



# MEMBRANES AND TAPES FOR WOODEN BUILDINGS



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Rothoblaas is an Italian multinational from the alpine region, a leader in the development and supply of advanced technological solutions for the timber building sector.



# ABOUT US

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Specialists in the wood carpentry sector, with a full range of products and solutions, we are the perfect partner for designers and builders.



FASTENING

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Airtightness and  
WATERPROOFING

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SOUNDPROOFING

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FALL PROTECTION

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TOOLS AND MACHINES

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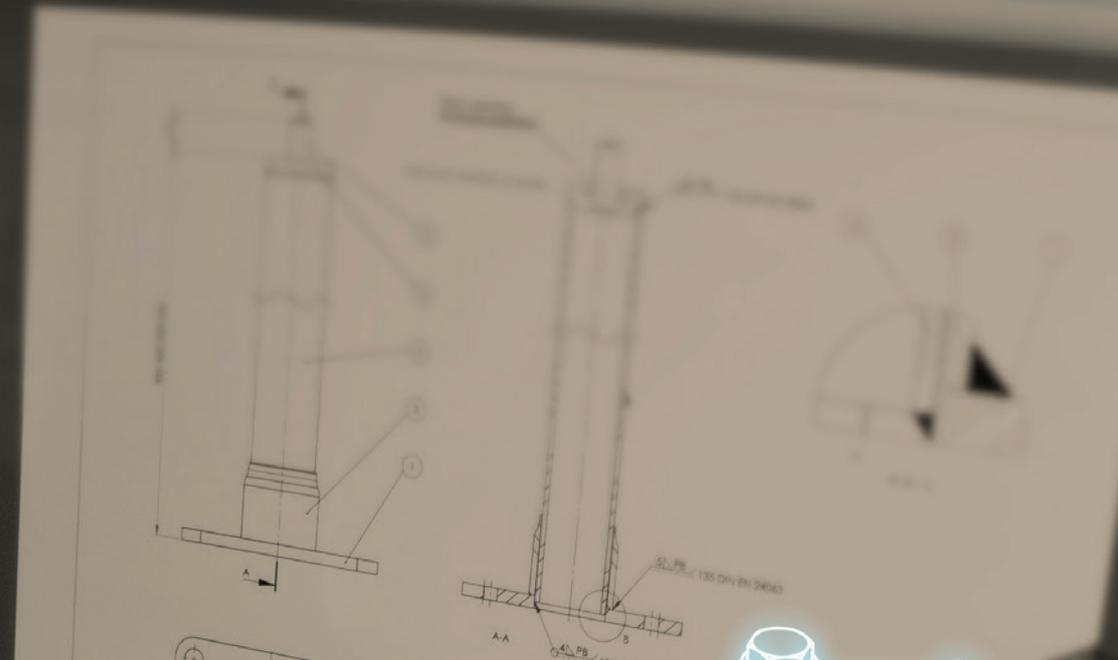
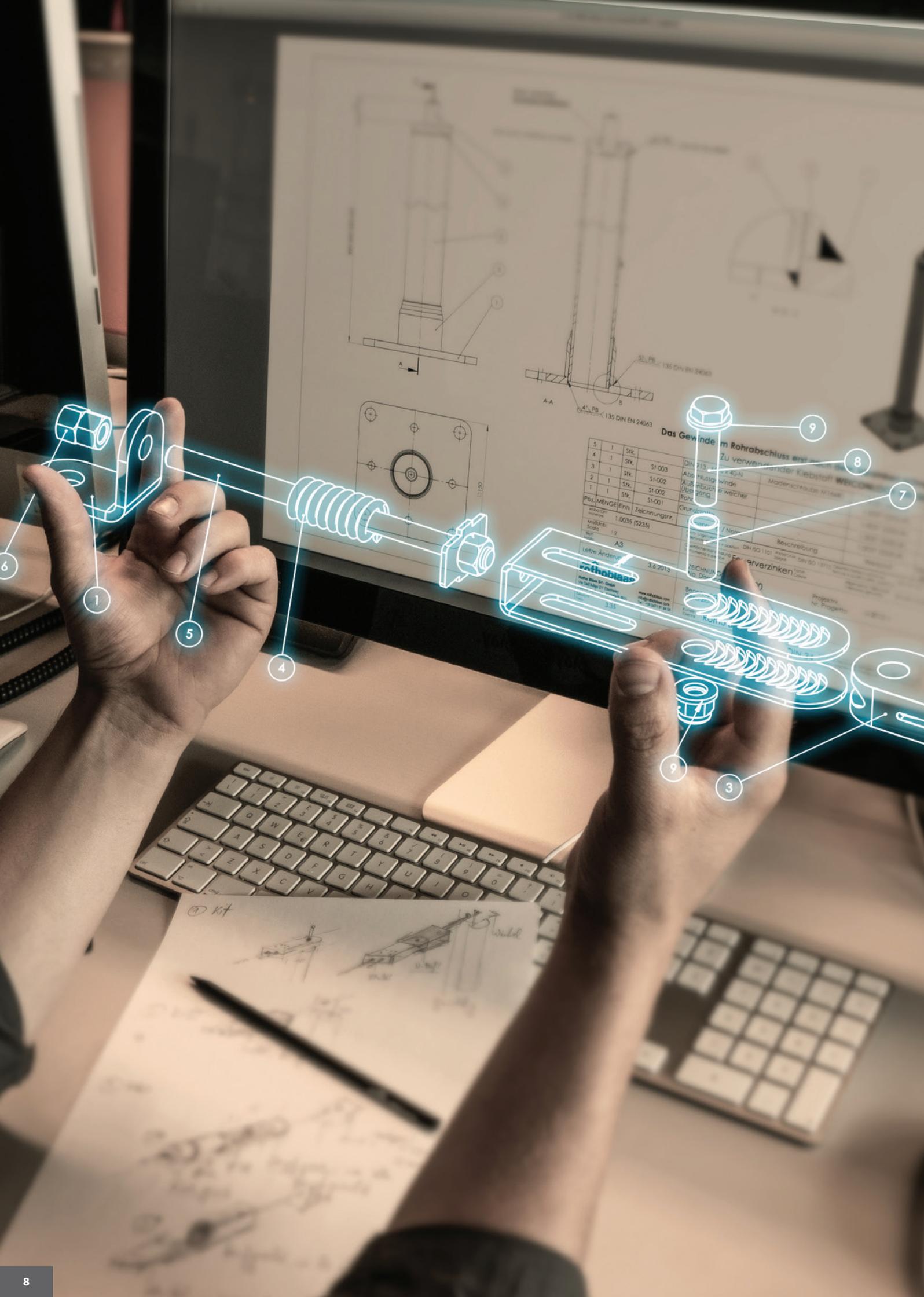
# WE CAN REACH YOU ANYWHERE

Thanks to an international experience achieved in more than 25 years of activity and to a network of partners strategically located throughout the world, we ensure a high quality service where product safety and delivery timing are always the first priority.

## Italy - Cortaccia (Bolzano)

France - Austria - Spain - Germany - Russia - Latvia - Argentina - Brazil  
Colombia - Ecuador - Chile - Australia - Canada





Das Gewinde im Rohrabschluss erst...

5	1	Stk.							
4	1	Stk.							
3	1	Stk.	S1-003	DIN 913					
2	1	Stk.	S1-002	Abstreifschraube	40-N				
1	1	Stk.	S1-002	Abstreifschraube	weicher				
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ZEICHNUNG Nr. 10.000

Beschreibung

zu verwenden Klebstoff

Mutterschraube M12

Feinverzinken



# FROM IDEA TO MARKET

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"At rothoblaas we are proud to say that everything from initial product research, product development, product testing through to the finalised product and its entry to the market is done in house. This ensures that we retain 100% control over the whole development process."

*Robert Blaas*



## RESEARCH

Building needs of the market requirements.

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## DEVELOPMENT

Study of new solutions

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## TEST

Experimental trials

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## CERTIFICATION

Verification audits by qualified bodies

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## CHECK

Quality assurance

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## LAUNCH

Market launch

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# AT YOUR SERVICE

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With a wide choice of multilingual training schemes enriched by the presence of international speakers, a dedicated technical service and a website full of specialised documentation, calculation software and building details, we are by your side every day.

ROTHOSCHOOL

# 18

training courses

---

CATALOGUES AND TECHNICAL SHEETS

# 1,600

documents available online

---

SPECIALISED ENGINEERS

# 10,000

consultancies / year

---

MYPROJECT SOFTWARE

# 260

calculable connection types

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BUILDING DETAILS

# 200

dxg files in downloadable libraries

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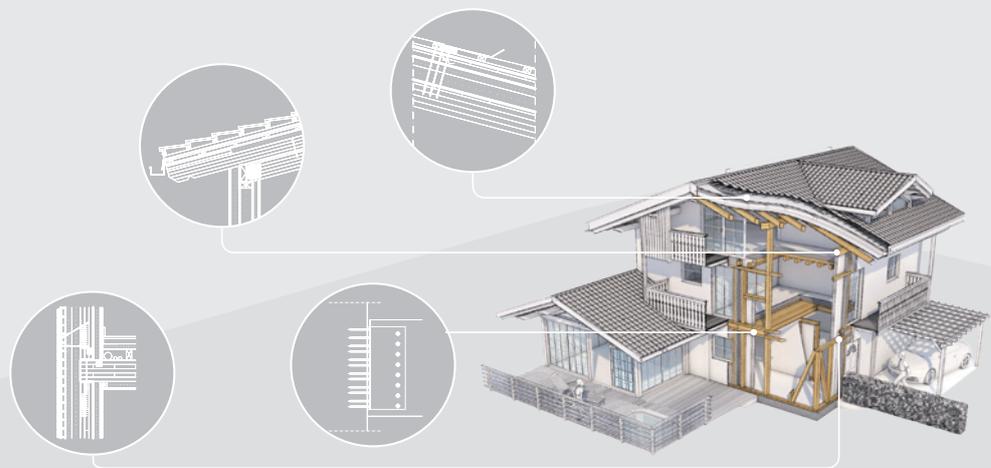
# AT THE SERVICE OF DESIGNERS

The experience rothoblaas has acquired in the world of wood constructions is available to you through software, BIM / CAD libraries and rothoschool courses, created to allow you to take full advantage of the potential offered by our systems: visit [www.rothoblaas.com](http://www.rothoblaas.com) to find your perfect solution.

## BIM / CAD LIBRARIES

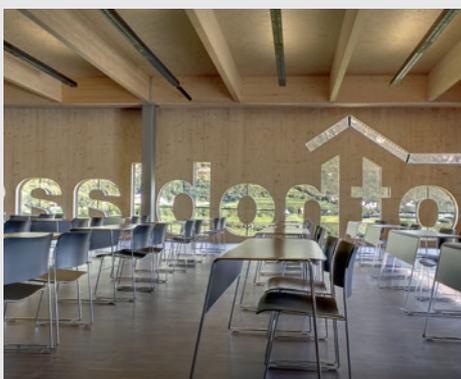
Libraries of application details and BIM components for wood buildings, designed to make it easier to use systems able to guarantee the maximum structural and thermal performance, as well as soundproofing, airtightness and durability.

[www.rothoblaas.com](http://www.rothoblaas.com)



## ROTHOSCHOOL

Multilingual courses on comfortable living design and the application of waterproofing systems are dedicated to the continuing education of technicians and carpenters. The following subjects are discussed on these courses:

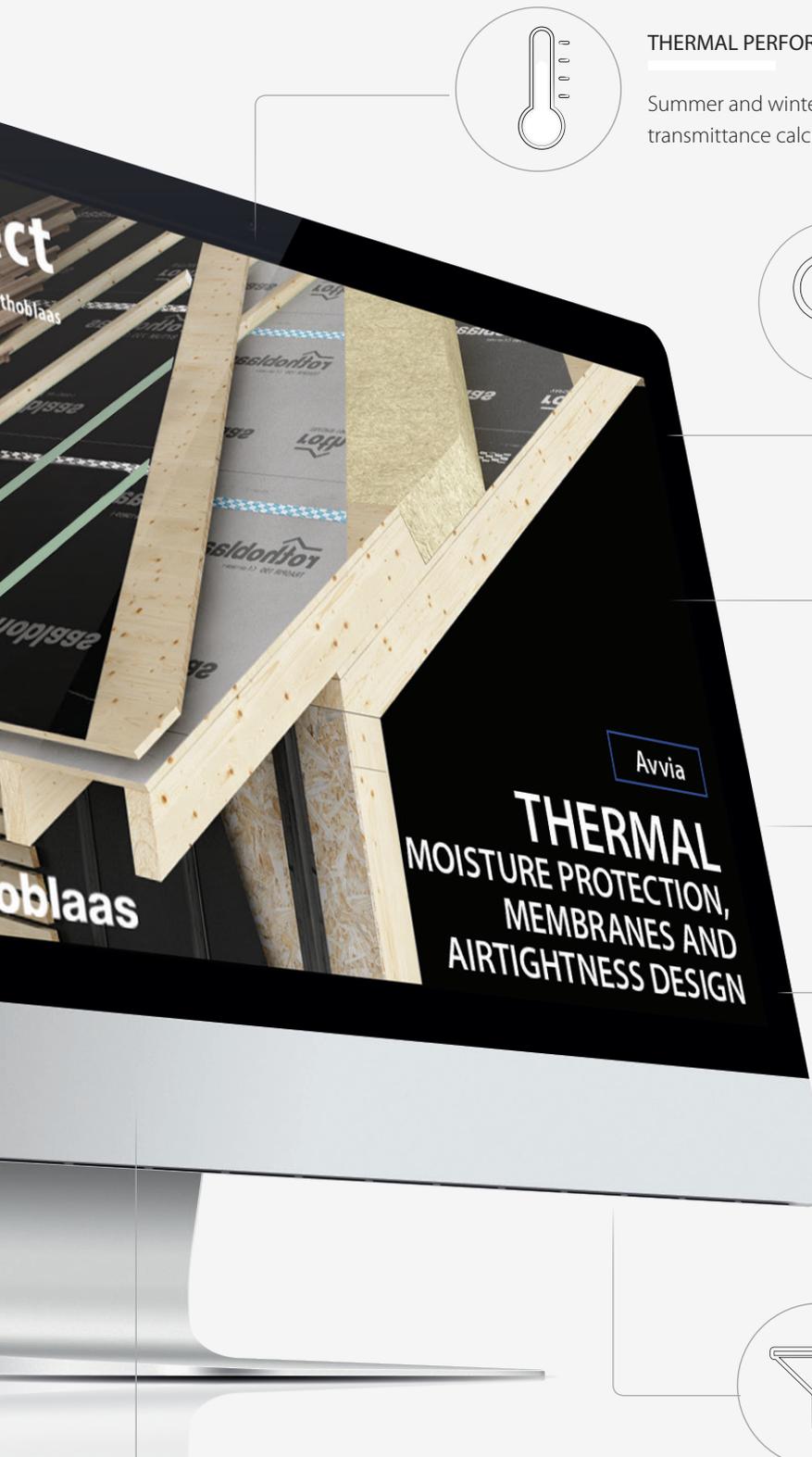


- Technical physics concepts for wood buildings
- Wall layers and details to avoid surface and interstitial condensation
- Roof layers and details to avoid surface and interstitial condensation
- Study of waterproofing at attachment to the ground
- Application of airtightness systems at crossings and openings
- Overall assessment of waterproofing in terms of practicality, durability and comfort
- Practical application tests for sheets and tapes
- Further technical information about the systems foreseen under the standards in force

# MY PROJECT - THERMAL

Moisture protection, membrane and airtightness design.

Thermal, hygrometric and dynamic analysis for opaque structures (vertical walls, slabs, roofs)



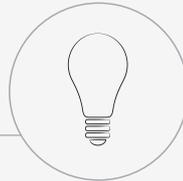
## THERMAL PERFORMANCE

Summer and winter heat transmittance calculation



## DETAILED

Hourly check on water vapour migration



## PRACTICAL AND INTUITIVE

User manual and final report complete with graphs and illustrations



## CLIMATE DATABASE

Wide range of climate data in compliance with standards in force



## PERSONALISED

Create a user database and save your projects



## REFINED

Analysis of summer behaviour for finished elements and calculation of drying time for structures



## DURABILITY

Checks on the risks of moulds and interstitial condensation

# QUALITY BUILDING

Modern building requires attention to be paid to issues that just a few years ago were considered secondary: energy savings, noise reduction, resistance to earthquakes or other exceptional natural events all of these are areas closely connected to the application of advanced technology and quality products.

## REDUCING ENERGY CONSUMPTION

Numerous studies show that energy use in buildings causes over 40% of global CO<sub>2</sub> emissions. Greater attention paid to reducing energy consumption during design is essential for both the environment and for economic savings.



### MATERIALS

Wood, a sustainable material



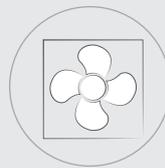
### INDOOR AIR QUALITY

Improved air quality, improved quality of life



### RENEWABLE SOURCES

Environmental sustainability and primary energy sources



### VENTILATION

Controlled air exchange for excellent comfort



### WATER

Reducing water consumption



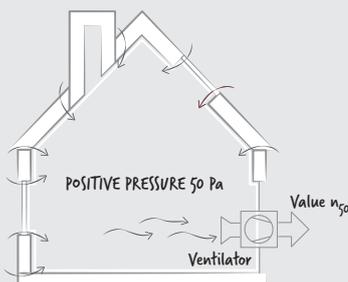
### LOCATION

Importance of positioning and solar contributions

## INSPECTION TOOLS

With the **Blower Door test** a building is subjected to positive pressure of 50 Pa, while the quantity of air that filters from the surfaces which enclose the casing is measured. The value  $n_{50}$  [1/h] expresses the ratio between the volume of air dispersed in an hour and the total volume of the building. With the **thermal camera**, by reading infrared radiation, points that have different temperatures are identified in real time, allowing the technician to correct any installation errors.

