PROLOFT™
THERMAL BARRIER STRIPS

DATA SHEET

PROLOFT™ HIGH PERFORMANCE INSULATION FOR BUILDING ENVELOPE'S

Proloft™ industry-leading thermal barrier strips are designed to provide thermal bridging protection for commercial and residential buildings. Proloft™ nanoporous aerogel thermal barrier strips are highly effective insulators with the highest R-value per inch (R-10) of any insulation on the market today.

Proloft™ thermal barrier strips exceed ASHRAE 90.1, 2010 requirements for both continuous insulation and overall U-factor making Proloft™ the ideal solution for building professionals obligation to meet today's building codes and standards.

Proloft™ can be custom-cut for efficient installation in walls, roofs, floors, door and window frames. Flexible and easy to use, Proloft™ eliminates thermal bridging without compromising R-value from compression.

Save time and money using Proloft™ Thermal Barrier Strips to maximize the energy efficiency of your building envelope without compromising valuable space within your framing assemblies.

ADVANTAGES

▸ SUPERIOR THERMAL PERFORMANCE, REDUCED PROFILE
Proloft™ gives the best thermal resistance with the highest R-Value (R-10) per inch over other competing insulating products on the market today.

▸ FIRE RESISTANT, HYDROPHOBIC AND BREATHABLE
Proloft™ has a Class A fire rating allowing for the construction of fireproof framing assemblies. Proloft™ is a hydrophobic matter that repels liquid water while allowing vapor to pass through the material. This is a benefit for areas susceptible to mold.

▸ SAVE TIME, SPACE AND MONEY
Proloft™ can be custom cut to conform to any space or shape. With reduced material volume, high packaging density and low scrap rates, logistical costs are reduced by a factor of five or more compared to rigid insulation.

▸ PHYSICALLY ROBUST WITH UNCOMPROMISED PERFORMANCE
Proloft™ is soft and flexible with excellent spring back. Proloft™ recovers its thermal performance even after compression events as high as 50 psi. Proloft insulates with nano-size cells of trapped air, which are compressible so Proloft™ will maintain its thermal performance once installed.

▸ ENVIRONMENTALLY FRIENDLY
Proloft™ is a reusable non-toxic landfill disposable material with no respirable fiber content. Proloft™ can be custom ordered to fit your exact installation requirements minimizing waste.

CHARACTERISTICS

Proloft® can be cut using conventional textile cutting tools including scissors, electric scissors, and razor knives. The material can be dusty, and it is recommended gloves, safety glasses , and dust masks be worn when handling material. See MSDS for complete health and safety information.

R-Value ASTM D1622	R-10.2 per inch (Hr-ft^2-°F/Btu/in)
Thickness*	0.2 in (5 mm) 0.4 in (10 mm)
Width*	58 in (1,475 mm)
Thermal Conductivity ASTM C 518 (Mean Temp. 75°F) EN 12667 (Mean Temp. 10°C)	 0.101 BTU-in/hr-ft^2-°F 14 mW/m-k
Color	Gray
Compressive Strength ASTM C 165	8 psi stress at 10% compression
Fire Performance ASTM E 84	Class A
Water Vapor Transmission ASTM E 96	33 Perms
Hydrophobic	Yes
Embodied Energy	53 MJ/kg
Embodied CO_2	4.2 kg of CO_2 /kg

* Nominal Values

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