

Spaceloft®

FLEXIBLE HIGH PERFORMANCE INSULATION FOR BUILDING ENVELOPES & EQUIPMENT

Spaceloft is a flexible, nanoporous aerogel blanket insulation designed to meet the demanding energy conservation requirements of residential and commercial building applications.

Spaceloft's unique properties—extremely low thermal conductivity, superior flexibility, hydrophobicity, and ease of use—make it essential for those seeking the ultimate in thermal protection.

Using patented technology, Spaceloft insulation combines a silica aerogel with reinforcing fibre to deliver industry-leading thermal performance in an easy-to-handle and environmentally friendly product. Spaceloft products are proven, effective insulators, a range of primary new build and retrofit applications including;



Advantages

Superior Thermal Performance

Up to five times better thermal performance than competing insulation products, ideal for low energy, passive or zero-energy buildings.

Reduced Thickness and Profile

Equal thermal resistance at a fraction of the thickness, releases space for building occupiers and increases investment returns for owners / investors.

Less Time and Labor to Install

Easily cut and conformed to complex shapes, tight curvatures, and spaces with restricted access. Spaceloft can be prefabricated to reduce installation times, less disruption for occupants.

Physically Robust

Soft and flexible but with excellent springback. Spaceloft can tolerate typical site mechanical abuse without compromising thermal performance.

Shipping and Warehousing Savings

Reduced material volume, high packing density, and low scrap rates can reduce logistics costs by a factor of five or more compared to rigid, preformed insulations.

Hydrophobic Yet Breathable - Hygrothermal Risk Assessments

Spaceloft® repels liquid water but allows vapour to pass through, ideal for heritage application or where a breathable design is desired. Spaceloft's hygrothermal characteristics are available for simulation software such as WUFI®.

Environmentally Friendly

Landfill disposable with no respirable fibre content.

Characteristics

Spaceloft® can be cut using conventional cutting tools including scissors, tin snips, and razor knives. It is recommended gloves, safety glasses, and dust mask be worn when handling material. Additional processing guidelines can be found in the Spaceloft Applications Guide. Refer to the Article Information Sheet (AIS) for additional health and safety information.

Product Properties and Sustainability

Thicknesses ₁	5 mm 10 mm
Width ₁	1.475 m
Thermal Conductivity ₂	15.0 mW/m-K
Colour	Grey
Euro Fire Performance	C,s1,d0
Water Vapour Transmission	$\mu \approx 5$
Hydrophobic	Yes
Environmental Characteristics	Refer to Environmental Product Declaration
CE Marked	Yes

₁ Nominal Values
₂ Thermal conductivity measurements taken at a compressive load of 2 psi

