DIFOBAR PLUS 1200 POLYESTER

WATERPROOFING UNDER-TILE SHEETS
FOR VENTILATED TIMBER-FRAMED ROOFS AND FOR VAPOUR CONTROL

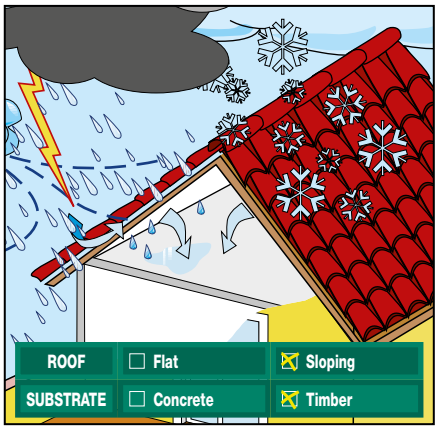
DIFOBAR PLUS SELFLAPS 800 POLYESTER
DIFOBAR PLUS 700 - 500 - 400 POLYESTER

WATERPROOFING UNDER-TILE SHEETS
FOR VENTILATED TIMBER-FRAMED ROOFS

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONMENTAL IMPACT							PROCEDURE FOR USE
EP S		Reazione al fuoco		ASBESTOS FREE	TAR FREE	CHLORINE FREE				
SPECIAL ELASTOPLASTOMERS FOR SPECIFIC USES	IMPERMEABLE	REACTION TO FIRE	ECO GREEN	DOES NOT CONTAIN ASBESTOS	DOES NOT CONTAIN TAR	DOES NOT CONTAIN CHLORINE COMPOUNDS	RECYCLABLE	NON HAZARDOUS WASTE	DOES NOT CONTAIN USED OILS	APPLICATION WITH NAILS

1 PROBLEM



HOW TO BUILD RESISTANCE TO WATER, SNOW, DUST AND WIND INTO A VENTILATED TIMBER-FRAMED ROOF COVERED WITH FLAT OR CURVED TILES

In critical situations, the roof covering in flat or curved tiles of pitched timber-framed roofs is not, on its own, able to guarantee protection from water, snow and dust, and in some cases the wind can lift the tiles.

2 SOLUTION

DIFOBAR PLUS 1200 POLYESTER is a polymer bitumen sheet for installation under roof tiles, supplied in a heavier weight than normal synthetic sheets of this type. The heavier weight makes it possible to achieve a product which is more durable and resistant to degradation by ultraviolet rays even if the sheets are exposed to direct sunlight for prolonged periods.
Breathable sheets:
- **DIFOBAR PLUS SELFLAPS 800 POLYESTER,**
- **DIFOBAR PLUS 700 POLYESTER,**
- **DIFOBAR PLUS 500 POLYESTER,**
- **DIFOBAR PLUS 400 POLYESTER**

are breathable bitumen polymer under-tile sheets whose distinguishing characteristic is the thickness of the white polyester non-woven fabric reinforcement, which remains exposed on the underside and improves the breathability of the system.
The excellent absorbancy of the non-woven fabric has a buffer effect that traps any excess moisture that has condensed under the membrane and disposes of it by gravity on the outside of the overlaps, and hence in the gutter.
This means that there is no dripping onto the layers underneath, and the timber stays dry, preventing rot. The sheets have high tensile strength and nail tear strength, and they can all be laid with or without boarding on rafters at 90 cm spacing.
DIFOBAR PLUS SELFLAPS 800 maintains the absorbent properties that distinguish **DIFOBAR** breather membranes because the thickness of the reinforcement in composite polyester stabilised with glass fibre that remains visible on the lower face keeps dry the wood surfaces on which it is laid, and it also has two opposing self-adhesive edges, one on the upper face and the other on the lower, protected by a strip of siliconate film that allows the sheet overlaps to be bonded by simply pressure without using any special tools.
All the under-tile sheets are equipped with high-strength polyester reinforcement.
DIFOBAR PLUS 1200 sheets are faced on the upper surface with green Texflamina polypropylene non-woven fabric which makes the surface less slippery and more resistant to the abrasion caused by persons walking on it while the roofing is being installed.
DIFOBAR PLUS SELFLAPS 800 with bonded overlaps resists wind better, and laying can continue without interruption even in poor weather conditions.
With **DIFOBAR PLUS SELFLAPS 800** the overlaps still breathe because the two adhesive strips are bonded on the surface at the non-woven fabrics that cover the faces and seal the overlaps against water and wind but are permeable to water vapour.

CE INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDLINES

EN 13970 - BITUMINOUS LAYERS FOR VAPOUR CONTROL
- DIFOBAR PLUS 1200 POLYESTER

EN 13859-1 - UNDERLAY FOR DISCONTINOUS ROOFING
- **Under-tile**
- DIFOBAR PLUS 1200 POLYESTER
- DIFOBAR PLUS SELFLAPS 800 POLYESTER
- DIFOBAR PLUS 700 POLYESTER
- DIFOBAR PLUS 500 POLYESTER
- DIFOBAR PLUS 400 POLYESTER

APPLICATION FIELDS

Sheets of **DIFOBAR PLUS** can be used on ventilated timber-framed roofs, above the timber boarding of the primary ventilation air-space.
They can be used stretched over the framing between the timbers, without supporting boarding.