### BLOWER DOOR TEST



### VALUES $n_{50}$ [1/h]

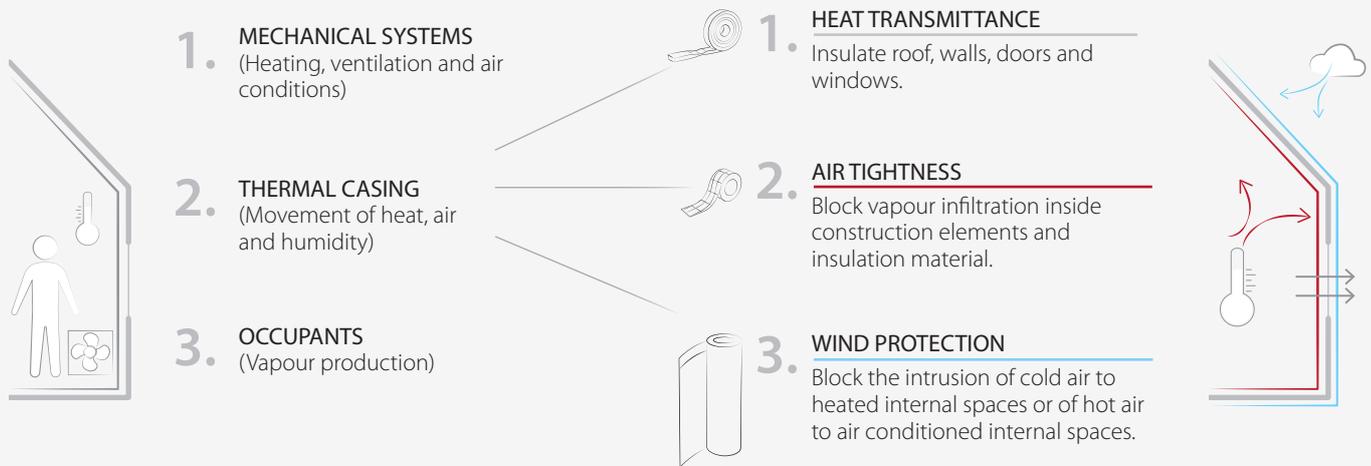
- Passive house  $\leq 0.6/h$
- Building with low energy consumption  $\leq 2.0/h$
- Building with forced ventilation system  $\leq 1.5/h$
- Conventional building  $\leq 3.0/h$

### THERMAL CAMERA



# THERMAL PERFORMANCE OF THE BUILDING CASING

When designing a building with low energy consumption, all construction aspects are connected to each other:



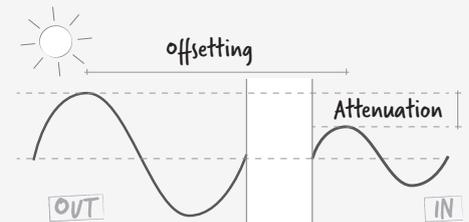
## ENERGY EFFICIENCY

Thermal dispersion is mainly due to conductive phenomena between construction elements. **Heat transmittance** (U) is calculated based on the thickness of the elements that make up the casing and their thermal conductivity ( $\lambda$ ) which expresses the insulating power of the material.

### THERMAL CONDUCTIVITY (value $\lambda$ )



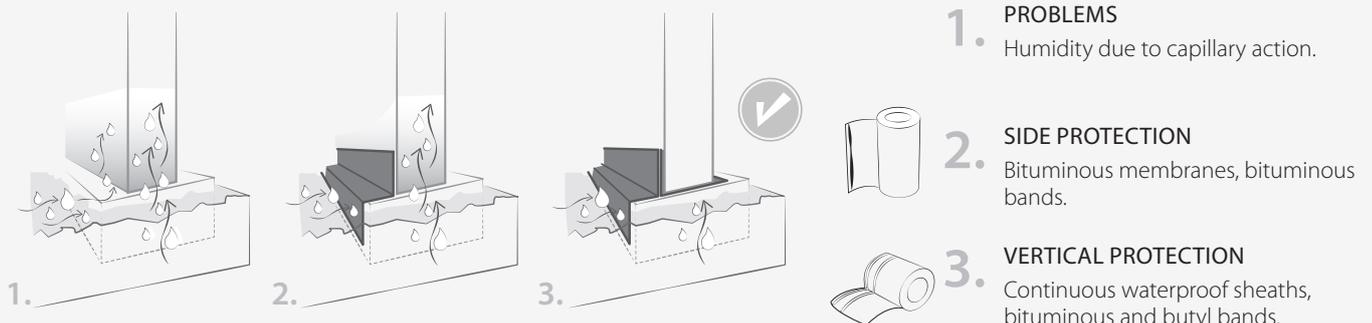
### THERMAL INERTIA



The capacity of a structure to adjust its temperature more slowly with respect to the external temperature reduces energy requirements for summer cooling. Good comfort values are obtained with **offsetting of  $\phi > 12h$**

## ATTENTION TO DETAIL

The durability of wood is closely connected to protection from water: proper installation is necessary to impede external infiltration, humidity coming from the subsoil and unsatisfactory sealing.



# 1. STOPS AND BARRIERS

page 28

Vapour stop barriers ■ Variable diffusion membranes ■ Vapour stop membranes

# 2. BREATHABLE

page 46

Breathable membranes for walls and roofs ■ Breathable membranes for sheet metal roofs  
Breathable membranes for ventilated façades

> *Installation of weldable membrane (page 72)* ■ *Installation of membrane for sheet metal (page 77)*  
*Installation of membrane for facades (page 84)*

# 3. MEMBRANES

page 86

Bituminous vapour barriers ■ Self-adhesive bituminous membranes  
Waterproofing sheaths for foundations

> *Installation of underlay sheath (page 92)* ■ *Installation of sheath for flooring (page 95)*  
*Installation of sheaths for foundations (page 99)*

## MORE INFORMATION

*Membranes and vapour barriers (page 18)* ■ *Monolithic and microporous (page 20)* ■ *Production processes (page 22)*

*Membrane properties (page 24)* ■ *Certifications and compliance (page 26)*

*Radon, an unwanted house guest (page 96)* ■ *Air and wind tightness (page 106)*

*Nodes and field of application (page 108)* ■ *Supports (page 110)* ■ *Doors, windows and structure (page 150)*

*Seal with foam (page 160)* ■ *Ventilation (page 166)*

# MEMBRANES AND TAPES FOR WOODEN BUILDINGS

## 4. TAPES AND PROFILES

page 104

Acrylic tapes ■ Butyl tapes ■ Expanding tapes ■ Bituminous bands ■ EPDM profiles  
Polyethylene gaskets

> *Internal window, corner and beam taping (page 126)* ■ *Window frame taping (page 134)*

## 5. SEALANTS

page 154

Universal primers ■ Adhesive glues ■ Sealing foams ■ Sealant guns

## 6. ACCESSORIES

page 168

Ventilated under-ridges ■ Rigid under-ridges ■ Roof accessories ■ Insulation fixing  
Misc. equipment

### BUILDING DETAILS

*Waterproofing sheaths for foundations (page 97)* ■ *Window / door installation (page 151)*

APPLICATION SETTINGS page 112

INSTALLATION INSTRUCTIONS page 186

*External walls* ■ *Internal walls* ■ *Internal roof* ■ *External roof* ■ *Valleys and ridges*  
*Window sealing from roof* ■ *Chimney sealing* ■ *Systems sealing* ■ *Simple roof* ■ *Double roof*  
*Lateral closures* ■ *Beam overlapping*

# MEMBRANES AND VAPOUR BARRIERS

Breathable barriers and membranes are fundamental in protecting the building casing from the risk of water infiltration and allow for perfect thermal/hygrometric calibration of the structure. They also play an important role in controlling vapour diffusion and in air and wind tightness, representing the perfect solution to increase building energy efficiency.

## BREATHABLE BARRIER AND MEMBRANE CLASSIFICATION

Membranes can be grouped into 3 categories, based on their characteristics:

PRODUCT	AIRTIGHT	WATERTIGHTNESS	RESISTANCE TO WATER VAPOUR
Vapour stop barriers	●●●	●●●	●●●
Vapour stops	●●●	●●●	●●○
Breathable membranes	●●●	●●●	○○○

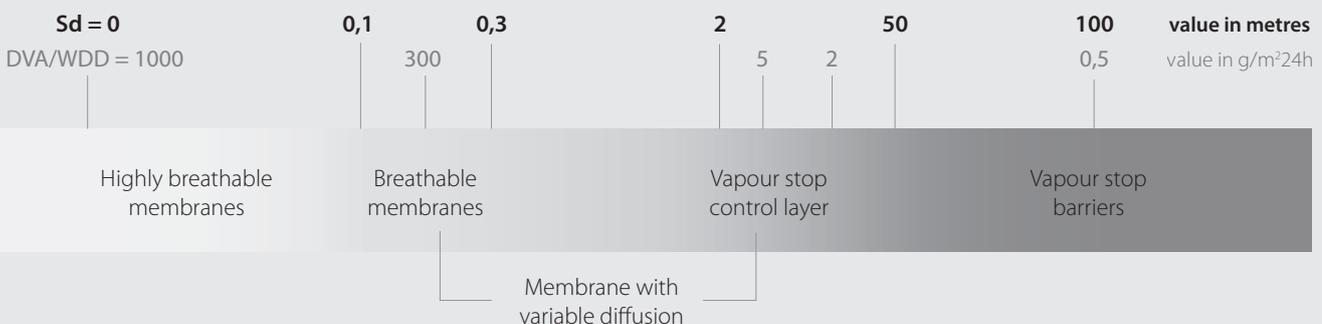
The properties described here, together with other parameters indicated in the technical specifications, are governed by the CE mark protocol for discontinuous roof coverings (EN 13859-1), underlays for walls (EN 13859-2) and vapour control layers (EN 13984).

### RESISTANCE TO PENETRATION OF WATER VAPOUR VALUE

The main parameter that defines the type of membrane is its **resistance to penetration of water vapour value**, identified with  $S_d$  (m).  **$S_d$  (m)**: equivalent air layer, as it indicates the measure of the thickness of air that would provide the same resistance to the passage of the vapour (through diffusion), as that offered by the product or structure in question.

Another parameter that describes the water vapour diffusion capacity of products is **water vapour permeability (WVP/WDD) (g/m<sup>2</sup>24h)**: the quantity of water vapour that can pass through a square meter of surface in 24 hours.

The various types of membranes can therefore be summarised in the following classes:



**NOTE:** in this catalogue, reference is only made to the  $S_d$  (m) value, as it is mentioned in the standards in force.

There are numerous factors that determine the most suitable product. Below we list the main ones.

### WATERTIGHTNESS



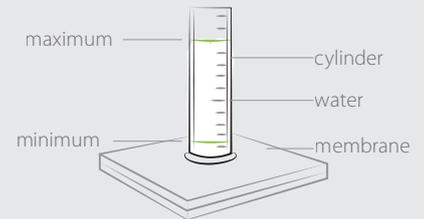
This property indicates resistance to penetration of water. Standard EN 13859-1/2 establishes the following classification:

- **W1:** High resistance to penetration of water
- **W2:** Medium resistance to penetration of water
- **W3:** Low resistance to penetration of water

Standard EN13859-1 and 2 establishes a requirement of resistance to 200 mm of static water pressure for 2 hours (classification W1).

**NB:** For vapour stops and control layers, the word "conforming" is only used when the product meets the most severe requirements of the test indicated above.

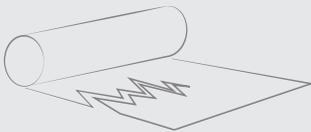
### WATER COLUMN



Expressed in cm or mm, identifies the maximum pressure caused by standing water that the product can tolerate.

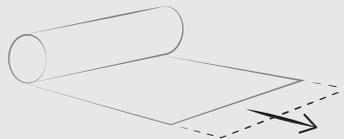
Recall that this family of products was not developed to tolerate standing water for long periods of time.

### TENSILE STRENGTH



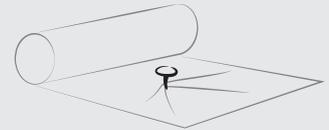
Force exercised both longitudinally and transversally, to determine the maximum load, expressed as N/50 mm.

### ELONGATION



Indicates the maximum elongation percentage the product can suffer before failure.

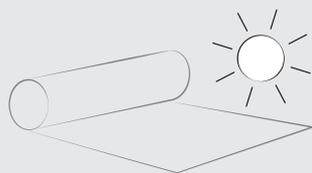
### NAIL TEAR STRENGTH



Force exercised both longitudinally and transversally with the insertion of a nail, to determine the maximum load, expressed in N (Newton).

**MD / CD:** longitudinal/transversal values with respect to the direction the membrane rolls

### UV STABILITY



IS the value relative to annual median radiation in the Central Europe zone, formulated based on EN 13859-1. Given highly variable weather and radiation conditions, the value may change based on the country and weather conditions at the time of application.

### FLEXIBILITY AT LOW TEMPERATURES



Expressed in °C, indicates down to what temperature the product can still be manipulated without damage, taking advantage of elasticity and deformability.

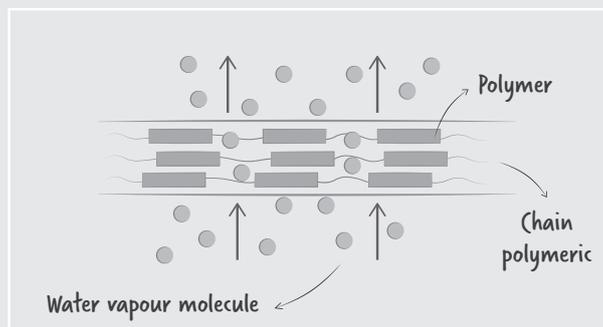
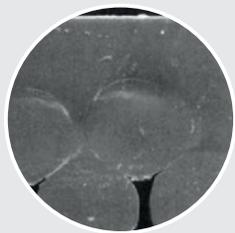
# MONOLITHIC AND MICROPOROUS

The family of synthetic membranes and vapour control layers and barriers (that is, membranes made of materials deriving from polymers) offer different properties as a function of the production technologies and raw materials used in processing.

## MONOLITHIC PRODUCTS

Membranes with a homogeneous and continuous functional layer. Water vapour permeability is entrusted to a chemical reaction based on the permeance of the polymer. In fact, some polymers are able to activate a chemical reaction with vapour molecules that allows them to pass through, rendering them breathable.

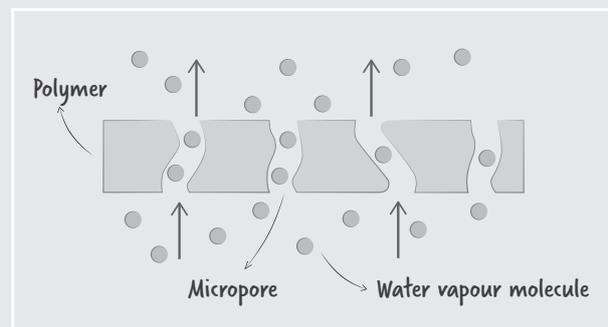
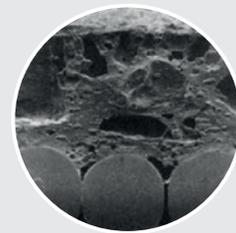
FIG. 1: microscope image of a monolithic membrane section. Upper part: monolithic film. Lower part: support and protection fibre filaments (type: TRASPIR ZENIT EVO 180)



## MICROPOROUS PRODUCTS

Membrane with functional microporous layer, obtained through mechanical processing. Permeability to water vapour is entrusted to the capillary principle: the vapour molecule passes through the micropores in the vapour check film, enclosed in one or two protective layers.

