



PANEL WITH EXPANDED POLYSTYRENE CORE

NORLAM® ARCHITECTURAL PANELS ARE HIGH-ENERGY-EFFICIENT INSULATED PANELS DESIGNED FOR BUILDING ENVELOPES.

SPECIFICATIONS

NORLAM - L

DESCRIPTION	<ul style="list-style-type: none"> > Horizontal & vertical mounting > Joint with concealed fasteners > Different architectural arrangements > Applications: exterior walls, interior partitions and suspended ceilings
WIDTH*	45 ³ / ₄ in.*
LENGTH	6 to 49 ft.
THICKNESS	3, 4, 5, 6, 7 ½ and 10 in.
INSULATION VALUE	<ul style="list-style-type: none"> > With type I polystyrene, RII.85 à R39.50 > With type II polystyrene, RI2.60 à R42.00
STEEL INNER FACE	<ul style="list-style-type: none"> > 0,019 in. (0,483 mm) standard thickness – 26 Ga. > 0,023 in. (0,584 mm) optional thickness – 24 Ga.
STEEL OUTER FACE	<ul style="list-style-type: none"> > 0,019 in. (0,483 mm) standard thickness – 26 Ga. > 0,0285 in. (0,724 mm) standard thickness – 22 Ga.
JOINTS	Double tongue and groove lock with built-in rain screen pre-defined equalizer

*The final module width may change due to variations in fabrication and installation. We do not recommend designing a panel arrangement in which the module width plays a critical role.

APPLICATIONS

Norlam products can be used for several applications: for industrial or commercial buildings. Refrigerated or controlled atmosphere buildings and sports centres. They can also be used as internal partitions and as suspended ceilings.

FEATURES / BENEFITS



- > Exclusive and superior fastening system
- > Cost efficient, installation time are reduced by 50% over multiple assembly systems.
- > Fast, simple & economical installation

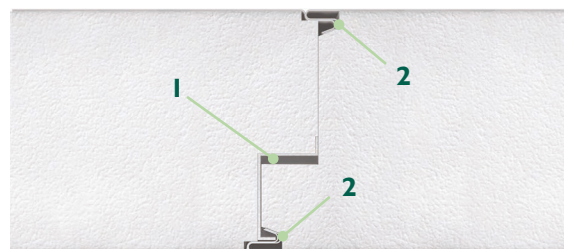


- > Certification LEED
- > The materials are environmentally friendly and nontoxic
- > Can contribute to obtaining LEED certification for a project



- > No cavities, moisture penetration, thermal bridges, risk of interstitial condensation, or lack of insulation
- > Pressure-equalized rain screen ensures that the building envelope is well sealed
- > Factory-applied butyl joint sealer ensures maximum seal

PRESSURE-EQUALIZED RAINSCREEN



1 DECOMPRESSION CHAMBER

2 BUTYLE CAULKING

MAIN PHYSICAL PROPERTIES OF POLYSTYRENE

EPS PHYSICAL PROPERTY	METHOD	TYPE 1	TYPE 2
Thermal resistance 1 in. thick hr °F ft ² /BTU (M ² -K/W)	C-518	3,87 (0,68)	4,00 (0,70)
Water vapour permeability (ng/Pa.s.m ²)	E-96	3,67 (208)	2,35 (133)
Dimensional stability (%)	D-2126	0,17	0,28
Flexural strenght lb/in ² (kPa)	C-203	61 (414)	72 (497)
Water absorption (%)	D-2842	4,1	1,7
Compressive property lb/in ² (kPa)	D-1621	13 (95)	18 (124)

TESTS

	PROCEDURE	TITLE	RESULTS
FIRE CANADA	CAN/ULC-S102	Surface burning characteristics of building materials and assemblies	Meets the National Building Code of Canada requirements
	CAN/ULC-S138	Fire growth of insulated building panels in a full-scale room configuration	Test requirements have been met
STRUCTURAL	ASTM E72	Deflexion tests of panels for building construction	See load Chart
AIR INFILTRATION	ASTM E283	Rate of air leakage through curtain walls under specified pressure differences	Test requirements have been met
	ASTM E330	Structural performance of exterior walls by uniform static air pressure difference	Test requirements have been met
THERMAL PERFORMANCE	ASTM C518	Steady-sate thermal transmission properties by means of heat-flow meter apparatus	K-Factor of 0.126 BTU. In/hr.ft ² . F at 40 F mean core K-Factor of 0.14 BTU. In/hr.ft ² . F at 75 F mean core
WATER INFILTRATION	ASTM E331	Water penetration of exterior walls by uniform static air pressure differences	No uncontrolled leakage when tested to a satic pressure of 700 PA for 15 minutes Vertical or horizontal installation
	AAMA 501.1	Water penetration of exterior walls by dynamic air pressure	Test requirements have been met

