

Arcond Condensation Blanket

Solving your condensation problems



- Very Good Absorption Ability
- Effective Sound Reduction
- Improved Corrosion Protection
- Antibacterial Properties



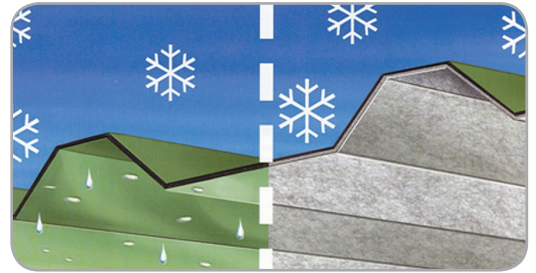
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On the underside of an uninsulated roof, condensation builds up, which can cause discomfort when it drops into the room.

Arcond is a blanket product which we apply onto the sheet before profiling. It binds moisture until it's purged out.

Arcond is a well-proven product used with great success in large parts of Europe.



Technical Information

Water absorption*	Internal regulation FD15	g/m ²	0°** 45°** 90°**	> 900 > 700 > 600
Weigth – Blanket 100% PES***	DIN EN 29073-1	g/m ²	± 10%	110
Thickness – Blanket	DIN EN ISO 9073-2	mm		0,9 – 1,1
Weigth – Paper	DIN EN ISO 9073-1	g/m ²		70 – 90
Glue	DIN EN ISO 9073-1	g/m ²	± 10%	21
Flammability*	DIN 4102/1			B1
Durability (Adhesion)*	FTM 1 180°		N/25 mm	min 10
Durability (Adhesion) after aging*	Internal regulation FD 15		N/25 mm	Improved
Sound absorption	DIN EN 20354	At	125 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz	0,02 0,04 0,04 0,12 0,42
Thermal conductivity	DIN 52612	W/mK		0,038*** 0,045****
Bacterial resistance	IEC 68 – 2 – 10 Aspergillus niger, Aspergillus terreus, Aurebasidium pullulans Poecilomyces vaiotti, Penicillium funiculosum, Penicillium ochrochloron, Scopulariopsis brevicaulis, Trichoderma viride		28 days 29 °C 95% humidity	Assessment 1

* Blanket on sheet ** Angle of slope *** Dry test **** Moist test

Storage:

The quality does not change if the material is stored dry, in a temperature of 0-40 °C over a period of one year.

Moisture accumulations at the eaves and other exposed places, together with wind effects, cause the moisture carried around in the building. These effects can be avoided by application of lacquer on the side of the condensation blanket at the exposed areas.

We therefore recommend that:

- Eaves, at slope over 10°, applied with varnish throughout the eaves' width.
- Mount the plate on steel beam/purlin. When mounting on wooden beam, use a non-absorbent material between the condensation blanket and the wooden beam. (construction film or similar.)

Please contact your local sales representative for more info.

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VENTILATION

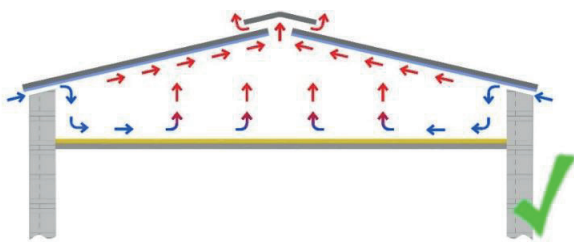
Arcond anti-condensation membrane control the condensation in an environment, where condensation is likely to occur. The membrane serves as an absorbing medium, preventing that drops of water would fall from the roof.

In spite of high water absorption capacity (for details check technical data sheet), Arcond can get saturated if it has no possibility to dry out. In order to work properly, the membrane needs to get dry during the day. For that reason adequate ventilation inside a building is necessary.

Please keep in mind that humid air is lighter than dry air, therefore it tends to go up. This has to be taken into account when planning the ventilation system of a building. The following situations clearly demonstrate the difference between adequate and inadequate ventilation inside a building.

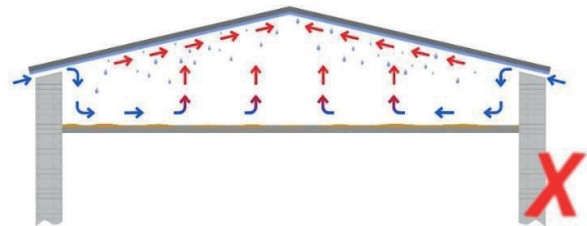
Situation 1

Adequate ventilation in an insulated building with air inflow at the sides and air outflow through a roof ridge.



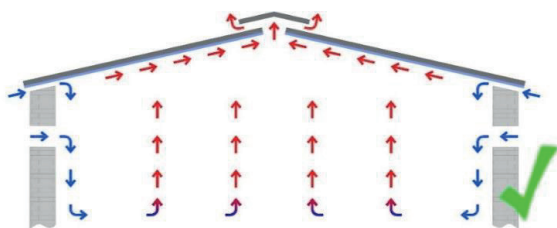
Situation 2

Inadequate ventilation in an insulated building with air inflow at the sides, but no openings on the ridge, which gives humid air no possibility to escape. The result is dripping from the roof which damages the insulation layer.



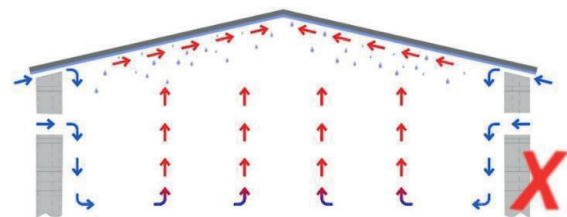
Situation 3

Adequate ventilation in an un-insulated building with air inflow at the sides and air outflow through a roof ridge.



Situation 4

Inadequate ventilation in an un-insulated building with air inflow at the sides, but no openings on the ridge, which gives humid air no possibility to escape. The result is dripping from the roof which damages the insulation layer.



When planning roof ventilation should other factors as well be considered, e.g. type of the building, location, climatic conditions, etc. Knowledge of good construction practice should be respected. Arcond anti-condensation membrane controls the condensation in an environment, where condensation is likely to occur. The membrane serves as an absorbing medium, preventing that drops of water would fall from the roof.

The information contained in this document is based to the best of our knowledge and many years of practical experience. It is believed to be correct as of the date issued. However, we cannot provide any guarantee that the information and recommendations published here are correct and complete. We accept no liability for damage or losses resulting directly or indirectly from utilization of the information and recommendations. Any reliance you place on such information is therefore strictly at your own risk. All information contained herein is subject to change without prior notice. The customers should obtain and verify the latest relevant information.

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