



### PRODUCT DATA SHEET

#### DESCRIPTION

R-Panel™ is a rigid roof insulation board composed of a closed-cell polyisocyanurate foam core bonded in the foaming process to universal fibre glass reinforced facers.

R-Panel utilizes an environmentally compliant blowing agent containing pentane hydrocarbon to enhance the thermal performance of the foam insulation. This hydrocarbon has zero ozone depletion potential and conforms to the Montreal Protocol established in 1987. R-Panel meets the physical property requirements of ASTM C1289-01 Type II, Class I, Grade 2 and CAN/ULC S704, Type II, Class 3.

#### USE

R-Panel provides high thermal insulation value over metal, nailable and non-nailable roof decks in built-up, modified bitumen and single-ply membrane roofing systems. It may be applied using hot bitumen, cold adhesives or mechanical fasteners. The universal facer on the top and bottom sides provides a suitable surface for mechanical attachment to a structural deck as well as a suitable surface to apply hot asphalt or cold adhesives. R-Panel meets the International Building Code requirements for a foamed plastic roof insulation.

#### TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUES	TEST METHOD
WATER ABSORPTION	<1.0% max	ASTM C209
DIMENSIONAL STABILITY CHANGE	<2%	ASTM D2126
COMPRESSION RESISTANCE* 10% CONSOLIDATION-psi (kPa)	20 (138) min	ASTM D1621
MOISTURE VAPOUR PERMEANCE	<1 perm (57.5 NG/(PA•S•M2))	ASTM E96
SERVICE TEMPERATURE	-73° to 93°C (-100° to 200°F)	
TENSILE STRENGTH-psf (kPa)	730 (35) nom	ASTM D1623

\*Also available in 25 psi (172kPa).

#### FOR USE OVER METAL DECKS

The minimum thicknesses of R-Panel insulation over metal decks are as follows:

WIDTH OF RIB OPENING	Up to 67 mm (2 <sup>5</sup> / <sub>8</sub> "	Up to 86 mm (3 <sup>3</sup> / <sub>8</sub> "	Up to 111 mm (4 <sup>3</sup> / <sub>8</sub> "
THICKNESS OF INSULATION (MINIMUM)	25 mm (1.0")	30 mm (1.2")	33 mm (1.3")

#### SIZES

SIZE	THICKNESS
1.22 m x 1.22 m (4' x 4')	25 mm–102 mm (1.0"–4.0")
1.22 m x 2.44 m (4' x 8')	25 mm–102 mm (1.0"–4.0")

Other sizes available by special request.



#### PERFORMANCE ADVANTAGES

**Thermal Efficiency:** provides a high degree of insulation efficiency, resisting heat transfer with R-values up to RSI-4.40 (R-25.0).

**Universal Facer:** compatible with BUR, modified bitumen and single-ply membrane systems.

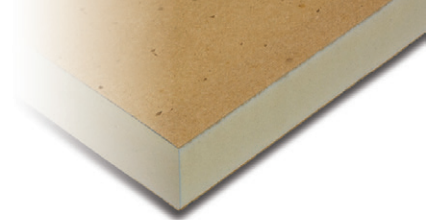
**Noncorrosive:** does not accelerate corrosion of pipes, wiring or metal studs.

**Lightweight:** easy to handle, can be cut with a utility knife or saw.

**Clean Air:** meets Clean Air Act Amendments of 1990.



# Polyisocyanurate Foam Sheathing



## PRODUCT DATA SHEET

## R-PANEL™ ROOF INSULATION

### LIMITED WARRANTY/SPECIFICATIONS

All products sold are subject to the following limited warranty: seller warrants that for a period of one year from the date of shipment the product will be free from defects in material and workmanship and is manufactured in all material respects to seller's product specifications. Note: seller's products may vary in details of design and construction from descriptions in any literature or from any sample, display or other model inspected by purchaser.

