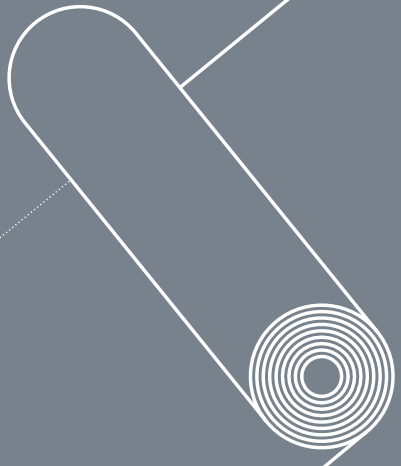


nebula®

ROOF UNDERLAYS

NEBULA

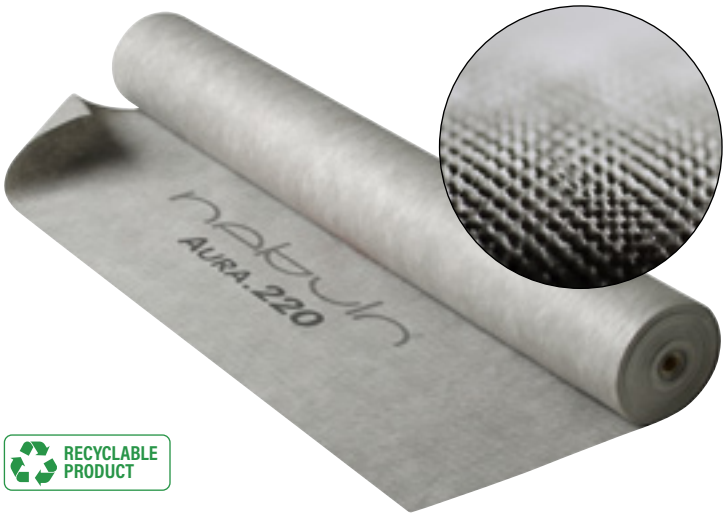
BREATHABLE UNDERLAY

AURA is a **three-ply underlay in polypropylene bonded by means of an ultrasound-based process**, without the use of additives or solvents in total respect for the environment

Applied to wooden roofs on top of the insulation, **this underlay allows excess moisture to rapidly escape while maintaining** the thermal performance of the insulation intact.

Completely Made in Italy. Produced with ultrasound technology. Possesses high mechanical performance, non-slip properties and is fully recyclable.

- Available in 150, 180 and 220 g/m² versions.



MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**NEBA150**	Breathable underlay AURA.150	1.50x50	11.30	30	340	2.250	
	**NEBA150T**	Breathable underlay **with adhesive band** AURA.150T	1.5x50	11.30	30	340	2.250	
	**NEBA180**	Breathable underlay AURA.180	1.5x50	14	25	360	1.875	
	**NEBA220**	Breathable underlay AURA.220 **Ideal for laying on concrete**	1.5x50	17	20	340	1.500	
	**NEBA220T**	Breathable underlay with adhesive band AURA.220 **Ideal for laying on concrete**	1.5x50	17	20	340	1.500	

BREATHABLE UNDERLAYS

AURA

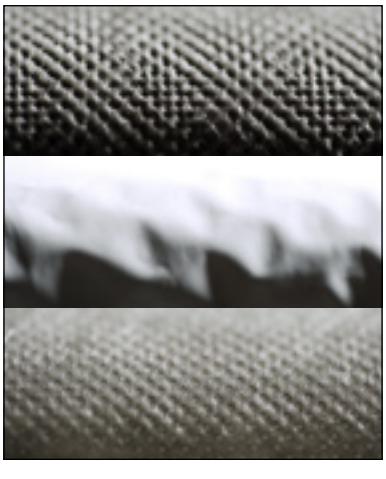
nebula® ROOF UNDERLAYS

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASURE-MENT	Aura.150/150T	Aura.180	Aura.220/220T
Weight	EN 13859-1 - UNI 11470	g/m² - class	150 - B	180 - B	220 - A
Thickness	EN 1849-2	mm	0.7±15%	0.8±15%	0.95±15%
Longitudinal tear strength	EN 13859-1 - UNI 11470	N - class	160 - R2	180 - R2	240 - R3
Transverse tear strength	EN 13859-1 - UNI 11470	N - class	180 - R2	190 - R2	240 - R3
Longitudinal tensile strength	EN 13859-1 - UNI 11470	N/5 cm - class	300 - R2	300 - R2	370 - R3
Transverse tensile strength	EN 13859-1 - UNI 11470	N/5 cm - class	210 - R2	270 - R2	340 - R3
Longitudinal elongation	EN 13859-1	%	65-85	50-70	45-65
Transverse elongation	EN 13859-1	%	80-100	50-70	60-80
UV resistance	-	months	4	4	4
Resistance to the passage of water	EN 13859-1	class	W1	W1	W1
Vapour transfer properties WDD	EN 13859-1	g/m²x24h	2000	1800	1820
Vapour transfer properties Sd	EN 13859-1	m	0.02	0.03	0.03
Highly breathable membrane	UNI 11470				
Fire resistance	EN 13859-1	class	E	E	E
Flexibility at low temperatures	EN 13859-1	°C	-40	-40	-40
Weight of roll	-	kg	11.3	14	17
Roll dimensions	-	m	1.50x50	1.50x50	1.50x50
Rolls per pallet	-	pcs	30	25	20
Meters per pallet	-	m²	2.250	1.875	1.500
Weight of pallet	-	kg	340	350	340
Vapour permeability	-	μ	28	37	31
Thermal conductivity	-	W/mK	0.22	0.22	0.22

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

COMPOSITION

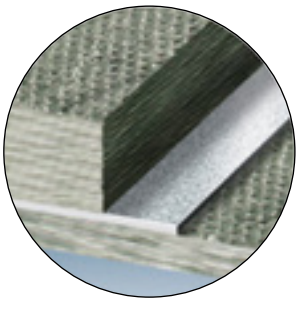


TOP PLY:
Heavy non-woven polypropylene fabric
with anti-UV and grip treatment. Abrasion and tread resistant. Absorbs mechanical stress (tensile, shearing stress).

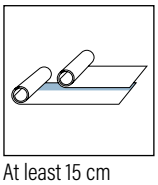
REINFORCEMENT:
Waterproof, highly breathable microporous polypropylene film with anti-UV treatment.

BOTTOM PLY:
Light non-woven polypropylene fabric
with anti-UV and grip treatment. Withstands abrasion of wooden support. Contributes towards the mechanical strength of the entire product.

ULTRASONIC LAMINATION:
The three layers are spot welded together to ensure greater mechanical strength and enhanced breathability.

