

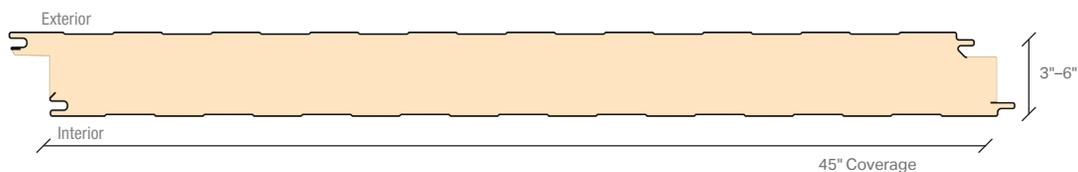
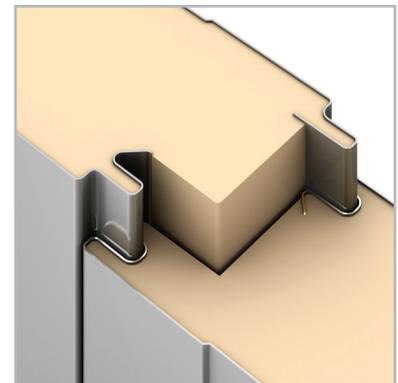
# Max-Lok

## Insulated Metal Panel



The Max-Lok insulated metal panel is specifically designed as our widest and most economical insulated metal panel system. It is intended to maximize installation efficiency and cost-effectiveness. The unique side-joint facilitates accurate sealant placement and helps ensure a high-performance vapor seal.

- ▶ **Panel Use:** Partition Wall, Liner Wall, Tee Supported Ceiling
- ▶ **Coverage Width:** 45-inch
- ▶ **Thickness:** 3, 4, 5, 6-inch
- ▶ **Length:** 8'-0" to 53'-0"
- ▶ **Exterior Gauge:** 26
- ▶ **Interior Gauge:** 26
- ▶ **Exterior Substrate:** Galvalume®
- ▶ **Interior Substrate:** Galvalume
- ▶ **Exterior Finish:** Polyester, Siliconized Polyester, Plastisol (PVC)
- ▶ **Interior Finish:** Polyester, Siliconized Polyester, Plastisol (PVC)
- ▶ **Exterior Texture:** Embossed, Smooth
- ▶ **Interior Texture:** Embossed, Smooth
- ▶ **Joint:** Offset double tongue-and-groove
- ▶ **Core:** Continuously poured-in-place polyisocyanurate insulating foam
- ▶ **R-Value:** R-8 per inch of thickness (nominal)



## TESTING: MAX-LOK INSULATED METAL PANEL

| 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-ft <sup>2</sup> -F° at 75° mean<br>K-Factor 0.129 BTU-in/hr-ft <sup>2</sup> -F° at 35° mean |
|                           | ASTM E283          | Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen  | 0.0011-cfm/sf at 20-psf  |
|                           | ASTM E331          | Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference   | Zero penetration at 20-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 4881            | Factory Mutual Approval Standard for Class 1 Exterior Wall Systems  |  |
|                           | TAS 201            | Florida Building Code Impact Test Procedure   |  |
| Engineering Properties    | ASTM E72           | Strength Tests of Panels for Building Construction  | See Load Tables  |
| 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   |