The LS-36 insulated metal panel provides versatility with design options while also attaining unmatched insulation values. The overlapping, through-fastened joint allows for quick installation in roof or wall applications, which results in reduced labor costs and earlier business starts. Additionally, the insulation within the panel aids in energy cost savings. The panel can be used on roof slopes as low as 1/2": 12”.

**PRODUCT SPECIFICATIONS**

**WIDTH** • 36”

**THICKNESS** • 1½", 2", 2½", 3", 4", 5", 6”
   Rib height not included in thickness

**LENGTH**
   NON-DIRECTIONAL EMBOSSED
   8'-0” to 50'-0” Vertical
   UNEMBOSSED
   8'-0” to 50'-0” Vertical

**EXTERIOR PROFILE** • 1¼”high major ribs spaced 12” on center, embossed or unembossed

**EXTERIOR FACE** • G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.

**INTERIOR PROFILE** • Mesa profile, nominal ¼” deep, embossed

**INTERIOR FACE** • G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.

**JOINT** • Overlapping with a single tongue-and-groove

**FASTENING** • Exposed through fasteners

**DESIGN FEATURES & BENEFITS**

- Wall and roof applications
- Through-fastened

**UPLIFT PERFORMANCE** • FM Approvals Standard 4471

**ROOF PANEL**

<table>
<thead>
<tr>
<th>U-FACTOR (BTU/h·ft²·°F)</th>
<th>R-VALUE (h·ft²·°F/BTU)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PANEL WIDTH: 36”</strong></td>
<td><strong>PANEL WIDTH: 36”</strong></td>
</tr>
<tr>
<td>75°</td>
<td></td>
</tr>
<tr>
<td>1¼”</td>
<td>0.0788</td>
</tr>
<tr>
<td>2”</td>
<td>0.0603</td>
</tr>
<tr>
<td>2½”</td>
<td>0.0492</td>
</tr>
<tr>
<td>3”</td>
<td>0.0416</td>
</tr>
<tr>
<td>4”</td>
<td>0.0327</td>
</tr>
<tr>
<td>5”</td>
<td>0.0267</td>
</tr>
<tr>
<td>6”</td>
<td>0.0223</td>
</tr>
</tbody>
</table>

**WALL PANEL**

<table>
<thead>
<tr>
<th>U-FACTOR (BTU/h·ft²·°F)</th>
<th>R-VALUE (h·ft²·°F/BTU)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PANEL WIDTH: 36”</strong></td>
<td><strong>PANEL WIDTH: 36”</strong></td>
</tr>
<tr>
<td>75°</td>
<td></td>
</tr>
<tr>
<td>1¼”</td>
<td>0.0783</td>
</tr>
<tr>
<td>2”</td>
<td>0.0602</td>
</tr>
<tr>
<td>2½”</td>
<td>0.0491</td>
</tr>
<tr>
<td>3”</td>
<td>0.0414</td>
</tr>
<tr>
<td>4”</td>
<td>0.0326</td>
</tr>
<tr>
<td>5”</td>
<td>0.0268</td>
</tr>
<tr>
<td>6”</td>
<td>0.0227</td>
</tr>
</tbody>
</table>

*Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F core mean temp. Only manufactured in Canada

©2019 Metl-Span®, part of the Cornerstone Building Brands family. All rights reserved. Printed in the U.S.A.

**PART# LS36DS0819**
## TESTING: LS-36 INSULATED METAL ROOF & WALL PANEL

<table>
<thead>
<tr>
<th>TEST/APPROVAL</th>
<th>TEST METHOD</th>
<th>TEST TITLE</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WALL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire US</td>
<td>ASTM E119</td>
<td>Fire Tests of Building Construction Materials</td>
<td>Horizontal or vertical panel installation. One hour non-load bearing rating with two layers of Type X Gypsum</td>
</tr>
<tr>
<td></td>
<td>NFPA 259</td>
<td>Test Method for Potential Heat of Building Materials</td>
<td>Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285</td>
</tr>
<tr>
<td></td>
<td>NFPA 286</td>
<td>Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth</td>
<td>Test specimen met the criteria of the IBC Section 803.1.2</td>
</tr>
<tr>
<td>Fire Canada</td>
<td>CAN/ULC S101</td>
<td>Fire Endurance Tests of Building Construction and Materials</td>
<td>One hour non-load bearing fire rating with two layers of Type X Gypsum</td>
</tr>
<tr>
<td></td>
<td>CAN/ULC S101</td>
<td>Fire Endurance Tests of Building Construction and Materials</td>
<td>Meets 15 minute stay in place requirements</td>
</tr>
<tr>
<td></td>
<td>CAN/ULC S134</td>
<td>Fire Test of Exterior Wall Assemblies</td>
<td>Complies with the fire spread and heat flux limitations required by the National Building Code of Canada</td>
</tr>
<tr>
<td>Structural</td>
<td>ASTM E72</td>
<td>Strength Tests of Panels for Building Construction</td>
<td>See Load Chart</td>
</tr>
<tr>
<td><strong>ROOF</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Canada</td>
<td>CAN/ULC S107</td>
<td>Methods of Fire Tests of Roof Coverings</td>
<td>Passed Class A</td>
</tr>
<tr>
<td></td>
<td>CAN/ULC S126</td>
<td>Fire Spread Under Roof-Deck Assemblies</td>
<td>Met the criteria of the standard</td>
</tr>
<tr>
<td>Structural</td>
<td>ASTM E1592</td>
<td>Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences</td>
<td>See Load Chart</td>
</tr>
<tr>
<td></td>
<td>FM 4471</td>
<td>Class 1 Exterior Roof Structural Performance</td>
<td>Class 1-105 windstorm classification. Minimum 16-gauge members at maximum 5’ on center</td>
</tr>
<tr>
<td>Air Infiltration</td>
<td>ASTM E1680</td>
<td>Rate of Air Leakage Through Exterior Metal Roof Panel Systems</td>
<td>&lt;0.0014 cfm/ft² at 12 psf</td>
</tr>
<tr>
<td>Water Infiltration</td>
<td>ASTM E1646</td>
<td>Water Penetration of Exterior Metal Roof Panel Systems by Static Air Pressure Differences</td>
<td>No uncontrolled leakage when tested to a static pressure of 20 psf</td>
</tr>
<tr>
<td><strong>BOTH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire US</td>
<td>ASTM E84</td>
<td>Surface Burning Characteristics of Building Materials</td>
<td>Flame spread &lt;25, smoke developed &lt;450</td>
</tr>
<tr>
<td></td>
<td>FM 4880</td>
<td>Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels</td>
<td>Product approved. Exterior roof requires FM 4471 approval</td>
</tr>
<tr>
<td>Fire Canada</td>
<td>CAN/ULC S102</td>
<td>Surface Burning Characteristics of Building Materials and Assemblies</td>
<td>Meets the National Building Code of Canada requirements</td>
</tr>
<tr>
<td>Thermal Performance</td>
<td>ASTM C518</td>
<td>Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus</td>
<td>K-Factor of 0.126 BTU.in/hr.ft²°F at 40°F mean core</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>K-Factor of 0.14 BTU.in/hr.ft²°F at 75°F mean core</td>
</tr>
<tr>
<td></td>
<td>ASTM C1363</td>
<td>Thermal Performance of Building Materials and Envelope Assemblies</td>
<td>See Thermal Performance Guide</td>
</tr>
</tbody>
</table>

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, Metl-Span reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. To ensure you have the latest information available, please inquire or visit our website at metlspan.com.