

LS-36™ INSULATED ROOF AND WALL PANEL

DESCRIPTION:

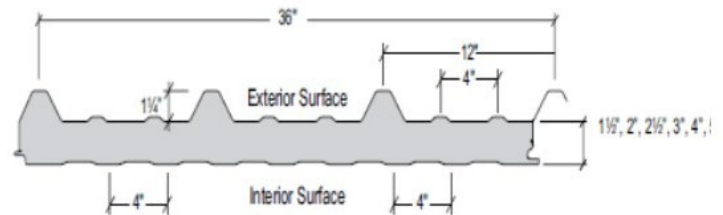
The versatility of the LS-36™ Insulated Roof Panel offers a multitude of design options. It can be utilized for roof or wall applications. The standard exterior skin is smooth but can be embossed if requested. The interior skin is roll-formed with our standard interior Light Mesa profile.

FEATURES:

- The LS-36 Insulated Roof Panel utilizes a through-fastened attachment.
- The exterior surface is available in 26, 24, or 22-gauge Galvalume® or Galvanized coated steel with silicone polyester or Kynar 500®/Hylar 5000® coatings.
- IMPs allow for fast assembly times and easy installation, resulting in reduced construction labor costs and earlier business starts.

SPECIFICATIONS:

- Applications: Roof and wall
- Coverage Widths: 36" (standard)
- Thicknesses: 1½", 2", 2½", 3", 4", 5", 6"
- Lengths: Recommended maximum of 40'
- Panel Attachment: Exposed fastening system
- 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: Smooth, embossed; Interior: Stucco-embossed, Mesa profile
- Coatings: Exterior: Galvalume® Plus, Signature® 200, Signature® 300, Applied finishes; Interior: Igloo White (standard)
- Accessories: Fasteners, sealants, standard and custom trim.



Product samples, detail sheets, color chips, and color chart are available for your submittal package. For assistance with questions or submittals, contact your local Sale Representative or call Duro-Last.

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 ² °F (7.14/inch) at 75° F mean temperature 0.126 BTU in/hr ft ² °F (7.94/inch) at 40° F mean temperature 0.118 BTU in/hr ft ² °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-8.515/inch of panel thickness at 40° F mean temperature
	Air Leakage Through Roof Panel Joints	ASTM E 1680	Determines the resistance of exterior metal roof panel systems to air infiltration resulting from either positive or negative air pressure differences	0.0037 cfm/ft ² at 12 psf static pressure
	Water Penetration	ASTM E 1646	Determines the resistance to water penetration of metal roof panels under uniform positive static air pressure	No uncontrolled water penetration through the panel joints at a static pressure of 12 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 22 psi other directions
	Foam Tensile Strength	ASTM D 1623	Measures the tensile strength of the foam from cored sample	30 psi through-thickness 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 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 S102	Standard method of test for surface burning characteristics of building material and assemblies	Flame Spread index of 10 Smoke Developed index of 40 Fuel Contributing Value of 7
		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
		CAN/ULC S126	Standard method of test for fire spread under roof deck assemblies	The panels meet the criteria published in the standard
STRUCTURAL	Uplift Resistance	ASTM E 72 ASTM E 300	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*
ROOF LISTINGS	Roof Performance FM Global	FM 4471	Sets performance standards for panel roofs including uplift resistance Requires a Class 1 rating by FM Global 4880 as a prerequisite	Class 1-105 rating at 5' for min 16 ga