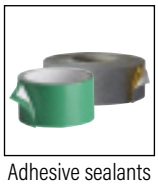


OVERLAP WHEN LAYING



At least 15 cm

RELATED PRODUCTS

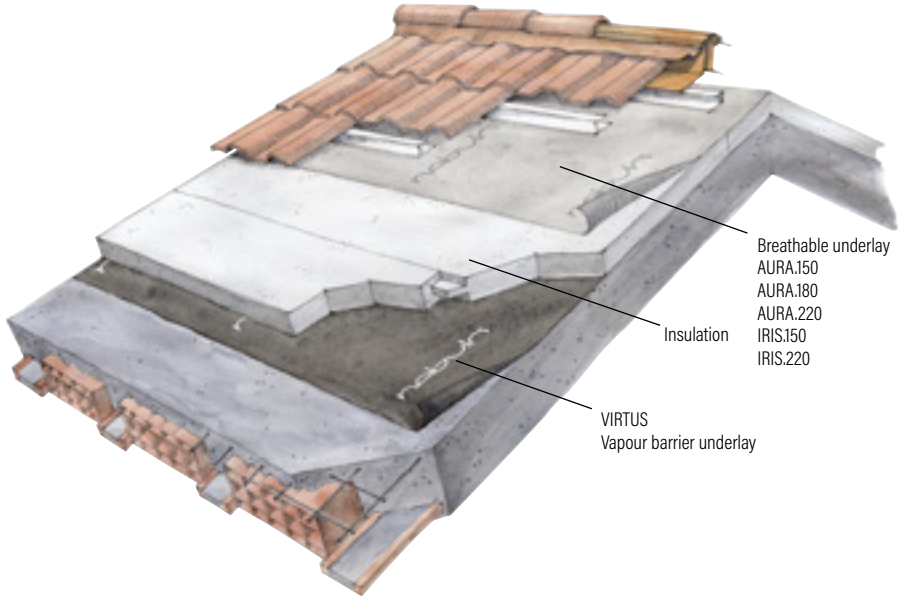


Adhesive sealants

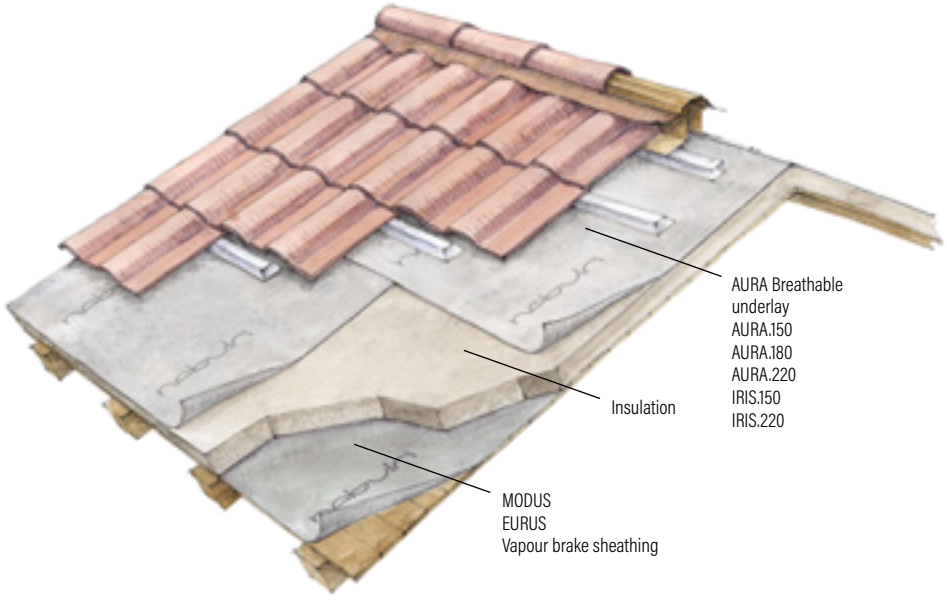
v 4.1.0.1 - November 2024

LAYER STRUCTURES

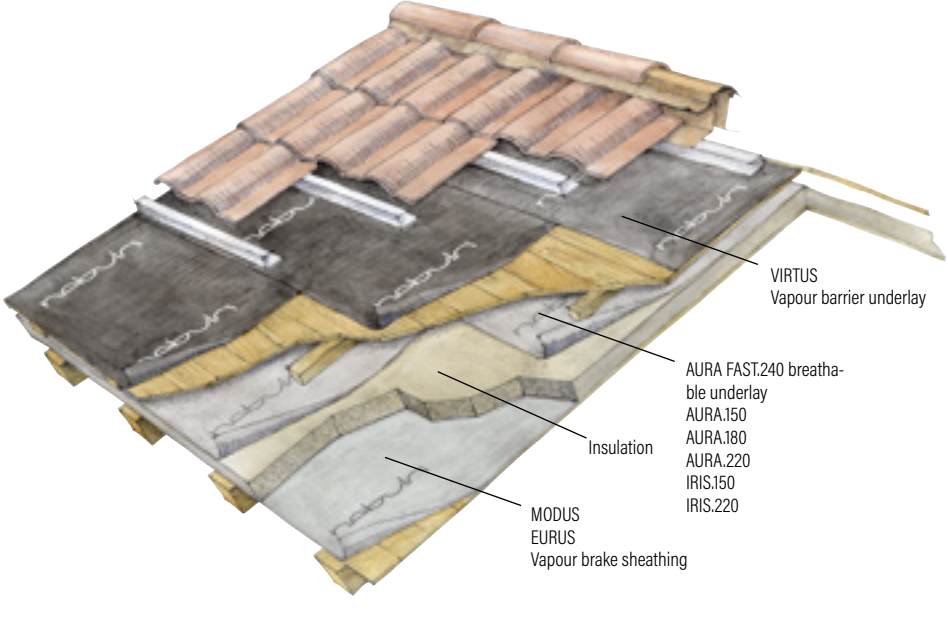
HOLLOW-CORE CONCRETE ROOF WITH SINGLE UNDER-TILE VENTILATION CHAMBER



WOODEN ROOF WITH SINGLE UNDER-TILE VENTILATION CHAMBER



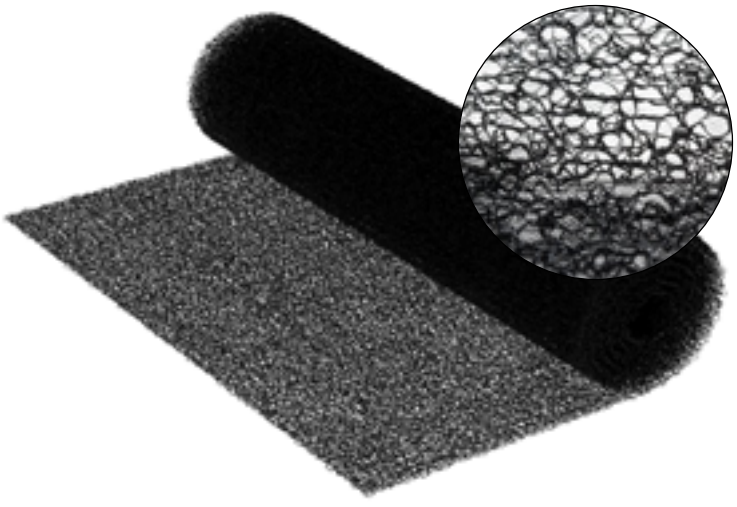
WOODEN ROOF WITH DOUBLE UNDER-TILE VENTILATION CHAMBER



THREE-DIMENSIONAL NETTING FOR METAL ROOFS

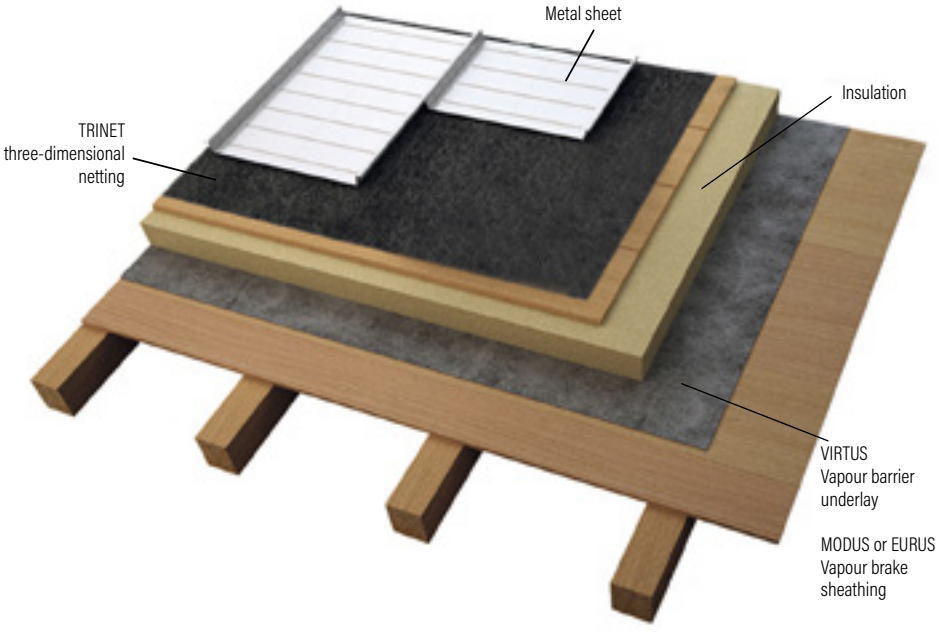
This underlay consists of a three-dimensional structure formed by **extruded monofilaments** of isometric pyramidal morphology.
TRINET is the ideal product **for ventilating and draining off the condensation** from under metal roofs.

· **Mass per unit area of the geocomposite**: 350 g/m².
Thickness: 8 mm.



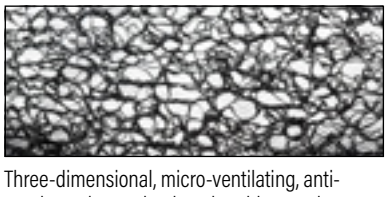
MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**NEBT350**	Three-dimensional netting TRINET.350	1.25x28	12.25	9	120	315	

LAYER STRUCTURES



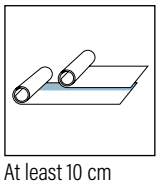
METAL ROOF

COMPOSITION



Three-dimensional, micro-ventilating, anti-condensation and noise-absorbing netting.

