

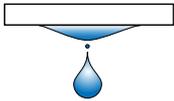
Lindab **Anticondensation**

Reduces the problem of condensation
dripping from the roof

What is the product anticondensation?

The problem with condensation

Condensation occurs on all surfaces when the surface temperature drops below a specific point. This point can vary depending on air humidity (the amount of water vapour which the air around the surface contains). During periods of high air humidity, so much condensation can form that it will run under the roof and start to drip. The occurrence of condensation is greatest in spring and autumn, when there is the biggest difference between day and night temperatures.



Without anticondensation –

An untreated steel plate



With anticondensation –

An anticondensation felt on the underside of the plate can absorb and condense about 0,2-0,3 litres per square meter (m²) of water per day. The pitch of the roof will affect.

In both situations, the moisture holding capacity drops as the roof pitch increases.

The solution

Lindab anticondensation is a specially developed felt that is applied on the back side of the steel plate when it is profiled. The result is a plate with a felt that can absorb large amounts of condensation. The absorbed condensed water is then released back into the air when conditions allow.

No breeding ground for fungus and bacteria

Lindab anticondensation is anti-bacterial, which means that the product does not create a breeding ground for fungus and bacteria. This makes the solution ideally suited for agricultural buildings and such like.

Flame retardant

The felt cloth cannot burn. In the event of fire, it simply melts away, preventing the fire from spreading.

The cloth is fire classified as A2-s1, d0, cf. EN 13501-1:2007 [non-combustible].

Quick delivery time

The scale of production makes it possible to deliver plates with anticondensation felt without any additional delivery time.

Easy to handle and install

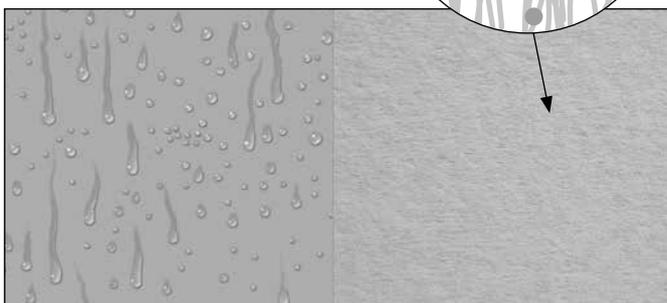
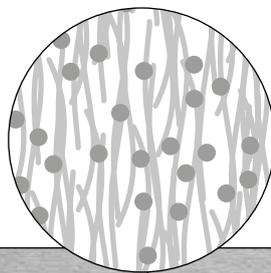
Lindab anticondensation is a durable solution that is easy to install.

NB!

The felt cloth acts as a sponge that can absorb approx. 0.2-0.3 litre of condensate per m². In optimal ventilation conditions, the filter dries and is then ready to absorb more condensate. Minimal 8 degrees pitch of the roof gives an optimal and natural ventilation.

In places with high air humidity or periods of excessive condensation, the felt can become saturated and start to drip. The cloth can tolerate temperatures from -40° to +80°.

In buildings where no amount of dripping is ever acceptable, it is therefore recommended that an underlay is installed instead. For example in uninsulated buildings where objects are stored that could be damaged by drops of water, as well as in all insulated roof constructions (e.g. in residential buildings).



A simple and ingenious solution

The felt cloth's moisture absorbent qualities are created by the fibre threads which make up the cloth.

The felt cloth is manufactured by one of Europe's leading manufacturers, and the product has been used in Europe for many years.

The felt cloth is a grey marble colour.

How to use anticondensation

Use

Lindab anticondensation is used especially for steel plate roofs on uninsulated buildings, for example in agricultural and machinery buildings. Lindab anticondensation is also ideal for use in indoor riding arenas and transport depots as well as private garages, outhouses and other uninsulated buildings where condensation can occur.

Handling and installation

The felt cloth is a robust product, but it should always be handled carefully to avoid mechanical damage.

Note:

See the installation instructions for Lindab Coverline.

Masking

On trapeze plates which are supplied with felt without masking, it is recommended that you prevent capillary action in a 100 mm-long area along the ends of the plates by melting the felt with a heat gun or coating it with a water-based lacquer.

Particular situations where condensation can occur

Temporary condensation problems can arise in the building phase due to moisture from masonry work with concrete or from heating with gas burners (1 kg gas emits 1.5-2 kg of water) or in lack of optimal ventilation.

Delivery and storage

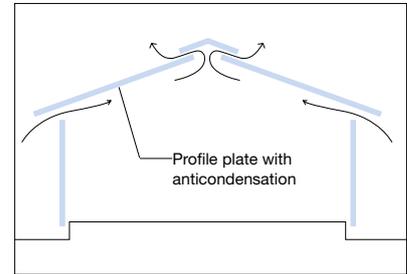
The plates are delivered to the construction site in the desired lengths, and specialist packaging is not necessary.

