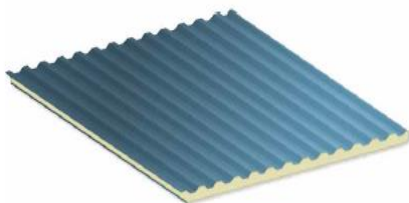


## EM 7.2 Insul-Rib™ Panel



### DESCRIPTION:

The EM 7.2 Insul-Rib™ Panel combines a traditional 7.2 rib panel design with a premier polyurethane foam core. The EM 7.2 Insul-Rib™ Panel can be installed both vertically and horizontally, allowing architects the same design flexibility that is available with our single skin EM 7.2 Panel.

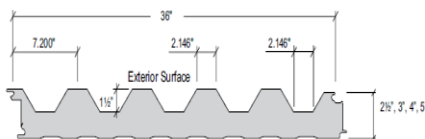


### FEATURES AND BENEFITS

- The EM 7.2 Insul-Rib™ Panel utilizes concealed clips and eliminates thermal short circuits.
- The EM 7.2 Insul-Rib™ Panel can be used for both interior and exterior applications.
- IMPs allow for fast assembly times and easy installation, resulting in reduced construction labor costs and earlier business starts.

### PRODUCT SPECIFICATIONS

- Applications: Wall
- Coverage Widths: 36"
- Thicknesses: 3", 4", 5", 6"
- Lengths: Recommended maximum is 36'
- Panel Attachment: Offset double tongue-and-groove with extended metal shelf for positive face fastening
- Insulation Material: Non-CFC foamed-in-place polyurethane foam cured to achieve a minimum density of 2.2 pounds
- Gauges: Exterior: 26, 24, 22; Interior: 26, 24, 22
- Finishes: Exterior: Stucco-embossed; Interior: Stucco-embossed, Mesa profile
- Coatings: Exterior: Signature® 200, Signature® 300
- Accessories: Fasteners, sealants, standard and custom trim



# EM 7.2 INSUL-RIB™ PANEL

| CATEGORY        | CHARACTERISTIC                                 | TEST METHOD             | PURPOSE   | RESULT  |
|-----------------|--|-------------------------|---|---|
| ENVIRONMENTAL   | Thermal Transmission                           | ASTM C 518              | Measure the heat transmission coefficient per unit thickness (k-factor)   | 0.140 BTU*in/hr*ft <sup>2</sup> *°F (7.14/inch) at 75° F mean temperature<br>0.126 BTU*in/hr*ft <sup>2</sup> *°F (7.94/inch) at 40° F mean temperature<br>0.118 BTU*in/hr*ft <sup>2</sup> *°F (8.47/inch) at 20° F mean temperature |
|                 |  | ASTM C 1363             | Measures the resistance to heat flow (or R-value) of a construction assembly in a guarded hot box   | Varies up to R-8.5/inch of panel thickness at 40° F mean temperature  |
|                 | Air Leakage Through Wall Panel Joints          | ASTM E 283              | Determines the air leakage characteristics of metal wall panels under specified air pressure differences at ambient conditions  | 0.01 cfm/ft <sup>2</sup> at 20 psf static pressure  |
|                 | Water Penetration Through Wall Panel Joints    | ASTM E 331              | Determines the resistance to water penetration of metal wall panels under uniform static air pressure difference  | No uncontrolled water penetration through the panel joints at a static pressure of 20 psf   |
| FOAM PROPERTIES | Foam Density                                   | ASTM D 1622             | Determines the apparent density of rigid cellular plastics  | 2.3 pcf   |
|                 | Foam Compressive Strength                      | ASTM D 1621             | Determines the behavior of cellular materials under compressive load  | 15 psi through-thickness<br>22 psi other directions   |
|                 | Foam Tensile Strength                          | ASTM D 1623             | Measures the tensile strength of the foam from a cored sample   | 30 psi through-thickness<br>33 psi other directions   |
|                 | Foam Shear Strength                            | ASTM C 273              | Measures the shear strength of the foam from a cored sample   | 16 psi lowest in any direction  |
| FIRE RESISTANCE | Surface Burning Characteristics                | ASTM E 84               | Provides comparative measurements of surface flame spread and smoke density measurements relative to that of select grade red oak and fiber-cement board surfaces under specific fire exposure conditions | Flame Spread index of 20<br>Smoke Developed index of 350  |
|                 |  | FM 4880                 | Evaluates insulated roof and wall panels, interior finishes or coatings, and exterior wall systems for their performance in regards to fire   | Class 1 rating of wall and roof panels for use in unlimited height structures   |
|                 |  | NFPA 286                | Fire tests for the flammability characteristics of wall and ceiling interior finishes   | The panels meet the criteria of the IBC Section 803.1.2.1   |
|                 | Room Fire Performance                          | CAN/ULC S101            | Standard method of fire endurance tests of building construction and materials  | The panels provide 15-minute remain-in-place fire resistance rating   |
|                 |  | CAN/ULC S102            | Standard method of test for surface burning characteristics of building material and assemblies   | Flame Spread Index of 0<br>Smoke Developed Index of 45<br>Fuel Contributing Value of 0  |
|                 |  | CAN/ULC S134            | Standard method of test for fire test of exterior wall assemblies   | The panels meet the criteria published in the standard  |
|                 |  | CAN/ULC S138            | Standard method of test for fire growth of insulated building panels in a full-scale room configuration   | The panels meet the criteria published in the standard  |
|                 | Wall Fire Performance                          | NFPA 285                | Evaluation of fire propagation characteristics of exterior non-load bearing wall assemblies in regard to fire   | Panels meet the requirement of the standard   |
| STRUCTURAL      | Uplift Resistance                              | ASTM E 72<br>ASTM E 330 | Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference  | See Load Chart Section*   |
|                 | Positive Load Resistance                       | ASTM E 72               | Tests the behavior of segments of wall construction under conditions representative of those encountered in service   | See Load Chart Section*   |
| WALL LISTINGS   | Wall Performance- FM Global (See Note 1 below) | FM 4881                 | Sets performance standards for panel walls including wind load resistance and hail resistance<br>Requires a Class 1 rating by FM Global Standard 4880 as a prerequisite                                   | See FM Global Approval Guide for Building Products complete listings  |

\*Additional data sheets and load charts available at [www.exceptionalmetals.com](http://www.exceptionalmetals.com).

Notes:

1. Wall panels with textured coatings are not approved for the FM 4881 test method.