FIG. 2: microscope image of a microporous membrane section. Upper part: microporous film. Lower part: support and protection fibre filaments (type: TRASPIR 150)



## COMPARISON OF MONOLITHIC AND MICROPOROUS

CHARACTERISTIC	MONOLITHIC	MICROPOROUS
Thermal stability	●●●	●○○
Durability and stability with ageing	●●●	●●○
UV stability	●●●	●●○
Chemical stability	●●●	●○○
Low reaction to fire	●●○	●○○
Breathability (water vapour)	●●●	●●●
Watertightness	●●●	●●○
Airtight	●●●	●●○
Resistance to heavy rain	●●●	●●○
Mechanical resistance	●●●	●●●
Slipping resistance	●●○	●●●

The different characteristics of the products depend on production technology and raw materials used, which are generally OVC (COV) and solvent-free. Below is a list of polymers used in rothoblaas products, and their relative specifications:

RAW MATERIAL USED IN VAPOUR CHECK FILM	STRENGTHS	FINISHED PRODUCT TECHNOLOGY	ROTHOBLAASS PRODUCTS USED IN
Acrylic	<ul style="list-style-type: none"> <li>• Thermal stability</li> <li>• UV stability</li> <li>• Low reaction to fire</li> </ul>	Monolithic, spread in 2 layers	Breathable and highly breathable membranes ( <b>TRASPIR EVO 300</b> )
Thermoplastic polyurethane (TPU or PU)	<ul style="list-style-type: none"> <li>• Thermal stability</li> <li>• Chemical stability</li> <li>• Flexibility and workability</li> </ul>	Monolithic, spread in 2 or 3 layers	Breathable and highly breathable membranes ( <b>TRASPIR WELD EVO 360</b> )
Polyamide (PA)	<ul style="list-style-type: none"> <li>• Variable resistance to penetration of water vapour</li> </ul>	Monolithic, spread in 2 or 3 layers	Variable diffusion membrane ( <b>CLIMA CONTROL 80</b> )
Thermoplastic polyester (TPE)	<ul style="list-style-type: none"> <li>• UV stability</li> <li>• Thermal stability</li> <li>• Mechanical resistance</li> </ul>	Monolithic, 3 layers	Breathable and highly breathable membranes ( <b>TRASPIR EVO 160</b> )
Ethylene vinyl acetate (EVA)	<ul style="list-style-type: none"> <li>• UV stability</li> <li>• Chemical stability</li> </ul>	Monolithic, spread in 2 layers	Vapour stops ( <b>VAPOR ZENIT EVO 160</b> )
Polyethylene (PE)	<ul style="list-style-type: none"> <li>• Dimensional stability</li> <li>• Chemical stability</li> </ul>	Monolithic, 2 or 3 layers	Vapour barriers ( <b>BARRIER 40</b> ), sheaths for foundation waterproofing ( <b>FLOOR RADON</b> )
Polypropylene (PP)	<ul style="list-style-type: none"> <li>• Mechanical resistance</li> <li>• Flexibility and workability</li> </ul>	Microporous Monolithic, 2 or 3 layers	Highly breathable membranes ( <b>TRASPIR 150</b> ) Vapour stops ( <b>VAPOR 150</b> )

The following polymers are used for coating or protective and support layers (non-woven fabric):

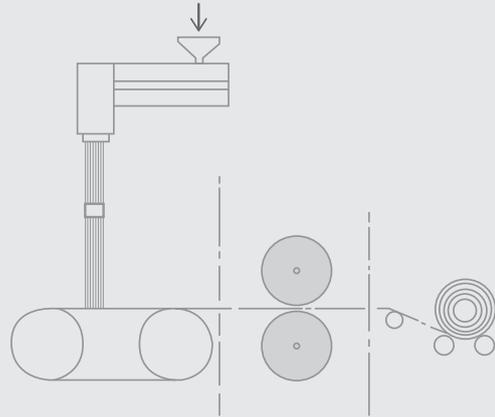
RAW MATERIAL USED FOR SUPPORT OR REINFORCING LAYER	STRENGTHS	FUNCTION
Aluminium	<ul style="list-style-type: none"> <li>• Reflective</li> <li>• Increases resistance to penetration of water vapour</li> </ul>	Coating and additive for aluminized products ( <b>BARRIER ALU 200</b> )
Polypropylene (PP)	<ul style="list-style-type: none"> <li>• Mechanical resistance</li> <li>• Slipping resistance</li> <li>• High flexibility and workability</li> </ul>	Support or protective layers for microporous or monolithic membranes
Polyester (PL)	<ul style="list-style-type: none"> <li>• Thermal stability</li> <li>• UV stability</li> <li>• Mechanical resistance</li> <li>• Elasticity</li> </ul>	Monolithic, spread in 2 layers Support for spread monolithic products ( <b>TRASPIR EVO UV 210</b> )

# PRODUCTION PROCESSES

Membranes may consist of various polymers processed using various production technologies, in order to obtain specific final performance, suitable to the chosen field of application. The three main components used in rothoblaas products are: non-woven fabric, monolithic film and microporous film.

## NON-WOVEN-FABRIC

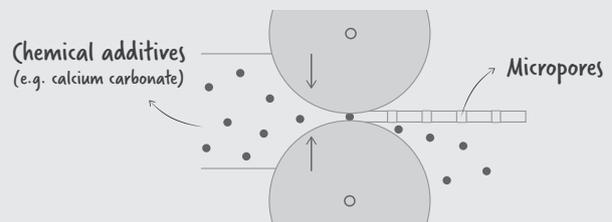
Among the various available technologies, the one most frequently used in rothoblaas solutions is Spunbound Technology. This process dissolves the polymer with an extruder and transforms it into a fibre that is deposited in a non-ordered manner on a support layer, which gives it the name "non-woven fabric". After this, the layer is subjected to a lamination process, pressed between two calendars that adjust the thickness, making it homogeneous. The fabric is then rolled and is ready for subsequent processing.



## MICROPOROUS PRODUCT

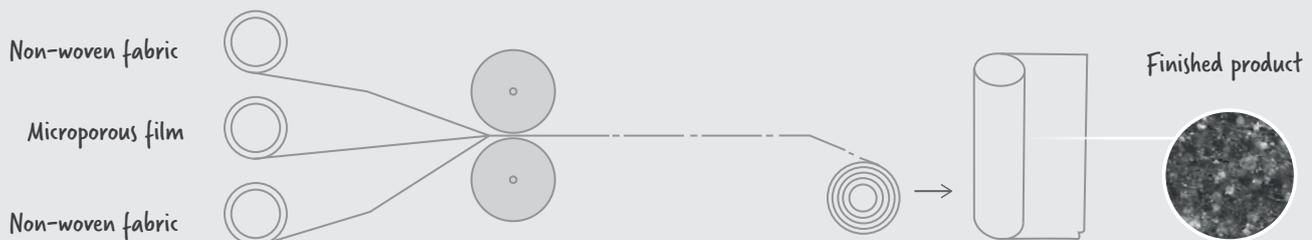
### MICROPOROUS FILM

The polymer is extruded in a thin layer with the addition of additives, microscopic elements such as calcium carbonate, to create the microporous quality during the lamination stage. This mechanical process makes the film breathable.



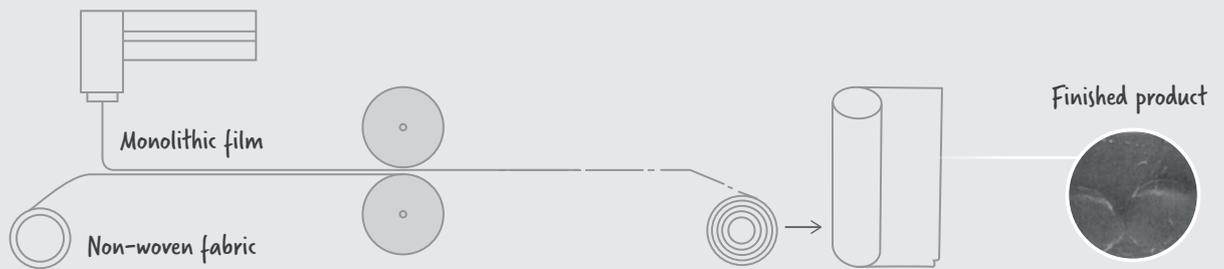
### MICROPOROUS PRODUCT

The microporous film obtained through processing is then combined with a protective non-woven fabric support, using one of three processes: calendering, gluing or ultrasonic binding.



## MONOLITHIC PRODUCT

Like with microporous products, monolithic solutions also use different production technologies. Essentially, the polymer is extruded onto a support and is then cooled. In some cases, extrusion occurs with direct overlapping of other layers, with the final product being created in just a few steps. In other cases, combination of layers occurs later, through calendering or glue.



## COMPOSITION OF DIFFERENT PRODUCT TYPES

Below are some common compositions found in rothoblaas products:

TRASPIR 150



- ① top layer: non-woven PP fabric
- ② middle layer: breathable microporous PP film
- ③ bottom layer: non-woven PP fabric

TRASPIR EVO 220



- ① top layer: non-woven PP fabric
- ② middle layer: monolithic PE breathable film
- ③ bottom layer: non-woven PP fabric

VAPORVLIES 120



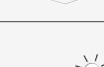
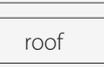
- ① top layer: vapour check PP film
- ② bottom layer: non-woven PP fabric

TRASPIR SUNTEX 150



- ① top layer: aluminium-coated non-woven PP
- ② middle layer: breathable microporous PP film
- ③ bottom layer: non-woven PP fabric

## MEMBRANE PROPERTIES

		STOPS AND BARRIERS													BREATHABLE			
		BARRIER 40 page 29	BARRIER 100 page 30	BARRIER ALU 150 page 31	BARRIER ALU 200 page 31	CLIMA CONTROL 80 page 32	VAPORVLIES 100 page 34	VAPORVLIES 120 page 35	VAPOR 110 page 36	VAPOR 140 page 37	VAPOR 150 page 38	VAPOR ZENIT EVO 160 page 40	CLIMA CONTROL 160 page 42	VAPOR 180 page 44	VAPOR 225 page 45	TRASPIR 75 page 47	TRASPIR EVO 90 page 48	TRASPIR 110 page 50
	monolithic										✓						✓	
	standard / microporous	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓		✓
	Sd variable					✓							✓					
	bituminous																	
PROPERTY	 mass per unit area [g/m <sup>2</sup> ]	110	100	130	100	80	100	121	110	140	150	160	160	180	225	75	90	112
	 water vapour transmission Sd [m]	40	107	150	200	0,2 5	26	30	5	10	13	5	0,5 5	3	4	0,02	0,02	0,02
	 maximum tensile force MD/CD [N/50 mm]	220 190	150 150	220 250	230 230	120 90	150 130	220 180	200 250	230 180	250 200	210 240	325 230	350 290	380 300	150 65	170 140	250 165
	 elongation MD/CD [%]	15 15	850 850	10 10	15 15	50 50	50 50	47 68	25 25	35 40	35 40	25 30	10 10	20 20	60 80	40 50	50 40	50 70
	 resistance to tearing MD/CD [N]	155 145	140 140	170 170	110 110	40 40	80 80	160 205	170 170	125 145	130 150	135 135	225 225	240 240	225 300	45 55	80 90	115 135
	 watertightness [class]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	W2	W1	W1
	 UV stability [months]	-	-	-	-	-	-	-	2	2	2	6	3	3	3	2	3	2
	 thermal resistance [°C]	-20 +80	-40 +80	-40 +80	-40 +80	-20 +80	-40 +80	-40 +80	-40 +80	-20 +80	-20 +80	-40 +80	-40 +80	-20 +80	-20 +80	-40 +80	-40 +100	-40 +80
	 reaction to fire [class]	E	E	B-s1, d0	E	E	E	E	E	F	E	E	E	E	E	E	B-s1, d0	E
	 recommended installation pitch [degrees °]	-	-	-	-	-	-	-	>13	>13	>13	>10	>10	>10	>10	-	-	-
USE	roof	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	
	walls	✓	✓	✓	✓	✓	✓								✓	✓	✓	
	flat roof / terrace	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓			

BREATHABLE																				MEMBRANES				
TRASPIR 115 page 51	TRASPIR 135 page 52	TRASPIR SUNTEX 150 page 53	TRASPIR 150 (150) page 54	TRASPIR 150 (150R) page 54	TRASPIR EVO 160 page 56	TRASPIR 170 page 55	TRASPIR ZENIT EVO 180 page 58	TRASPIR 190 page 60	TRASPIR SUNTEX 200 page 64	TRASPIR 205 page 61	TRASPIR EVO 220 page 62	TRASPIR 270 page 65	TRASPIR EVO 300 page 66	TRASPIR EVO 340 page 68	TRASPIR WELD EVO 360 page 70	TRASPIR 3D COAT page 74	TRASPIR ZENIT UV 210 page 79	TRASPIR EVO UV 210 page 80	TRASPIR COLOREVO UV page 82	BYTUM 400 page 87	BYTUM 750 page 88	BYTUM 1100 page 89	BYTUM BASE 3000 page 90	BYTUM SLATE 3500 page 91
					✓		✓				✓		✓	✓	✓		✓	✓	✓					
✓	✓	✓	✓	✓		✓		✓	✓	✓		✓				✓								
115	135	150	150	150	160	170	180	190	200	205	220	270	300	340	360	585	210	210	290	400	750	1100	3000	3500
0,05	0,02	0,05	0,05	0,02	0,1	0,02	0,15	0,05	0,05	0,02	0,08	0,04	0,04	0,2	0,2	0,02	0,15	0,04	0,05	50	28	152	300	230
245 125	280 190	315 250	315 250	350 210	280 220	330 230	250 250	375 305	350 190	350 250	385 275	650 800	320 200	400 320	420 490	325 225	380 420	300 200	550 475	450 370	470 370	700 440	450 400	400 300
52 57	60 75	61 66	61 66	60 75	50 60	55 80	45 60	50 60	30 70	70 90	65 90	40 60	30 35	40 40	50 65	45 70	40 45	25 25	34 37	50 60	45 50	45 55	35 40	35 40
170 190	125 135	255 270	255 270	165 175	180 200	190 230	150 150	250 300	200 200	260 330	275 310	750 550	130 140	465 550	310 280	185 195	225 210	120 120	305 350	280 280	290 320	220 230	140 140	140 140
W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1
2	2	2	2	2	4	3	4	3	3	3	4	3	permanent	4	6	3	permanent	permanent	permanent	4	4	4	8	permanent
-40 +80	-40 +80	-40 +80	-40 +80	-40 +80	-40 +100	-40 +80	-40 +100	-40 +80	-40 +80	-40 +80	-40 +80	-40 +80	-40 +120	-40 +80	-40 +100	-40 +80	-40 +80	-40 +100	-40 +100	-40 +100	-40 +100	-40 +100	-40 +100	-40 +100
E	E	E	E	E	E	E	E	E	E	E	E	E	B-s1, d0	E	E	E	E	B-s1, d0	E B-s1, d0	E	E	E	E	E
-	>13	>13	>13	>13	>13	>10	>10	>10	>10	>10	>10	>10	>10	>5	>5	>5	>10	-	-	>5	>5	>5	>2	>2
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓				✓								✓	✓	✓	✓					
					✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓

# CERTIFICATIONS AND COMPLIANCE

## SINTEF



Independent Scandinavian institute responsible for research and development relative to building construction technology. Also certifies materials, services and components for the construction sector.

TRASPIR 110 > certificate no. **20471**

## BBA (British Board of Agrément)



The British Board of Agrément (BBA) is a British organisation responsible for issuing certifications for construction products and systems, as well as providing inspection services to designers and installers.

TRASPIR 170 > certificate no. **15/5234**

## ALPES CONTROLES



French audit and inspection company responsible for safety, health and proper construction rules to guarantee durable structures. Also observes and verifies installation and proper installation instructions for materials prepared by manufacturers.

TRASPIR 270 > certificate no. **010T1501**

## QB-CSTB



French scientific and technical organisation for the construction sector. It is a public institution for technological innovation in construction and the most advanced ICT, applied to the construction sector.

TRASPIR 115 > certificate no. **13-097 E1-Sd1-TR1**

TRASPIR 150 > certificate no. **13-098 E1-Sd1-TR2**  
certificate no. **16-006 E1-Sd1-TR2**

TRASPIR SUNTEX 150 > certificate no. **13-098 E1-Sd1-TR2**

TRASPIR 190 > certificate no. **13-099 E1-Sd1-TR3**

		ITALY <b>UNI 11470</b>	GERMANY <b>ZVDH</b>	SWITZERLAND <b>SIA 232</b>	FRANCE <b>DTU 31.2</b>
<b>STOPS AND BARRIERS</b>	<b>BARRIER 40</b> page 29	D / R2	-	V.v.u.	pare-vapeur
	<b>BARRIER 100</b> page 30	D / R1	dh.	V.v.u.	pare-vapeur
	<b>BARRIER ALU 150 / 200</b> page 31	C / R2 - D / R1	dh.	V.v.u.	pare-vapeur
	<b>CLIMA CONTROL 80</b> page 32	D / R1	fv.	V.v.u.	frein-vapeur
	<b>VAPORVLIES 100</b> page 34	D / R1	dh.	V.v.u.	pare-vapeur
	<b>VAPORVLIES 120</b> page 35	D / R1	dh.	V.v.u.	pare-vapeur
	<b>VAPOR 110</b> page 36	D / R2	dh.	V.v.o / V.v.u.	frein-vapeur
	<b>VAPOR 140</b> page 37	C / R1	-	V.v.o / V.v.u.	frein-vapeur
	<b>VAPOR 150</b> page 38	B / R1	dh.	V.v.o / V.v.u.	frein-vapeur
	<b>VAPOR ZENIT EVO 160</b> page 40	B / R2	dh.	V.v.o / V.v.u.	frein-vapeur
	<b>CLIMA CONTROL 160</b> page 42	B / R2	fv.	V.v.o / V.v.u.	frein-vapeur
	<b>VAPOR 180</b> page 44	B / R3	dh.	V.v.o / V.v.u.	frein-vapeur
<b>VAPOR 225</b> page 45	A / R3	dh.	V.v.o / V.v.u.	frein-vapeur	

# MEMBRANES

		ITALY <b>UNI 11470</b>	AUSTRIA <b>Önorm B4119</b>	GERMANY <b>ZVDH</b>	SWITZERLAND <b>SIA 232</b>	FRANCE <b>CPT 3651_2</b>
<b>BREATHABLE</b>	TRASPIR 75 page 47	-	-	-	-	HPV pare-pluie
	TRASPIR EVO 90 page 48	-	-	-	-	HPV pare-pluie
	TRASPIR 110 page 50	D / R1	-	-	-	HPV pare-pluie
	TRASPIR 115 page 51	D / R2	-	-	UD EB	HPV pare-pluie
	TRASPIR 135 page 52	C / R1	-	UDB-B / USB-B	-	HPV E1-Sd1-TR2
	TRASPIR SUNTEX 150 page 53	B / R3	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR 150 / 150R page 54	B / R3 - B / R2	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR EVO 160 page 56	B / R2	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR 170 page 55	B / R2	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR ZENIT EVO 180 page 58	B / R2	UD-k RU	UDB-B / USB-B	UD EB	E1-Sd2-TR2
	TRASPIR 190 page 60	B / R3	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR3
	TRASPIR SUNTEX 200 page 64	A / R2	UD-k RU	UDB-B / USB-B	UD EB	HPV E1-Sd1-TR2
	TRASPIR 205 page 61	A / R3	UD-k RU	UDB-B / USB-B	UD EB	HPV E1-Sd1-TR2
	TRASPIR EVO 220 page 62	A / R3	UD do-s ER	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR 270 page 65	A / R3	UD-k RU	UDB-B / USB-B	UD EB	HPV E1-Sd1-TR3
	TRASPIR EVO 300 page 66	A / R1	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR EVO 340 page 68	A / R3	UD do-s ER	UDB-B / USB-B	UD EB	E1-Sd3-TR3
	TRASPIR WELD EVO 360 page 70	A / R3	UD do-s ER	UDB-A / USB-A	UD AB	E1-Sd3-TR3
	TRASPIR METAL page 74	A / R2	UD-k RU	UDB-A / USB-A	UD EB	HPV E1-Sd1-TR2
	TRASPIR ZENIT UV 210 page 79	A / R3	UD-k RU	UDB-B / USB-B	UD EB	pare-pluie E1-Sd2-TR3
TRASPIR EVO UV 210 page 80	-	-	-	-	HPV pare-pluie	
TRASPIR COLOR EVO UV page 82	-	-	-	-	pare-pluie	