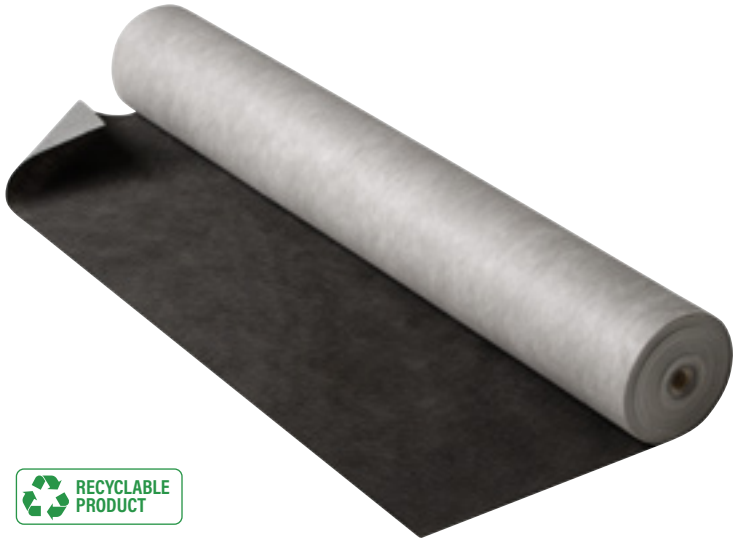
OVERLAP WHEN LAYING



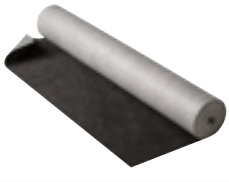
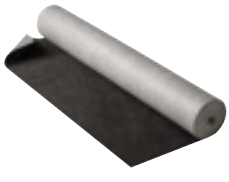
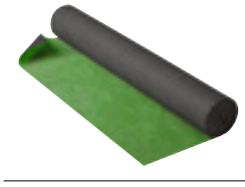
At least 10 cm

BREATHABLE UNDERLAY

IRIS 150 is a **triple-layer breathable underlay for roofing** bonded by means of a **technological thermobonding process**, highly **vapour permeable** and formed by a protective functional film on both sides of non-woven polypropylene fabric. It is **waterproof** and regulates the flow of water vapour through the roof components.



RECYCLABLE PRODUCT

MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**IRIS150**	Breathable underlay IRIS150	1.5x50	11	24	264	1,800	
	**IRIS150T**	Breathable underlay with adhesive band IRIS150T	1.5x50	11	24	264	1,800	
	**IRIS205**	Breathable underlay IRIS205	1.5x50	15	20	300	1,500	

BREATHABLE UNDERLAYS

IRIS 150

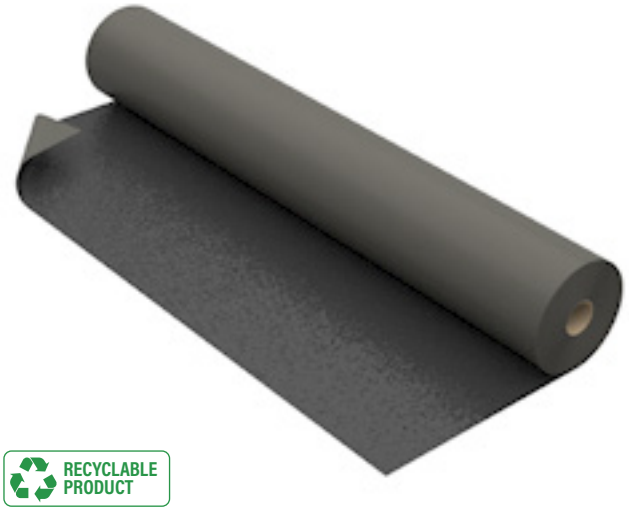
SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	IRIS.150/IRIS.150T	IRIS.205
Material	-	-	Polypropylene	Polypropylene
Number of ply	-	-	3	3
Mass	EN 1849-2:2010	g/m^2	150 (±10%)	205 (±10%)
Thickness	EN 1849-2:2010	mm	0.5	0.7
Fire resistance	EN ISO11925-2/ AC:2011	Class	E	E
Resistance to water penetration	EN 1928: 2002	Class	W1	W1
Resistance to water penetration artificial ageing method	-	-	-	W1
Vapour transfer properties Sd	EN ISO 12572: 2004 certification EN 1931: 2002	m	0.02 (-0.01/+0.03)	0.07 (-0.03/+0.03)
Longitudinal tensile strength	EN 12311-2:2013	N/50 mm	340 (±30%)	500 (±30%)
Transverse tensile strength	EN 12311-2:2013	N/50 mm	205 (±30%)	270 (±30%)
Longitudinal elongation	EN 12311-2:2013	%	60 (±30%)	60 (±30%)
Transverse elongation	EN 12311-2:2013	%	90 (±30%)	90 (±30%)
Longitudinal tear strength	EN 12310-1:2010	N	160 (±20%)	210 (±20%)
Transverse tear strength	EN 12310-1:2010	N	225 (±20%)	300 (±20%)
Dimensional stability	EN 1107-2:2002	%	<2	<2
Longitudinal tensile strength artificial ageing method	EN 12311-2:2013	N/50 mm	205 (±20%)	50% of initial value
Transverse tensile strength artificial ageing method	EN 12311-2:2013	N/50 mm	125 (±20%)	50% of initial value
Longitudinal elongation artificial ageing method	EN 12311-2:2013	%	60 (±20%)	50% of initial value
Transverse elongation artificial ageing method	EN 12311-2:2013	%	90 (±20%)	50% of initial value
Flexibility at low temperatures	EN 495-5:2013	°C	-40	-40
Temperature resistance	-	°C	-40/+80	-40/+80
Vapour permeability	-	μ	40	100

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

BREATHABLE UNDERLAY

IRIS WIND is a **highly vapour permeable two-ply roofing membrane** featuring **increased UV resistance** and intended as a first waterproofing layer under the external roof covering.
Thanks to its thermoplastic polyurethane layer, **the membrane** is completely waterproof, **protects the external thermal insulation from rain** and is also an **excellent windbreak**.
IRIS WIND is also ideal for **protecting the walls** of frame structure and wooden constructions, residential buildings and industrial sheds.
The product **can be used on all ventilated and non-ventilated roofs.**
Excellent mechanical strength.



RECYCLABLE PRODUCT

MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**IRIS180F**	IRIS WIND 180 breathable windbreak underlay	1.5x50	15	20	300	1,500	

BREATHABLE UNDERLAYS

IRIS WIND

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	IRIS.WIND.180
Material	-	-	Polypropylene
Number of ply	-	-	2
Mass	EN 1849-2:2010	g/m^2	180 (±10%)
Thickness	-	mm	0.7
Fire resistance	EN 13859-1:2010 EN 13859-2:2010	Class	Now being tested
Resistance to water penetration	EN 13859-1:2010 EN 13859-2:2010	Class	W1
Resistance to water penetration artificial ageing method	EN 13859-1:2010 EN 13859-2:2010	Class	W1
Vapour transfer properties Sd	EN 1931: 2002	m	0.15 (-0.03/+0.03)
Longitudinal tensile strength	EN 13859-1:2010 EN 13859-2:2010	N/50 mm	370 (±30%)
Transverse tensile strength	EN 13859-1:2010 EN 13859-2:2010	N/50 mm	400 (±30%)
Longitudinal elongation	EN 13859-1:2010 EN 13859-2:2010	%	60 (±30%)
Transverse elongation	EN 13859-1:2010 EN 13859-2:2010	%	80 (±30%)
Longitudinal tear strength	EN 13859-1:2010 EN 13859-2:2010	N	250 (±20%)
Transverse tear strength	EN 13859-1:2010 EN 13859-2:2010	N	250 (±20%)
Dimensional stability	-	%	<2
Longitudinal tensile strength artificial ageing method	EN 13859-1:2010 EN 13859-2:2010	N/50 mm	330
Transverse tensile strength artificial ageing method	EN 13859-1:2010 EN 13859-2:2010	N/50 mm	360
Longitudinal elongation artificial ageing method	EN 13859-1:2010 EN 13859-2:2010	%	60
Transverse elongation artificial ageing method	EN 13859-1:2010 EN 13859-2:2010	%	80
Temperature resistance	-	°C	-30/+80
Vapour permeability	-	μ	215

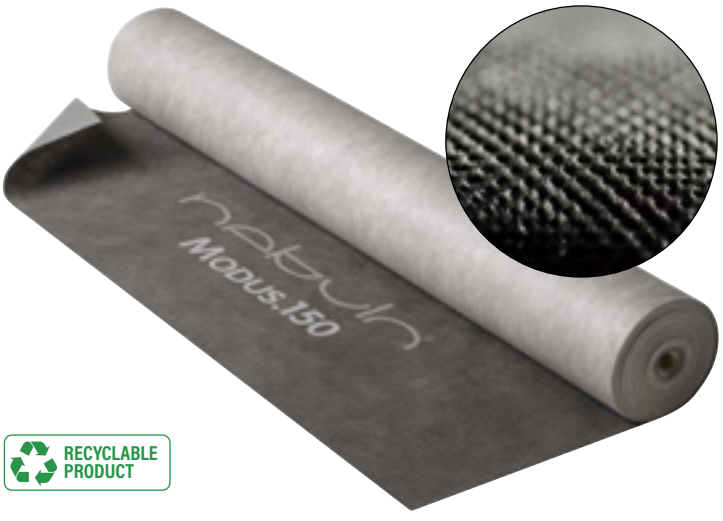
Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

VAPOUR BRAKE SHEATHING

MODUS is a **three-ply sheathing in polypropylene bonded by means of an ultrasound-based process**, without the use of additives or solvents in total respect for the environment.

