

## Description

Tapered ENRGY 3 is rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to universal fiber glass-reinforced facers. Tapered ENRGY 3 is designed for direct application to steel and other roof decks to promote positive drainage. Tapered ENRGY 3 meets the material requirements of ASTM C 1289, Type II, Class 1, Grade 2 and Federal Specification HH-I-1972/Gen and HH-I-1972/2. Conforms to CAN/ULC S704, Type 2, Class 2 (See CCMC Evaluation Report 13058-L). Tapered ENRGY 3 is also available as precut miters and precut crickets.

## Use

Tapered ENRGY 3 provides high thermal insulation value over metal, nailable and non-nailable roof decks in built-up, modified bitumen and singleply membrane roofing systems. It may be applied using hot bitumen, cold adhesives or mechanical fasteners. The universal facer on the top and bottom side provides a suitable surface for mechanical attachment to a structural deck as well as a suitable surface to apply hot asphalt or cold adhesive. Tapered ENRGY 3 is the ideal insulations for both new construction and re-roofing where ponding water or positive slope is a concern.

Tapered ENRGY 3 has been rated in FM 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 many Class A roof constructions and Roof/Ceiling hourly fire-rated assemblies. It also has been classified by Underwriters' Laboratories of Canada.



JM supports NRCA Bulletin #9 in recommending that a cover board of Fesco® Board or ½" (1.27 cm) Retro-Fit™ Board be installed over foam insulations in hot bituminous membrane systems.

## Advantages

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

## Typical Physical Properties\*

	Values	Test Method
Water Absorption, % by Volume – 2 hours	<1.0 max.	ASTM C 209
Dimensional Stability Change: 7 days @ 158°F (70°C), 90-100% RH		
Lengthwise	<2%	ASTM D 2126
Crosswise	<2%	
Compression Resistance**		
10% Consolidation–psi	20 nom. (138 kPa)	ASTM D 1621
Product Density–pcf	2.0 nom. (32 kg/m³)	ASTM C 209
Moisture Vapor Transmission***	<1 perm	ASTM E 96
	57.5 ng/(Pa•s•m²)	
Service Temperature	-100°F - 250°F	
	(-73°C - 121°C)	

\*As measured on ENRGY 3 roof insulation.

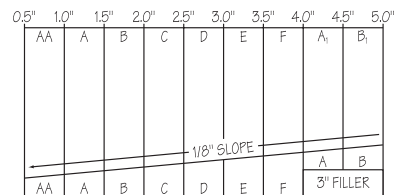
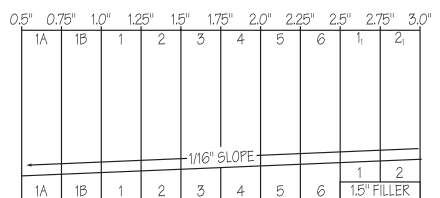
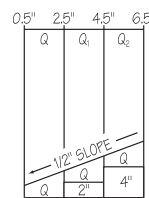
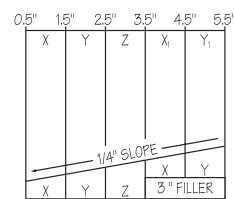
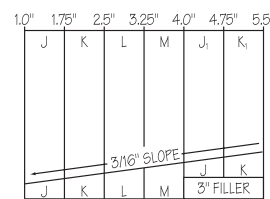
\*\*Also available in 25 psi (172 kPa).

\*\*\*Foam core only.

## Sizes

Tapered ENRGY 3 is available in 4' x 4' (1.22 m x 1.22 m) panels in thicknesses of ½" (1.27 cm) minimum to 4" (10.16 cm) maximum in a single layer. Available slopes are 1/16", 1/8", 3/16", 1/4" and 1/2" per foot (5.2, 10.4, 15.6, 20.8 and 41.6 mm/m).

## Profiles



Refer to the Material Safety Data Sheets and product labels prior to using this product.