

ISOVER CLIMCOVER ROLL CR ALU1 Carbon Low



CLIMCOVER Roll CR Alu1 Carbon Low is a lightweight glass wool mat coated with mesh-reinforced aluminium laminate, designed for thermal and condensation insulation in ventilation systems. The CO₂ emissions from the production phase (A1-A3) of this new low-carbon product have been reduced by 72% since Isover's Forssa plant switched entirely to renewable electricity and biogas. The calculation is based on product-specific EPD environmental declarations verified by a third party.

PRODUCT DESCRIPTION

CLIMCOVER Roll CR ALU1 is a flexible glass wool mat coated with mesh-reinforced aluminum laminate. This versatile duct insulation effectively insulates both heat and sound. Its U-fiber structure provides excellent compression strength and dimensional stability. The mat is easy to install snugly on various cylindrical surfaces and is also suitable for exposed installations where the risk of impact is low. When installed with staples, it can be used as an alternative to lamella mats. Its insulation efficiency class is STANDARD PLUS. For the 20 mm thick product, the fire classification is A2-s1,d0, which differs from other thicknesses.

TECHNICAL INFORMATION

CE-Marking	MW-EN14303-T2
Thickness	20-100 mm
Density	30 kg/m ³
Facing	Mesh-reinforced aluminium laminate
Fireclass	A1
Max. operating temperature (MST) (°C)	80

Thermal conductivity

°C	10	50	100
W/mK	0.036	0.043	0.054

USAGE

The product is primarily used as thermal and condensation insulation in air conditioning systems, small tanks, boilers, and similar applications. The flexible U-fiber structured mat is easy to install tightly on various cylindrical surfaces.

The mat is also suitable for installation in exposed locations where the risk of impact is low. If the insulation is likely to be exposed to impacts, the mat can be covered, for example, with metal cladding. The mat is used in applications where the insulation is specified in the plans as follows: PSK 3705: MW-M-2, TTRYL: Ba (if installed with staples according to the installation instructions); Be.

INSTALLATION

Thermal insulation: The mat is cut to the required length, bent around the object to be insulated, and tied with galvanized steel wire (Ø 0.9 mm) at 300 mm intervals. Shaped sections must be secured with at least one tie per piece. At supports, ties must be placed on both sides of the support, approximately 30-50 mm from the support. **Condensation insulation:** The installation is carried out as for thermal insulation, and in addition, all seams are taped with aluminum tape at least 75 mm wide, and all possible penetrations in the coating are sealed. Alternatively, installation can be done using an ISOVER stapler according to the installation instructions.

PACKAGING

Plastic packaging on a pallet.