It should be laid **underneath the insulation** where it **regulates the passage of vapour**.

Completely Made in Italy. Produced with the use of ultrasound technology. Possesses high mechanical performance, non-slip properties and is fully recyclable.



RECYCLABLE PRODUCT

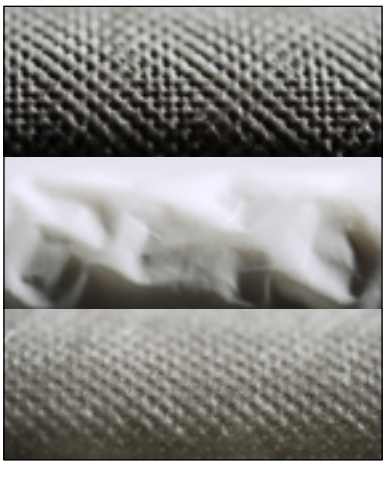
MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**NEBM150**	Vapour brake sheathing MODUS.150	1.5x50	11	30	330	2,250	
	**NEBM150T**	MODUS.150T vapour brake sheathing with **adhesive band**	1.5x50	11	30	330	2,250	

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	Modus.150/150T
Weight	EN 13859-1 - UNI 11470	g/m² - class	150 - B
Thickness	EN 1849-2	mm	0.65
Longitudinal tear strength	EN 13859-1 - UNI 11470	N - class	160 - R2
Transverse tear strength	EN 13859-1 - UNI 11470	N - class	200 - R2
Longitudinal tensile strength	EN 13859-1 - UNI 11470	N/5 cm - class	340 - R2
Transverse tensile strength	EN 13859-1 - UNI 11470	N/5 cm - class	230 - R2
Longitudinal elongation	EN 13859-1	%	75-95
Transverse elongation	EN 13859-1	%	85-105
UV resistance	-	months	6
Resistance to the passage of water	EN 13859-1	class	W1
Watertightness	EN 20811	m	5 (mean value) - minimum value: 3
Vapour transfer properties WDD	EN 13859-1	g/m²x24h	7.7
Vapour transfer properties Sd	EN 13859-1	m	5.5
Vapour control membrane	UNI 11470		
Fire resistance	EN 13859-1	class	E
Flexibility at low temperatures	EN 13859-1	°C	-40
Weight of roll	-	kg	11
Roll dimensions	-	m	1.50x50
Rolls per pallet	-	pcs	30
Meters per pallet	-	m²	2.250
Weight of pallet	-	kg	330
Vapour permeability	-	μ	8461
Thermal conductivity	-	W/mK	0.22

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

COMPOSITION

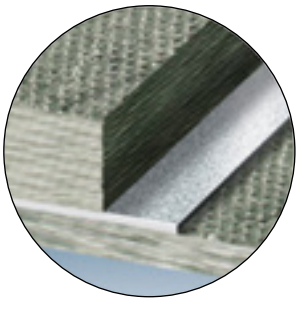


TOP LAYER:
Heavy non-woven polypropylene fabric
with anti-UV and grip treatment. Abrasion and tread resistant. Absorbs mechanical stress (tensile, shearing stress).

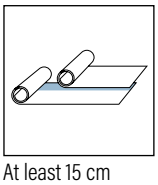
REINFORCEMENT:
Waterproof polypropylene film that prevents water vapour from spreading, with anti-UV treatment.

BOTTOM LAYER:
Light non-woven polypropylene fabric
with anti-UV and grip treatment. Withstands abrasion of wooden support. Contributes towards the mechanical strength of the entire product.

ULTRASONIC LAMINATION:
The three ply are spot welded together to ensure greater mechanical strength and enhanced breathability.

