Technical data sheet

Corotop Metal

Roof membrane with a structured separation layer

Product is made of the three-layer Corotop membrane and a drainage mat with specially designed weave placed from the external side. The drainage mat provides distance between used metal sheets and the membrane creating a durable and effective roof coverage system. The membrane is resistant to influence of high temperatures and UV-rays. It ensures optimal ventilation as well as roof coverage's vapour permeability at the same time. Available with adhesive strips.



Advantages

- ✓ light and easy to install
- ✓ provides drainage, especially for basic sheet metal roofing
- ✓ is an element of the building's gas-tightness system
- ✓ provides ventilation
- ✓ easy in application

Application

- ✓ for ventilated, insulated, uninsulated and boarded pitched roofs
- ✓ for steel roofing, e.g. standing seam roofing
- ✓ for sheet metal facades – ventilated and unventilated

High resistance to water penetration

High vapour permeability

Four layer construction

Energy saving

Conformité Européenne

Characteristics

Material	polypropylene
Number of layers	4
Gramatura	440 g/m² ±10%
Colour	black, natural
Width	1,5 m
Length	25 m
Reaction to fire	class E*
Resistence to water penetration	class W1
Resistance to water penetration after artificial aging	class W1
Water vapor diffusion (Sd)	0,02 m (-0,01/+0,03)
UV resistance	max. 3mo**
Tensile strength (along)	320 N/50 mm (±30%)
Tensile strength (across)	200 N/50 mm (±30%)
Elongation (along)	70 % (±30%)
Elongation (across)	100 % (±30%)
Tear resistance MD (along)	150 N (±20%)
Tear resistance CD (across)	200 N (±20%)

Resistance to artificial aging associated with mechanical properties:

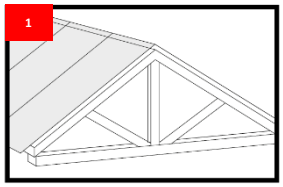
Tensile strength (along)	145 N/50 mm (±30%)
Tensile strength (across)	90 N/50 mm (±30%)
Elongation (along)	35 % (±30%)
Elongation (across)	45 % (±30%)
Flexibility at low temperature	≥-40°C
Alignment	meet the requirements
Stability of dimensions	< 2%
Temperature resistance	od -40°C do +80°C

Meet the requirements: EN 13859-1:2010, EN 13859-2:2010.

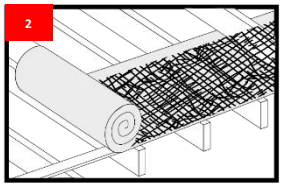
* The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m^3 (Article 5.3.2.3, EN 13238).

** Refers to the annual average insolation; as the periodic insolation increases, the duration of maximum exposure to UV radiation decreases proportionally.

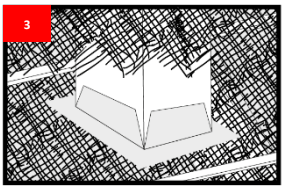
Installation



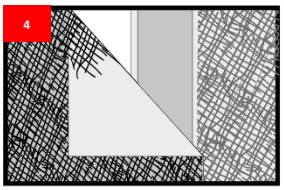
Corotop Metal Membrane is designed for roofs with a minimum angle of slope 11 °, under the roof covering made of flat sheets.



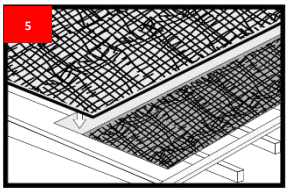
The membrane must be unfolded in parallel to the eaves, with the drainage polypropylene mat upwards. The membrane has an overlapping strip with a width of 10 cm with the drainage polypropylene mat removed, which from the side of the roof ridge should always be nailed.



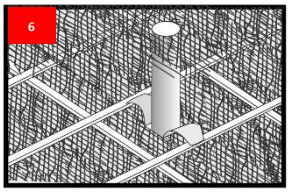
Drainage polypropylene mat must be removed when finishing e.g. the roof ridge, chimney, etc. In the transition areas, where the structural separation layer is not required, use the Corotop Strong membrane - a carrier film of membrane Corotop Metal.



To provide a proper installation of membrane and its tightness on the roof and to bond overlays, use double-sided tape Corotop Mix



Other tapes of membrane should be laid on the overlays left so as to provide a good drainage of water in the direction of eaves, thanks to a tight membrane structure, it is possible to use standard nails and staples.



In the case of small elements (e.g. extract pipes), the membrane is cut in a trapezoidal shape and nailed to the battens.

Packaging

Rolls/squere per pallet (rol/m²):	10/375
Pallet dimension: length × width × height (m):	1,20 x 0,80 x 1,60

Storage

The rolls should be stored in an upright position under cover, ventilated, free from moisture place. Protect from chemical detergents, high temperatures and sunlight, as they are diminishing technical parameters of the material or cause permanent damage. The rolls must be transported in covered means of transport, protected from damage.

The information contained in this data sheet, particularly recommendations regarding the manner and conditions of application as well as the scope of use of the product, have been developed based on our experience, our best knowledge and in good faith. Apart from the information given in this data sheet, health and safety regulations, etc. must be observed. This technical data sheet supersedes all previous versions applicable to this product.