		ITALY <b>UNI 11564</b>	GERMANY <b>ZVDH</b>	AUSTRIA <b>Önorm B4119</b>
<b>MEMBRANES</b>	BYTUM 400 page 87	P / SR3 / A	E1 DO PYE PV	KV Bitumenbahnen
	BYTUM 750 page 88	P / SR3 / A	E1 DO PYE PV	KV Bitumenbahnen
	BYTUM 1100 page 89	P / SR2 / A	E1 DO PYE PV	KV Bitumenbahnen
	BYTUM BASE 3000 page 90	V / SR1 / B	E1 DO PYE G	-
	BYTUM SLATE 3500 page 91	V / SR1 / B	E1 DO PYE G	-

## ITALY

**UNI 11470** = Coperture discontinue - Schermi e membrane traspiranti sintetiche - Definizione, campo di applicazione e posa in opera  
**UNI 11564** = Coperture discontinue - Teli impermeabilizzanti sottotegola bituminosi - Definizione, campo di applicazione e posa in opera

## AUSTRIA

**Önorm B4119** = Planung und Ausführung von Unterdächern und Unterspannungen:  
• **UD-k RU** = UD-k für regensichere Unterdächer  
• **UD do-s ER** = UD do-s für Unterdächer mit erhöhter Regensicherheit  
**Önorm B3661** = Abdichtungsbahnen - Unterdeck- und Unterspannbahnen für Dachdeckungen:  
• **KV Bitumenbahnen** = Kunststoffvlies Bitumenbahnen

## GERMANY

**ZVDH** = Deutsches Dachdeckerhandwerk Regelwerk:  
• **UDB** = Unterdeckbahnen A, B, C Klassen  
• **USB** = Unterspannbahnen A, B Klassen  
• **dh.** = diffusionshemmend  
• **fv.** = feuchtvariabel

## SWITZERLAND

**SIA 232** = Geneigte Dächer / Toitures inclinées:  
• **UD EB** = UD für erhöhte Beanspruchung  
• **UD AB** = UD für ausserordentliche Beanspruchung  
• **V.v.o.** = Verlegung von oben, Holraum / Fugen auf glatt und rau Untergrund  
• **V.v.u.** = Verlegung von unten, über Kopf

## FRANCE

**CPT 3651\_2** = La Cahier 3560-V2 de juin 2009 du CSTB  
**DTU 31.2** = Construction de maisons et bâtiments à ossature en bois

For more information about technical standards and international regulations, contact the rothoblaas technical office.

# STOPS AND BARRIERS

software  
myProject  
THERMAL



## STOPS AND BARRIERS

# 1

BARRIER 40	29
BARRIER 100	30
BARRIER ALU 150 / 200	31
CLIMA CONTROL 80	32
VAPORVLIES 100	34
VAPORVLIES 120	35
VAPOR 110	36
VAPOR 140	37
VAPOR 150	38
VAPOR ZENIT EVO 160	40
CLIMA CONTROL 160	42
VAPOR 180	44
VAPOR 225	45

# BARRIER 40

Air vapour barrier 40 m

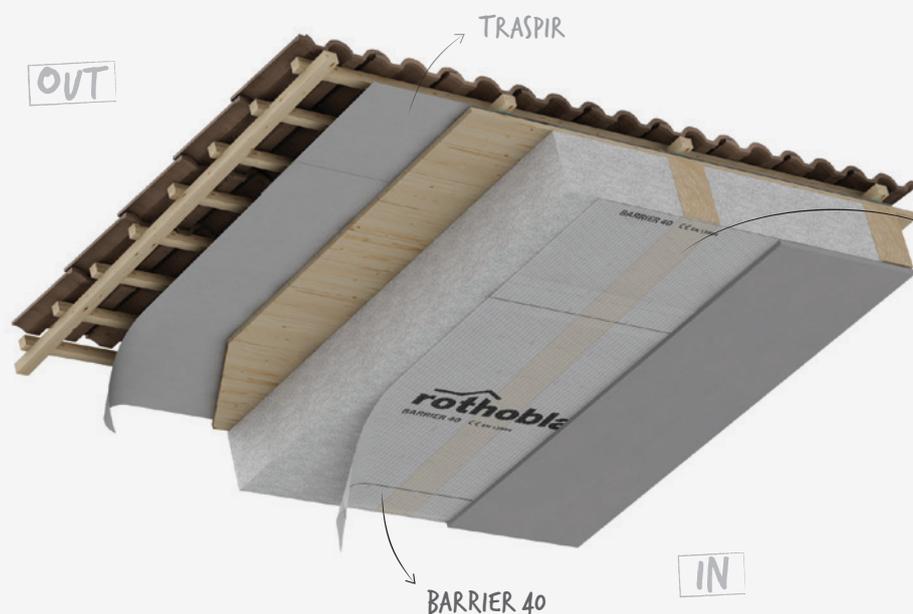
Vapour check polythene (PE) film and reinforcing grid



FR  
DTU 31.2  
pare -  
vapeur

CH  
SIA 232  
V.v.u

IT  
UNI 11470  
D/R2



Reinforcing layer for improved performance

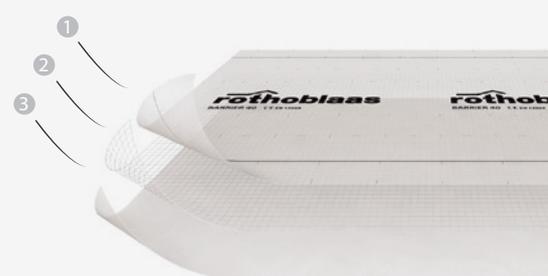
Ideal for blowing

Highly transparent to make installation easier

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	110 g/m <sup>2</sup>
Thickness	EN 1849-2	0.2 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931	40 m
Maximum tensile force MD/CD	EN 12311-2	220 / 190 N/50 mm
Elongation MD/CD	EN 12311-2	15 / 15 %
Resistance to tearing MD/CD	EN 12310-2	155 / 145 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class F
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 500 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 182000
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

## COMPOSITION



- 1 top layer: PE film
- 2 middle layer: reinforcing PE grid
- 3 bottom layer: PE film

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
BAR40	D32202	BARRIER 40	-	1.5 x 50	75	80

WHERE CAN IT  
BE APPLIED?



# BARRIER 100

4,0m

CE  
EN13984

Air vapour barrier  $S_d > 100$  m

Extruded vapour check polythene (PE) film

FR  
DTU 31.2  
pare-  
vapeur

CH  
SIA 232  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
D/R1



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	100 g/m <sup>2</sup>
Thickness	EN 1849-2	0.15 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (S <sub>d</sub> )	EN 1931	107 m
Maximum tensile force MD/CD	EN 12311-2	150 / 150 N/50 mm
Elongation MD/CD	EN 12311-2	850 / 850 %
Resistance to tearing MD/CD	EN 12310-2	140 / 140 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0.00 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 500 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 535000
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0% (class A+)

## COMPOSITION



① single layer: vapour check PE film

## CODES AND DIMENSIONS

code	ex code	description	roll [m]	H x L [m]	A [m <sup>2</sup> ]	pcs/ 
<b>BAR100</b>	D32102	BARRIER 100	1.5 x 50	1.5 x 50	75	70
<b>BAR10040</b>	D32108	BARRIER 100 4.0m	1.0 x 25	4.0 x 25	100	50

WHERE CAN IT  
BE APPLIED?



# BARRIER ALU 150/200 2,8m

B-s1, d0



Reflective air vapour barrier Sd 150 / 200 m

Vapour check polythene (PE) film and reinforcing grid with aluminium coating



Version in class B-s1, d0 (BARALU150)

BARALU200: Reflects up to 50% of heat  
BARALU150: Reflects up to 80% of heat

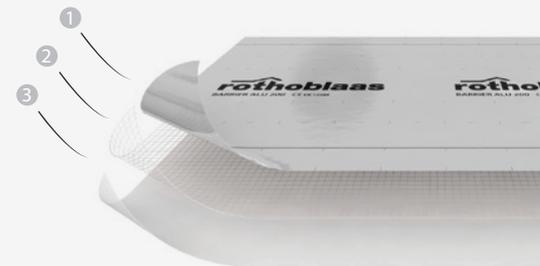
Equivalent thermal resistance 50 mm hollow space  
BARALU200:  $R_g = 0.300 \text{ m}^2\text{K/W}$  (ISO 6946)  
BARALU150:  $R_g = 0.490 \text{ m}^2\text{K/W}$  (ISO 6946)

Reinforcing layer, ideal for blowing

## TECHNICAL SPECIFICATIONS

property	standard	① BARALU200	② BARALU15028B
		value	value
Mass per unit area	EN 1849-2	100 g/m <sup>2</sup>	130 g/m <sup>2</sup>
Thickness	EN 1849-2	0.2 mm	0.2 mm
Straightness	EN 1848-2	conforming	conforming
Water vapour transmission (Sd)	EN 1931	200 m	150 m
Maximum tensile force MD/CD	EN 12311-2	230 / 230 N/50 mm	220 / 250 N/50 mm
Elongation MD/CD	EN 12311-2	15 / 15 %	10 / 10 %
Resistance to tearing MD/CD	EN 12310-2	110 / 110 N	170 / 170 N
Watertightness	EN 1928	conforming	conforming
Temperature resistance	-	-40 / +80 °C	-40 / +80 °C
Reaction to fire	EN 13501-1	class E	class B-s1,d0
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:			
• after ageing	EN 1296	conforming	conforming
• in the presence of alkalis	EN 13984	npd	npd
Reflectivity	EN 15976	50 %	80 %
Thermal conductivity (λ)	-	0.4 W/mK	0.4 W/mK
Specific heat	-	1800 J/kgK	1800 J/kgK
Density	-	500 kg/m <sup>3</sup>	approx. 650 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 1000000	approx. 750000
Joint strength	EN 12317-2	npd	npd
Impact resistance	EN 12691	npd	200 mm
VOC emissions	-	0 % (class A+)	0 % (class A+)

### COMPOSITION BARALU200



- ① top layer: aluminized PE film
- ② middle layer: reinforcing PE grid
- ③ bottom layer: PE film

NOTE: BARALU150, black bottom layer

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
① BARALU200	D34202	BARRIER ALU 200	-	1.5 x 50	75	80
② BARALU15028B	D32109	BARRIER ALU 150 2.8m BS1D0	-	2.8 x 50	140	36

WHERE CAN IT BE APPLIED?



# CLIMA CONTROL 80



EN13984

Membrane with variable diffusion

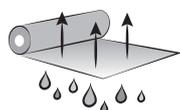
Vapour check polyamide (PA) film with polypropylene (PP) reinforcing layer

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.u.

DE  
ZVDH  
fv.

IT  
UNI 11470  
D/R1



## VARIABLE DIFFUSION

Variable resistance to vapour diffusion: maximum protection for walls and excellent security in insulation



## ENERGY RECONDITIONING

Ideal to increase energy performance for packages and solutions for reconditioning of existing structures



## TRANSPARENCY

Easy to install thanks to its transparent quality; controls the passage of water vapour based on climate and humidity

## DID YOU KNOW THAT...?

### HYGROMETRIC PROPERTIES

The special PA film gives the product the ability to adapt to the hygrometric conditions of the building. If the membrane comes into contact with high humidity levels, it transforms from a vapour barrier into a breathable product, guaranteeing that the structure remains dry.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
CLIMA80	D15402	CLIMA CONTROL 80	-	1.5 x 50	75	81

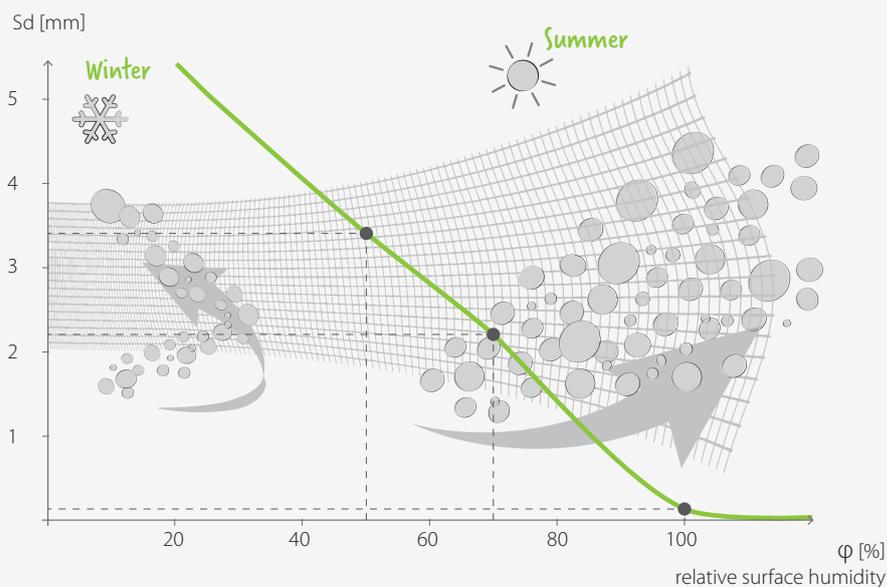
WHERE CAN IT  
BE APPLIED?





 Offers maximum security even in the case of interstitial condensation or when internal insulation is applied

 Serves as a vapour stop during the winter (low humidity) and is breathable in the summer (high humidity)



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	80 g/m <sup>2</sup>
Thickness	EN 1849-2	0.2 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 12572	0.2 - 5 m
Maximum tensile force MD/CD	EN 12311-2	120 / 90 N/50 mm
Elongation MD/CD	EN 12311-2	50 / 50 %
Resistance to tearing MD/CD	EN 12310-2	40 / 40 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.002 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• alkaline water	EN 13984	npd
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1700 J/kgK
Density	-	approx. 400 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 1000 - 25000
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

## COMPOSITION



① top layer: vapour check PA film

② bottom layer: non-woven PP fabric

# VAPORVLIES 100



EN13984

## Vapour stop control layer

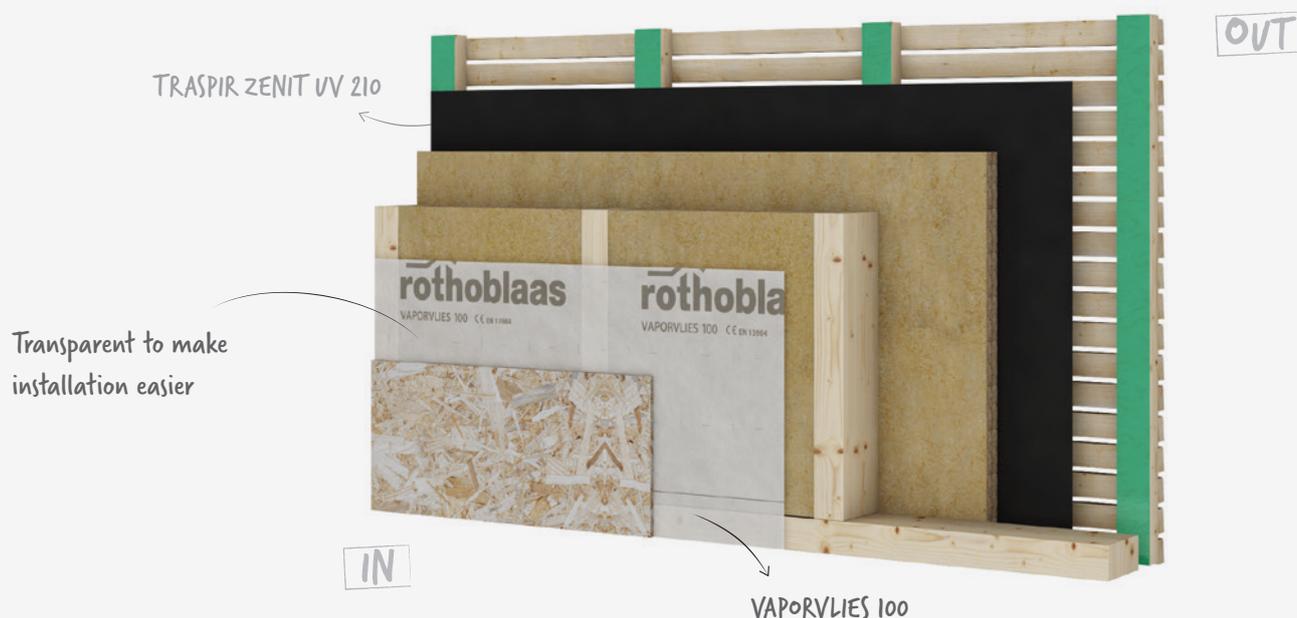
Vapour check film and polypropylene (PP) reinforcing layer

FR  
DTU 31.2  
pare-  
vapeur

CH  
SIA 232  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
D/R1



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	100 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931	26 m
Maximum tensile force MD/CD	EN 12311-2	150 / 130 N/50 mm
Elongation MD/CD	EN 12311-2	50 / 50 %
Resistance to tearing MD/CD	EN 12310-2	80 / 80 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 290 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 86700
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

## COMPOSITION



- 1 top layer: vapour check PP film
- 2 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/roll
VV100	D11202	VAPORVLIES 100	-	1.5 x 100	150	36

WHERE CAN IT  
BE APPLIED?



# VAPORVLIES 120

3,0m

**CE**  
 EN13984

Vapour stop control layer

Vapour check film and polypropylene (PP) reinforcing layer

 FR  
 DTU 31.2  
 pare-  
 vapeur

 CH  
 SIA 232  
 V.v.u.