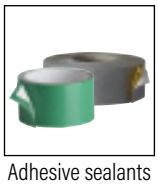


OVERLAP WHEN LAYING



At least 15 cm

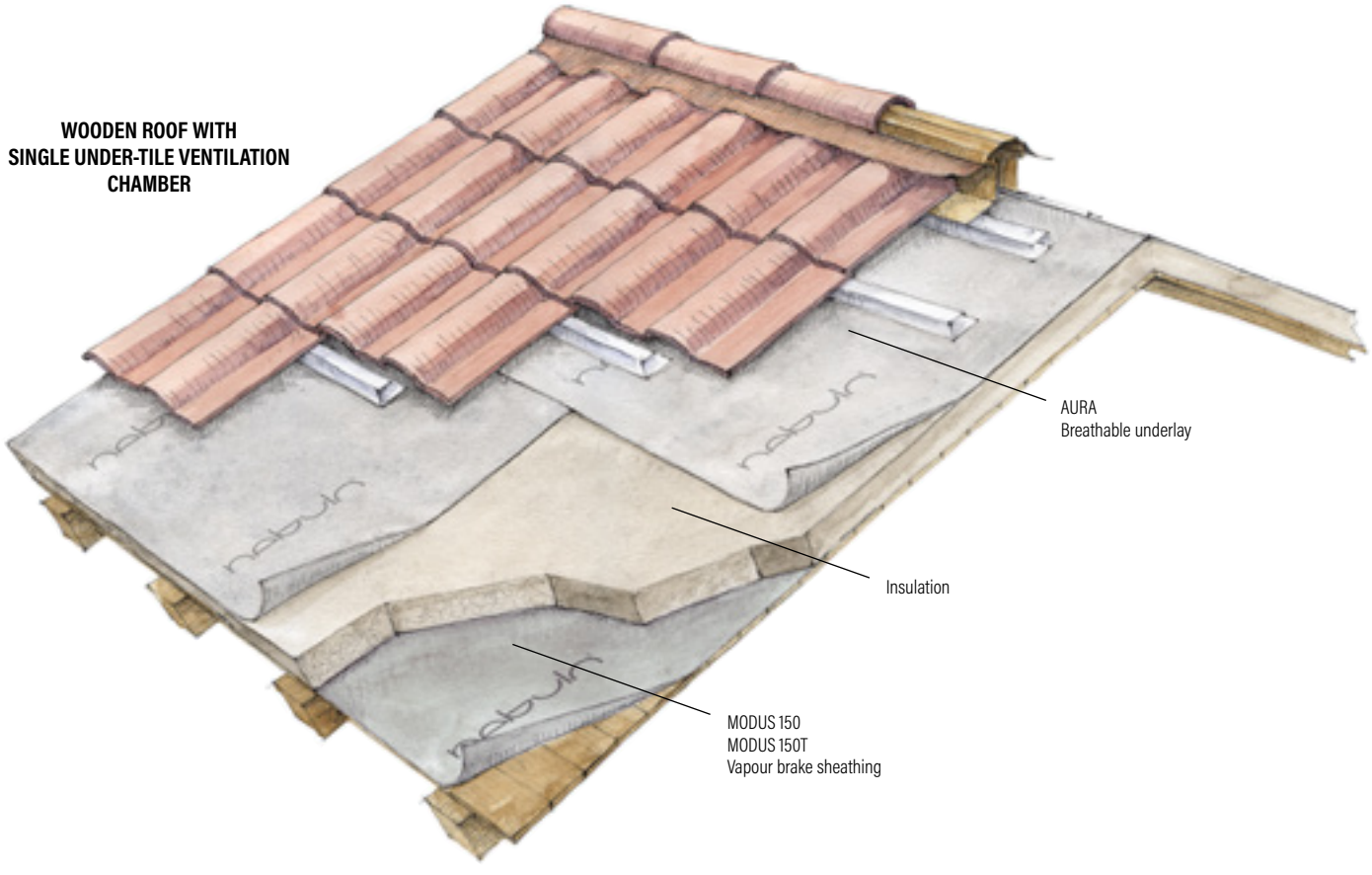
RELATED PRODUCTS



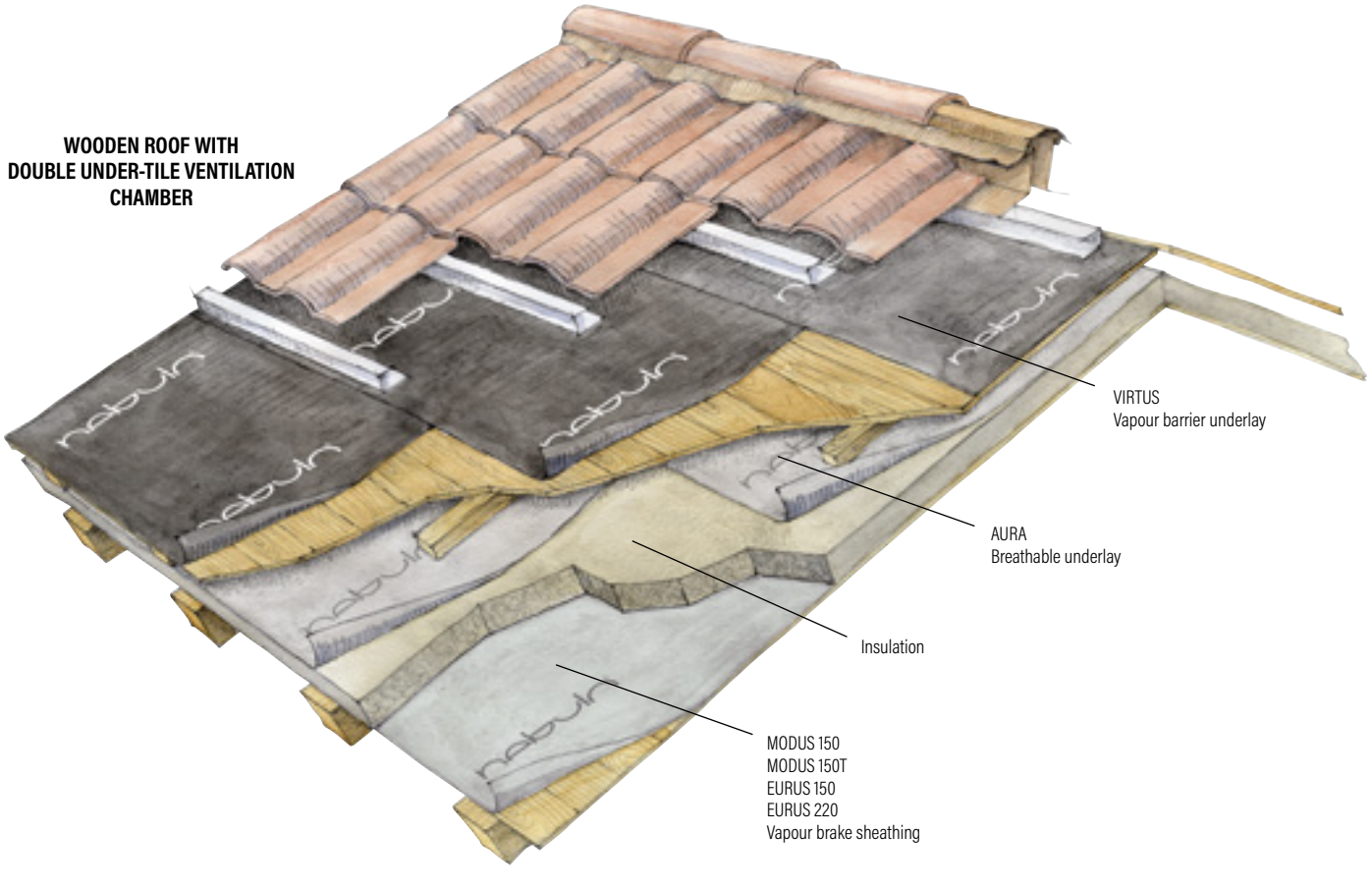
Adhesive sealants

LAYER STRUCTURES

WOODEN ROOF WITH SINGLE UNDER-TILE VENTILATION CHAMBER



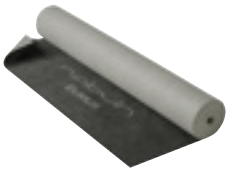
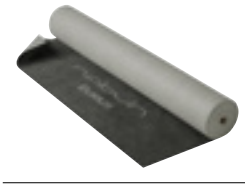
WOODEN ROOF WITH DOUBLE UNDER-TILE VENTILATION CHAMBER



VAPOUR BRAKE SHEATHING

EURUS is a **three-ply vapour brake sheathing** made of polypropylene non-woven fabric **bonded by means of a thermobonding process**. **Modulates the flow of water vapour**, preventing it from building up excessively between the OSB panel and thermal insulation.
Protects the insulation against the harmful effects of moisture and **regulates the level of vapour in the roof**. Can be used in different structures, such as walls, floors and roofs.

RECYCLABLE PRODUCT

MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**EURUS150**	Vapour brake sheathing EURUS 220	1.5x50	11	24	264	1,800	
	**EURUS150T**	Vapour brake sheathing with adhesive band EURUS 150T	1.5x50	11	24	264	1,800	
	**EURUS220**	Vapour brake sheathing EURUS 220	1.5x50	11	23	380	1,725	

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	EURUS.150/150T	EURUS.220
Material			Polypropylene	Polypropylene
Number of ply			3	3
Mass	EN 1849-2:2010	g/m^2	150	220
Thickness	EN 1849-2:2010	mm	0.5	0.7
Linearity <75 mm/10 m	EN 1849-2:2003	mm	Passed	Passed
Visible defects	EN 1849-2:2004	-	Without visible defects	Without visible defects
Fire resistance	EN ISO11925-2/AC:2011	Class	E	E
Water tightness	EN 1928:2002 Method A	kPa	Passed at 2kPa/24h	Passed at 2kPa/24h
Vapour transfer properties Sd	EN 1931: 2002	m	18 (±8m)	20
Vapour resistance	EN 1931: 2002	(M2 x s x Pa)/kg	70*10^9 (±25%)	8*10^9
Longitudinal tensile strength	EN 12311-2:2013	N/50 mm	≥260	≥350
Transverse tensile strength	EN 12311-2:2013	N/50 mm	≥160	≥230
Longitudinal elongation	EN 12311-2:2013	%	≥90	≥65
Transverse elongation	EN 12311-2:2013	%	≥90	≥80
Longitudinal tear strength	EN 12310-1:2010	N	≥130	≥200
Transverse tear strength	EN 12310-1:2010	N	≥160	≥280
Impact resistance	EN 12697	Mn	≥300	-
Vapour resistance after exposure to artificial ageing	EN 1296: 2001 EN 1931: 2002	-	Passed	Passed
Tensile proprieties after exposure to alkalines	EN 1847:2009 (liquid 2) EN 12311- 2:2013	-	Passed	Passed
Vapour permeability	-	μ	36000	28600

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

VAPOUR BARRIER UNDERLAY

Applied on top of the first layer of boards under the insulation, **this underlay totally prevents moisture from passing through** while **maintaining the thermal performance of the insulation**. **VIRTUS** is a **5 ply** underlay: the internal polyester core is coated on both sides by bituminous compounds. The external finish is in polypropylene non-woven fabric.

VIRTUS possesses high mechanical strength, as well as being non-slip and UV-resistant.

- Available in 380, 700 and 1000 g/m² versions.

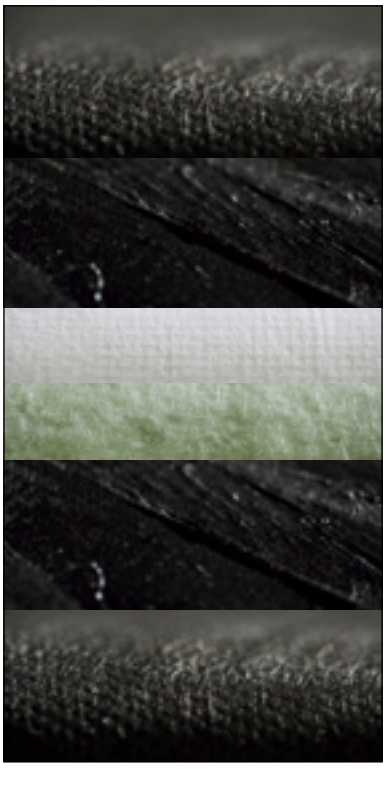
MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**NEBV0380**	VIRTUS.380 vapour barrier underlay **Ideal on concrete**	1x50	19.5	30	585	1.500	
	**NEBV0700**	VIRTUS.700 vapour barrier underlay **Ideal for structures such as pavilions, arbours and underneath shingles**	1x30	21.5	30	650	900	
	**NEBV1000**	VIRTUS.1000 vapour barrier underlay **Ideal for mountain areas and in the presence of extreme temperature changes**	1x25	27.5	30	670	750	

