

# LS-36

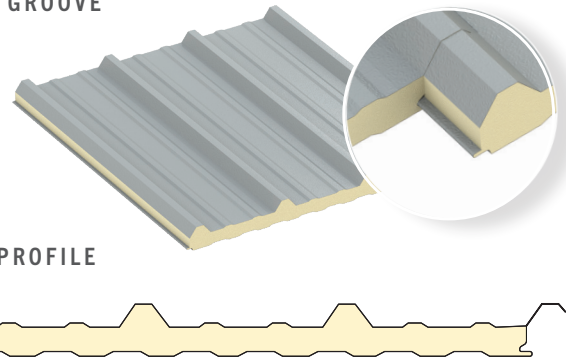
## INSULATED METAL ROOF & WALL PANEL

*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 the roof slopes as low as 1/2":12"*

### LOCK & GROOVE SYSTEM

### PANEL

### PANEL PROFILE



## 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 ⅛" 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

### ROOF & WALL PANELS

#### U-FACTOR (BTU/h-ft<sup>2</sup>-°F)

##### PANEL WIDTH: 36"

	35°
1.5"	0.072
2"	0.056
2.5"	0.044
3"	0.038
4"	0.029
5"	0.023
6"	0.020

#### R-VALUE (h-ft<sup>2</sup>-°F/BTU)

##### PANEL WIDTH: 36"

	35°
1.5"	13.1
2"	17.5
2.5"	21.9
3"	26.2
4"	35.0
5"	43.7
6"	52.5

Based on ASTM C518, ASTM C1363 and thermal modeling  
Only manufactured in Canada

## DESIGN FEATURES & BENEFITS

- Wall and roof applications
- Through-fastened
- Easy and fast installation, with reduced construction labor costs

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

TEST/ APPROVAL	TEST METHOD	TEST TITLE	RESULTS
<b>WALL</b>			
<b>Fire US</b>	ASTM E119	Fire Tests of Building Construction Materials	Horizontal or vertical panel installation. One hour non-load bearing rating with two layers of Type X Gypsum
	NFPA 259	Test Method for Potential Heat of Building Materials	Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285
	NFPA 285-19	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Panel assembly met the requirements of the Standard
	NFPA 286	Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth	Test specimen met the criteria of the IBC Section 803.1.2.1
<b>Fire Canada</b>	CAN/ULC S101	Fire Endurance Tests of Building Construction and Materials	One hour non-load bearing fire rating with two layers of Type X Gypsum
	CAN/ULC S101	Fire Endurance Tests of Building Construction and Materials	Meets 15 minute stay in place requirements
	CAN/ULC S134	Fire Test of Exterior Wall Assemblies	Complies with the fire spread and heat flux limitations required by the National Building Code of Canada
<b>Structural</b>	ASTM E72	Strength Tests of Panels for Building Construction	See Load Chart
<b>ROOF</b>			
<b>Fire US</b>	ASTM E108	Standard Test Methods for Fire Tests of Roof Coverings	Passed Class A
<b>Fire Canada</b>	CAN/ULC S107	Methods of Fire Tests of Roof Coverings	Passed Class A
	CAN/ULC S126	Fire Spread Under Roof-Deck Assemblies	Met the criteria of the standard
<b>Structural</b>	ASTM E1592	Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences	See Load Chart
<b>Air Infiltration</b>	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.0014 cfm/ft <sup>2</sup> at 12 psf
<b>Water Infiltration</b>	ASTM E1646	Water Penetration of Exterior Metal Roof Panel Systems by Static Air Pressure Differences	No uncontrolled leakage when tested to a static pressure of 20 psf
<b>BOTH</b>			
<b>Fire US</b>	ASTM E84	Surface Burning Characteristics of Building Materials	Flame spread <25, smoke developed <450
<b>Fire Canada</b>	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Meets the National Building Code of Canada requirements
<b>Thermal Performance</b>	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	K-Factor of 0.114 BTU.in/hr.ft <sup>2</sup> .°F at 35° F mean core
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	See Thermal Performance Guide

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