 DE  
 ZVDH  
 dh.

 IT  
 UNI 11470  
 D/R1

Transparent  
to make installation easier

Also available in  
3 meter width



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	121 g/m <sup>2</sup>
Thickness	EN 1849-2	0.4 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931	30 m
Maximum tensile force MD/CD	EN 12311-2	220 / 180 N/50 mm
Elongation MD/CD	EN 12311-2	47 / 68 %
Resistance to tearing MD/CD	EN 12310-2	160 / 205 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0.00 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 290 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 75000
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

## COMPOSITION



- 1 top layer: vapour check PP film
- 2 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>VV120</b>	D11502	VAPORVLIES 120	-	1.5 x 50	75	36
<b>VV12030</b>	D11508	VAPORVLIES 120 3.0m	-	3.0 x 50	150	30

WHERE CAN IT  
BE APPLIED?



# VAPOR 110



EN13984

## Vapour stop control layer

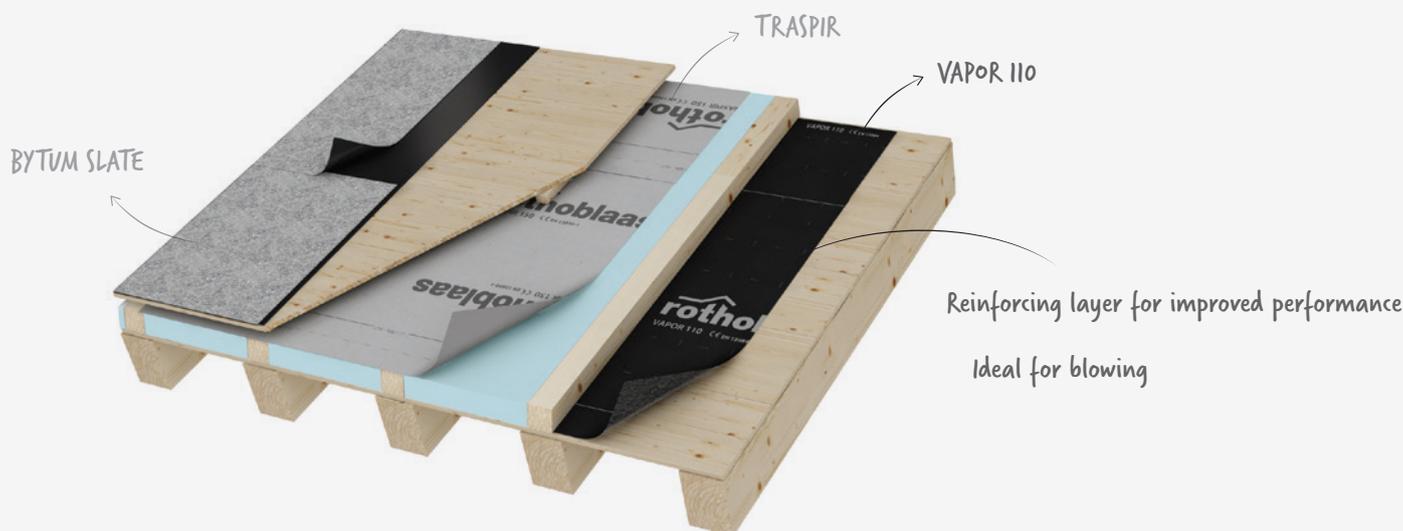
Vapour check polyethylene (PE) film with polypropylene (PP) reinforcing layer and reinforcing grid

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
D/R2



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	110 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	5 m
Maximum tensile force MD/CD	EN 12311-1	200 / 250 N/50 mm
Elongation MD/CD	EN 12311-1	25 / 25 %
Resistance to tearing MD/CD	EN 12310-1	170 / 170 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h 50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 370 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 16700
Recommended installation pitch	-	> 13°
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: vapour check PE film
- 2 reinforcing layer: reinforcing PE grid
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
V110	D11802	VAPOR 110	-	1.5 x 50	75	36

WHERE CAN IT  
BE APPLIED?



# VAPOR 140

## Vapour stop control layer

Vapour check film and polypropylene (PP) protective layers



EN13984

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

IT  
UNI 11470  
C/R1



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	140 g/m <sup>2</sup>
Thickness	EN 1849-2	0.4 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	10 m
Maximum tensile force MD/CD	EN 12311-1	230 / 180 N/50 mm
Elongation MD/CD	EN 12311-1	35 / 40 %
Resistance to tearing MD/CD	EN 12310-1	125 / 145 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class F
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 25000
Recommended installation pitch	-	> 13°
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
V140	D13302	VAPOR 140	-	1.5 x 50	75	30

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: vapour check PP film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT  
BE APPLIED?



# VAPOR 150



EN13984

## Vapour stop control layer

Vapour check film and polypropylene (PP) protective layers

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
B/R1



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	13 m
Maximum tensile force MD/CD	EN 12311-1	250 / 200 N/50 mm
Elongation MD/CD	EN 12311-1	35 / 40 %
Resistance to tearing MD/CD	EN 12310-1	130 / 150 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 26000
Recommended installation pitch	-	> 13°
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: vapour check PP film
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
V150	D13602	VAPOR 150	-	1.5 x 50	75	30
VTT150	D13604	VAPOR 150TT	TT	1.5 x 50	75	30

WHERE CAN IT  
BE APPLIED?





rothoblaas  
VAPOR 150 CE EN 13859-1/2

> 30% 16,7%

0% - 16,7%

# VAPOR ZENIT EVO 160



EN13984

## Monolithic vapour stop membrane

Monolithic ethyl vinyl acetate (EVA) film applied to polyester (PL) reinforcing layer

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

DE  
ZVDH  
dh.

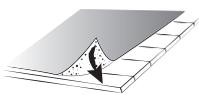
IT  
UNI 11470  
B/R2



life long

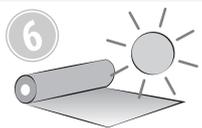
### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### ADHERENCE

The bottom support fabric gives the membrane excellent grip on the boarding during application



### 6 MONTH UV STABILITY

6 month resistance to UV rays with full exposure to radiation and no protection

## DID YOU KNOW THAT...?

### COPOLYMER MIX

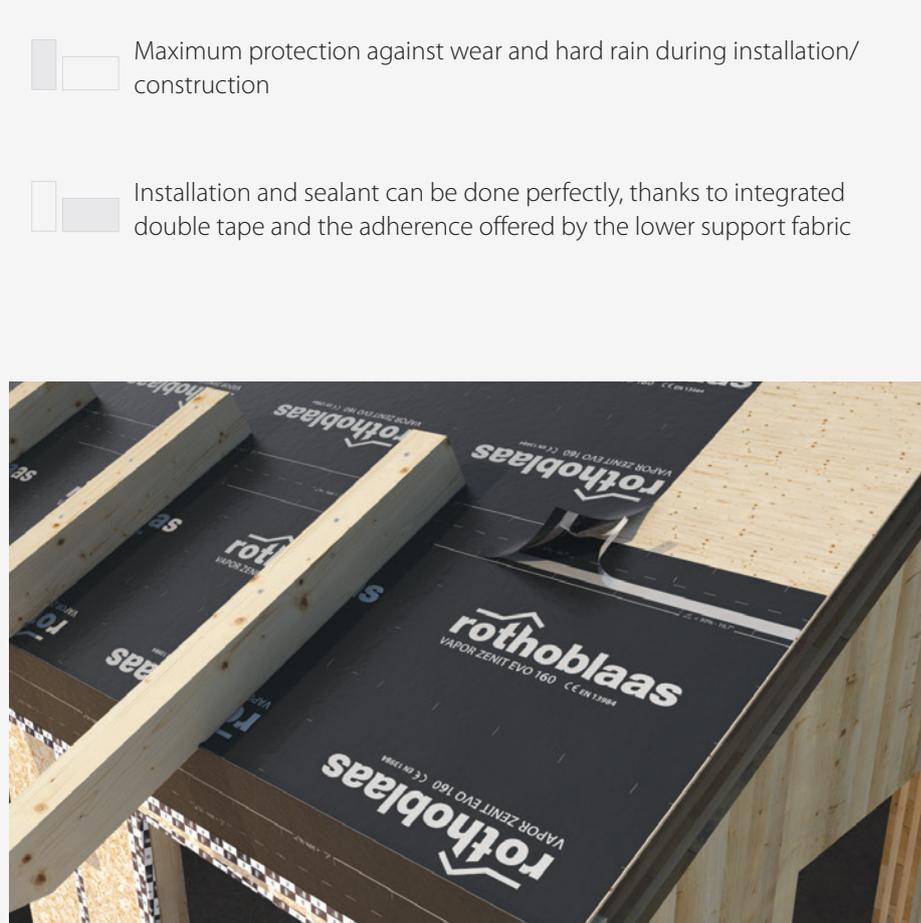
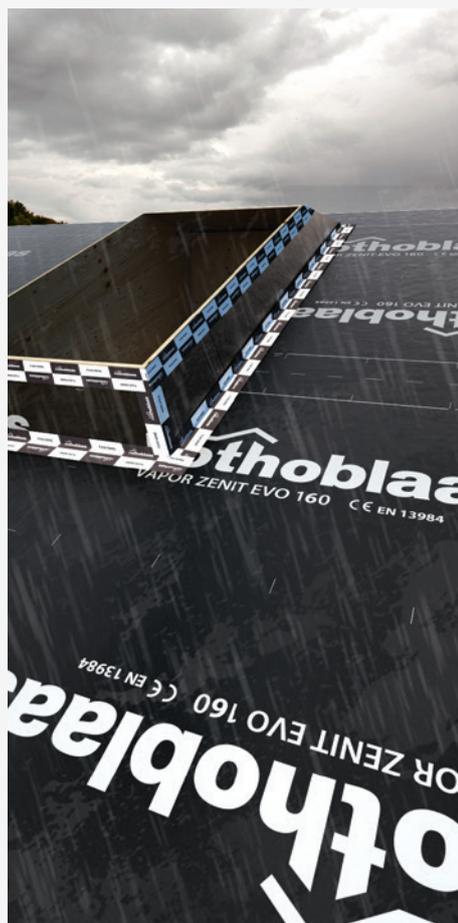
The vapour check EVA film is made of a special copolymer mix: highly water repellent and stable against chemical attacks deriving from the substances used in processing or from acid rain. The product is the first reliable protective layer for roofing during construction.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
VTTEV0160	D18404	VAPOR ZENIT EVO 160 TT	TT	1.5 x 50	75	30

WHERE CAN IT  
BE APPLIED?





 Maximum protection against wear and hard rain during installation/construction

 Installation and sealant can be done perfectly, thanks to integrated double tape and the adherence offered by the lower support fabric

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	5 m
Maximum tensile force MD/CD	EN 12311-1	210 / 240 N/50 mm
Elongation MD/CD	EN 12311-1	25 / 30 %
Resistance to tearing MD/CD	EN 12310-1	135 / 135 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 500 cm
UV resistance *	EN 13859-1	6 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1300 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 8400
Recommended installation pitch	-	> 10°
Joint strength	EN 12317-2	> 200 N/50 mm
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



① top layer: vapour check EVA film

② reinforcing layer: PL fabric

# CLIMA CONTROL 160



## Membrane with variable diffusion

Vapour check polyamide (PA) film with double polypropylene (PP) reinforcing layer and reinforcing grid



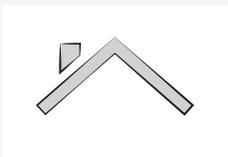
### VARIABLE DIFFUSION

Variable resistance to vapour diffusion: maximum protection for walls and excellent security in insulation



### ENERGY RECONDITIONING

Ideal to increase energy performance for packages and solutions for reconditioning of existing structures



### APPLICATION ON ROOFS

Thanks to the layers of coating and its mass per unit area, it is suitable for installation to cover boarding

## DID YOU KNOW THAT...?

### HYGROMETRIC PROPERTIES

The special PA film gives the product the ability to adapt to the hygrometric conditions of the building. If the membrane comes into contact with high humidity levels, it transforms from a vapour barrier into a breathable product, guaranteeing that the structure remains dry.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
CLIMATT160	D15412	CLIMA CONTROL 160 TT	TT	1.5 x 50	75	30

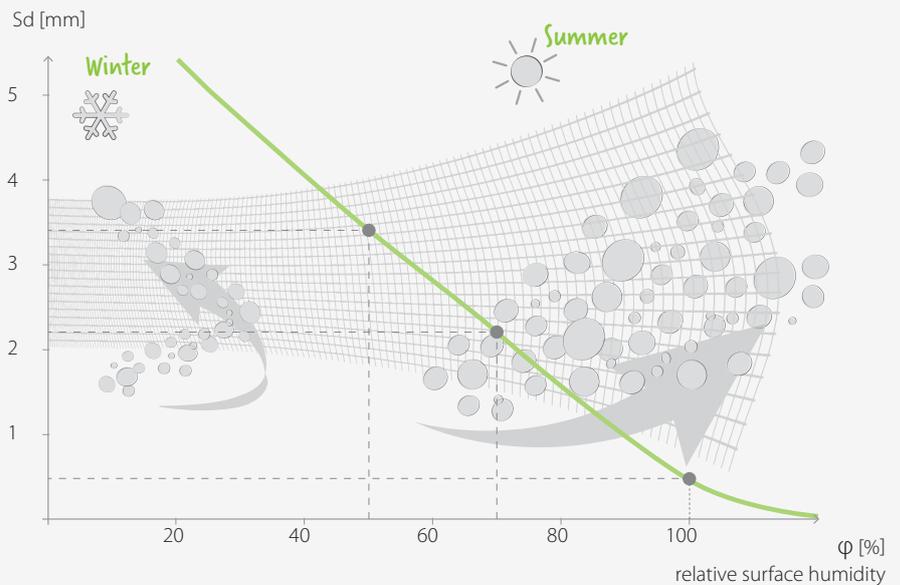
WHERE CAN IT BE APPLIED?





 Protects the building during construction, releasing excess humidity. Serves as a vapour stop when work is complete

 Is breathable when internal relative humidity is too high, and serves as a vapour stop when internal humidity is at suitable levels



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931	0.5 - 5 m
Maximum tensile force MD/CD	EN 12311-2	325 / 230 N/50 mm
Elongation MD/CD	EN 12311-2	10 / 10 %
Resistance to tearing MD/CD	EN 12310-2	225 / 225 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0.00 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	320 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 1000 - 10000
Recommended installation pitch	-	> 10°
Joint strength	EN 12317-2	> 200 N/50 mm
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 reinforcing layer: reinforcing PE grid
- 3 middle layer: vapour check PA film
- 4 bottom layer: non-woven PP fabric

# VAPOR 180



EN13984

## Vapour stop control layer

Vapour check film and polypropylene (PP) protective layers with reinforcing grid

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
B/R3



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	180 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	3 m
Maximum tensile force MD/CD	EN 12311-1	350 / 290 N/50 mm
Elongation MD/CD	EN 12311-1	20 / 20 %
Resistance to tearing MD/CD	EN 12310-1	240 / 240 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 280 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 6700
Recommended installation pitch	-	> 10°
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 reinforcing layer: reinforcing PP grid
- 3 middle layer: vapour check PP film
- 4 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
V180	D14202	VAPOR 180	-	1.5 x 50	75	25
VTT180	D14204	VAPOR 180 TT	TT	1.5 x 50	75	25

WHERE CAN IT  
BE APPLIED?



# VAPOR 225

## Vapour stop control layer

Vapour check film and polypropylene (PP) protective layers



EN13984

FR  
DTU 31.2  
frein-  
vapeur

CH  
SIA 232  
V.v.o.  
V.v.u.

DE  
ZVDH  
dh.

IT  
UNI 11470  
A/R3



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	225 g/m <sup>2</sup>
Thickness	EN 1849-2	0.8 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	4 m
Maximum tensile force MD/CD	EN 12311-1	380 / 300 N/50 mm
Elongation MD/CD	EN 12311-1	60 / 80 %
Resistance to tearing MD/CD	EN 12310-1	225 / 300 N
Watertightness	EN 1928	conforming
Water column	EN 20811	> 500 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
Water vapour resistance:		
• after ageing	EN 1296	conforming
• in the presence of alkalis	EN 13984	npd
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 250 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 5000
Recommended installation pitch	-	> 10°
Joint strength	EN 12317-2	npd
Impact resistance	EN 12691	npd
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: vapour check PP film
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
V225	D14602	VAPOR 225	-	1.5 x 50	75	20
VTT225	D14604	VAPOR 225 TT	TT	1.5 x 50	75	20

WHERE CAN IT  
BE APPLIED?



# BREATHABLE

software  
myProject  
THERMAL



## BREATHABLE

# 2

TRASPIR 75	47
TRASPIR EVO 90	48
TRASPIR 110	50
TRASPIR 115	51
TRASPIR 135	52
TRASPIR SUNTEX 150	53
TRASPIR 150	54
TRASPIR 170	55
TRASPIR EVO 160	56
TRASPIR ZENIT EVO 180	58
TRASPIR 190	60
TRASPIR 205	61
TRASPIR EVO 220	62
TRASPIR SUNTEX 200	64
TRASPIR 270	65
TRASPIR EVO 300	66
TRASPIR EVO 340	68
TRASPIR WELD EVO 360	70
TRASPIR METAL	74
TRASPIR ZENIT UV 210	79
TRASPIR EVO UV 210	80
TRASPIR COLOR EVO UV	82

# TRASPIR 75

Highly breathable membrane for walls

Microporous film and polypropylene (PP) protective layers



FR  
CPT 3651\_2  
HPV  
pare-pluie



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	75 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force MD/CD	EN 12311-1	150 / 65 N/50 mm
Elongation MD/CD	EN 12311-1	40 / 50 %
Resistance to tearing MD/CD	EN 12310-1	45 / 55 N
Watertightness	EN 1928	class W2
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	120 / 52 N/50 mm
• watertightness	EN 13859-1	class W2
• elongation MD/CD	EN 13859-1	24 / 33 %
Flexibility at low temperature	EN 1109	-20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 250 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 67
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
T75	D21102	TRASPIR 75	-	1.5 x 100	150	25

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT  
BE APPLIED?



