



MEMBRANE ROOF PANEL

MRP - 44

FEATURES

Panel Length: 10' - 82'

Core: Foamed-in-place polyisocyanurate (PIR)

Accessories: Flashings, Trim, Screws and Plates

Colors: Standard, Enhanced & Custom

Roof Membrane: Single-Ply: TPO or PVC (White)

Membrane Thickness: 60 mil (minimum)

COATINGS & FINISHES

Exterior Coatings: PE

Interior Coating: Colorcoat HPS200 Ultra™, PVDF, SMP, PE,

Exterior Profile: Flat-Smooth Non-Embossed

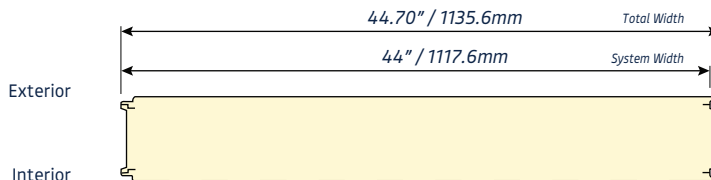
Interior Profile: Embossed Box, Non-Embossed Box

BENEFITS

- Exterior and Interior Applications
- Rapid Installation vs Conventional Construction
- Slope .25/12 - 1/12
- FALK Private Transportation Fleet
- State-of-the-Art Manufacturing Facility
- Phased Construction Is Permitted

MRP-44 Specifications						
Core Thickness	Width	Steel Gauge		Thermal Values		Weight
in mm	in mm	Exterior	Interior	R-Values	U-Values	lbs/sf
3.0 76.2	44 1118	22ga, 24ga, 26ga	26ga	22.79	0.043	2.33
4.0 101.6	44 1118	22ga, 24ga, 26ga	26ga	30.38	0.032	2.55
5.0 127	44 1118	22ga, 24ga, 26ga	26ga	37.98	0.026	2.77
6.0 152.4	44 1118	22ga, 24ga, 26ga	26ga	45.46	0.021	2.99
8.0 203.2	44 1118	22ga, 24ga, 26ga	26ga	60.77	0.016	3.05

Nominal 7.5 per inch with lambda (λ W/mK) of 0.019



TESTING & APPROVALS

Falk Panels have been extensively tested under a variety of North American and International Standards.

Examples include:

FIRE

ASTM E84-21a | Standard Test Method for Surface Burning Characteristics of Building Materials

ASTM E84-18b | Standard Test Method for Surface Burning Characteristics of Building Materials

UL 1256 | Standard for Safety Fire Test of Roof Deck Constructions

ASTM D1929-20 | Standard Test Method for Determining Ignition Temperature of Plastics

CAN/ULC-S127 | Standard Corner Wall Method of Test for Flammability Characteristics of Non-melting Foam Plastic Building Materials

ULC CAN-S120.2 | Standard Method of Test for Surface Burning Characteristics

CAN/ULC-S138-06 | Standard Method of Test for Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration

NFPA 286 | Room Corner Burn Test

STRUCTURAL

ASTM E455 | Standard Test Method for Static Load Testing of Framed Floor or Roof Diaphragm Construction for Buildings

ASTM E72 | Standard Test Method of Conducting Strength Tests of Panels for Building Construction

AISI S907 | Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel Diaphragms

ASTM E1592 | Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems

ASTM C518 | Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus

ASTM E283 | Rate of Air Leakage Through Curtain Walls Under Specified Pressure Differences

ASTM E331 | Water Penetration of Exterior Walls by Uniform Static Air Pressure Differences

ANSI FM 4474-2004 (R2010) | American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures.

THERMAL

ASTM C518-21 | Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Meter Apparatus

AIR

ASTM 1680-16 | Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Panel Systems

ASTM E283/E283M-19 | Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

WATER

ASTM E1646-95 | Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference

ASTM E331-00(2016) | Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

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