

LS-36™

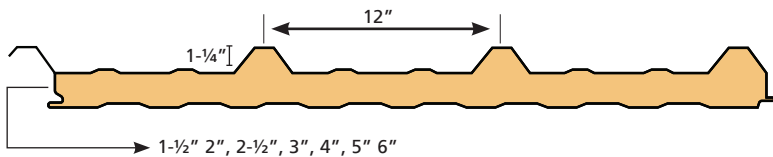
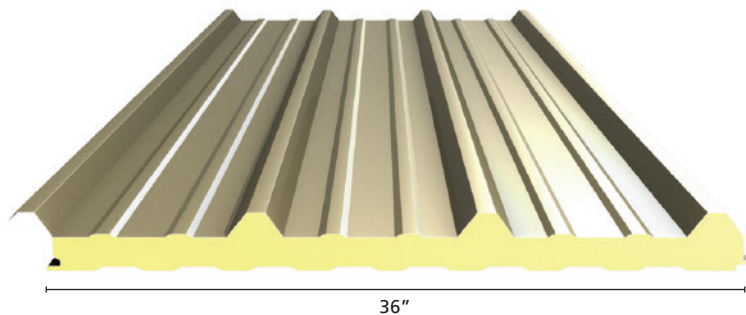


The versatility of the **LS-36™** insulated metal roof and wall panel offers a multitude of design options. The deep ribs create an even-shadowed appearance and the overlapping, through-fastened joint allows for quick installation.

The LS-36™ panel utilizes a through-fastened attachment. The standard exterior skin is smooth but is also available in an embossed finish.

FEATURES AND BENEFITS

- Panels are lightweight and quick to install, significantly reducing construction time.
- A double tongue-and-groove offset side joint permits concealed fastening.
- Consistent insulating values are achieved with built-in thermal breaks, saving energy.



USES AND APPLICATIONS

In new and retrofit construction, LS-36™ panels function as walls and roofing for all types of commercial and industrial applications.

They are ideally suited for:

COMMERCIAL & INDUSTRIAL

- Distribution Centres
- Equipment Maintenance Buildings
- Hangars
- Manufacturing Facilities
- Retail Buildings
- Self-Storage Complexes
- Utility Buildings
- Warehouses
- Utility Buildings

COLD STORAGE

- Not intended for cold storage buildings

MATERIAL SPECIFICATIONS			
EXTERIOR PROFILE	1-1/4" high major ribs at 12" o.c. with Mesas in between ribs at 4" o.c.		
INTERIOR PROFILE	Mesa wave pattern, nominal 1/8" deep.		
FOAM CORE	Foamed-in-place, non-CFC & zero ODP polyurethane, Factory Mutual Class 1 approval.		
THERMAL VALUE	R VALUE WITH AIR FILM		75° Mean
		1-1/2" PANEL	11.1
		2" PANEL	14.8
		2-1/2" PANEL	18.5
		3" PANEL	22.2
		4" PANEL	27.6
		5" PANEL	37
		6" PANEL	46.12
	1. R-Values include air films on each side of the panel. 2. 75° Mean based on ASTM C1363 or ASTM C518 Thermal Testing.		
MODULE WIDTH	36"		
PANEL THICKNESS	1-1/2", 2", 2-1/2", 3", 4", 5", 6"		
PANEL LENGTHS	8'-0" to 50'-0"		
MINIMUM SLOPE	1/2:12		
EXTERIOR FACINGS	Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga., 24 Ga. and 22 Ga.		
INTERIOR FACINGS	Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga., 24 Ga. and 22 Ga.		
EXTERIOR FINISHES & COLORS	Siliconized Polyester, Fluoropon® Full-Strength 70% PVDF Fluoropolymer Coating. Note: Prices may vary by color, gauge and quantity of metal.		
INTERIOR FINISHES & COLORS	USDA-compliant Polyester, Igloo White.		
PANEL JOINT	Overlapping with a single tongue-and-groove.		
FASTENING	Exposed fasteners		
FM Approved Class 1 Roof Panel.			

Load span tables and notes are available at RobertsonBuildings.com

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TESTS AND CERTIFICATIONS - ROOF / WALL				
		Standard	Standard / Test Description	
US Certifications	Environmental	ASTM C518	Measure the heat transmission co-efficient per unit thickness (k-factor)	
		ASTM C1363	Measures the resistance to heat flow (or R-Value) of a construction assembly in a guarded hot box	
		ASTM E283	Determines the air leakage characteristics of metal wall panels under specified air pressure differences at ambient conditions	
		ASTM E331	Determines the resistance to water penetration of metal wall panels under uniform static air pressure difference	
		ASTM E1680	Determines the resistance of exterior metal roof panel systems to air infiltration resulting from either positive or negative air pressure differences	
		ASTM E1646	Determines the resistance to water penetration of metal roof panels under uniform positive static air pressure differences	
	Foam Properties	ASTM D1622	Determines the apparent density of rigid cellular plastics	
		ASTM D1621	Determines the behavior of cellular materials under compressive load	
		ASTM D1623	Measures the tensile strength of the foam from a cored sample	
		ASTM C273	Measures the shear strength of the foam from a cored sample	
	Fire Resistance	ASTM E84	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	
		NFPA 285	Evaluation of fire propagation characteristics of exterior non-load bearing wall assemblies in regards to fire	
		FM 4880	Evaluates insulated roof and wall panels, interior finishes or coatings, and exterior wall systems for their performance in regards to fire	
		NFPA 286	Fire tests for the flammability characteristics of wall and ceiling interior finishes	
		CAN/ULC S101	Standard method of fire endurance tests of building construction and materials	
		CAN/ULC S102	Standard method of test for surface burning characteristics of building material and assemblies	
		CAN/ULC S134	Standard method of fire test of exterior wall assemblies	
		CAN/ULC S138	Standard method of test for fire growth of insulated building panels in a full-scale room configuration	
		CAN/ULC S126	Standard method of test for fire spread under roof-deck assemblies	
		Structural	ASTM E72	Tests the behavior of segments of wall construction under conditions representative of those encountered in service
	Roof Listings	FM 4471	Sets performance requirements for panel roofs including uplift resistance. Requires a Class 1 Rating by FM Global Standard 4880 as a prerequisite	
	Canadian Certifications	Fire Performance	CAN/ULC S101	Fire Endurance Tests of Building Construction and Materials
			CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies
			CAN/ULC S126-M86	Measures the Contribution of Roof-Deck Assembly Components to the Spread of Fire on the Underside of the Roof Deck.
CAN/ULC S134			Assessment of the Fire Spread Characteristics of Non-Load bearing Exterior Wall Assemblies The Test Determines the Comparative Burning Characteristics of Exterior Wall Assemblies by Evaluating the Following: 1. Fire spread over the exterior surface 2. Heat flow from the fire plume to the exterior surface 3. Fire spread within the test specimen	
CAN/ULC S138			Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration	

ROB-LS-36-1014