

# DATA SHEET

## LEGERPAN TYPE II (1,5 HD) AND TYPE III



### DESCRIPTION

The Legerpan system consists of a factory-laminated LEGERTOIT or LEGERPENITE TYPE II (1.5) or TYPE III 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

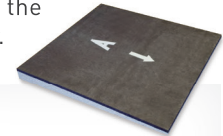


Legerlite insulation:

- > 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
- > CCMC # 13526-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
<b>Thermal resistance:</b> R-value at 75°F (24°C) for 1 in (25 mm) thickness	hr.ft <sup>2</sup> °F / BTU	m <sup>2</sup> °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"
<b>Dimensional stability:</b> % 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 <sup>-5</sup> [6x10 <sup>-5</sup> C <sup>-1</sup> ]	-	3.5x10 <sup>-5</sup> [6x10 <sup>-5</sup> C <sup>-1</sup> ]	-
Water vapor permeability (max.)	Perm-inch	(ng/Pa.s.m <sup>2</sup> )	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"
<b>Effective temperature range:</b> > 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 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 <sup>3</sup> (232 kg/m <sup>3</sup> )
Transverse load	ASTM D-209	9.0 lb (40N)
Tensile strength perpen dicular to surface	ASTM D-209	761 lb/ft <sup>2</sup> (min) 36.5 kPa (min)
Tensile strength parallel to surface	ASTM C-209	187 lb/ft <sup>2</sup> (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 <sup>2</sup> (min)
Compressive strength 25% distortion	ASTM C-165	51 lb/ft <sup>2</sup> (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