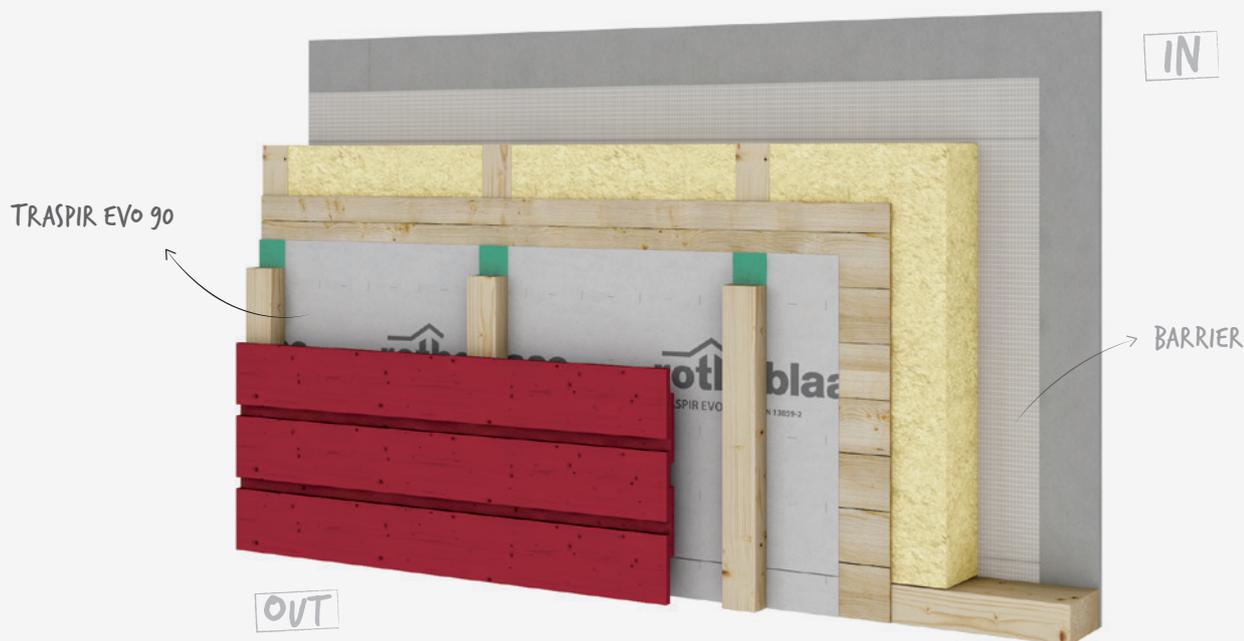
# TRASPIR EVO 90

3,0m

B-s1, d0

**CE**  
 EN13859-1/2

Highly breathable membrane, class B-s1, d0  
 Film made of special mix and polyester (PL) reinforcing layer

 FR  
 CPT 3651\_2  
 HPV  
 pare-pluie


## SECURITY

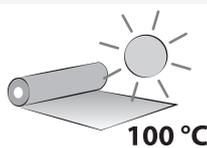
High watertightness and excellent weather resistance thanks to the special extruded mix



B-s1, d0

## B-s1, d0

Flame retardant certification, Euroclass reaction to fire B-s1, d0 based on EN 13501-1



100 °C

## THERMAL STABILITY

The combination between polyester and the special membrane provide high thermal stability, up to +100 °C

## DID YOU KNOW THAT...?

### NON-FLAMMABLE

Thanks to the special chemical composition that is flame retardant, it is suitable for use in applications on facades in direct contact with the ventilation chamber, or in cases in which the product is visible in internal environments.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TEV090B	D42402	TRASPIR EVO 90 BS1D0	-	1.5 x 50	75	28
TEV09030B	D42407	TRASPIR EVO 90 3.0m BS1D0	-	3.0 x 50	150	15

WHERE CAN IT  
BE APPLIED?





Reaction to fire certification ensures efficacy in ventilated facades in direct contact with the air chamber



3.0 metre version ideal for frame walls prefabricated in the plant



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	90 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force MD/CD	EN 12311-1	170 / 140 N/50 mm
Elongation MD/CD	EN 12311-1	50 / 40 %
Resistance to tearing MD/CD	EN 12310-1	80 / 90 N
Watertightness	EN 1928	class W1
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	- 40 / +100 °C
Reaction to fire	EN 13501-1	class B-s1,d0
Resistance to penetration of air	EN 12114	< 0.1 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	128 / 105 N/50mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	38 / 30 %
Flexibility at low temperature	EN 1109	- 30 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.3 W/mk
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 67
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 bottom layer: breathable functional membrane

# TRASPIR 110

Highly breathable membranes

Microporous film and polypropylene (PP) protective layers



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	112 g/m <sup>2</sup>
Thickness	EN 1849-2	0.4 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force	EN 12311-1	250 / 165 N/50 mm
Elongation	EN 12311-1	50 / 70 %
Nail tear strength	EN 12310-1	115 / 135 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	220 / 145 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 60 %
Flexibility at low temperature	EN 1109	-30 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 264 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 50
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T110</b>	D21502	TRASPIR 110	-	1.5 x 50	75	36

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT BE APPLIED?



# TRASPIR 115

3,0m



Highly breathable membranes

Microporous film and polypropylene (PP) protective layers

FR  
CPT 3651\_2  
HPV  
pare-pluie

CH  
SIA 232  
UD EB

IT  
UNI 11470  
D/R2



TRASPIR 115  
QB-CSTB certification

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	115 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.05 m
Maximum tensile force	EN 12311-1	245 / 125 N/50 mm
Elongation	EN 12311-1	52 / 57 %
Nail tear strength	EN 12310-1	170 / 190 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	235 / 115 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 43 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-1.3 / 0.9 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 160
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
T11530	D21808	TRASPIR 115 3.0m	-	3.0 x 50	150	36

WHERE CAN IT  
BE APPLIED?



# TRASPIR 135

Highly breathable membranes

Microporous film and polypropylene (PP) protective layers



FR  
CPT 3651\_2  
HPV  
E1-Sd1-TR2

DE  
ZVDH  
UDB-B  
USB-B

IT  
UNI 11470  
C/R1



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	135 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force MD/CD	EN 12311-1	280 / 190 N/50 mm
Elongation MD/CD	EN 12311-1	60 / 75 %
Resistance to tearing MD/CD	EN 12310-1	125 / 135 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 250 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.05 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	250 / 160 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 50 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	1 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 225 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 33
Recommended installation pitch	-	> 13°
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T135</b>	D23302	TRASPIR 135	-	1.5 x 50	75	28

WHERE CAN IT  
BE APPLIED?



# TRASPIR SUNTEX 150



## Reflective highly breathable membranes

Microporous film and polypropylene (PP) protective layers with plasma aluminized treatment



Reflects up to 70% of heat

Equivalent thermal resistance hollow space  
50 mm air:  $R_g = 0.404 \text{ m}^2\text{K/W}$  (ISO 6946)

Plasma aluminized (durability)



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.05 m
Maximum tensile force MD/CD	EN 12311-1	315 / 250 N/50 mm
Elongation MD/CD	EN 12311-1	61 / 66 %
Resistance to tearing MD/CD	EN 12310-1	255 / 270 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	2 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	295 / 225 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	45 / 47 %
Reflectivity	EN 15976	70 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-0.6 / 0.5 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 100
Recommended installation pitch	-	> 13°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>TSUN150</b>	D42632	TRASPIR SUNTEX 150	-	1.5 x 50	75	30

## COMPOSITION



- 1 top layer: aluminum-coated non-woven PP
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

code **SUN75** (D52514)  
SUN BAND  
page 121

measure: 75 mm x 20 m  
pcs/box 8



WHERE CAN IT  
BE APPLIED?



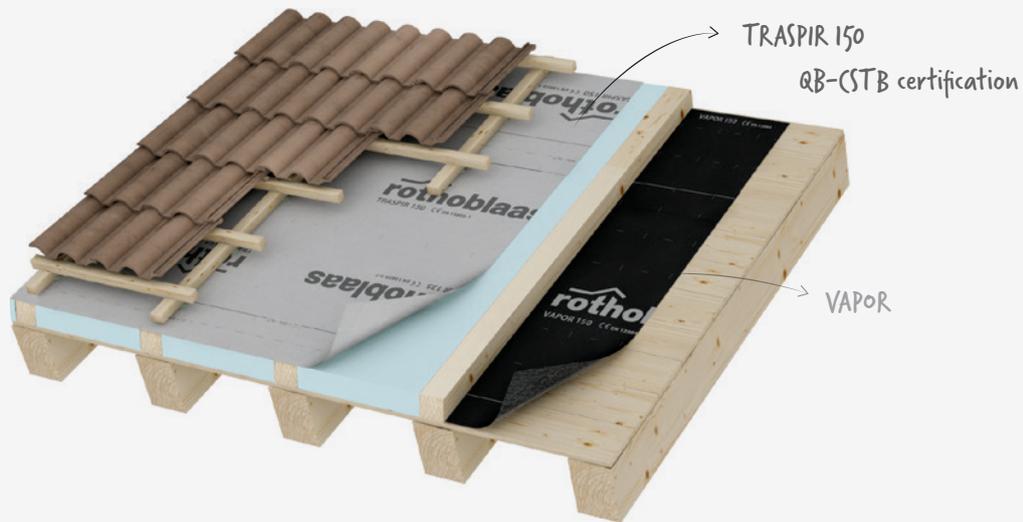
# TRASPIR 150

3,0m



Highly breathable membranes

Microporous film and polypropylene (PP) protective layers



## TECHNICAL SPECIFICATIONS

property	standard	1 150	2 150R
		value	value
Maximum tensile force class (Italy)	UNI 11470	R3	R2
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>	150 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm	0.7 mm
Straightness	EN 1848-2	conforming	conforming
Water vapour transmission (Sd)	EN 1931	0.05 m	0.02 m
Maximum tensile force MD/CD	EN 12311-1	315 / 250 N/50 mm	350 / 210 N/50 mm
Elongation MD/CD	EN 12311-1	61 / 66 %	60 / 75 %
Resistance to tearing MD/CD	EN 12310-1	255 / 270 N	165 / 175 N
Watertightness	EN 1928	class W1	class W1
Water column	EN 20811	> 300 cm	> 250 cm
UV resistance *	EN 13859-1	2 months	2 months
Temperature resistance	-	-40 / +80 °C	-40 / +80 °C
Reaction to fire	EN 13501-1	class E	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h 50Pa	< 0.04 m <sup>3</sup> /m <sup>2</sup> h 50Pa
After ageing:			
• maximum tensile force MD/CD	EN 13859-1	295 / 225 N/50 mm	320 / 180 N/50 mm
• watertightness	EN 13859-1	class W1	class W1
• elongation MD/CD	EN 13859-1	45 / 47 %	40 / 50 %
Flexibility at low temperature	EN 1109	-40 °C	-40 °C
Dimensional stability	EN 1107-2	-0.6 / 0.5 %	1 %
Thermal conductivity (λ)	-	0.3 W/mK	0.3 W/mK
Specific heat	-	1800 J/kgK	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 215 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 100	approx. 40
Recommended installation pitch	-	> 13°	> 13°
Driving rain test	TU Berlin	passed	passed
VOC emissions	-	0 % (class A+)	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
1 T150	D23502	TRASPIR 150	-	1.5 x 50	75	30
1 TTT150	D23504	TRASPIR 150 TT	TT	1.5 x 50	75	30
1 T15030	D23508	TRASPIR 150 3.0m	-	3.0 x 50	150	30
2 T150R	D23602	TRASPIR 150 R2	-	1.5 x 50	75	25
2 TTT150R	D23604	TRASPIR 150 TT R2	TT	1.5 x 50	75	25

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT BE APPLIED?



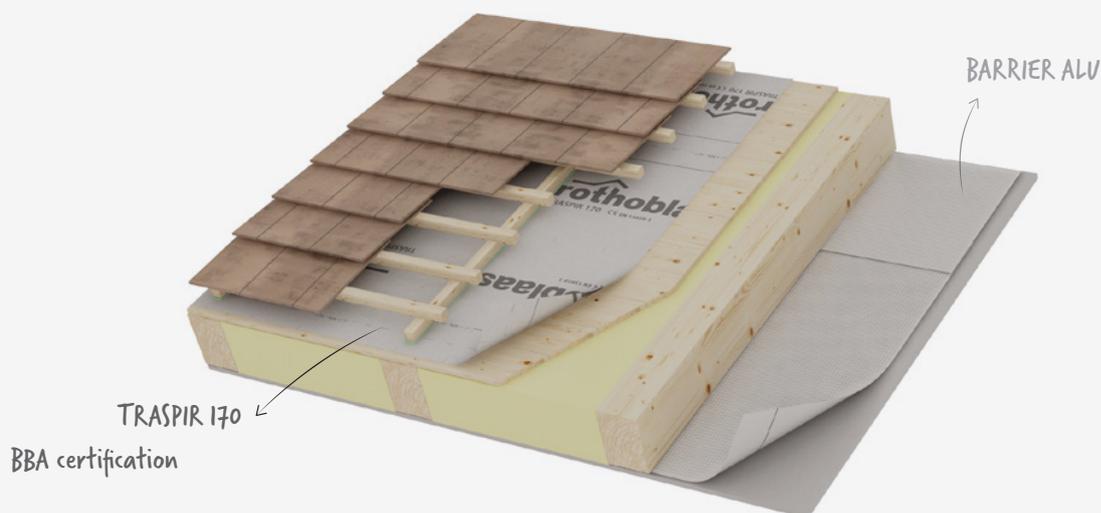
# TRASPIR 170



Highly breathable membranes

Microporous film and polypropylene (PP) protective layers

AT Önorm B4119 UD-k RU	FR CPT 3651_2 HPV E1-Sd1-TR2	CH SIA 232 UD EB	DE ZVDH UDB-A USB-A	IT UNI 11470 B/R2
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## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	170 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force MD/CD	EN 12311-1	330 / 230 N/50 mm
Elongation MD/CD	EN 12311-1	55 / 80 %
Resistance to tearing MD/CD	EN 12310-1	190 / 230 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	290 / 200 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	45 / 65 %
Flexibility at low temperature	EN 1109	-20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 280 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 33
Recommended installation pitch	-	> 10°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T170</b>	D23802	TRASPIR 170	-	1.5 x 50	75	25
<b>TTT170</b>	D23804	TRASPIR 170 TT	TT	1.5 x 50	75	25

WHERE CAN IT BE APPLIED?



# TRASPIR EVO 160



EN13859-1

## Monolithic highly breathable film

Monolithic elastomer (PE) film, extruded between two polypropylene (PP) protective layers

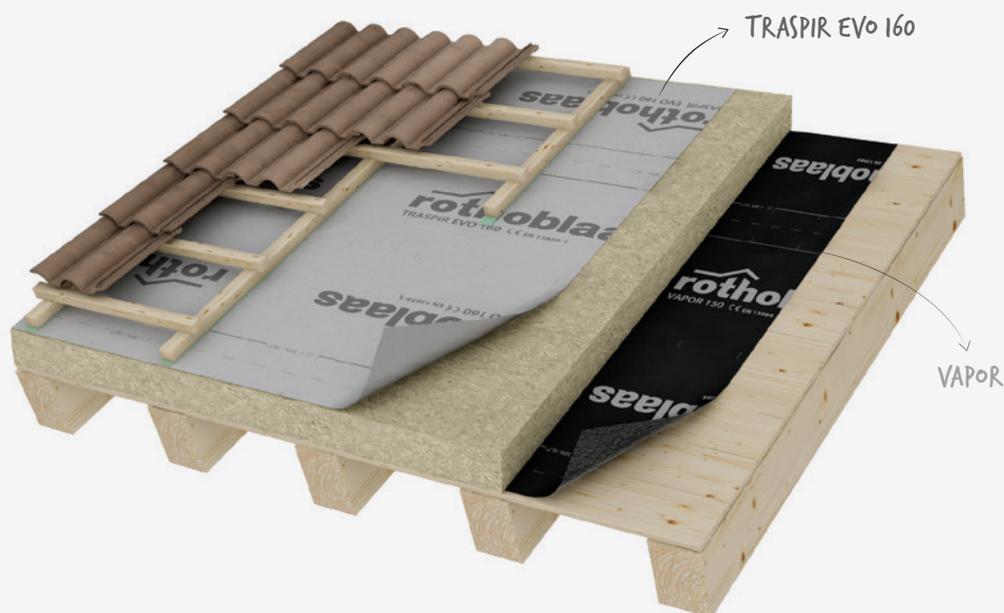
AT  
Önorm B4119  
UD-k RU

FR  
CPT 3651\_2  
HPV  
E1-Sd1-TR2

CH  
SIA 232  
UD EB

DE  
ZVDH  
UDB-A  
USB-A

IT  
UNI 11470  
B/R2



life long

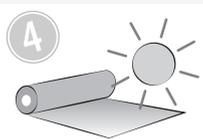
### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### SECURITY

High watertightness and excellent weather resistance thanks to the structural continuity of the monolithic film



### 4 MONTH UV STABILITY

4 month resistance to UV rays with full exposure to radiation and no protection

## DID YOU KNOW THAT...?

### MONOLITHIC FILM

The monolithic functional membrane guarantees breathability, thanks to a chemical reaction, rather than a micro perforation process as seen in microporous products.

This means the layer is continuous and homogeneous, offering a complete barrier against the passage of water.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTEV0160	D42504	TRASPIR EVO 160 TT	TT	1.5 x 50	75	30

WHERE CAN IT  
BE APPLIED?





