



# METALWRAP™ LONG SPAN SERIES TECHNICAL DATA SHEET

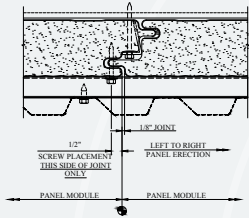
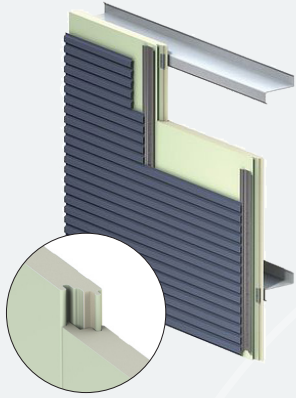


## DESCRIPTION

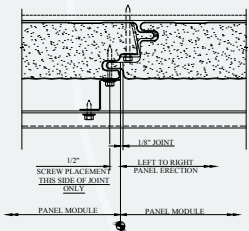
CENTRIA MetalWrap™ Insulated Composite Backup Panel System is designed to be used with CENTRIA metal wall panel cladding to create a complete rainscreen system solution. In addition, MetalWrap is designed to work with all other cladding materials as the backup system making it an excellent solution when multiple cladding materials are used on a project. The unique composite design of MetalWrap provides an air barrier, vapor barrier, moisture barrier and thermal insulation 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

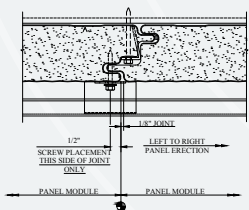
METALWRAP LONG SPAN			
ORIENTATION	Horizontal and Vertical		
SIDE JOINT	Double Tongue and Groove		
PANEL THICKNESS	2" [51mm], 2¾" [70mm], 4" [102mm]		
PANEL WIDTH	30" [762mm], 36" [914mm]		
PANEL CORE	Foamed-in-placed polyisocyanurate (PIR)		
THERMAL VALUES *		R Value	U Factor
	2"	R- 16.2	0.065
	2¾"	R- 22.3	0.048
	4"	R- 32.5	0.036
STANDARD PANEL LENGTH	12' and 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	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.	



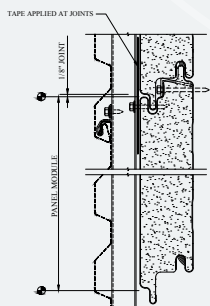
Long Span Vertical with Horizontal Subgirts for Vertical Cladding



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

## 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
- Thermal performance of the integrated assembly achieves U-factors that meet or exceed IECC 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
 <b>FIRE US</b>	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 MetalWrap Long Span 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
 <b>FIRE CANADA</b>	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
 <b>STRUCTURAL</b>	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)
 <b>THERMAL PERFORMANCE</b>	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 Factor = 0.065 2¾" U Factor = 0.048 4" U Factor = 0.036
 <b>AIR INFILTRATION</b>	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 30 psf
	ASTM E2357	Standard Test Method for Determining Air Leakage of Air Barrier Assemblies	Assembly tested meets the requirements of the standard (joints taped)
 <b>WATER INFILTRATION</b>	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
<b>SPECIAL APPROVAL</b>	Florida Product Approval non-HVHZ	Product Approval for non-HVHZ areas in the State of Florida	Contact CENTRIA E&D Department

\* R-Value based upon ASTM C518 at 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.