

INSULATED WALL PANEL SYSTEM:

| STANDARD | DESCRIPTION |
|--------------|--|
| CAN/ULC S101 | Standard Methods of Fire Endurance Tests of Building Construction and Materials |
| CAN/ULC S102 | Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies |
| CAN/ULC S126 | Standard Method of Test for Fire Spread Under Roof-Deck Assemblies |
| CAN/ULC S127 | Standard Corner Wall Method of Test for Flammability Characteristics of Non-Melting Foam Plastic Building Materials |
| CAN/ULC S138 | Standard Method of Test for Fire Growth of Insulated Building Metal Panels in a Full-Scale Room Configuration |
| ASTM E72 | Standard Test Methods of Conducting Strength Tests of Panels for Building Construction |
| ASTM E84 | Standard Test Method for Surface Burning Characteristics of Building Materials |
| ASTM E1646 | Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems |
| ASTM E1680 | Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems |
| ASTM E283 | Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen |
| ASTM E331 | Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference |
| ASTM E1592 | Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference |
| ASTM C518 | Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus |
| ASTM C1363 | Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus |
| NFPA 286 | Standard Methods of Fire Tests for Evaluating Contribution for Wall and Ceiling Interior Finish to Room Fire Growth |

Standards are tested and valid for all IMP Product lines, including Edge Wall, Horizon Wall, and Skyline Roof panels.

Profile: Leading Edge SM (Smooth) – Leading Edge LE (Light Embossed) – Leading Edge HE (Heavy Embossed)

Panel Thickness: 2" (50mm) – 3" (76mm) – 4" (101mm) – 5" (127mm) – 6" (152mm)

Coverage Width: 42" (1067mm)

Panel Lengths: 8' to 53' (2438mm to 16154mm)

Exterior Face: 22ga (0.76mm) galvanized G-90 (Z275) pre painted steel – with smooth steel face (SM Smooth) **OR** light embossed steel face (LE Light Embossed) **OR** heavy embossed steel face (HE Heavy Embossed)

Interior Face: 26ga (0.46mm) galvanized G-90 (Z275) pre painted steel – Mesa Profile with smooth steel face (MS-Mesa Smooth) **OR** light embossed steel face (MSLE-Mesa Light Embossed). Standard Interior paint colour: **Regal White *24ga and 22ga option available

Coated paint finish: PVDF 2 coat solid colours
**Other specialty coatings available for both interior and exterior

Joint Configuration: Offset tongue and groove to allow acceptance of Butyl sealant and hidden fasteners

Accessory Components: Sealant, flashing, trims, fastener and wall panel clip

Insulation Core: Continuous foamed in-place closed cell polyisocyanurate. Density: 2.4 lbs./ft³ (38.68 kg/m³)

Based on; ASTM C518-17, ASTM C1363-19, 75 °F and 40 °F mean temp with a temp differential of 39.6 °F and 58 °F respectively

| Thermal Performance - Imperial [IP] | | | | |
|-------------------------------------|----------------------------|------------|----------------------------|----------------------------|
| 75 °F | | Thickness | 40 °F | |
| BTU/hr*ft ² *°F | hr*ft ² *°F/BTU | | BTU/hr*ft ² *°F | hr*ft ² *°F/BTU |
| U-Factor | R-Value | | U-Factor | R-Value |
| 0.065 | 15.16 | 2" (50mm) | 0.060 | 16.67 |
| 0.043 | 22.71 | 3" (76mm) | 0.040 | 25.00 |
| 0.033 | 30.38 | 4" (101mm) | 0.030 | 33.33 |
| 0.026 | 37.87 | 5" (127mm) | 0.024 | 41.67 |
| 0.022 | 45.43 | 6" (152mm) | 0.020 | 50.00 |

| Thermal Performance - Metric [SI] | | | | |
|-----------------------------------|---------------------|------------|---------------------|---------------------|
| 24 °C | | Thickness | 4.4 °C | |
| W/m ² *K | m ² *K/W | | W/m ² *K | m ² *K/W |
| U SI Value | R SI Value | | U SI Value | R SI Value |
| 0.375 | 2.67 | 2" (50mm) | 0.341 | 2.93 |
| 0.250 | 4.00 | 3" (76mm) | 0.227 | 4.41 |
| 0.188 | 5.35 | 4" (101mm) | 0.170 | 5.88 |
| 0.150 | 6.67 | 5" (127mm) | 0.136 | 7.35 |
| 0.125 | 8.00 | 6" (152mm) | 0.114 | 8.77 |