DATA SHEET
LEGERFIT TYPE II (1,5 HD) AND TYPE III

DESCRIPTION

The Legerfit system consists of a factory-laminated LEGERTOIT or LEGERPENTE TYPE II (1.5) or TYPE III insulation panel, plus a RETRO-FIT 1/2 in Johns Manville panel.

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.

PRODUCT DATA

Dimensions

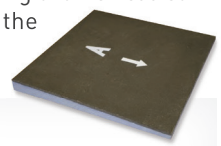
› 4' x 4' (1219 mm x 1219 mm)

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
› CCMC # 13526-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 petro-leum-based solvents and prolonged exposure to ultraviolet radiation.

PHYSICAL PROPERTIES	IMPERIAL	METRIC	ASTM TEST	CAN/ULC TYPE 2 (1.5 HD)	TYPE 2 (1.5) NOMINAL VALUE	CAN/ULC TYPE 3	TYPE III NOMINAL VALUE
Thermal resistance: R-value at 75ºF (24ºC) for 1 in (25 mm) thickness	$\frac{hr.ft^2 \cdot F}{BTU}$	$\frac{m^2 \cdot C}{W}$	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) pour 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	($ng/Pa.s.m^2$)	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				‹ 380	-	‹ 325	-
Capillarity				Nil	-	Nil	-

PRODUCT DATA RETRO-FIT JOHNS MANVILLE :

Dimensions

› 4' x 4' (1219 mm x 1219 mm)

EVALUATION

Johns Manville RETRO-FIT:
› Conforms to ASTM C 728 tests
› Validated by Ul for class A design

PHYSICAL PROPERTY	VALUE	TEST METHOD
Max. water absorption in % by volume - 2h	3.5	ASTM C 209
Compressive strength › 5% distortion › 10% distortion	241 kPa (35 lb/psi) 345 kPa (50 lb/psi)	ASTM C165
Laminar tensile strength	33.8 kPa (4.9 lb/psi)	ASTM C 209
Bending strengt	414 kPa (60 lb/psi)	ASTM C 203
Product density	176-224 kg/m3 (11-14 lb/ft^3)	ASTM C 209
Max. linear expansion	0.5%	ASTM C 209 ASTM D1067

THICKNESS		CONDUCTANCE (C-VALUE)		RESISTANCE (R-VALUE)	
in	mm	$Btu/(hr.ft^2. \cdot F)$	$W/m^2.˚C$	$(hr.ft^2 \cdot F)/Btu$	$m^2.˚C/W$
1/2	12.5	0.76	4.3	1.32	0.23

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