



BREATHABLE MEMBRANE FOR ROOFS & WALLS

EXCELLENT
TENSILE & TEAR
STRENGTH

LIGHT WEIGHT
&
WATERPROOF

HELPS TO
ELIMINATE
HUMIDITY

3 LAYER
THERMAL
LAMINATION

CUTTING GRID
FOR EASY
INSTALLATION

HIGH PERFORMANCE

- **Fully BBA approved** for use in; timber frame construction, warm & cold roofing construction
- Excellent layer for **keeping out the rain and snow**
- Wind proof layer to **reduce air leakage**
- Allows water vapour to pass to **avoid condensation and mould**
- Allows insulation materials to maintain their **optimum thermal efficiency**
- **Durable**, with walls life span equal to that of the building or in roofs it is comparable to traditional roof tile underlays
- **100% recyclable**

Our breathable membrane is available in:

Product	Weight	Length	Width
WRAPTOR 100	100gsm	50m	1m
WRAPTOR 120	120gsm	50m	1m
WRAPTOR 140	140gsm	50m	1m
WRAPTOR 120	120gsm	50m	1.5m
WRAPTOR 140	140gsm	50m	1.5m

BS5534 Compliant in all wind zones



WRAPTOR 100



MAINTENANCE

Damage to the products can be repaired prior to the installation of slates or tiles by patching and sealing the damaged areas. Care must be taken to ensure that the water tightness of the roof is maintained.

When using on walls, ensure any damage is properly repaired before enclosure.

WRAPTOR Membrane helps buildings breath & reduces damp

GET IN TOUCH:
0116 288 7719 | sales@seac.co.uk

2-4 Chartwell Drive, Wigston, Leicester, LE18 2FL
www.seac.co.uk/products/product/wraptor/



WRAPTOR INTRODUCTION

Breathable membrane is a water resistant material used in roofing construction and timber frame construction (external walls) where the area may not be water-tight.

WRAPTOR breathable membrane is made with 3 layers of thermal lamination to provide a high level of water resistance, whilst ensuring vapour permeability to avoid mould and condensation.

WRAPTOR breathable membrane is fully BBA approved for use in warm non-ventilated and cold ventilated and non-ventilated roofing construction, along with timber frame construction; it can also be used as a short-term solution as a waterproof barrier during construction around the whole house, providing UV resistance for up to 3 months.

The membrane can be used as a roofing underlay and within timber frame walls with a cavity and masonry outer leaf, weatherboarding or tile/slate cladding. It has a good tensile strength and tear resistance and is incredibly durable.

WRAPTOR breathable membrane is available in 100gsm, 120gsm and 140gsm. The 100gsm membrane is available in a 1m roll and the 120gsm and 140gsm range is available in two lengths, 1m and 1.5m.

KEY FACTORS ASSESSED

Weather-tightness - as part of a complete roof, WRAPTOR breathable membranes will resist the passage of water and windblown snow and dust into the interior of the building

Risk of condensation - WRAPTOR breathable membranes are low water vapour resistance (Type LR) underlays and can be used as part of cold non-ventilated pitched roof system

Wind loading - when installed on appropriately spaced battens, WRAPTOR breathable membranes physical properties are adequate to resist the wind loads imposed on the underlay. WRAPTOR breathable membranes will reduce the wind uplift forces acting on the roof covering

Strength - WRAPTOR breathable membranes have adequate strength to resist the loads associated with installation of the roof

Durability - under the normal conditions found in roof space, WRAPTOR breathable membranes will have a service life comparable to traditional roof tile underlays



WRAPTOR 120



WRAPTOR 140

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WRAPTOR BREATHABLE MEMBRANE INSTALLATION GUIDE

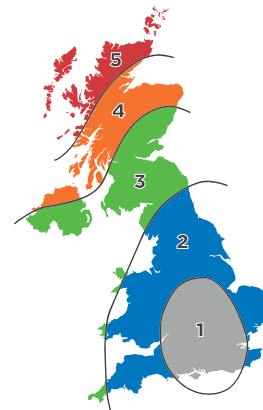
WRAPTOR breathable for use in warm non-ventilated and cold ventilated and non-ventilated roofs must be installed in accordance with the relevant recommendations of BS 5534:2014, BS8000-0:2014 and BS8000-6:2013.

WRAPTOR breathable membrane for use in timber frame construction must be installed in accordance with the recommendations given in *NHBC Standards*, Chapter 6.2, where appropriate.

The breathable membrane can be used as follows:

Underlay Type	Wind Uplift Pressure		
	250mm Batten Gauge (batten restrained lap)	345mm Batten Gauge (taped lap)	250mm Batten Gauge (taped lap)
WRAPTOR 100	Zones 1 to 2	Zones 1 to 2	Zones 1 to 5
WRAPTOR 120	Zones 1 to 3	Zones 1 to 3	Zones 1 to 5
WRAPTOR 140	Zones 1 to 3	Zones 1 to 4	Zones 1 to 5

Summary of official 'bre' test results



BS5534 Compliant in
all wind zones

INSTALLATION FOR ROOFS

These products are designed to be installed by competent installers experienced in using breathable membrane products.

The breathable membrane should be installed with the coloured side facing up and lapped to shed water out and down. Overlaps must be provided with the minimum dimensions given in the table below.

Roof Pitch	Horizontal Laps (mm) Untaped and Taped		
	Not Fully Supported	Fully Supported	Vertical Laps (mm)
12.5 - 14	225	150	100
15 +	150	100	100

INSTALLATION FOR WALLS

WRAPTOR breathable membrane should be installed with the coloured side facing outward. The products must be secured at regular intervals not exceeding 500mm to prevent being damaged by the wind.

The top layers should overlap lower layers to shed water away from the sheathing. Vertical laps should be staggered wherever possible and should be at least 150mm; horizontal laps should be at least 100mm.

It is essential that the lowest timbers in the wall are protected by the breathable membrane.

MAINTENANCE

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STORAGE

The rolls should be stored flat or on end on a clean, level surface under cover and protected from sunlight.

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BREATHABLE MEMBRANE FOR ROOFS & WALLS

BBA APPROVED

For use in:

Cold non-ventilated roofs
Cold ventilated roofs
Warm non-ventilated roofs
Timber frame constructions



Certification includes:

- factors relating to compliance with building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review

TECHNICAL SPECIFICATION

Characteristic (unit)	WRAPTOR		
	100gsm	120gsm	140gsm
Thickness (mm)	0.35	0.43	0.48
Mass per unit area	100	120	140
Roll length (m)	50	50	50
Roll width (m)	1.5	1.5	1.5
Colour upper	Grey	Brown	Blue
Colour lower	White	White	White
Tensile strength (N per 50mm)			
longitudinal	150	180	200
transverse	100	120	150
Elongation (%)			
longitudinal	≥50	≥50	≥50
transverse	≥50	≥50	≥50
Tear resistance (N)			
longitudinal	70	95	105
transverse	80	115	120
Resistance to air penetration ($\text{m}^3 \cdot \text{m}^{-2} \cdot \text{h}^{-1} \cdot (50\text{Pa})^{-1}$)	0.093	-	-
Water-tightness (resistance to water penetration)			
unaged	W1	W1	W1
aged ⁽²⁾	W1	W1	W1
Equivalent air layer thickness (Sd)(m)	0.02	0.05	0.02
Reaction to fire	Class F	Class F	Class F
Density of moisture flow rate	≥2250g/m ² /24h	≥2250g/m ² /24h	≥2250g/m ² /24h
Water vapour transmission (Sd)	0.03m(±0.015m)	0.03m(±0.015m)	0.03m(±0.015m)

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