TECHNICAL SPECIFICATIONS

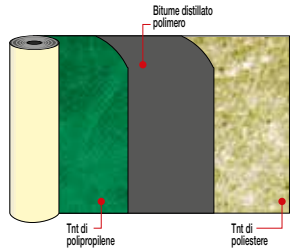
	Regulations	T	DIFOBAR PLUS 1200 POLYESTER	DIFOBAR PLUS SELFLAPS 800 POL.	DIFOBAR PLUS 700 POLYESTER	DIFOBAR PLUS 500 POLYESTER	DIFOBAR PLUS 400 POLYESTER
Reinforcement			Polyester	Polyester	Polyester	Polyester	Polyester
Mass per unit area	EN 1849-1	±10%	1 200 g/m²	800 g/m²	700 g/m²	500 g/m²	400 g/m²
Roll dimensions	EN 1848-1	≥	1×30 m	1×30 m	1×30 m	1×30 m	1×30 m
Maximum lateral/end tensile force	EN 12311-1	-20%	400/350 N/50 mm	400/350 N/50 mm	400/350 N/50 mm	400/350 N/50 mm	400/350 N/50 mm
Lateral/end tensile elongation	EN 12311-1	-15% V.A.	35/35%	35/35%	35/35%	35/35%	35/35%
Lateral/end nail tear strength	EN 12310-1	-30%	150/150 N	150/150 N	150/150 N	150/150 N	150/150 N
Cold flexibility	EN 1109	≤	–20°C	–20°C	–20°C	–20°C	–20°C
Permeability to water vapour • after ageing	EN 1931 EN 1296-1931	-20% -20%	μ = 100 000 NPD	μ = 34 000 NPD	μ = 34 000 NPD	μ = 34 000 NPD	μ = 34 000 NPD
Water penetration • after ageing	EN 1928 EN 1296-1928		W1 –	W1 –	W1 –	W1 –	W1 –
Reaction-to-fire Euroclass	EN 13501-1		E	E	E	E	E
Water vapour diffusion equivalent air layer thickness	EN 1931		Sd = 100 m	Sd = 35 m	Sd = 34 m	Sd = 28 m	Sd = 27 m
Density of water vapour flow	EN 1931		3.75·10⁻⁹ kg/m² sec	1.15·10⁻⁸ kg/m² sec	1.21·10⁻⁸ kg/m² sec	1.51·10⁻⁸ kg/m² sec	1.51·10⁻⁸ kg/m² sec
Thermal characteristics							
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK
Thermal capacity			1.50 KJ/K	1.04 KJ/K	0.91 KJ/K	0.65 KJ/K	0.52 KJ/K

METHOD OF USE

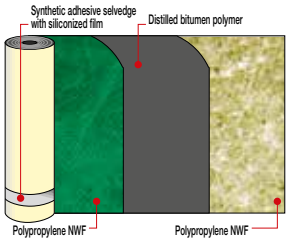
The under-tile membrane should be laid dry on the surface of the boarding with the sheets arranged "tile fashion" parallel to the eaves line, maintaining continuity and taking care to overlap the individual sheets by 10 cm longitudinally and end-to-end. The sheets must be fixed with nails or staples under the lateral and end overlaps to avoid the possibility of slippage during the work on the roof covering. It is important to seal each lateral and end overlap with SIGILTAPE tape in order to ensure a perfect air seal. Any perforations due to elements passing through the sheet must be adequately sealed with SIGILTAPE tape or suitable gaskets.

COMPOSITION OF THE MEMBRANE

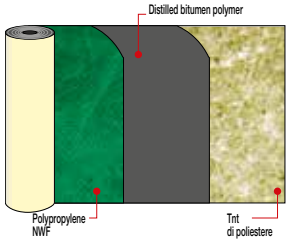
DIFOBAR PLUS 1200 POL.



DIFOBAR PLUS SELFLAPS 800 POL.



DIFOBAR PLUS 700 - 500 - 400 POL.



PRODUCT FINISHING

POLYPROPYLENE NWF.

POLYESTER NWF.

• FOR THE CORRECT USE OF OUR PRODUCTS, CONSULT INDEX TECHNICAL SPECIFICATIONS • FOR FURTHER INFORMATION OR SPECIAL USES, CONSULT OUR TECHNICAL OFFICE •

index Construction Systems and Products
Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67
Tel. (+39)045.8546201 - Fax (+39)045.518390

Internet: www.indexspa.it
Technical & Sales Information
tecom@indexspa.it
Management and Administration
index@indexspa.it
Index Export Dept.
index.export@indexspa.it

11/2017 rng&2017