

LEGERTOIT AND LEGERPENTE TYPE III

Data sheet



Description:

LEGERTOIT TYPE III

Insulation panel with rabbeted or straight edges, made with EPS beads containing a flame retardant.

LEGERPENTE TYPE III

Sloped insulation panel made with EPS beads containing a flame retardant.

Product data:

WIDTH AND LENGTH

- 2' x 4' (610 mm x 1219 mm)
- 2' x 8' (610 mm x 2438 mm)
- 4' x 4' (1219 mm x 1219 mm)
- 4' x 8' (1219 mm x 2438 mm)

Density: 2 lb/pi³ (32.03 kg/m³)

PHYSICAL PROPERTIES	IMPERIAL	METRIC	ASTM Test	EPS Type 3
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	4.3 (0.74 min.)
Compressive strength at 10% distortion	psi	(kPa)	D-1621	30 (210)
Bending strength (min.)	psi	(kPa)	C-203	43.6 (300)
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	2.5 (130)
Water absorption (max.)	%	%	D-2842	2
Effective temperature range				
Continuous	°F	(°C)	-	167 (75)
Intermittent	°F	(°C)	-	180 (82.2)
Flame spread rating	-	-	(CAN/ULC S102.2 M)	<140
Generated smoke	-	-	(CAN/ULC S102.2 M)	<325
Capillarity	-	-	-	Nil

PERMANENT R-VALUE GUARANTEE

The thermal resistance of this type of insulation is permanent due to its cellular structure which contains only stabilized trapped air. EPS performance does not diminish over time.

INSTALLATION

Insulation panels can be applied hot or cold, as needed, using bitumen cooled to 225°F or fixed to the surface mechanically.

NOTES: EPS beads should be considered flammable when subjected to a source of intense heat or a constant strong flame. They are vulnerable to petroleum-based solvents and prolonged exposure to ultraviolet radiation.

EVALUATION

- Conforms to CAN/ULC-S701-01 standards
- Conforms to CAN/ULCS-126M DESIGN C7,C12
- Conforms to *Association des maîtres couvreurs du Québec* standards