



Spaceloft®

High Performance Insulation for Building Envelopes



Material durability and flexibility
enables use in multiple
construction applications

versatile



Quickly offsets embodied energy
and CO₂ via stable, long-term
thermal performance

sustainable

Enables energy efficiency
improvement in tight spaces or
untreated areas

innovative

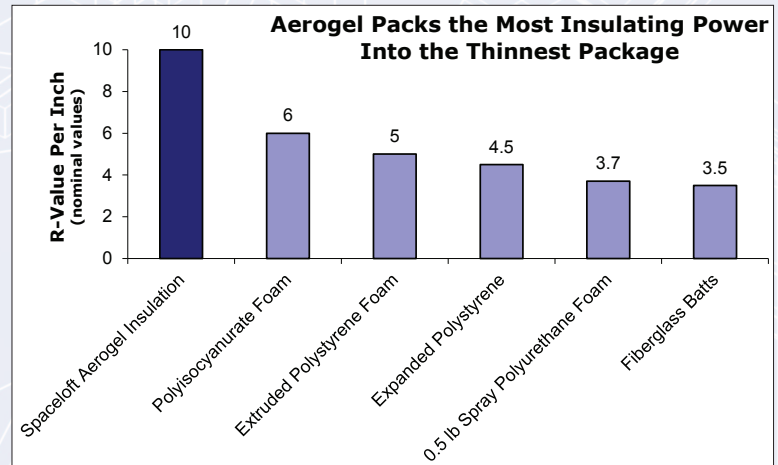


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Unmatched thermal performance throughout building envelope

- Space Saving
- Easy to Install
- Increases Energy Efficiency
- Low Carbon Footprint
- Commercial, Industrial, Residential



R means resistance to heat flow. The higher the R-value, the greater the insulating power.

exterior walls

Spaceloft® is easily installed on exteriors with minimum reveal disruption.



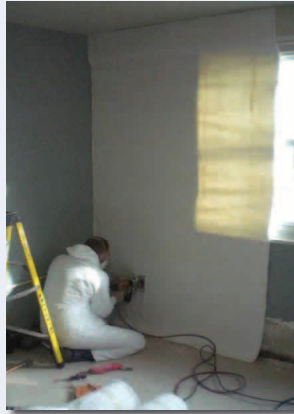
Case Studies

Scan QR Code with your mobile device to link to case studies on our website

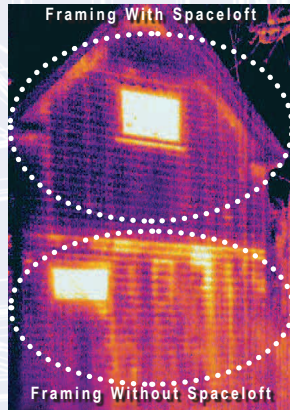
Or visit www.aerogel.com/markets/cases.html#B&C

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interior walls



Spaceloft's thin profile offers the same R-value as traditional thick insulation with minimum interior space lost – especially beneficial to solid masonry building retrofits.



framing

Applied between framing and internal and/or external sheathing, Spaceloft® eliminates thermal bridging and can add up to R4 to standard wall framing with dramatic results.

under floor

Spaceloft's thermal efficiency, good compression strength, and thin profile make it attractive as an underfloor insulating layer.





spaceloft specs

Spaceloft® is a flexible, nanoporous aerogel blanket insulation that reduces energy loss while conserving interior space in residential and commercial building applications. Spaceloft's unique properties – extremely low thermal conductivity, superior flexibility, compression resistance, 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 fibers to deliver industry-leading thermal performance in an easy-to-handle and environmentally friendly product. Spaceloft® is a proven, effective insulator in building applications, providing the high R-value for maximum energy efficiency in walls, floors, roofs, and framing.

Fire Performance

Spaceloft® has received a C rating in the Euroclass fire test. The rating is determined by the reinforcement fibre. Spaceloft has received a Class A rating in the ASTM E 84 fire test. This rating denotes flame spread less than 25 and smoke development less than 50.

Installation Considerations

Rolls of Spaceloft® insulation are easily cut to size using a utility knife or hot knife, when available. To get the marked R-value, it is essential that this insulation be installed properly. If you do it yourself, get instructions and follow them carefully. Instructions do not come with this package. Please contact Aspen or visit www.aerogel.com for further details.

Spaceloft® 5 mm

Thermal Conductivity (mW/m-K)*	15.0
Thickness, in (mm)*	0.2 (5)
Width, in (m)*	58 (1.47)
Roll Length, ft (m)*	260 (79)

* Nominal Values

Spaceloft® 10 mm

Thermal Conductivity (mW/m-K)*	15.0
Thickness, in (mm)*	0.4 (10)
Width, in (m)*	58 (1.47)
Roll Length, ft (m)*	145 (44)

* Nominal Values

Physical Properties and Sustainability

Color	Gray
Maximum Use Temperature F° (C°)	390° (200°)
Density, lb/ft³	9.4
Compressive Strength, psi @ 10% compression	8
Water Vapor Transmission, ASTM E 96	33 perm
Fire Performance, ASTM E 84	Class A
Hydrophobic	Yes
Embodied Energy (MJ/kg)	53
Embodied CO ₂ (kg of CO ₂ / kg)	4.2



More Info

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