Seller disclaims all other representations and warranties of any kind, express or implied, in fact or in law, including, without limitation, the implied warranty of fitness for a particular purpose. Every claim under this limited warranty shall be deemed waived unless in writing and received by seller within 10 days of delivery if visibly damaged or defective, and otherwise, within 30 days after the defect to which each claim relates is discovered, or should have been discovered, but in no event longer than one year after product shipment.

### LIMITATION OF REMEDY

Purchaser's exclusive remedy and the limit of seller's liability for breach of the limited warranty set forth in the above limited warranty/specifications, whether based on negligence, breach of warranty, strict liability, or any other theory, shall be, at seller's option, repair, replacement with a like quantity of non-defective product or refund of the purchase price, plus reasonable commercial charges incurred for approved returns.

### NO RECOVERY OF CONSEQUENTIAL OR SPECIAL DAMAGES

Seller shall not be liable for any consequential or special damages based on negligence, breach of warranty, strict liability or any other theory for failure to perform its obligations under this agreement. Additionally, consequential and special damages shall not be recoverable even if the repair, replacement or refund remedy for seller's breach of its limited warranty fails its essential purpose or for any other reason.

### THERMAL PERFORMANCE

THICKNESS (NOM.)		C-VALUE (CONDUCTANCE)		R-VALUE (RESISTANCE)		RECYCLED CONTENT* 20 PSI / 25 PSI		
mm	in	W/m <sup>2</sup> •°C	BTU/(hr•ft <sup>2</sup> •°F)	m <sup>2</sup> •°C/W	(hr•ft <sup>2</sup> •°F)/BTU	% Pre-Consumer	% Post-Consumer	% Total
25	1.0	0.167	0.95	5.7	1.00	5.3 / 5.2	31.8 / 29.9	37.1 / 35.1
38	1.5	0.111	0.63	8.6	1.51	5.2 / 5.2	24.5 / 22.8	29.8 / 28.0
41	1.6	0.104	0.59	9.1	1.61	5.2 / 5.2	23.4 / 21.7	28.7 / 27.0
43	1.7	0.098	0.55	9.7	1.71	5.2 / 5.2	22.4 / 20.8	27.7 / 26.0
46	1.8	0.092	0.52	10.3	1.81	5.2 / 5.2	21.5 / 19.9	26.7 / 25.1
51	2.0	0.082	0.47	11.4	2.01	5.2 / 5.2	19.9 / 18.4	25.1 / 23.6
58	2.3	0.071	0.41	13.2	2.32	5.2 / 5.2	17.9 / 16.5	23.1 / 21.7
64	2.5	0.063	0.37	14.4	2.53	5.2 / 5.2	16.8 / 15.4	22.0 / 20.6
69	2.7	0.060	0.34	15.6	2.74	5.2 / 5.1	15.8 / 14.5	21.0 / 19.7
76	3.0	0.054	0.31	17.4	3.06	5.2 / 5.1	14.5 / 13.3	19.7 / 18.4
81	3.2	0.051	0.29	18.6	3.28	5.1 / 5.1	13.8 / 12.6	18.9 / 17.7
84	3.3	0.049	0.28	19.2	3.39	5.1 / 5.1	13.4 / 12.3	18.6 / 17.4
86	3.4	0.047	0.27	19.9	3.50	5.1 / 5.1	13.1 / 12.0	18.2 / 17.1
91	3.6	0.045	0.25	21.1	3.72	5.1 / 5.1	12.5 / 11.4	17.6 / 16.5
97	3.8	0.042	0.24	22.3	3.94	5.1 / 5.1	11.9 / 10.9	17.0 / 16.0
102	4.0	0.040	0.23	23.6	4.16	5.1 / 5.1	11.4 / 10.4	16.5 / 15.5

Note: Long-term thermal resistance (LTTR). LTTR values were determined in accordance with CAN/ULC S770, at 24°C (75°F). The ultimate R-value of these products will depend on individual installation circumstances.

\* Value represents average results (Grade 2/Grade 3).

Refer to the Material Safety Data Sheet and Product Label prior to using this product.



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