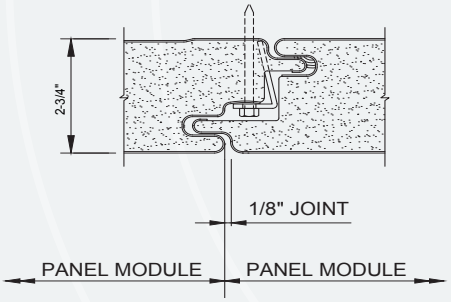
VERSAWALL V+ ®
TECHNICAL DATA SHEET



2¾" Panel Joint

DESCRIPTION

Versawall V+ Insulated Metal Panels create an attractive and energy efficient wall where vertical applications are desired. Available in Flat, Striated and Planked profiles and up to 4" thickness to create a high-performing building envelope. Ideal for government or manufacturing facilities, schools, distribution centers or arenas. Versawall V+ panels are remarkably strong and provide a outstanding protection with lengths to 37'.

GENERAL DESIGN OPTIONS

	VERSAWALL V+		
PANEL THICKNESS	2" [51mm], 2¾" [70mm], 4" [102mm]		
PANEL MODULE	30" [762mm], 36" [914mm]		
PANEL CORE	Foamed-in-placed polyisocyanurate (PIR)		
THERMAL VALUES *		R Value	U Value
	2"	R- 16.2	0.065
	2¾"	R- 22.3	0.048
	4"	R- 32.5	0.036
END JOINT	Stack Joint		
SIDE LAP	Double tongue and groove		
SIDE LAP REVEAL	1/8"		
STANDARD PANEL LENGTHS	Embossed	Flat - 6' [1.8m] - 37' [11.3m] 21' [6.4m] - Dark Colors Only 37' [11.3m] - Light Colors Only	
	Smooth	Flat - 6' [1.8m] - 20' [6.1m] Planked - 6' [1.8m] - 20' [6.1m] Striated - 6' [1.8m] - 20' [6.1m]	
STANDARD EXTERIOR FACE & GAUGE	22 ga. Flat, Smooth		
OPTIONAL EXTERIOR FACE & GAUGE	20, 22 ga. Smooth, Flat, Striated or Planked 20, 22 ga. Embossed, Flat		
STANDARD INTERIOR LINER & GAUGE	26 ga. Planked, Embossed*		
OPTIONAL INTERIOR LINER & GAUGE	20, 22, 24 ga. Planked, Embossed		
WEIGHTS	2" = 2.67 - 3.81 lbs./sq. ft. 2¾" = 2.85 - 4.00 lbs./sq. ft. 4" = 3.17 - 4.31 lbs./sq. ft.		

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

Special Approvals

- Florida Product Approval HVHZ (Miami-Dade NOA) (Approval No. FL29083)
- Florida Product Approval non-HVHZ (Approval No. FL3155)
- LA City Research Report (LARR) (LARR Report No. 25578)

DESIGN FEATURES & BENEFITS

- Lightweight vertical panels lower installation costs.
- Increased span capability reduces support steel requirements.
- Thermal break between face and liner saves energy.
- Factory-applied panel joint sealant, together with field-applied sealant, create an air and vapor barrier that provides outstanding weather resistance.
- Versawall can be used for interior partitions.
- Available with factory-formed sheet metal flashing or extruded aluminum trim.

VERSAWALL V+ TESTING

TEST	TEST METHOD	TEST TITLE	RESULTS
FIRE US	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread <25 Smoke Development <300
	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 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	Assembly tested with Versawall wall panels and Versapanel roof panels and meets the requirements of the standard (IBC Section 803)
	FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	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- 25 Smoke developed classification- 240
	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 (SH Rating)
THERMAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus*	2" R-value- R-16.2 2¾" R-value- R-22.3 4" R-value- R-32.5
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	2" U=0.065 2¾" U=0.048 4"U=0.036
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 30 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 30 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 @ 35 degrees and U-Factor based upon ASTM C1363 at 35 degree

NOTES

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