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASURE-MENT	Virtus.380	Virtus.700	Virtus.1000
Weight	EN 13859-1	g/m²	380	700	1000
Thickness	EN 1849-1	mm	0.65±15%	0.95±15%	1.1±15%
Longitudinal tear strength	EN 13859-1	N	150	200	220
Transverse tear strength	EN 13859-1	N	140	200	230
Longitudinal tensile strength	EN 13859-1	N/5 cm	400	650	700
Transverse tensile strength	EN 13859-1	N/5 cm	320	360	440
Longitudinal elongation	EN 13859-1	%	25-45	30-50	35-55
Transverse elongation	EN 13859-1	%	35-55	40-60	45-65
UV resistance	-	months	4	4	4
Resistance to the passage of water	EN 13859-1	class	W1	W1	W1
Vapour transfer properties WDD	EN 13859-1	g/m²x24h	1	0.45	0.28
Vapour transfer properties Sd	EN 13859-1	m	40	95	152
Vapour control membrane	UNI 11470				
Fire resistance	EN 13859-1	class	E	E	E
Flexibility at low temperatures	EN 13859-1	°C	-45	-45	-45
Weight of roll	-	kg	19.5	21.5	27.5
Roll dimensions	-	m	1x50	1x30	1x25
Rolls per pallet	-	pcs	30	30	30
Meters per pallet	-	m²	1.500	900	750
Weight of pallet	-	kg	585	650	830
Vapour permeability	-	μ	61538	100000	138181
Thermal conductivity	-	W/mK	0.17	0.17	0.17

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2.

COMPOSITION



TOP FINISH:
Heavy non-woven polypropylene fabric with anti-UV and grip treatment. Abrasion and tread resistant. Absorbs mechanical stress (tensile, shearing stress).

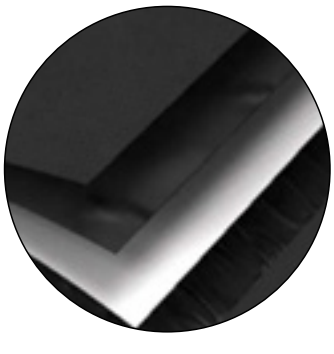
TOP INTERNAL PLY:
Bituminous compound

REINFORCEMENT:
Polyester

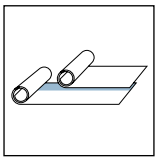
BOTTOM INTERNAL PLY:
Bituminous compound

UNDERSIDE FINISH:
Light non-woven polypropylene fabric with anti-UV and grip treatment. Withstands abrasion of wooden support. Contributes towards the mechanical strength of the entire product.

BITUMINOUS MEMBRANES:
Bonded tarred polyester.

