



Astrotherm insulation system
Cost-effective insulation concept
for high thermal and acoustic performance

Astrotherm insulation

Astrotherm insulation consists of a fibre glass blanket with a laminated vapour barrier. Isoblocs significantly reduce thermal bridges and Alustrip improves the overall appearance of the insulation joints.

FIBRE GLASS BLANKET:

Consists of a flexible blanket of high quality fibre glass, based on a thermo-setting synthetic resin with a homogeneous fibre fleece and long fibres, without residual or reused materials.

- Density: 16kg/m³
- Thermal conductivity: 0.037W/(m•K)
- Nominal thicknesses: 40, 60, 80 and 100mm
- Lengths: Factory cut-to-length rolls to suit each project
- Packaging: in perforated polybags and labelled for correct identification on jobsite

VAPOUR BARRIERS:

Consist of a glass-scrim reinforced film bonded to the fibre glass blanket. The vapour barrier is wider than the actual insulation width, creating overlaps strengthened by a double glass-scrim reinforcement (80mm) for stapling together.

ERECTION:

Astrotherm insulation is unrolled and stretched over purlins or girts (except in double skin roofs). The longitudinal assembly of layers is achieved by double stapling the two adjacent overlaps thus ensuring the continuation of the vapour barrier.

ADHESIVE:

The vapour barrier is bonded to the fibre glass blanket with an adhesive, which contains a fire retardant.

ISOBLOC:

Isoblocs are insulating strips made of extruded polystyrene boards. Isoblocs are located over purlins and girts and significantly reduce thermal bridges.

ALUSTRIP:

Alustrip is a colour coated strip stretched over purlins and located under the sidelaps of the layers, in order to ease erection and to improve interior aesthetics.

N.B.: delivery of Alustrip is optional.

ADVANTAGES:

- Thermal and acoustic insulation
- High insulation values
- Tailor-made supply, minimal waste
- High density fibre glass for long-lasting quality
- Large range of vapour barriers
- Excellent fire classification
- Fast erection



Astrotherm U-values:

Thickness (mm)	40	60	80	100
U-value W/(m ² ·K)	0,82	0,57	0,43	0,35

Vapour barrier specifications and EU fire ratings

Type	Fire rating according to EN 13501-1	Definition	Specification highlights
ASA	A1	<ul style="list-style-type: none"> • painted alufoil • glass scrim reinforcement • aluminium film 	<ul style="list-style-type: none"> • non-combustible • light grey colour
AVS	A2-s1, d0	<ul style="list-style-type: none"> • painted alufoil • glass scrim reinforcement • PVC film 	<ul style="list-style-type: none"> • excellent fire rating • good appearance • light grey colour • good vapour permeability • very good quality/price ratio
MPS	D-s3, d0	<ul style="list-style-type: none"> • vinyl film • glass scrim reinforcement • metalized polyester film 	<ul style="list-style-type: none"> • excellent appearance • white colour • light-reflecting • easy to erect
KAS	C-s1, d0	<ul style="list-style-type: none"> • alufoil • glass scrim reinforcement • kraft paper 	<ul style="list-style-type: none"> • excellent fire rating • good vapour permeability • aluminium colour • economical

Russian certification of fire safety

Type	Inflammability	Combustibility	Smoke formation
Astrotherm without facing		NG	
Astrotherm with facing ASA	V1	G1	D1
Astrotherm with facing AVS + KAS			D2
Astrotherm with facing MPS	V3	G3	D3

Definitions:
(according to ANTIP)
valid until 25.06.2009

V1: low flammability
V3: high flammability

NG: non-combustible
G1: low combustibility
G3: normal combustibility

D1: low smoke formation
D2: medium smoke formation
D3: high smoke formation

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Astron is the brand name of the products sold by the Building Systems Business area of the Lindab group, Europe's largest manufacturer of steel building systems for industrial, office and commercial use.

Lindab-Astron produce up to 1,000 buildings a year, distributed either through a network of 400 certified independent Builders, spanning nearly 40 countries or through our Key Accounts Unit. Our headquarters is located in Diekirch (Luxembourg). Lindab's concept is clear and simple:

We simplify construction

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