

NB145

PERMAVENT

145
grams

1.0x45m (45m²)
1.5x30m (45m²)
6.6kg

NON-BREATHER MEMBRANE TECHNICAL DATA

- ✓ SUPERIOR NAIL & TENSILE STRENGTH - STREN-TEN TECHNOLOGY
- ✓ ANTI-GLARE TOP SURFACE
- ✓ UV & HEAT RESISTANT
- ✓ ABSORBS WIND LOADING
- ✓ FULLY RECYCLABLE
- ✓ SUITABLE FOR USE WITH ALL TYPES OF SOLAR PANELS

Permavent membranes are suitable for use in all applications as described in BS 5534.

For use on all types of domestic and commercial roofing and walling applications, including:

- ✓ COLD VENTED
- ✓ WARM VENTED
- ✓ TRADITIONAL HYBRID
- ✓ FULLY BOARDED (SARKING) APPLICATION

Weight, g/m ²	145
Water tightness, class	w1
Water vapour transmission (sd), m	>20
Maximum tensile force (MD), N/50mm	197
Maximum tensile force (CD), N/50mm	140
Resistance to tearing MD (nail shank), N	124
Resistance to tearing CD (nail shank), N	150
Reaction to fire, class	E



UK Wind Zones
1-5 taped lap **1-4** battened lap



For installation guides on all our products, please visit our website
PERMAVENT.CO.UK



Permavent non-breather membrane must be installed in accordance with BS5534:2014+A2:2018 Code of Practice. The installer must ensure compliance with the relevant building regulations.

Our membranes are designed as a secondary barrier to wind driven rain / snow and should not be considered a primary waterproofing layer. Whilst they can withstand UV exposure for up to 3 months, it is best practice to install the primary waterproofing finish (e.g. slates, tiles etc) as soon as possible.

Permavent membranes must be installed the correct way up, with the Permavent logo printed side uppermost.

For tile and slate roof applications the membrane should be laid horizontally across the rafters starting at the eaves and securing with either batten or membrane tape at the laps.

The minimum horizontal laps for membranes, in accordance to BS5534:2014+A2:2018 Code of Practice, are:

Rafter Pitch	Not Fully Supported	Fully Supported
12.5° - 15°	225mm	150mm
>15°	150mm	100mm

An eaves carrier tray (EPS) should always be installed to support the underlay at eaves level.

At abutments Permavent membranes should be turned up the abutment by not less than 50 mm under the flashings.

Vent pipes, roof lights and apertures on the roof should be sealed with tape and any nail tears or damage must be repaired.

Cold roof installation

Place an eaves carrier tray over a fascia ensuring that each carrier laps the next one by at least 100mm and sealed together using tape/sealant.

Permavent NB145 should be laid over an eaves carrier tray.

Unroll Permavent NB145 along the line of the eaves with the bottom of the roll covering the eaves carrier tray level to the top of the fascia.

When installed over the rafters the membrane should have a drape to maximum of 15mm to allow sufficient drainage beneath the roof batten.

Clout nail the very top of the membrane and fix the battens at your required spacing.

Lap the next course of the membrane along the printed line, securing all horizontal laps with tape or additional batten and repeat up the roof.

Detail installation:

Valley section: a strip of membrane at least 600mm wide should now be installed up any valley section.

Ridge section: Permavent NB145 membrane should be left short of the both sides of the roof ridge by a minimum of 20mm on each side.

The roof space will need ventilating in accordance with BS5250:2021 i.e. a continuous eaves/low level ventilation 10mm and high level ventilation of a continuous 5mm, which can be achieved with Permavent dry ridge kit.

Warm roof installation

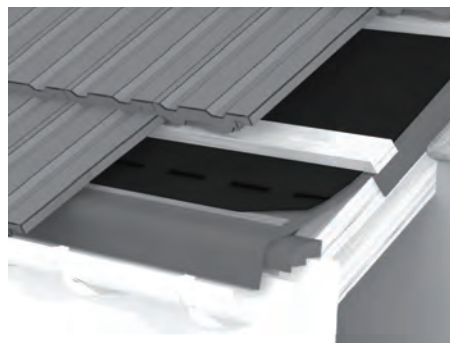
Install an eaves carrier tray and Permavent NB145 as you would on a cold roof application.

Ridge section: Permavent NB145 membrane should be left short of the both sides of the roof ridge by a minimum of 20mm on each side.

For insulation between the rafters, the insulation should be 50mm below the line of the top of the rafter to allow for a ventilation path below the NB145 membrane.

Ventilation in line BS5250:2021 a continuous 25mm low level ventilation and continuous 5mm high level ventilation, which can be achieved with Permavent dry ridge kit.

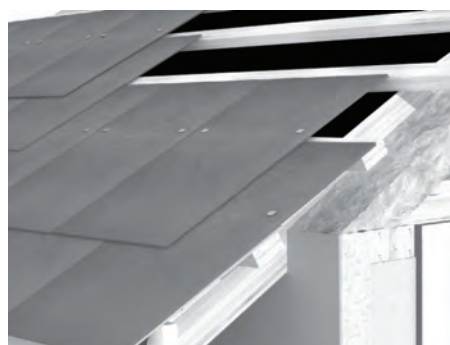
Conventional cold vented roof



Habitable room (hybrid)



Warm deck roof



Specification clause

Permavent NB 145 impermeable (high resistance) roofing underlay supplied by Permavent Ltd, 11 Cumberland Drive, Granby Industrial Estate, Weymouth, Dorset. DT4 9TB. Telephone: 01305 766703. Email: enquiries@permavent.co.uk.

Roofing underlay to be > 145 gsm polypropylene nonwoven with high head of water resistance more than >3.0m Grey in colour to prevent glare with nonwoven spunbond underside to prevent condensate run off. Resistance to wind loading to exceed 1450 kPa wind uplift pressure (zones 1 to 4) to prevent wind noise in unsupported applications and exceed requirements of BS5534 wind loading calculations for roofing underlays. Underlay can be used in either unsupported or support applications and in accordance with BS5534 – code of practice for slating and tiling and the manufacturers fitting instructions.