The plates must be stored dry and well-ventilated at the construction site so that the felt cloth does not absorb unnecessary moisture.

Cleaning

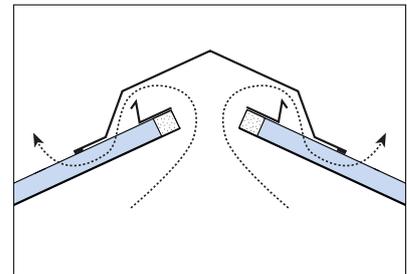
The felt cloth can be high pressure cleaned with diffuse spray jets and angled irradiation. The use of antifungal agents with a pH value of 9 or more is not recommended. Lindab recommends that you try cleaning a smaller area first (e.g. one corner of the plate).

Ensure adequate ventilation



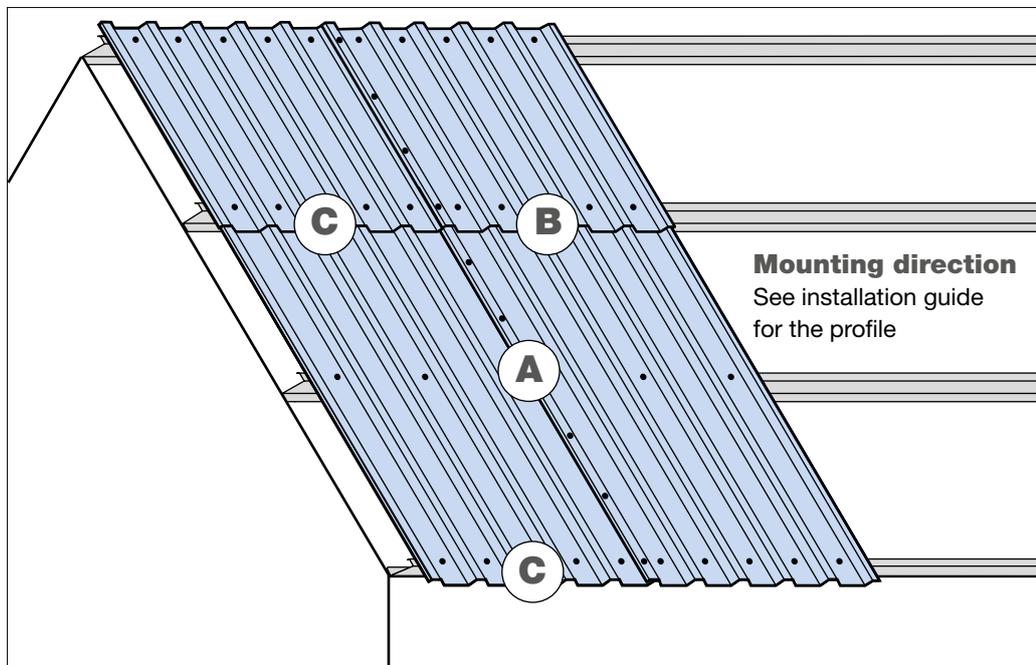
Anticondensation **must** be supplemented with an effective ventilation across the entire roof so that air humidity in the building is minimised and the fibre cloth can dry regularly. Minimum 8 degrees is recommended.

Ridge ventilation

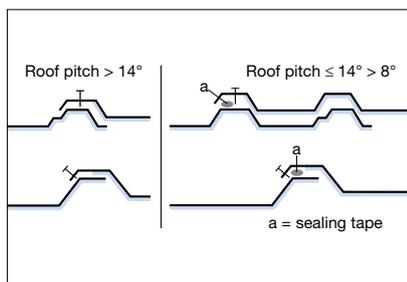


Lindab can supply a special roof ridge solution that can provide ventilation at roof ridges. For more information, see Lindab's installation instructions for roof and facade cladding.

Mounting profiles with anticondensation

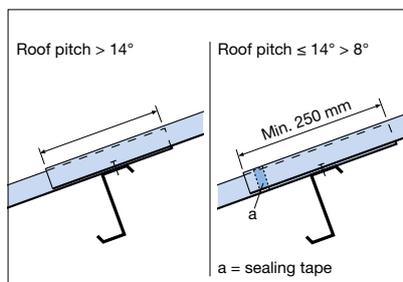


A. Side overlap



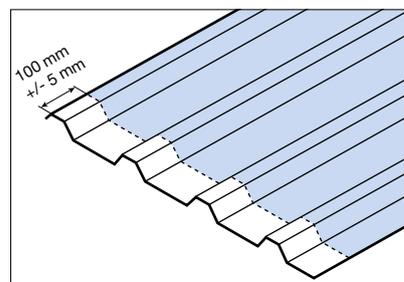
The type of side overlap depends on the roof pitch. Above shows different examples of side overlap depending on the roof pitch.

B. End overlap



The type of end overlap depends on the roof pitch

C. Masking



Approx. 100 mm without felt cloth along the end of the plate at the end overlap and eaves.





Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

We simplify construction