Placed on the cool side of insulation, it guarantees watertightness and wind proofing



High protection against heavy rain during temporary exposure to weather during construction



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.1 m
Maximum tensile force MD/CD	EN 12311-1	280 / 220 N/50 mm
Elongation MD/CD	EN 12311-1	50 / 60 %
Resistance to tearing MD/CD	EN 12310-1	180 / 200 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 500 cm
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	260 / 200 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 50 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 370 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 160
Recommended installation pitch	-	> 13°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 200 N/50 mm

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: monolithic PE breathable film
- 3 bottom layer: non-woven PP fabric

# TRASPIR ZENIT EVO 180



EN13859-1

## Monolithic breathable film

Monolithic thermoplastic polyurethane (PU) film, applied to polyester (PL) reinforcing layer

AT  
Önorm B4119  
UD-k RU

FR  
CPT 3651\_2  
E1-5d2-TR2

CH  
SIA 232  
UD EB

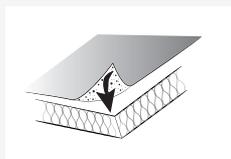
IT  
UNI 11470  
B/R2



life long

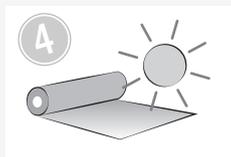
### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### ADHERENCE

The bottom support fabric gives the membrane excellent grip on the insulation panels during application



### 4 MONTH UV STABILITY

4 month resistance to UV rays with full exposure to radiation and no protection

## DID YOU KNOW THAT...?

### THERMOPLASTIC POLYURETHANE

Thanks to its thermal stability and permeance to water vapour, this material produces a next generation breathable membrane on the cutting edge. Plus, this polymer is more chemically stable when exposed to the aggressive substances used during processing, as well as acid rain.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTEV0180	D28304	TRASPIR ZENIT EVO 180 TT	TT	1.5 x 50	75	30

WHERE CAN IT  
BE APPLIED?





 Easy installation even at high pitches, thanks to the adherence provided by the lower support fabric

 Perfect installation and sealing thanks to the integrated double tape. Monolithic film ensures excellent durability



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	180 g/m <sup>2</sup>
Thickness	EN 1849-2	0.8 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.15 m
Maximum tensile force MD/CD	EN 12311-1	250 / 250 N/50 mm
Elongation MD/CD	EN 12311-1	45 / 60 %
Resistance to tearing MD/CD	EN 12310-1	150 / 150 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	230 / 230 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 55 %
Flexibility at low temperature	EN 1109	- 30 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1300 J/kgK
Density	-	approx. 225 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 180
Recommended installation pitch	-	> 10°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 200 N/50 mm

\* for more indications, see page 19

## COMPOSITION



- ① top layer: monolithic PU breathable film
- ② middle layer: PL fabric

# TRASPIR 190

Highly breathable membranes

Microporous film and polypropylene (PP) protective layers



AT  
Önorm B4119  
UD-k RU

FR  
CPT 3651\_2  
HPV  
E1-Sd1-TR3

CH  
SIA 232  
UD EB

DE  
ZVDH  
UDB-A  
USB-A

IT  
UNI 11470  
B/R3



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	190 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.05 m
Maximum tensile force MD/CD	EN 12311-1	375 / 305 N/50 mm
Elongation MD/CD	EN 12311-1	50 / 60 %
Resistance to tearing MD/CD	EN 12310-1	250 / 300 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	350 / 280 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	40 / 42 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-0.6 / 0.5 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 280 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 80
Recommended installation pitch	-	> 10°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T190</b>	D24202	TRASPIR 190	-	1.5 x 50	75	25
<b>TTT190</b>	D24204	TRASPIR 190 TT	TT	1.5 x 50	75	25

Available by request with H = 3.0 m (code **T19030**)

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT  
BE APPLIED?



# TRASPIR 205

Highly breathable membranes

Microporous film and polypropylene (PP) protective layers



EN13859-1

AT  
Önorm B4119  
UD-k RU

FR  
CPT 3651\_2  
HPV  
E1-Sd1-TR2

CH  
SIA 232  
UD EB

DE  
ZVDH  
UDB-B  
USB-B

IT  
UNI 11470  
A/R3



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	205 g/m <sup>2</sup>
Thickness	EN 1849-2	0.8 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.02 m
Maximum tensile force MD/CD	EN 12311-1	350 / 250 N/50 mm
Elongation MD/CD	EN 12311-1	70 / 90 %
Resistance to tearing MD/CD	EN 12310-1	260 / 330 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	- 40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	290 / 210 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	55 / 65 %
Flexibility at low temperature	EN 1109	- 20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 240 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 30
Recommended installation pitch	-	> 10°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T205</b>	D24402	TRASPIR 205	-	1.5 x 50	75	25
<b>TTT205</b>	D24404	TRASPIR 205 TT	TT	1.5 x 50	75	25

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: PP breathable film
- 3 bottom layer: non-woven PP fabric

WHERE CAN IT  
BE APPLIED?



# TRASPIR EVO 220



EN13859-1/2

## Monolithic highly breathable film

Monolithic elastomer (PE) film, extruded between two polypropylene (PP) protective layers

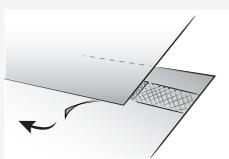
AT Önorm B4119 UD do-s ER	FR CPT 3651_2 HPV E1-Sd1-TR2	CH SIA 232 UD EB	DE ZVDH UDB-A USB-A	IT UNI 11470 A/R3
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life long

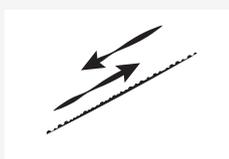
### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### SUPER TAPE

Greater tape width to guarantee excellent resistance to heavy rain, approved by ÖNORM B 4119



### ANTISLIP

Rough surface for excellent sliding resistance thanks to the double polypropylene coating

## DID YOU KNOW THAT...?

### HIGH MASS PER UNIT AREA

The performance and mass per unit area of this monolithic membrane allow it to meet even the most severe national standards - classified as one of the highest performing membranes.

(see "Certifications and compliance" on page 27)

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTEV0220	D42514	TRASPIR EVO 220 TT	TT	1.5 x 50	75	20

WHERE CAN IT  
BE APPLIED?





 The wider width integrated double tape offers the highest possible protection against heavy rain

 During construction, the monolithic film on the tarp guarantees excellent durability, even when exposed to UV rays



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	220 g/m <sup>2</sup>
Thickness	EN 1849-2	1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.08 m
Maximum tensile force MD/CD	EN 12311-1	385 / 275 N/50 mm
Elongation MD/CD	EN 12311-1	65 / 90 %
Resistance to tearing MD/CD	EN 12310-1	275 / 310 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 500 cm
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	315 / 225 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	36 / 51 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	0 / 0.5 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 220 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 80
Recommended installation pitch	-	> 10°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 250 N/50 mm

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: monolithic PE breathable film
- 3 bottom layer: non-woven PP fabric

# TRASPIR SUNTEX 200



Reflective highly breathable membranes

Microporous film and polypropylene (PP) protective layers with aluminized coating



Double tape

Reflects up to 95% of heat

Equivalent thermal resistance

air hollow space 50 mm:  $R_g = 0.731 \text{ m}^2\text{K/W}$  (ISO 6946)



## TECHNICAL SPECIFICATIONS

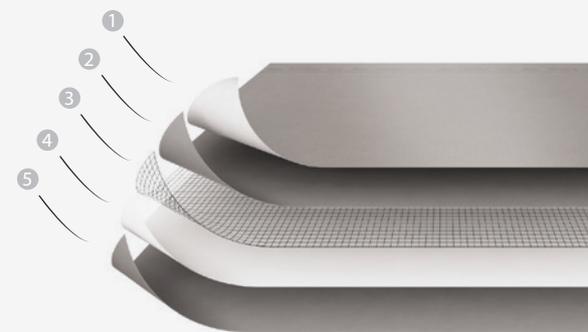
property	standard	value
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>
Thickness	EN 1849-2	0.8 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.05 m
Maximum tensile force MD/CD	EN 12311-1	350 / 190 N/50 mm
Elongation MD/CD	EN 12311-1	30 / 70 %
Resistance to tearing MD/CD	EN 12310-1	200 / 200 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	330 / 175 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	25 / 50 %
Reflectivity	EN 15976	95 %
Flexibility at low temperature	EN 1109	-30 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 300 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 60
Recommended installation pitch	-	> 10°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTSUN200	D42654	TRASPIR SUNTEX 200 TT	TT	1.5 x 50	75	30

## COMPOSITION



- 1 coating: perforated aluminium foil
- 2 top layer: non-woven PP fabric
- 3 reinforcing layer: reinforcing PL grid
- 4 middle layer: PL breathable film
- 5 bottom layer: non-woven PP fabric

WHERE CAN IT BE APPLIED?



# TRASPIR 270

## Highly breathable membranes

Microporous film and polypropylene (PP) protective layers with double reinforcing grid



<b>AT</b> Önorm B4119 UD-k RU	<b>FR</b> CPT 3651_2 HPV E1-Sd1-TR3	<b>CH</b> SIA 232 UD EB	<b>DE</b> ZVDH UDB-B USB-B	<b>IT</b> UNI 11470 A/R3
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High mechanical strength

Double reinforcing grids

Secure and reliable installation



## TECHNICAL SPECIFICATIONS

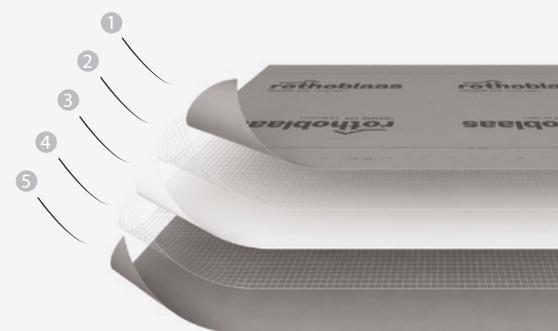
property	standard	value
Mass per unit area	EN 1849-2	270 g/m <sup>2</sup>
Thickness	EN 1849-2	1.0 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.04 m
Maximum tensile force MD/CD	EN 12311-1	650 / 800 N/50 mm
Elongation MD/CD	EN 12311-1	40 / 60 %
Resistance to tearing MD/CD	EN 12310-1	750 / 550 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 500 cm
UV resistance *	EN 13859-1	3 months
Temperature resistance	-	- 40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	620 / 770 N/50mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	35 / 55 %
Flexibility at low temperature	EN 1109	-20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 260 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 40
Recommended installation pitch	-	> 10°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 550 N/50 mm

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>T270</b>	D24802	TRASPIR 270	-	1.5 x 50	75	16
<b>TTT270</b>	D24804	TRASPIR 270 TT	TT	1.5 x 50	75	16

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 reinforcing layer: reinforcing PP grid
- 3 middle layer: PP breathable film
- 4 reinforcing layer: reinforcing PP grid
- 5 bottom layer: non-woven PP fabric

WHERE CAN IT BE APPLIED?



# TRASPIR EVO 300

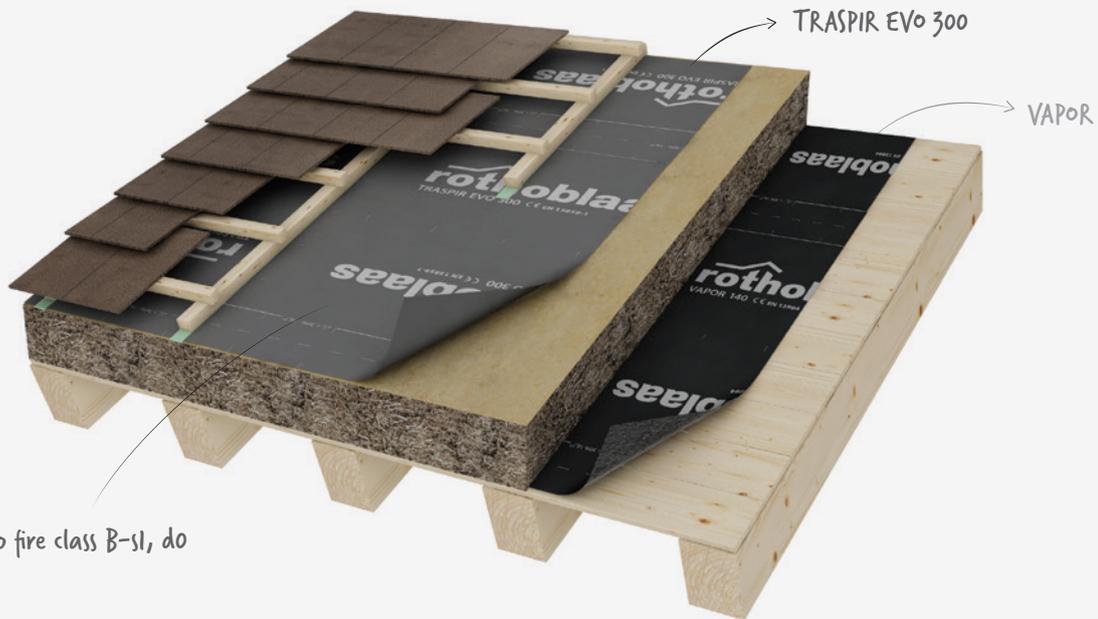
Monolithic highly breathable film

Monolithic acrylic mix film, applied to polyester (PL) reinforcing layer

B-s1, d0

CE  
EN13859-1

AT Önorm B4119 UD-k RU	FR CPT 3651_2 HPV E1-Sd1-TR2	CH SIA 232 UD EB	DE ZVDH UDB-A USB-A	IT UNI 11470 A/R1
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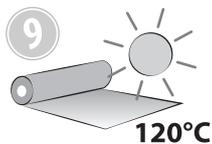
Reaction to fire class B-s1, d0



life long

## MONOLITHIC

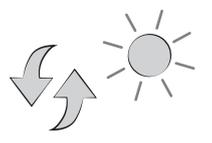
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



## 9 MONTH UV STABILITY

9 month resistance to UV rays with full exposure to radiation and no protection.

Thermal resistance up to 120 °C



## PERMANENT UV STABILITY

Permanent resistance to UV rays with exposure with open joints up to 50 mm wide, and with up to 40% of the surface uncovered

## DID YOU KNOW THAT...?

### THERMAL STABILITY

The functional polyacrylate film offers thermal resistance up to +120 °C.

This allows the product to also be used under solar and photovoltaic panels, or in areas where operating temperatures exceed the standards, without compromising performance.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTEV0300	D42524	TRASPIR EVO 300 TT	TT	1.5 x 50	75	24

WHERE CAN IT  
BE APPLIED?

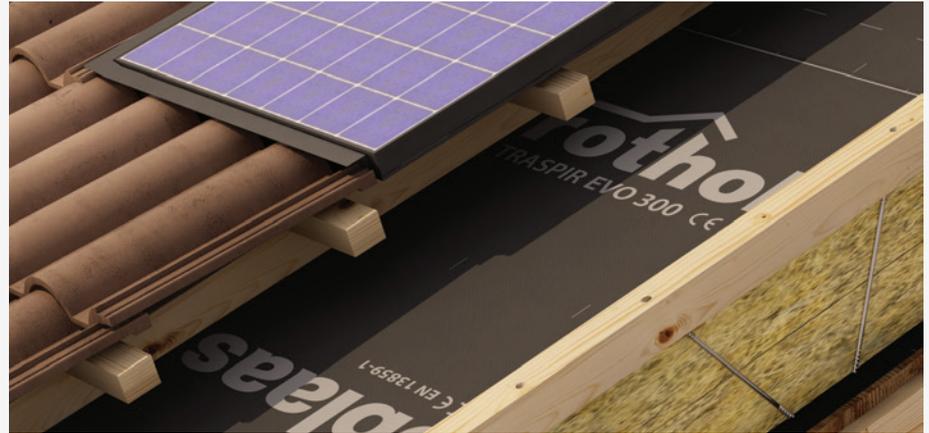




Waterproofing and mechanical strength guaranteed even near points permanently exposed to the sun



Thermal resistance up to 120 °C for use in layers subject to high temperatures or accumulation of heat



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	300 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.04 m
Maximum tensile force MD/CD	EN 12311-1	320 / 200 N/50 mm
Elongation MD/CD	EN 12311-1	30 / 35 %
Resistance to tearing MD/CD	EN 12310-1	130 / 140 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 500 cm
UV stability with joints up to 50 mm wide with up to 40% of the surface uncovered	EN 13859-1	permanent
UV resistance without final coating	EN 13859-1	9 months
Temperature resistance	-	-40 / +120 °C
Reaction to fire	EN 13501-1	class B-s1, d0
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	310 / 190 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	28 / 33 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 600 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 80
Recommended installation pitch	-	> 10°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 280 N/50 mm

## COMPOSITION



- 1 top layer: monolithic acrylate breathable film
- 2 middle layer: PL fabric

# TRASPIR EVO 340



EN13859-1

## Monolithic breathable film

Monolithic elastomer (PE) film, extruded between two polypropylene (PP) protective layers

AT  
Önorm B4119  
UD do-s ER

FR  
CPT 3651\_2  
E1-Sd3-TR3

CH  
SIA 232  
UD EB

DE  
ZVDH  
UDB-B  
USB-B

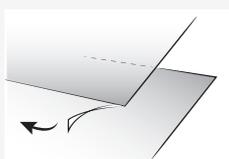
IT  
UNI 11470  
A/R3



life long

### MONOLITHIC

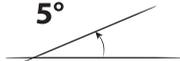
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### SINGLE TAPE

The excellent adhesiveness of single tape offers perfect sealing of overlapping, directly on the membrane

min  
5°



### LOW PITCHES

Thanks to its mass per unit area, the membrane can also be effectively installed on roofs with pitches down to 5°

## DID YOU KNOW THAT...?

### EASY INSTALLATION

This membrane offers perfect sealing, through the special integrated single tape. This makes installation faster, as it does not require precise coupling of two tapes, and offers greater flexibility when sealing overlappings.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTEVO340	D24854	TRASPIR EVO 340T	T	1.5 x 25	37.5	25

WHERE CAN IT  
BE APPLIED?





