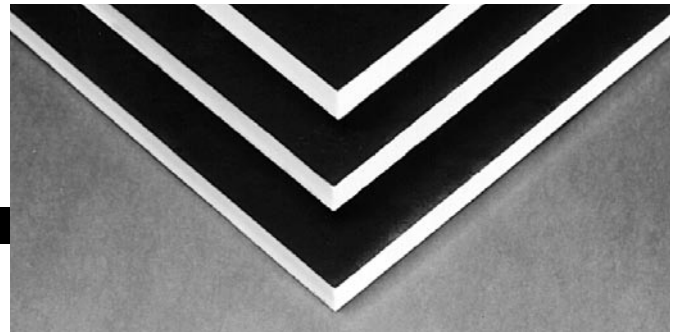


# ValuTherm™ 25 PSI



## Description

ValuTherm 25 PSI is a rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to universal fiber glass reinforced facers.

ValuTherm 25 PSI 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.

ValuTherm 25 PSI meets the physical property requirements of ASTM C 1289, Type II, Class 1, Grade 3 and CAN/ULC S704. ValuTherm specialty products are also available as tapered panels.

## Use

ValuTherm 25 PSI 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 side provide a suitable surface for mechanical attachment to a structural deck as well as a suitable surface to apply hot asphalt or cold adhesives. ValuTherm 25 PSI has been rated in FM Global® 1A-60 and 1A-90 fire and wind-resistant systems for BUR, modified bitumen and single ply systems in specific constructions. It has been classified by Underwriters Laboratories Inc. as an approved roof insulation in numerous Class A roof constructions and Roof/Ceiling hourly fire-rated assemblies, and is classified by Underwriters' Laboratories of Canada.

## Typical Physical Properties

	Values	Test Method
Water Absorption.....	<1.5% max.....	ASTM D 209
Dimensional Stability Change ....	<2%.....	ASTM D 2126
Compression Resistance*		
10% Consolidation-psi (kPa)...	25 (172) min.....	ASTM D 1621
Moisture Vapor Permeance.....	<1 perm.....	ASTM E 96
	(57.5 ng/(Pa•s•m <sup>2</sup> ))	
Service Temperature .....	-100 to 200°F	
	(-73° to 93°C)	
Tensile Strength-psf (kPa) .....	730 (35) nom.....	ASTM D 1623

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

## Advantages

- High thermal efficiency
- Universal facer that is compatible with BUR, modified bitumen and single ply membrane systems
- Complies with EPA, CEPA and Montreal Protocol requirements
- Meets Clean Air Act Amendments of 1990

## For Use Over Metal Decks

The minimum thicknesses of ValuTherm 25 PSI insulation over metal decks are as follows:

Width of Rib Opening	Up to 2 3/8" (67 mm)	Up to 3 3/8" (86 mm)	Up to 4 3/8" (111 mm)
Thickness of Insulation (Minimum)	1.0" (25 mm)	1.2" (30 mm) <sup>†</sup>	1.3" (33 mm) <sup>†</sup>

<sup>†</sup>Must order 1.5" (38 mm) thickness to meet this requirement.

## Sizes

ValuTherm 25 PSI is available in 4' x 4' (1.22 m x 1.22 m) or 4' x 8' (1.22 m x 2.44 m) boards in thicknesses of 1.0" (25 mm) to 4.0" (102 mm).

## Product Data

Standard Thicknesses (nom.)		LTTR* R-Value* (hr-ft <sup>2</sup> -°F) / BTU m <sup>2</sup> -°C/W		Recycled Content**		
(in.)	(mm)			Post-industrial (%)	Post-consumer (%)	Total (%)
1.0	25	6.0	1.05	8.4	36.4	44.8
1.5	38	9.0	1.59	10.3	26.4	36.7
1.7	43	10.3	1.81	10.7	24.1	34.8
2.0	51	12.1	2.14	11.1	21.8	32.9
2.3	58	14.0	2.47	11.7	18.4	30.1
2.5	64	15.3	2.69	11.8	17.9	29.7
2.8	71	17.2	3.03	12.0	16.4	28.4
3.0	76	18.5	3.26	12.3	15.7	28.0
3.1	79	19.0	3.33	12.4	15.2	27.6
3.3	84	20.4	3.60	12.5	14.5	27.0
4.0	102	25.0	4.40	13.1	12.0	25.1

\* The Long-Term Thermal Resistance (LTTR) values were determined in accordance with CAN/ULC S770.

\*\* Value represents average results.

ValuTherm™ is marketed by Johns Manville. Refer to the Material Safety Data Sheet and product label prior to using this product.