DATA SHEET
LEGERFIBRE TYPE II (1.5 HD) AND TYPE III

DESCRIPTION

The Legerfibre system consists of a factory-laminated LEGERTOIT or LEGERPENTE 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.

PRODUCT DATA

Dimensions

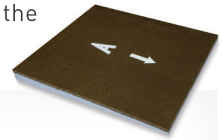
› 4' x 4' (1219 mm x 1219 mm)

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.



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.

PROPRIÉTÉS PHYSIQUES	IMPERIAL	METRIC	ASTM TEST	CAN/ULC TYPE 2 (1.5 HD)	TYPE TYPE 2 (1.5) NOMINAL VALUE	CAN/ULC TYPE 3	TYPE 3 NOMINAL VALUE
Thermal resistance: R-value at 75ºF (24ºC) for 1 in (25 mm) thickness	$\frac{hr.ft^2 \cdot ^\circ F}{BTU}$	$\frac{m^2 \cdot ^\circ C}{W}$	C-518 C-177	4.17 min. (0.73 min.)		4.2 min. (0.74 min.)	4.3 (0.74)
Compressive strength (min.) at 10% distortion	psi	(kPa)	D-1621	20.4 (140)	+/- 20 (137.89) for 1.5"	20.4 (140)	+/- 75 (525) for 1.5"
Bending strength (min.)	psi	(kPa)	C-203	43.6 (300)	+/- 43 (296.47) for 1.5"	43.6 (300)	+/- 38 (262) for 1.5"
Dimensional stability: % of linear change (max.)	%	%	D-2126	1.5	+/- 0.4%	1.5	+/- 0.20%
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.m²)	E-96	3.5 (200)	+/- 2.5	2.25 (130)	+/- 0.65
Water absorption (max.)	%	%	D-2842	3	+/- 1.60% for 1.5"	2	+/- 1,25 % 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)	‹ 140	-	‹ 140	-
Generated smoked			5102.2M	‹ 380	-	‹ 325	-
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

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