

# TOTALCLAD™ MW

## INSULATED METAL PANEL

### TECHNICAL DATA SHEET



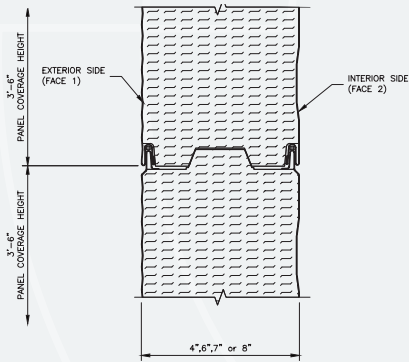
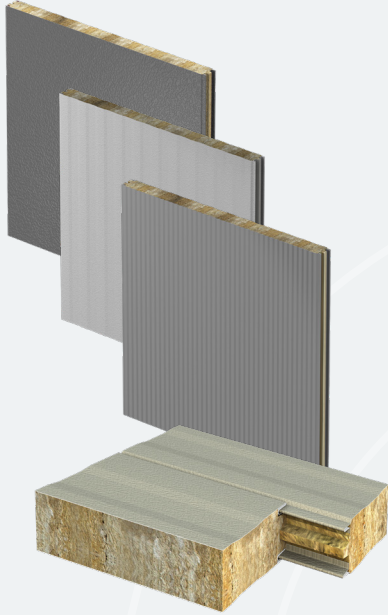
### DESCRIPTION

TotalClad MW fire-resistant insulated metal wall panels reimagine fire protection by offering a single component metal panel solution for both interior and exterior applications. The TotalClad MW fire-resistant insulated metal panel features a fire-resistant mineral wool core that provides superior fire performance as well as good thermal characteristics. The mineral wool core is bonded to exterior and interior metal skins and achieves 1-hour, 2-hour and 3-hour fire ratings with 4", 6", 7" and 8" thick panels, respectively.

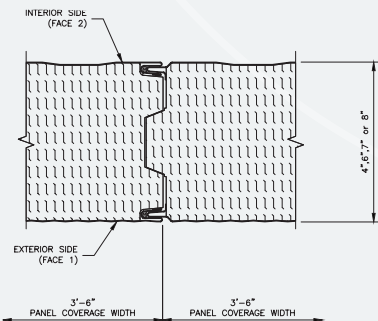
### GENERAL DESIGN OPTIONS

TOTALCLAD MW	
ORIENTATION	Horizontal or Vertical
SIDE JOINT	Double Tongue and Groove
PANEL THICKNESS	4" [102mm], 6" [152mm], 7" [178], 8" [203]
PANEL WIDTH	42" [1067mm]
STANDARD PANEL LENGTH	8' [2.43m] - 40' [12.19m]
CORE MATERIAL	Mineral Wool 8.5 lbs. density
BASE MATERIAL	G-90 Galvanized Steel
EXTERIOR FACE	26, 24 GA. Embossed Striated or Embossed Micro Planked, (1/32" [0.79mm] deep) 26 GA. Heavy Embossed (Flat)
INTERIOR FACE	24 & 26 GA. Micro Planked 1/32", Embossed
THERMAL VALUE	R = 3.6/inch
WEIGHTS	4" = 4.65 lbs/sq. ft. 6" = 6.21 lbs/sq. ft. 7" = 6.92 lbs/sq. ft. 8" = 7.63 lbs/sq. ft.
FIRE RATING <sup>1</sup>	4" - 1 hr. 6" - 2 hr. 7" - 2 hr. 8" - 3 hr.

1. Fire ratings per UL 050
2. For more information on special applications consult CENTRIA.



HORIZONTAL JOINT STRIATED APPLICATION









VERTICAL JOINT STRIATED APPLICATION

## TOTALCLAD MW DESIGN FEATURES & BENEFITS

- 1-hour, 2-hour, and 3-hour fire resistance ratings
- Dimensionally stable, water repellent and will not expand
- Excels in both interior and exterior applications
- Meets the most stringent fire performance building codes
- Ideal for commercial and industrial applications, arenas and manufacturing facilities
- Available in multiple exterior profiles: Striated, Heavy Embossed and Micro Planked (current)



## TOTALCLAD MW TESTING

TEST	TEST METHOD	TEST TITLE	RESULTS
 <b>FIRE</b>	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
 <b>STRUCTURAL</b>	ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	Contact CENTRIA for span capabilities
 <b>THERMAL PERFORMANCE</b>	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus*	3" R-Value = R 10.9
			4" R-Value = R 14.5
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies*	5" R-Value = R 18.2
			6" R-Value = R 21.8
			7" R-Value = R 25.5
			8" R-Value = R 29.1
			3" U Factor = 0.086
			4" U Factor = 0.065
			5" U Factor = 0.053
			6" U Factor = 0.044
			7" U Factor = 0.038
			8" U Factor = 0.034
 <b>AIR INFILTRATION</b>	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	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
 <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 15 psf for 15 minutes
 <b>ACOUSTICAL</b>	ASTM E 90 & ASTM E 413	Airborne Sound Transmission Loss of Building Partitions Classification for Rating Sound Insulation	Assemblies available ranging from STC= 31 to 38 & OITC= 28 to 32; Contact CENTRIA for assistance

\* R-Value & U-Factor per ASTM C518 & ASTM C1363/Simulation, respectively, based on a mean temperature of 75° F; Standard I-P unit convention shown.

## NOTES

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