DropStop

DropStop - solution to condensation problems

DropStop shall be used on roofs, in non insulated buildings and in case when insulation is fastened under the purlins. It is perfect solution in buildings with a stable, non-aggressive atmosphere and intermittent low or medium hygrometry. The good reflective quality of white non woven film retains a good level of light in the building. DropStop can be used in most well ventilated buildings, factory units with a daytime activity or buildings with minimal heating.

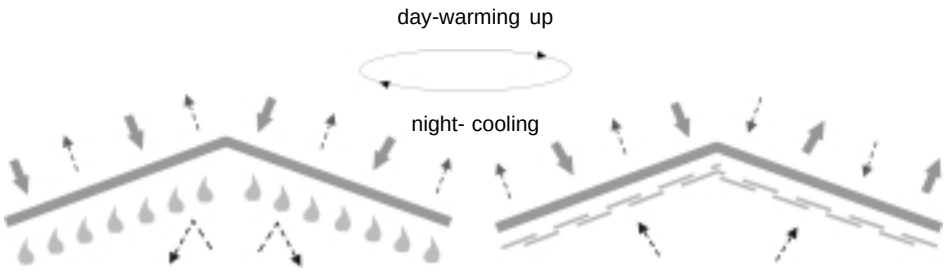
Material:
DropStop is composed of a non woven film bonded to the reverse side of galvanized and prepainted steel strip. The non woven film consist of natural and synthetic fibres and a resin binder.

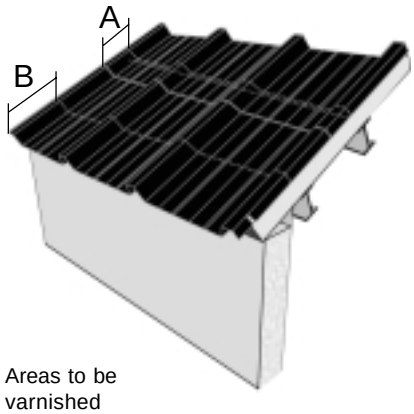
DropStop technical characteristics:

film colour:	white
film thickness:	400 µm
film weight:	80 g/m^2
absorbing capacity:	400 g/m^2 of covered area, or minimum 350 g/m^2 developed area
drying time:	3 hours (at 21^{0}C with a humidity of 50%)
fire rating:	M1 (CSTB report n^o RA97-109)
special treatment:	the non woven film is treated with a fungicidal agent (according to standards EN1104 and NFX41517) to limit the development of fungal growth, which can in turn be responsible for the appearance of stains

Condensation can be a problem on sheets leading to the formation of water droplets that run and drip, not only causing annoyance to the occupants but causing all sorts of damage to equipment and stored materials.

In cases when thermal insulation is not cost effective, installing roof sheets with DropStop is a solution. When the roof panel is cooled by the outside air, the non woven film bonded to the underside absorbs the condensing water vapour. The absorbed water is then eliminated by a process of evaporation during the day caused by a combination of the rising roof temperature and ventilation.





Areas to be varnished

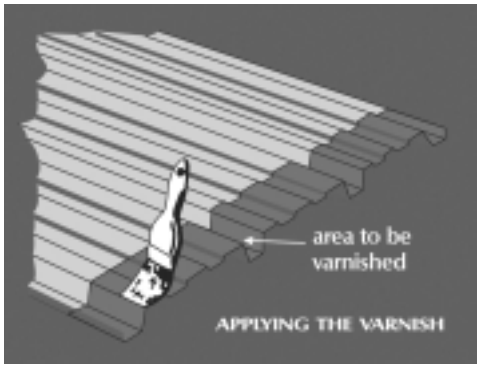
Limiting capillary action:

To prevent damp from rising by capillary effect, a varnish (supplied with your order) must be applied to form a barrier in the non woven film for the following areas:

(A) the bottom of incline and all overlapping parts. The entire width of the overhang must be coated with the varnish up to its fastening point (a width of at least 200 mm);
(B) overhang. The minimum width to be coated is indicated in the table below.

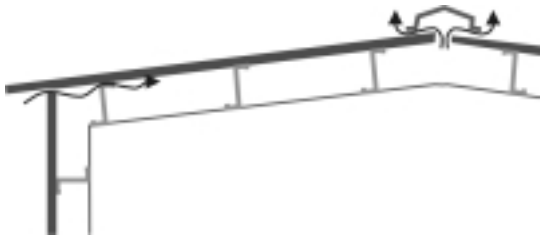
Minimum bottom overlap values (in millimetres)

Slope P (%)	Climatic areas	
	Normal areas	Costal areas and/or areas exposed to strong wind
7 ≤ P<10	300	300
10 ≤ P<15	200	200
P≥10	150	150



Ventilation requirements:
To guarantee the ongoing performance of DropStop, it needs to dry out during the daytime - this is why adequate ventilation of the building is essential. In the case of open buildings, the underside of the sheet is sufficiently ventilated by the outside air, nevertheless the installation of a ventilated ridge cap is essential.

The sheet must be laid flat to allow varnish to be applied over the required full width. The varnish needs to be carefully applied until the non woven film is saturated. The quantity to be deposited is 1kg per 5m^2.



Precautions to be taken during installation:
1. Avoid rubbing the panels together and/or against the roof structure. In the case of a wooden structure, the panels should be insulated with a strip of roofing felt.
2. Where a roof has a gentle slope, we recommend that the area at the overhang is bent inwards to form a drip rail, this is in addition to applying varnish.

Rapairs to damages areas:
Any damaged areas must be repaired. In this case, Borga recommends applying a piece of non woven film neatly to the demand section using a water-resistant adhesive. The company will not be responsible for any repairs carried out without inspection by Borga.

Delivery conditions:
The non woven film does not cover the entire width of the sheet. The bare section corresponds to the overlap side of the sheets and prevents the ingress of water by capillary effect at this points. If sheets are overlapping at end, and at end of roof towards gutter, the film shall be painted with correct paint to stop and prevent capillar effects.

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