

LS-36

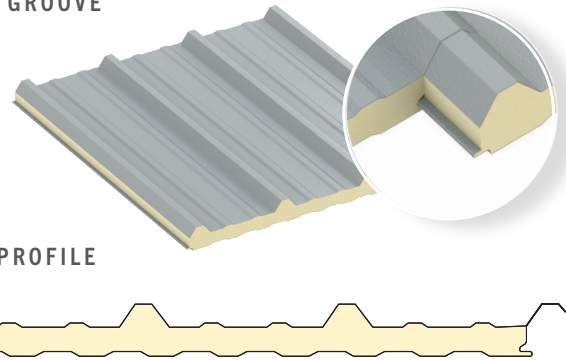
INSULATED METAL ROOF & WALL PANEL WITH PUR FOAM CORE

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.

CORE • Foamed-in-place, PUR Foam Core, zero ozone depleting (zero ODP) Class 1 foam

JOINT • Overlapping with a single tongue-and-groove

FASTENING • Exposed through fasteners

ROOF & WALL PANELS

U-FACTOR (BTU/h-ft²-°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-ft²-°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
WALL			
Fire US	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
Fire Canada	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
Structural	ASTM E72	Strength Tests of Panels for Building Construction	See Load Chart
ROOF			
Fire US	ASTM E108	Standard Test Methods for Fire Tests of Roof Coverings	Passed Class A
Fire Canada	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
Structural	ASTM E1592	Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences	See Load Chart
Air Infiltration	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.0014 cfm/ft ² at 12 psf
Water Infiltration	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
BOTH			
Fire US	ASTM E84	Surface Burning Characteristics of Building Materials	Flame spread <25, smoke developed <450
Fire Canada	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Meets the National Building Code of Canada requirements
Thermal Performance	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	K-Factor of 0.114 BTU.in/hr.ft ² .°F at 35° F mean core
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	See Thermal Performance Guide

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