

DATA SHEET

LEGERPAN TYPE I AND TYPE II



DESCRIPTION

The Legerpan system consists of a factory-laminated LEGERTOIT or LEGERPENITE TYPE I or TYPE II insulation panel, plus a Louiseville Specialty Products SECURPAN 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
- > 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.

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% for 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]	-	-
Flame spread rating	-	-	(CAN/ULC S102.2 M)	< 115	< 140	-	-
Generated smoked				< 430	< 380	-	-
Capillarity				Nil	Nil	-	-

PRODUCT DATA SOPRABOARD

Dimensions

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

EVALUATION

Securepan from Louiseville specialty products:

- > Conforms to CAN/ULC-S706 standards
- > Approved class 1 by FM 4470

PROPERTIES	NORMS	SECURPAN RESULTS
Density (specific mass)	ASTM D-1037	14.5 lb/ft ³ (232 kg/m ³)
Transverse load	ASTM D-209	9.0 lb (40N)
Tensile strength perpen dicular to surface	ASTM D-209	761 lb/ft ² (min) 36.5 kPa (min)
Tensile strength parallel to surface	ASTM C-209	187 lb/ft ² (min) 1.29 MPa (min)
Water absorption	ASTM C-209	3.5%
Linear expansion	ASTM C-209	0.10%
Compressive strength 10% distortion	ASTM C-165	34.8 lb/ft ² (min)
Compressive strength 25% distortion	ASTM C-165	51 lb/ft ² (min)
R-value	ASTM C-518	1.55 (1/2")
Flame spread	ULC S-102 ULC S-102.2	15 20
Smoke development	ULC S-102 ULC S-102.2	25 25