

LEGERFOIL

Data sheet



Description:

LEGERFOIL

Type I rabbeted insulation panel with integrated reflective vapor barrier for indoor walls and foundations.

Product data:

DIMENSIONS:

- 4' X 8' X 2" R-11*
- 4' X 8' X 3" R-15.5*

Approved for the
NOVOCLIMAT
program.

* when used with furring
to create air space

LEGERCLAD TECHNICAL DATA

This product provides the protection of a humidity vapor barrier, plus the addition of reflectivity to the R-value of type I EPS insulation.

LEGERLITE TYPE I EPS (CCMC 12984-L)

PHYSICAL PROPERTIES	IMPERIAL	METRIC	ASTM Test	EPS Type 1
Thermal resistance: R-value at 75°F (24°C) for 1 in (25 mm) thickness	$\frac{\text{h.ft}^2 \text{ hr}^\circ\text{F}}{\text{BTU}}$	$\frac{\text{m}^2 \text{ }^\circ\text{C}}{\text{W}}$	C-518 C-177	3.7 min. (0.70 min.)
Compressive strength (min.) at 10% distortion	psi	(kPa)	D-1621	10.2 (70)
Bending strength (min.)	psi	(kPa)	C-203	25 (170)
Dimensional stability: % of linear change (max.)	%	%	D-2126	1.5
Coefficient of thermal expansion (max.)	in/in/°F	(mm/mm/°C)	D-696	3.5×10^{-5} ($6 \times 10^{-5} \text{ }^\circ\text{C}^{-1}$)
Water vapor permeability (max.)	Perm-inch	(ng/Pa.s.m ²)	E-96	5.25 (300)
Water absorption (max.)	%	%	D-2842	6
Effective temperature range				
Continuous	°F	(°C)	-	167 (75)
Intermittent	°F	(°C)	-	180 (82.2)
Flame spread rating	-	-	(CAN/ULC S102.2 M)	<115
Smoke developed	-	-	(CAN/ULC S102.2 M)	<430
Capillarity	-	-	-	Nil

- conforms to CAN/ULC-S701-01 standards
- permanent R-value
- high compressive strength

- recyclable
- no CFCs or HCFCs
- various sizes available

LEGERFOIL (suite)

Data sheet



EPS LAMINATED WITH A PAPER/EPS/ALUMINUM BARRIER

PAPER/EPS/ALUMINUM BARRIER

Description:

Composed of 1/3 mm-thick aluminum, laminated to 30 lb Kraft paper using a special heat-applied adhesive.

Physical properties:

- Thermal performance not affected by humidity
- Improves existing insulation R-value

Physical properties:

- Basic weight (approx. 19 lb per thousand ft²) 93 g/m²
- Tensile strength M.D. approx. 35 lb/in
- Water vapor permeance (ASTM B test) 1.7 ng/Pa.s.m² after aging
- Reflectivity 95 %
- Flexibility at -10 % → excellent
- PAPER/EPS/ALUMINUM BARRIER meets CAN2-51-33M80 standard, classification Type I

INSTALLATION GUIDE

- Temporarily attach panels vertically to foundation walls using nails or concrete screws and grommets. Be careful not to perforate the aluminum foil with the mechanical fasteners to retain the integrity of the vapor barrier.
- Place panels level with each other and without gaps, the reflective surface towards the inside.
- Ensure that all spaces are closed off around edges.
- Ensure that air space measures between ½ in and ¾ in.
- Seal all joints with vapor-barrier tape to ensure water vapor resistance.
- Using a product which is resistant to water vapor, also seal the joints where the panels meet other surfaces made of different materials, such as the edge of the floor and openings such as doors and windows.
- Attach furring vertically at 16 in or 24 in intervals.
- Cover with gypsum or any other fire-retardant material.