

DATA SHEET

LEGERFIBRE TYPE I AND TYPE II



DESCRIPTION

The Legerfibre system consists of a factory-laminated LEGERTOIT or LEGERPENITE TYPE I or TYPE II insulation panel, plus a BP ESGARD 1/2 in wood fiber panel.

VALEUR ISOLANTE PERMANENTE GARANTIE

La résistance thermique de l'isolant est permanente grâce à sa structure alvéolaire qui ne contient que de l'air occlus stabilisé. Le temps n'affecte pas le rendement de l'EPS.

EVALUATION



Legerlite insulation:
 > Certified INTERTEK EtL SEMKO
 > Conforms to CAN/ULC-S701 standards
 > Conforms to CAN/ULCS-126M DSIGN C7,C12
 > Conforms to *Association des maîtres couvreurs du Québec* standards
 > Type I : CCMC # 12984-L
 > Type II : CCMC # 12836-L

INSTALLATION

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

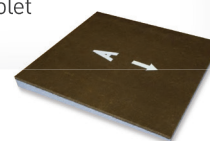
PRODUCT DATA

Dimensions

> 4' x 4' (1219 mm x 1219 mm)

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.



PHYSICAL PROPERTIES	IMPERIAL	METRIC	ASTM TEST	CAN/ULC TYPE 1	CAN/ULC TYPE 2	TYPE 1 NOMINAL VALUE	TYPE 2 NOMINAL VALUE
Thermal resistance: R-value at 75°F (24°C) for 1 in (25 mm) thickness	hr.ft ² /F BTU	m ² °C W	C-518 C-177	3.7 min. (0.70 min.)	4.0 min. (0.70 min.)	3.7 (0.65)	4.0 (0.70)
Compressive strength (min.) at 10% distortion	psi	(kPa)	D-1621	10.2 (70)	16 (110)	+/- 13 (89.63) for 1.5"	+/- 18 (124.10) for 1.5"
Bending strength (min.)	psi	(kPa)	C-203	25 (170)	35 (240)	+/- 30 (206.84) for 1.5"	+/- 38 (262) for 1.5"
Dimensional stability: % of linear change (max.)	%	%	D-2126	1.5	1.5	+/- 0.40%	+/- 0.40%
Coefficient of thermal expansion (max.)	in/in/°F	(mm/mm/°C)	D-696	3.5x10 ⁻⁵ (6x10 ⁻⁵ C ⁻¹)	3.5x10 ⁻⁵ (6x10 ⁻⁵ C ⁻¹)	-	-
Water vapor permeability (max.)	Perm-inch	(ng/Pa.s.m ²)	E-96	5.25 (300)	3.5 (200)	+/- 2.75%	+/- 2.5
Water absorption (max.)	%	%	D-2842	6	4	+/- 5% pour 1.5"	+/- 1.60% for 1.5"
Effective temperature range: > Continuous > Intermittent	°F °F	(°C) (°C)	- -	167 (75) 180 (82.2)	167 (75) 180 (82.2)	-	-
Flame spread rating	-	-	(CAN/ULC S102.2 M)	<115	<140	-	-
Generated smoked			5102.2 M	<430	<380	-	-
Capillarity				Nil	Nil	-	-

PRODUCT DATA : BP ESGARD

Dimensions

> 4' x 4' (1219 mm x 1219 mm)

EVALUATION

BP Esgard wood fiber:

- > Conforms to CAN/ULC -S126-M86 design C2, C7, C12, C25
- > Conforms to CAN/ULC -S107#CR771 classes A and C
- > CCMC 03240-L (except 4' x 8' panels)

TEST	ASTM NORMALIZED TESTING METHODS	ESGARD 1/2"	
		IMPERIAL	METRIC
Thickness	-	0.50 inch	12.70 mm
Linear expansion	D-1037	0.50%	0.50%
Water absorption (2 h)	D-1037	3.75% vol.	3.75% vol.
Thermal resistance	C-518	1.63 R	0.29 RSI
Thermal conductivity	C-518	0.31 K	0.045 ksi
Transverse strength	C-209	10.93 psi	48.61 N
Parallel strength	C-209	223.94 psi	1544.00 KPa
Perpendicular strength	C-209	4.20 psi	28.96 KPa
Compressive strength at 10% distortion	c-165	18.6 psi	128.24 KPa
Modulus of rupture (MOR)	D-2164	237.40 psi	1636.81 KPa
Density	D-1037	15.00 lb/in ³	240.28 kg/m ³
Deflection	C-209	0.55 inch	13.97 mm