TremLock® ThermalT™

Exterior Standing Seam Insulated Metal Panel

FEATURES	BENEFITS
T-seam	• Slide panels together rather than lift or roll
Factory Caulked Batten	• Double layer of weather-tight protection

DESCRIPTION

TremLock ThermalT is the IMP Industry's premier standing seam roof panel.

BASIC USES

TremLock ThermalT's patented T-seam allows for sliding the panels together rather than lifting and / or rolling the panels into place. The interior tongue-and-groove joint, coupled with a factory-caulked batten, helps provide a double layer of weather-tight protection.

SYSTEM DESIGN

TremLock ThermalT panels are designed with a 42" coverage width, a 2" tall, tee-shaped vertical rib with mechanically seamed batten. Available lengths of 12'-0" to 53'-0". Panel thickness options of 2.5, 3, 4, 5, 6-inch. Exterior Gauge availability of 22, 24 and 26. Interior gauge of 26. Exterior Substrate is Galvalume®, G90. Interior substrate Galvalume®, G90, Stainless Steel. Interior Joint is Green-Lock, offset tongue-and-groove. Core is continuously poured-in-place polyisocyanurate insulating foam. R-Value is R-8 per inch of thickness (nominal).

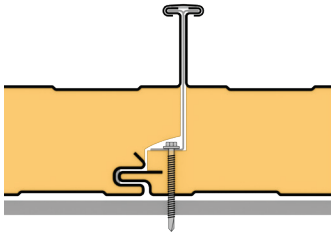
FINISH/COLOR

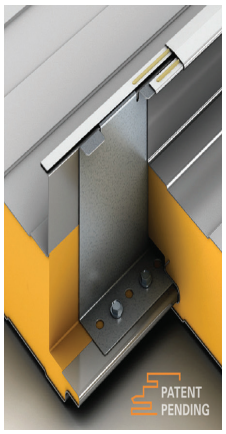
Exterior Finish: Siliconized Polyester, standard gloss PVDF
Interior Finish: Polyester, Siliconized Polyester, Plastisol (PVC)
Exterior Texture: Smooth
Interior Texture: Embossed, Smooth

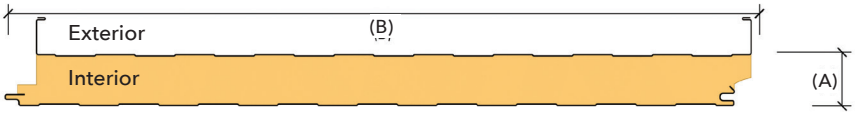
APPLICATION

TremLock ThermalT is a standing seam, insulated roof panel used on slopes 1/2:12. Standard panel lengths 12'0" - 53' 0".

PANEL OPTIONS







A. 2.5" - 6" B. 42" Coverage

TremLock® ThermalT™

TESTING

TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
ENVIRONMENTAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor 0.139 BTU-in/hr-ft2-F° at 75° mean K-Factor 0.129 BTU-in/hr-ft2-F° at 35° mean
	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	0.001-cfm/sf at 12-psf
	ASTM E1646	Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference	Zero penetration at 12-psf
FOAM CORE CHARACTERISTICS	ASTM C273	Shear Properties of Sandwich Core Materials	Shear Strength = 16-psi
	ASTM D1621	Compressive Properties of Rigid Cellular Plastics	Compressive Strength – 18-psi
	ASTM D1622	Apparent Density of Rigid Cellular Plastics	Apparent Density – 2.25-pcf
	ASTM D1623	Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics	Tensile Strength – 21-psi
	ASTM D6226	Open Cell Content of Rigid Cellular Plastics	Open Cell Content ≥ 90% closed cells
FIRE RESISTANCE	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread < 25, Smoke Developed < 450
	FM 4880	Factory Mutual Approval Standard for Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings and Exterior Wall Systems	Class 1 Fire Rated – see technical bulletin ATB-0005
IMPACT RESISTANCE	FM 4771	Factory Mutual Approval Standard for Class 1 Panel Roofs	
	TAS 201	Florida Building Code Impact Test Procedure	Miami Dade County NOA No. 17-0619.08
ENGINEERING PROPERTIES	ASTM E1592	Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference	See Load Tables
	ASTM E72	Strength Tests of Panels for Building Construction	See Load Tables
	FM 4471	Factory Mutual Approval Standard for Class 1 Panel Roofs	Class 1 Approved – see technical bulletin ETB-0015

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TESTING (Continued)

TYPE	TEST PROTOCOL	DESCRIPTION	RESULTS
APPROVALS	Miami-Dade County	Miami-Dade County Product Control Section – Notice of Acceptance	Miami Dade County NOA No. 17-0619.08
	State of Florida	Florida Product Approval Factory Mutual Approval	FL21349
	Underwriters Laboratories	Roof Deck Construction – Class 90	TGKX.698
BOND STRENGTH	Fatigue Endurance	2,000,000 Alternating Cycles of L/180 Deflection	No evidence of facer or liner delamination, fracture of foam core or permanent set
	Freeze/Heat Cycle	Twenty-One (21) Eight-hour Temperature Cycles (–20° F to 180° F)	No evidence of delamination, blistering or permanent set
	Humidity Endurance	1,200 Hours of 93% Humidity at a Temperature of 158° F	No evidence of delamination, blistering or interface corrosion
	Autoclave	Exposure to 218° F and a pressure of 2-psig for 2½ hours	No evidence of facer or liner delamination

MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.

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