

METALWRAP™ LONG SPAN SERIES

TECHNICAL DATA SHEET

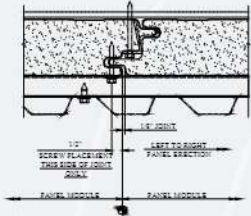
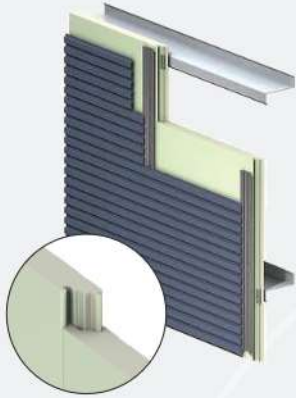
DESCRIPTION

CENTRIA MetalWrap™ Insulated Composite Backup Panel System is designed to be used with CENTRIA metal wall panel cladding to create a complete rainscreen system solution. In addition, MetalWrap is designed to work with a variety of other cladding materials as the backup system making it an excellent solution when multiple cladding materials are used on a project. The unique composite design of MetalWrap provides an air barrier, vapor barrier, moisture barrier, and thermally efficient building product with total wall values that exceed code requirements in a single, easy-to install component. MetalWrap is a foam composite panel constructed of two roll formed steel faces surrounding and entirely bonded to a closed cell poured-in-place polyisocyanurate foam core. The exterior steel face is compositely bonded to the interior steel face but is otherwise isolated from contact to improve the panel's thermal properties. The MetalWrap Long Span Series provides flexible options when attaching direct to steel girts up to 6' o.c.

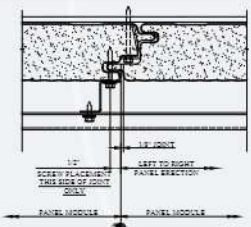
GENERAL DESIGN OPTIONS

METALWRAP LONG SPAN			
ORIENTATION	Vertical		
SIDE JOINT	Double Tongue and Groove		
PANEL THICKNESS	2" [51mm], 2¾" [70mm], 4" [102mm]		
PANEL WIDTH	30" [762mm], 36" [914mm]		
PANEL CORE	Foamed-in-place polyisocyanurate (PIR)		
THERMAL VALUES*		U Factor BTU/hr•ft²•°F	R Value hr•ft²•°F/BTU
	2"	0.063	16.7
	2¾"	0.046	23.0
	4"	0.034	33.5
STANDARD PANEL LENGTH	12' or 20'		
OPTIONAL PANEL LENGTH	6' to 45' (minimum quantities and charges may apply)		
SUBSTRATE	G90 Galvanized Steel		
STANDARD EXTERIOR FACE & GAUGE	22 ga. Non-Embossed, Flat		
OPTIONAL EXTERIOR FACE & GAUGE	20 ga. Non-Embossed, Flat		
STANDARD INTERIOR LINER & GAUGE	26 ga. Non-Embossed, Planked		
OPTIONAL INTERIOR LINER & GAUGE	20, 22, 24 ga. Non-Embossed, Planked		
FINISH	Polyester/Epoxy Primer - Both sides		
SUPPORT REQUIREMENT	Steel Girts		
ATTACHMENT METHOD	Panel Clips		
SEALING METHOD	Joinery has factory applied sealant. Panel ends and marriage beads applied during installation.		
EXTERIOR CLADDING ATTACHMENT METHOD	Subgirts attached into panel joint (22 ga. face min.)		
WEIGHTS (22 ga.)	2"	2.67 - 3.81 lbs./sq. ft.	
	2¾"	2.85 - 4.00 lbs./sq. ft.	
	4"	3.17 - 4.31 lbs./sq. ft.	

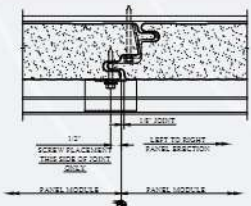
* U-Factor & R-Value per ASTM C1363/Simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown.



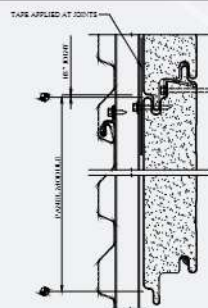
Long Span Vertical with Horizontal Subgirts for Vertical Cladding



Long Span Vertical with Vertical Subgirts for Horizontal Cladding



Long Span Vertical with Horizontal Concept Series using Stand Off Clips










Long Span Horizontal with Vertical Subgirts for Horizontal Cladding

METALWRAP LONG SPAN DESIGN FEATURES & BENEFITS

- Provides an air barrier, vapor and moisture control, drain plane and thermal performance in one composite component
- Virtually eliminates water penetration, air infiltration and thermal bridges
- Encloses the building up to 50% faster in all weather conditions compared to traditional built-up wall systems
- Thermal performance of the integrated assembly achieves U-factors that meet or exceed IECC and ASHRAE 90.1 code requirements
- Fully tested for air and water infiltration
- Attachment systems offer enhanced flexibility, faster installation and superior thermal performance throughout the joint



METALWRAP LONG SPAN 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		
	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	Assembly meets requirements of IBC Section 2603.5.5; Contact CENTRIA for assistance		
	NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	Meets requirements of 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 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 = 25 Smoke developed classification = 240		
	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	Contact CENTRIA E&D Department for structural capabilities		
	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*		U-Factor BTU/hr-ft ² · F	R-Value (hr-ft ² · F)/BTU
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies*	2"	0.063	16.7
			2½"	0.046	23.0
			4"	0.034	33.5
 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		
	ASTM E2357	Standard Test Method for Determining Air Leakage of Air Barrier Assemblies	Assembly tested meets the requirements of the standard (joints taped)		
 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	2" (26 ga./26 ga.):		STC = 23
			2" (26 ga./26 ga.) w/ L 2-3 Liner, 3" Unbagged Insulation, & 3" Encapsulated Insulation		STC = 48
			4" (20 ga./20 ga.):		STC = 26
			Assemblies available ranging from STC=23 to 48; Contact CENTRIA for assistance		
SPECIAL APPROVAL	Florida Product Approval non-HVHZ	Product Approval for non-HVHZ areas in the State of Florida	Contact CENTRIA for assistance		

* 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 A. For information on special applications, contact your local CENTRIA Sales Representative.