVEAL	2¼" Standard		
STANDARD PANEL LENGTHS	Embossed	Flat - 5' [1.52m] - 37' [11.3m]	
	Smooth	Flat - 5' [1.52m] - 20' [6.1m]	
	304 Stainless	Flat - 5' [1.52m] - 16' [4.9m]	
STANDARD EXTERIOR FACE & GAUGE	22 ga. Embossed		
OPTIONAL EXTERIOR FACE & GAUGE	20, 22 ga. Smooth 22 ga. #4 Brushed for Stainless		
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"	3.91-4.49 lbs./sq. ft.	
	2½"	3.93-4.62 lbs./sq. ft.	
	3"-T	4.06- 4.74 lbs./sq. ft.	








DESIGN FEATURES & BENEFITS

- May be installed horizontally or vertically and is available in a variety of thicknesses
- 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 DS59 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 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
 STRUCTURAL	ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables
 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 = 0.089 2½" U Factor = 0.065 3" U Factor = 0.053
 AIR INFILTRATION	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	< 0.01 cfm/ft2 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

* 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.