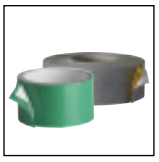


OVERLAP WHEN LAYING



At least 10 cm

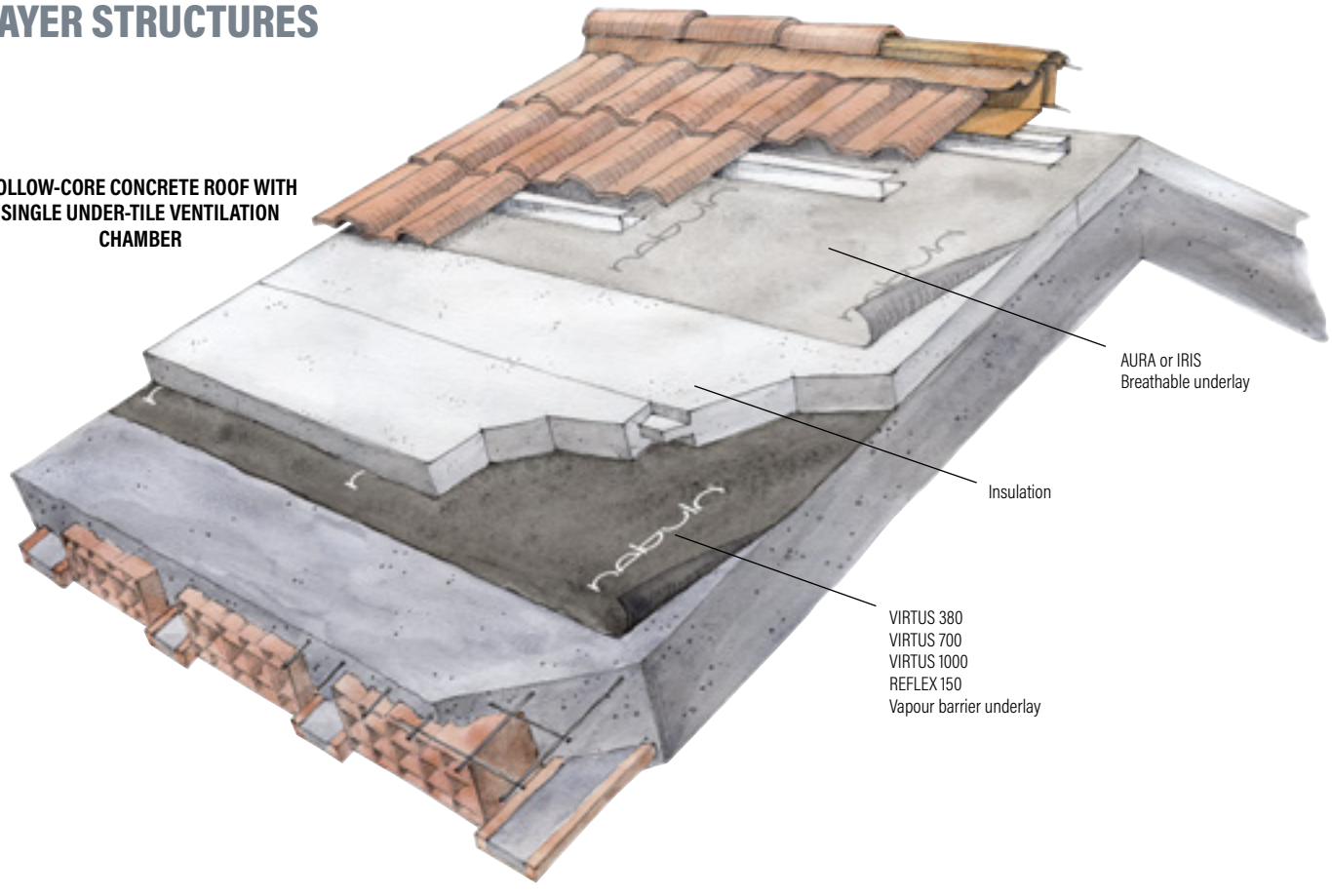
RELATED PRODUCTS



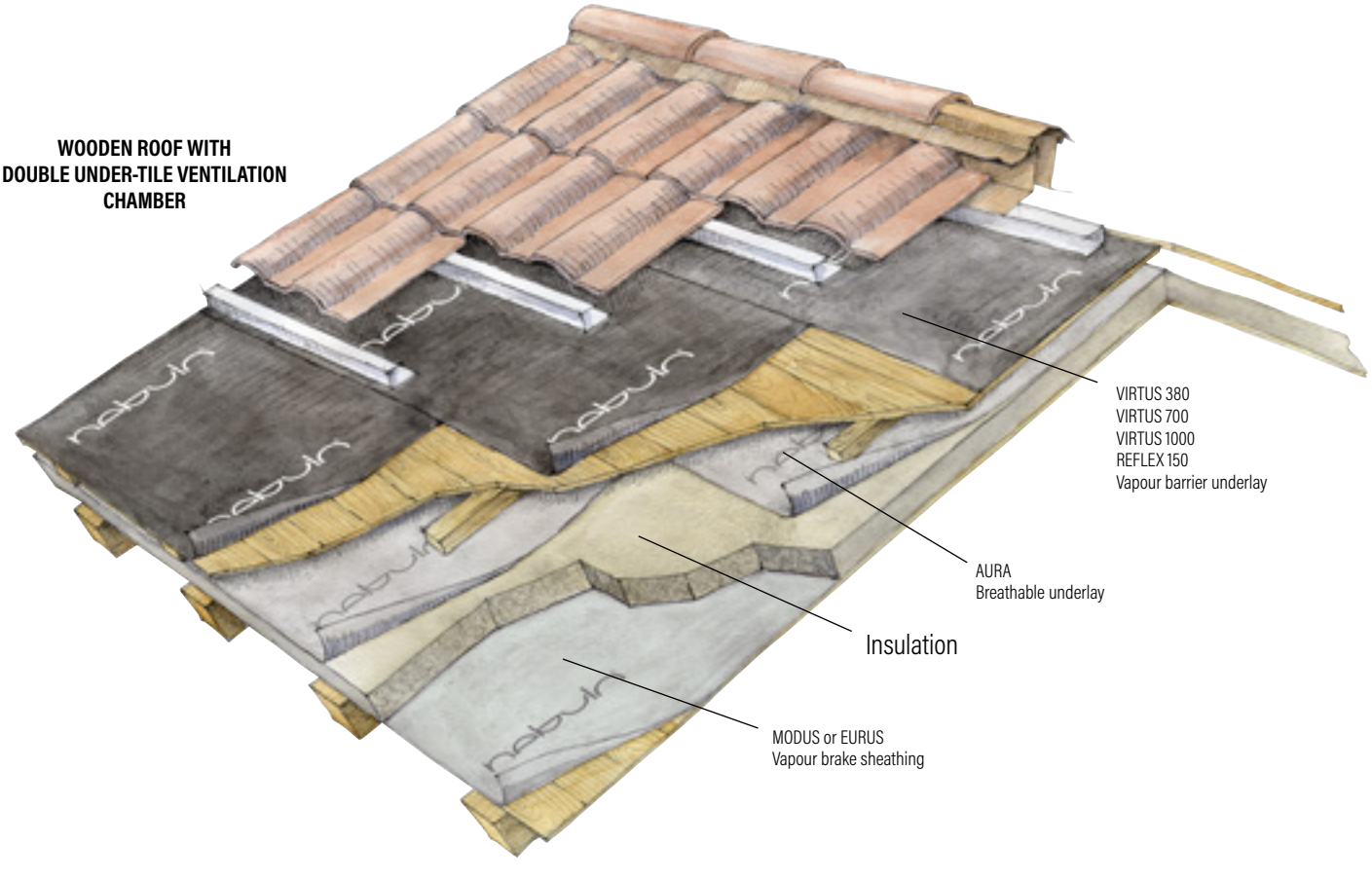
Adhesive sealants

LAYER STRUCTURES

HOLLOW-CORE CONCRETE ROOF WITH SINGLE UNDER-TILE VENTILATION CHAMBER



WOODEN ROOF WITH DOUBLE UNDER-TILE VENTILATION CHAMBER

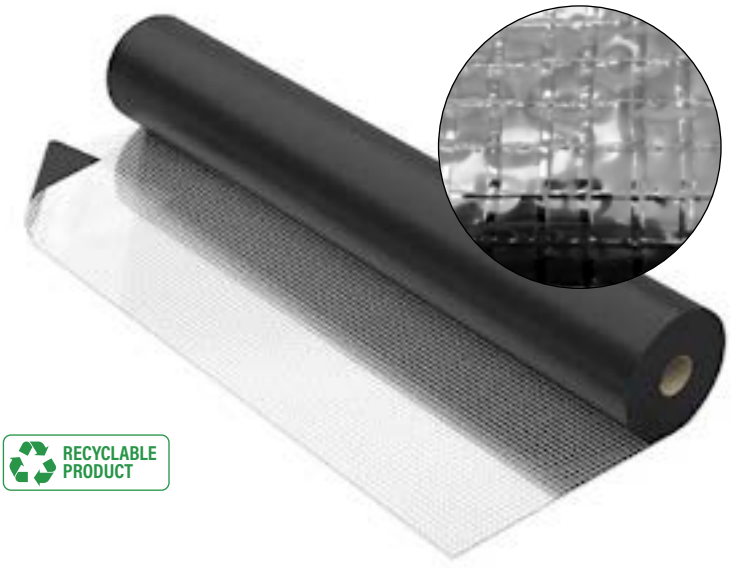


REFLECTING VAPOUR BARRIER UNDERLAY

Two-ply vapour barrier underlay bonded by means of a thermobonding process; non-woven polypropylene fabric base with reflecting top layer.
Can be used on **roofs, walls and floors** as a **vapour permeability regulator**.
Creates an active vapour barrier and prevents mould and mildew from forming.
REFLEX vapour barrier is complete with a special reflecting aluminium layer which reduces thermal radiation by 60%.

REFLEX possesses high mechanical strength, as well as being non-slip and UV-resistant.

- Available in the 150 g/m² version



RECYCLABLE PRODUCT

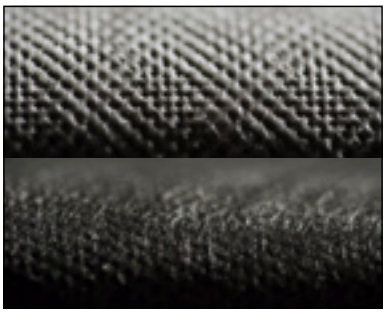
MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**NEBV0150**	REFLEX reflecting vapour barrier underlay	1.5x50	8.7	30	285	2,250	

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	Reflex
Weight	EN 13984: 2013	g/m²	150±10%
Thickness	EN 13984: 2013	mm	0.26
Longitudinal tear strength	EN 13984: 2013	N	≥ 150
Transverse tear strength	EN 13984: 2013	N	≥ 150
Longitudinal tensile strength	EN 13984: 2013	N/5 cm	260
Transverse tensile strength	EN 13984: 2013	N/5 cm	170
Longitudinal elongation	EN 13984: 2013	%	≥ 12
Transverse elongation	EN 13984: 2013	%	≥ 7
UV resistance	EN 13984: 2013	months	3
Resistance to the passage of water	EN 13984: 2013	class	requirement fulfilled
Vapour transfer properties Sd	EN 13984: 2013	m	70
Fire resistance	EN 13984: 2013	class	E
Weight of roll	-	kg	8.7
Roll dimensions	-	m	1.50x50
Rolls per pallet	-	pcs	30
Meters per pallet	-	m²	2,250
Weight of pallet	-	kg	285
Vapour permeability	-	μ	269230
Thermal conductivity	-	W/mK	0.22

Product subject to CE marking in accordance with Standard EN 13984: 2013 -2

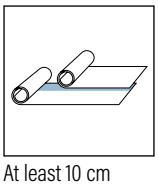
COMPOSITION



TOP PLY:
Sheet of metallized polypropylene coated in PETc to protect the reflecting layer.

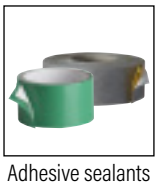
UNDERSIDE FINISH:
Light non-woven polypropylene fabric with anti-UV and grip treatment. Withstands abrasion of wooden support. Contributes towards the mechanical strength of the entire product.

OVERLAP WHEN LAYING



At least 10 cm

RELATED PRODUCTS



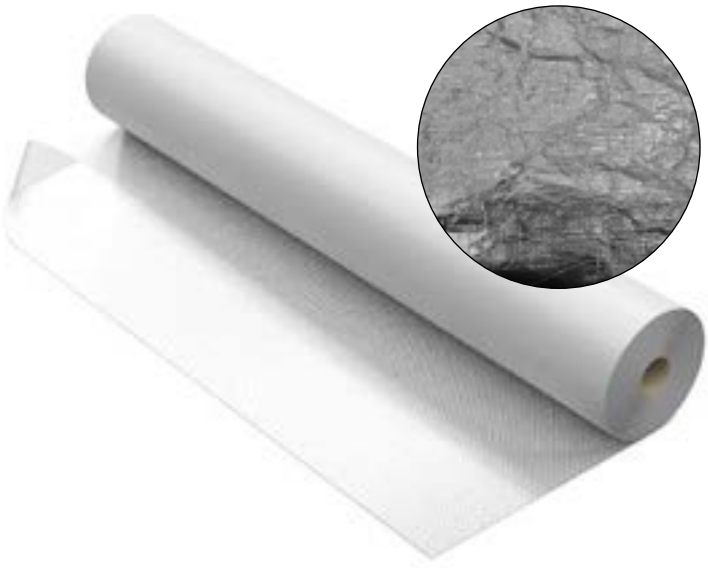
Adhesive sealants

VAPOUR BARRIER UNDERLAY

REFLEX 195 is a two-ply underlay formed by a sheet of aluminium and a layer of glass fiber fabric.
It is a **non-combustible underlay** (A2-s1, d0 in accordance with Standard EN 13501-1).

