

Alutherm GlassWool Blanket

PRODUCT DESCRIPTION

Alutherm is a lightweight fiberglass one side foil-faced blanket made of fine, long inorganic fibres bonded with a high-temperature binder. These fibres, each approximately 6–7 microns in diameter, trap millions of tiny air pockets, providing excellent thermal and acoustic insulation.

Aluminum foil significantly enhances the insulation performance of glass wool blankets. Its reflective surface bounces radiant heat away, preventing it from passing through the insulation. This helps maintain a stable indoor temperature, reducing the need for excessive heating or cooling and improving energy efficiency.

PRODUCT BENEFITS

Excellent Thermal Insulation: The combination of glass fibres and a reflective aluminium foil layer forms a strong barrier against heat transfer, helping to maintain comfortable indoor temperatures.

Superior Sound Absorption: Foil glass wool blankets effectively reduce noise, making them ideal for sound-sensitive environments like recording studios, theatres, and offices.

Non-combustible: With an A1 group number, Alutherm does not ignite, does not release toxic gases, does not contribute to flame spread.

Moisture Protection: The aluminium foil layer acts as a vapor barrier, preventing moisture penetration and protecting the insulation from damage.

Easy to Install: Lightweight and flexible, foil glass wool blankets are easy to handle, cut, and install. They are compatible with various construction materials, ensuring seamless integration.

APPLICATION RANGE

Residential Buildings: Used for roof, wall, and floor insulation to maintain a comfortable indoor temperature while reducing energy costs.



Commercial Buildings: Used in offices, hotels, shopping malls, and other commercial spaces for thermal and acoustic insulation.

Industrial Facilities: Used for pipes insulation, ducts, boilers, and other equipment, helping to minimize heat loss, reduce noise, and improve workplace safety.

TECHNICAL DATA

Thickness	25mm	50mm
Width	1,200mm	1,200mm
Length	18m	12m
Fiber diameter	≤ 6μ m	≤ 6μ m
Density	24kg/m ³	32 kg/m ³
Moisture content	< 5%	< 1%
Grade of combustibility	Non-combustible, grade A	Non-combustible, grade A
Thermal conductivity	0.036 W/mK	0.034 W/mK
Slag inclusion content	< 0.3%	< 0.3%
Thermal resistance	0.7 m ² K/W	1.47 m ² K/W
Colour	Yellow	Yellow
Working temperature	-120°C up to 450°C	-100°C up to 400°C