



Sandtoft KoraTech® Classic & Classic Super vapour permeable membranes

Technical data	Classic	Classic Super
specification		
Roll size:	1.5 x 50m	1.5 x 50m
Material weight:	142 grams	160 grams
Performance		
Water vapour transmission resistance: at 25°C/75%RH (gm ⁻² day ⁻¹)	1112	1166
Water vapour resistance (MNsg ⁻¹)	0.18	0.18
Tensile strength unaged (N/50mm)		
Longitudinal	247	389
Transverse	197	349
Tensile strength aged (N/50mm) ⁽¹⁾		
Longitudinal	179	-
Trasverse	147	-
Wet strength (N/50mm) ⁽²⁾		
Longitudinal	240	-
Transverse	205	-
Nail tear strength (N)		
Longitudinal	194	389
Transverse	260	395
Wind uplift resistance(KPa)		
Batten spacing 350mm	0.5	1.0
Batten spacing 330mm	0.5	1.0
Batten spacing 300mm	1.0	2.0
Batten spacing 250mm	2.5	2.5

(1) UVA aged for 336 hours at 50°C & heat aged for 90 days at 70 ± 2°C

(2) Wet strength soak at 23°C for 24 hours - tested surface wet

Minimum laps

Roof pitch	Horizontal lap	Vertical lap
15 to 34°	150 mm	100 mm
35° & over	100 mm	100 mm

Features and benefits

- Suitable for use with all Sandtoft tiles and slates.
- Can be used in both warm and cold roof designs on any roof shape and building type.
- Highly vapour permeable, but entirely watertight.
- Helps to avoid condensation risk in the roof space in accordance with BS 5250: 2002 Amendment 1.
- UV and heat resistant, tough and durable.
- Does not generate nuisance noise under wind loading.
- Easy to cut and lightweight to handle.
- Can be used in cold roofs without restriction for wind uplift in all exposure conditions in the UK and Ireland.
- Can be used as a temporary roof covering.



Sandtoft KoraTech® Classic & Classic Super vapour permeable membranes perform all the usual functions of a good quality roof underlay; ie they act as a secondary line of defence against wind driven rain and snow, they reduce the wind loading on the roof tiles and slates and they act as a temporary roof covering during building construction.

KoraTech® Classic & Classic Super also provide many benefits over the traditional bitumen-based underlays; in particular the ability to help avoid condensation in the roof space.

Secondary line of defence

Sandtoft KoraTech® Classic & Classic Super provide additional protection to the internal roof substructure during extreme weather conditions where wind-driven rain or snow may drive through the tiles or slates by safely draining it away to the gutter or other rainwater system.

Wind Loadings

Wind blowing over a pitched roof generates positive and negative pressures which are exerted on both the underlay and the roofing tiles or slates. The wind load on the underlay can be as much as two thirds of the total load, depending upon how 'air open' the tiles or slates are. It is therefore important that the underlay can withstand these wind loads in order to minimise the pressure on the tiles or slates.

Sandtoft KoraTech® Classic & Classic Super are designed to withstand wind load pressures up to 0.5 and 1.0 Kpa respectively when used with a maximum batten spacing of 350mm.

To avoid the risk of the underlay 'flapping' in high wind conditions and transferring wind load to the tiles or slates it is important that KoraTech® Classic & Classic Super are laid with a drape of not more than 10mm.

Temporary roof covering

Speed and sequence of modern building often means that the roof underlay must act as a temporary waterproof covering until the tiles or slates are installed. This is especially true of large roofs, where protection of the insulation and building fabric is important.

Sandtoft KoraTech® Classic & Classic Super will provide temporary protection against rain for up to a month prior to the installation of the tiles or slates. If the exposure period exceeds one month then advice should be sought from Sandtoft Technical Department.

For more information please contact Sandtoft Technical Support on 0844 9395 999.

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