Its key features include **extremely high reflectivity**, **remarkable resistance to vapour** while being **very easy to lay**

10-year warranty



MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**REFLEX195**	REFLEX195 Vapour barrier underlay	1.2x50	12	64	720	3,840	

SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	REFLEX.195
Thickness	-	mm	0.1
Mass	-	g/m²	195
Fire resistance	EN 13501-1	class	A2 - s1, d0
Vapour transfer properties Sd	EN 12572	m	>2,000
Resistance to the penetration of vapour	EN 12572	MN.s/g	>1,000
Vapour permeability	EN 12572	μ	20,000,000
Airtightness	EN 12114	m³/(hxm²x50Pa)	0
UV resistance (without coating)	-	months	9
UV resistance (50% and 50 mm)	-	Permanent - hours tested	5,000
Temperature range	-	°C	-36 / +180
Longitudinal tear strength	EN 12310-1	N	150
Transverse tear strength	EN 12310-1	N	150
Longitudinal tensile strength	EN 12311-1	N/5 cm	960± 400
Transverse tensile strength	EN 12311-1	N/5 cm	950± 400
Longitudinal elongation	EN 12311-1	%	4
Transverse elongation	EN 12311-1	%	4

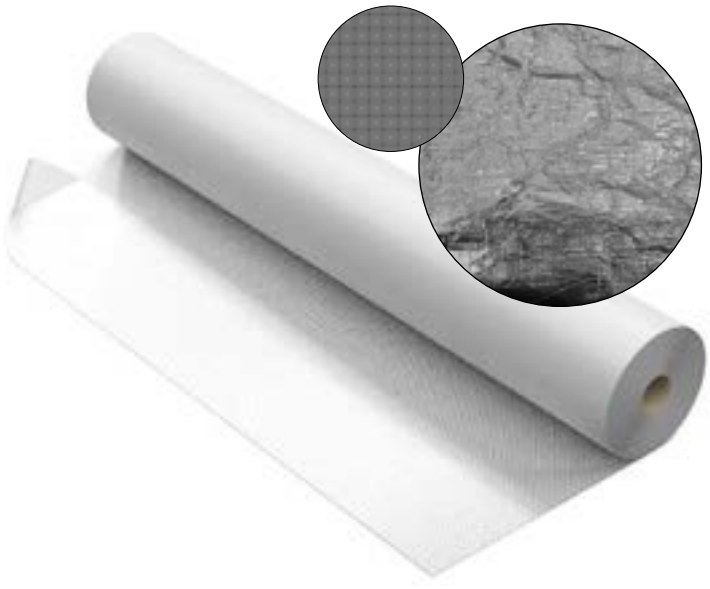
Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2

REFLEX 430

BREATHABLE UNDERLAY

REFLEX 430 is a three-ply underlay formed by a sheet or micro-perforated aluminium, functional film and a layer of glass fiber fabric.
It is a **highly breathable, non-combustible underlay** (A2-s1, d0 in accordance with Standard EN 13501-1).

It provides **remarkably comfortable conditions in summer**, **excellent mechanical strength** while being also **easy to cut and shape for laying.**
Complete with two adhesive bands.
10-year warranty



MODEL	CODE	DESCRIPTION	DIMENSIONS m	WEIGHT kg	ROLLS per PALLET	WEIGHT of PALLET kg	m² per PALLET	Technical data sheet
	**REFLEX430**	REFLEX430 Breathable underlay	1.2x35	19	42	798	1764	

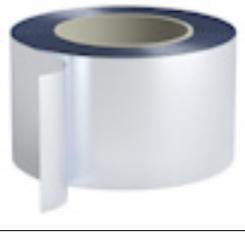
SPECIFICATIONS

DESCRIPTION	STANDARD	UNIT of MEASUREMENT	REFLEX.195
Thickness	-	mm	0.43
Mass	-	g/m²	430
Permeability	EN 1928	class	W1
Fire resistance	EN 13501-1	class	A2 - s1, d0
Vapour transfer properties Sd	EN 12572	m	0.08
Resistance to penetration of vapour	EN 12572	MN.s/g	0.44
Vapour permeability	EN 12572	μ	235
Reflectivity	EN 16012	%	95
Airtightness	EN 12114	m³/(hxm²x50Pa)	0.093
UV resistance (without coating)	-	months	9
UV resistance (50% and 50 mm)	-	Permanent - hours tested	5,000
Temperature range	-	°C	-36 / + 90
Longitudinal tear strength	EN 12310-1	N	580 ± 75
Transverse tear strength	EN 12310-1	N	450 ± 75
Longitudinal tensile strength	EN 12311-1	N/5 cm	3000 ± 400
Transverse tensile strength	EN 12311-1	N/5 cm	3200 ± 400
Longitudinal elongation	EN 12311-1	%	6 ± 2
Transverse elongation	EN 12311-1	%	5 ± 2

Product subject to CE marking in accordance with Standard EN 13859-1/EN 13859-2

v 4.1.0.1 - November 2024

ADHESIVES SEALANTS

MODEL	CODE	DESCRIPTION	WIDTH mm	LENGTH m	ROLLS per box	Technical data sheet
CLAUDO.50						
	**NEBCL50**	**CLAUDO.50** sealing tape adhesive on one side **To be applied under the battens, on a level with each nail or screw. Ensures that the roof is really waterproof.**	50	10	12	
TENAX.60						
	**NEBTE60**	**TENAX.60** acrylic adhesive tape with polypropylene upper surface finish **Used for sealing synthetic underlay overlaps so as to achieve a more watertight finish. Also ideal for mending small holes or tears.**	60	25	10	
NAPE.60						
	**NEBPE60**	**NAPE.60** acrylic adhesive tape made of low density polyethylene (LDPE) **Used for sealing synthetic underlay overlaps so as to achieve a more watertight finish. Also ideal for mending small holes or tears.**	60	25	10	
NEBRAL.50						
	**NEBRAL50**	Adhesive tape in Reflex Aluminium **NEBRAL.50** **Used for sealing reflecting underlay overlaps so as to achieve a more watertight finish. Also ideal for mending small holes or tears.**	50	50	6	
NAREF.75						
	**NAREF75**	Adhesive tape in non-combustible Aluminium **NAREF.75** **Used for sealing non-combustible underlays and reflecting underlay overlaps so as to achieve a more watertight finish. Also ideal for mending small holes or tears.**	75	25	16	

Quantity per square meter of roof:
0.75 linear meters of sealing tape, considering a 15 cm overlap between sheets of underlay

LAYING ADVICE

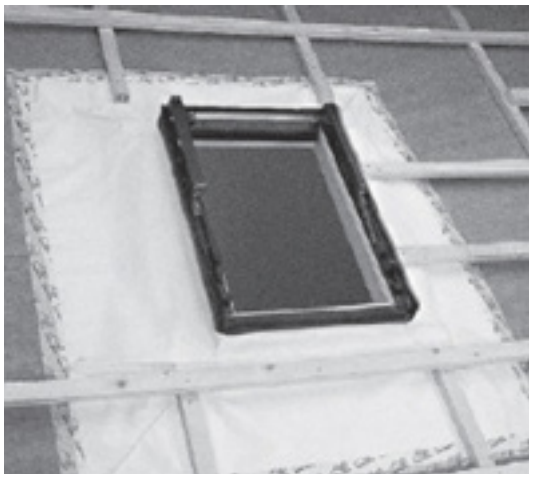
Lay the product by **beginning from the gutter line** and applying the successive layers **parallel to it. Overlap the different sheets of underlay as indicated** for each product.

Fix the layers in place using **clips or broad-headed nails**. For the best result it is advisable to seal **each nail using CLAUDO** sealing tape.

The underlay must be laid smoothly, without hollows or areas where water could collect. It must not be too taut, as this would impair its mechanical characteristics.

It is advisable to apply TENAX or NAPE tape where the layers overlap, so as to make the joins **more watertight**.

Once it has been laid, the underlay must be covered within the shortest possible time, in accordance with the UV resistance data in the technical data sheet.



CRITICAL POINTS

OPENINGS IN THE STRUCTURE

1. Using a cutter, make an "X" or "I" shaped cut on a level with the opening and fold back the resulting four flaps.

2. Now apply a suitable sealant, either from a roll or using an applicator. Make sure the drainage is channelled onto the surface of the waterproof membrane.

NAILS

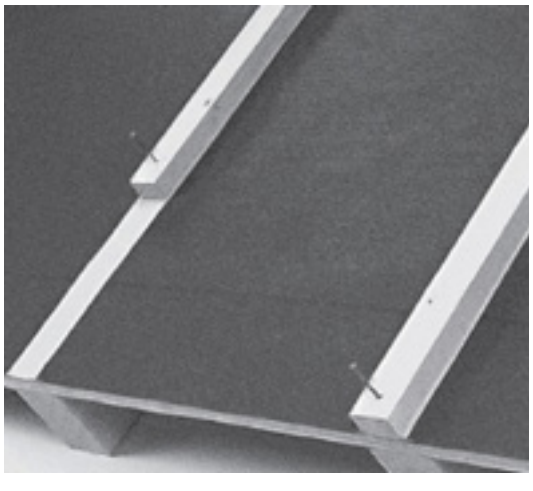
3. Apply a strip of butyl under the battens so as to prevent thermal bridges or small infiltrations from forming.

NOTE:

Only by correctly laying the roof elements can the soundness of the entire roof system be guaranteed.

Underlay must not be considered as the ultimate protection of an exposed roof.

The underlay must be covered as soon as possible so as to become an integral part of the roof system.



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