 High mass per unit area guarantees excellent production even during construction

 Single high-adhesiveness tape offers direct sealing on the membrane and makes installation faster



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	340 g/m <sup>2</sup>
Thickness	EN 1849-2	1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.2 m
Maximum tensile force MD/CD	EN 12311-1	400 / 320 N/50 mm
Elongation MD/CD	EN 12311-1	40 / 40 %
Resistance to tearing MD/CD	EN 12310-1	465 / 550 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h 50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	360 / 270 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	30 / 30 %
Flexibility at low temperature	EN 1109	-20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 340 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 200
Recommended installation pitch	-	> 5°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 250 N/50 mm

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 middle layer: monolithic PE breathable film
- 3 bottom layer: non-woven PP fabric

# TRASPIR WELD EVO 360

3,0m

**CE**  
 EN13859-1

## Weldable monolithic breathable film

Pair of monolithic thermoplastic polyurethane (PU) films, applied to polyester (PL) reinforcing layer

<b>AT</b> Önorm B4119 UD do-s ER	<b>FR</b> CPT 3651_2 E1-Sd3-TR3	<b>CH</b> SIA 232 UD AB	<b>DE</b> ZVDH UDB-A USB-A	<b>IT</b> UNI 11470 A/R3
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**life long**

### MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



### DOUBLE PROTECTION

Excellent watertightness; the double external PU layer ensures the highest safety levels

**min  
5°**


### LOW PITCHES

Thanks to its mass per unit area, the membrane can also be effectively installed on roofs with pitches down to 5°

## DID YOU KNOW THAT...?

### HOT WELDING AND CHEMICAL WELDING

The double polyurethane membrane offers perfect welding on all overlapping and joints. With the possibility of both hot and chemical welding, the product makes it possible to create a single solid protective layer that is highly reliable, returning continuity to the various layers.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>TEVO360</b>	D42562	TRASPIR WELD EVO 360	-	1.5 x 25	37.5	24
<b>TEVO36030</b>	D42568	TRASPIR WELD EVO 360 3.0m	-	3.0 x 25	75	24

WHERE CAN IT  
BE APPLIED?





## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	360 g/m <sup>2</sup>
Thickness	EN 1849-2	1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.2 m
Maximum tensile force MC/CD	EN 12311-1	420 / 490 N/50 mm
Elongation MC/CD	EN 12311-1	50 / 65 %
Nail tear strength MC/CD	EN 12310-1	310 / 280 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV resistance *	EN 13859-1	6 months
Temperature resistance	-	- 40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	400 / 470 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	50 / 65 %
Flexibility at low temperature	EN 1109	-30 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 360 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 200
Recommended installation pitch	-	> 5°
Driving rain test	TU Berlin	passed
VOC emissions	-	0 % (class A+)
Joint strength	EN 12317-2	> 300 N/50 mm
WELD LIQUID yield	-	approx. 150 / 180 m <sup>2</sup> /l

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: monolithic PU breathable film
- 2 middle layer: PL reinforcing layer
- 3 bottom layer: monolithic PU breathable film

code **WELDBOTBRUSH** (D78420)  
WELDING BOTTLE BRUSH



content: 0.5 L  
pcs/box 1

code **WELDBRUSH** (D78422)  
WELDING BRUSH



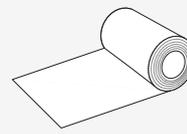
measure: 4 cm  
pcs/box 1

code **WELDLIQUID** (D78421)  
WELDING LIQUID



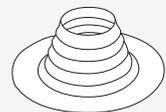
content: 1.0 L  
pcs/box 1

code **WELDSTRIFE300** (D78423)  
WELDING STRIPE



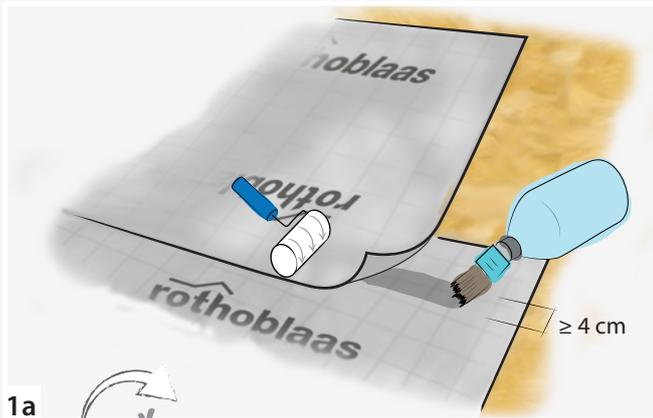
measure: 0.30 x 20 m  
pcs/box 5

code **WELDPIPE** (D78424)  
WELDING PIPE SLEEVE

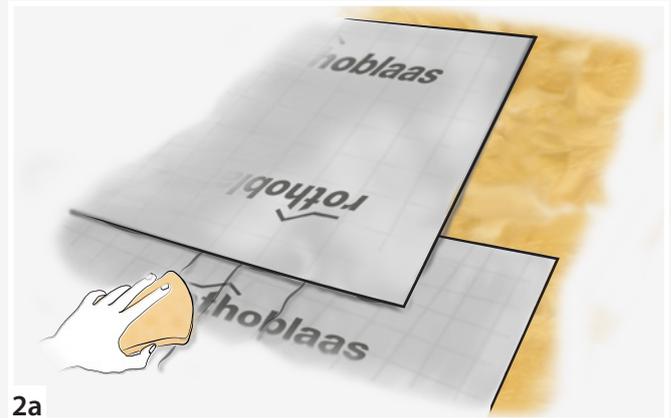


diameter: 80 -125 mm  
pcs/box 4

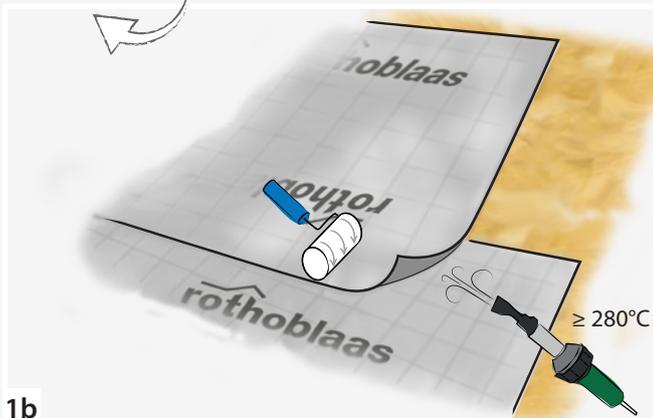
## GENERAL METHODS FOR SEALING TRASPIR WELD EVO 360



1a



2a

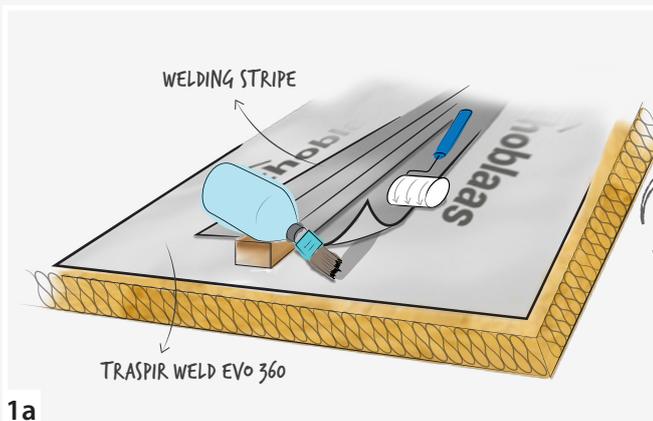


1b

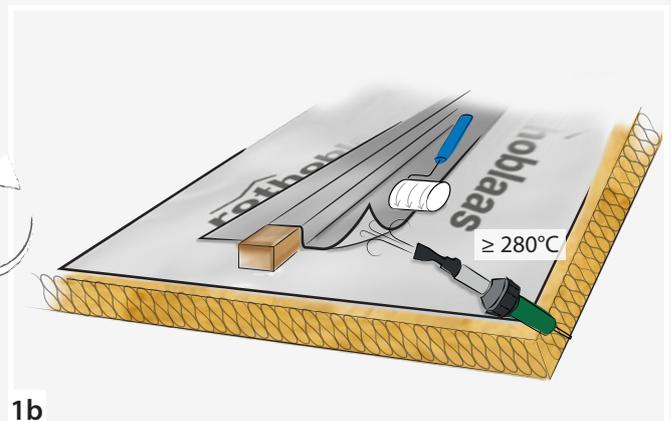


2b

## SOLUTION A: SEALING BATTEN WITH WELD STRIPE

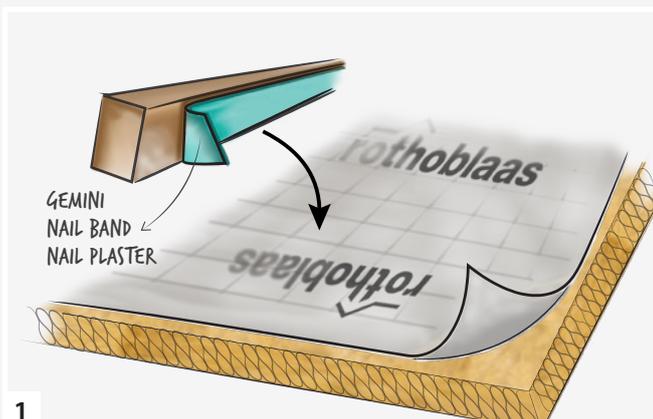


1a

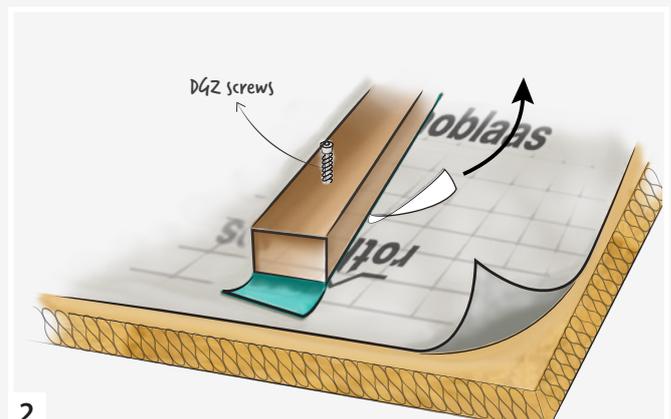


1b

## SOLUTION B: SEALING BATTEN WITH NAIL POINT TAPE



1

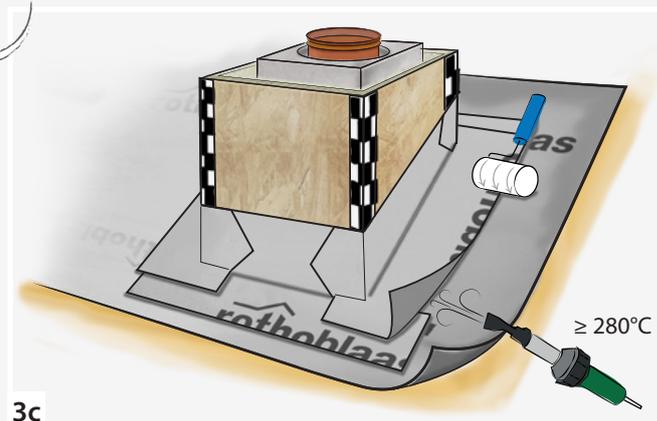
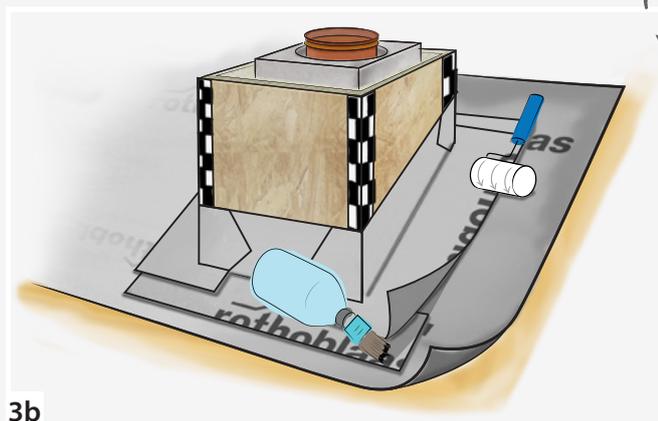
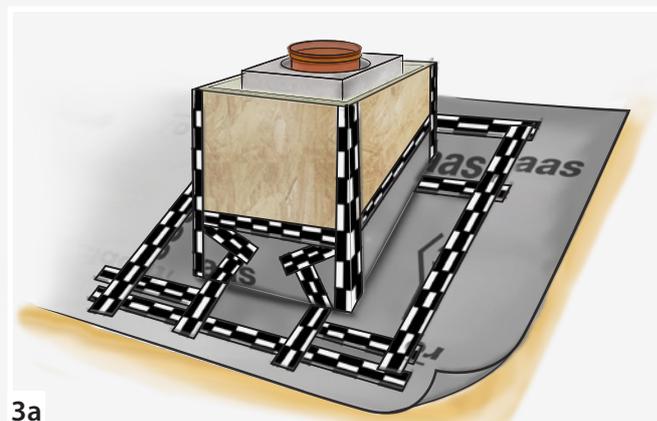
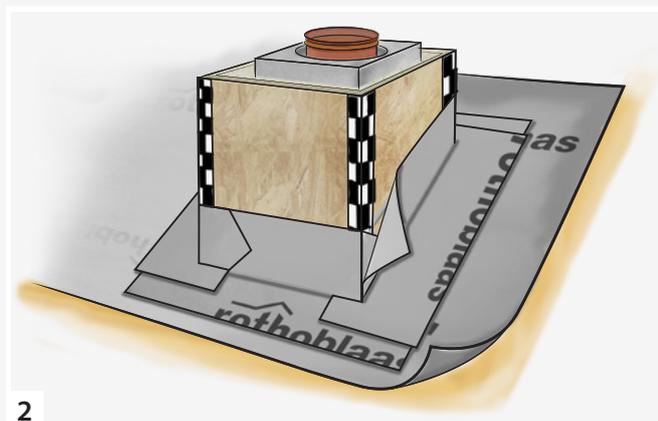
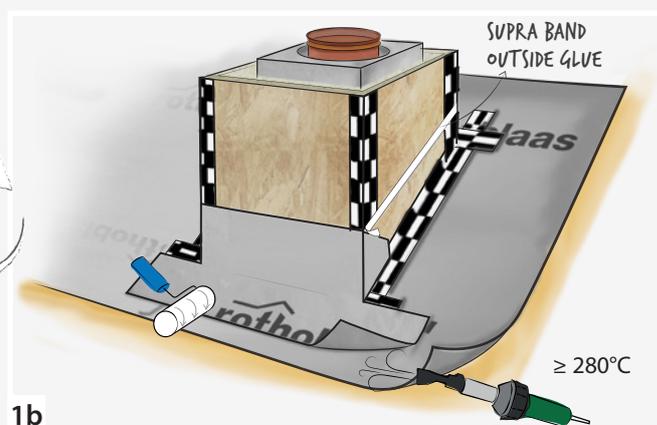
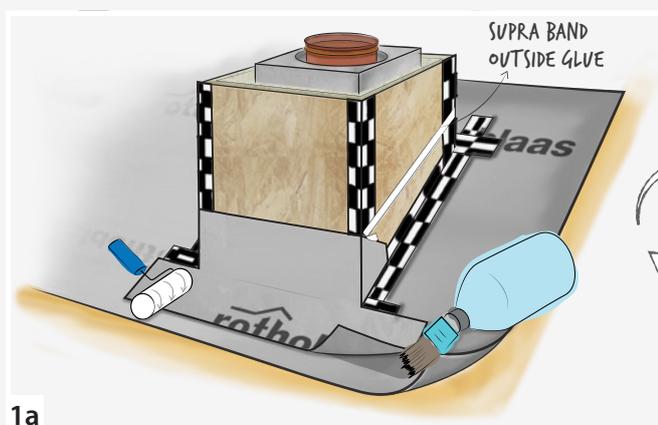


2

### SEALING SLEEVE ON TRASPIR WELD EVO 360



### SEALING CHIMNEY WITH TRASPIR WELD EVO 360



# TRASPIR METAL

## 3D mats for metal roofs

Highly breathable membrane paired with a 3D mat and protective felt



AT  
Onorm B4119  
UD-k RU

FR  
CPT 3651\_2  
HPV  
E1-Sd1-TR2

CH  
SIA 232  
UD EB

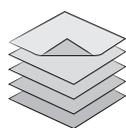
DE  
ZVDH  
UDB-A  
USB-A

IT  
UNI 11470  
A/R2



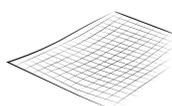
### CERTIFIED NOISE REDUCTION

The 3D mats guarantee reduction of airborne and heavy rain noises. Values tested and certified



### PROTECTIVE FELT

The breathable membrane with 3D grid includes a fifth layer that blocks impurities and improves ventilation



### HIGH DENSITY 3D GRID

The 3D mat has high mechanical strength and is also appropriate for aluminium sheet metal

### DID YOU KNOW THAT ...?

#### CERTIFIED NOISE REDUCTION

The 3D virgin polypropylene (PP) structure, thanks to its excellent ability to absorb mechanical deformation, constitutes a resilient layer able to absorb a large part of the vibrations caused by heavy rain.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/ 
① TTMET580	D42786	TRASPIR 3D COAT T	T	1.5 x 25	37.5	4
② 3DNET	D42772	3D NET	-	1.4 x 25	35.0	6

WHERE CAN IT  
BE APPLIED?





The breathable membrane TRASPIR 3D COAT comes with a 3D grid and additional protective felt on the surface, that prevents the entry of impurities and improves ventilation. The integrated tape should be used only during installation, to make overlapping of sheets easier. For perfect sealing, it is recommended that additional taping be done near the membrane under the protective felt.

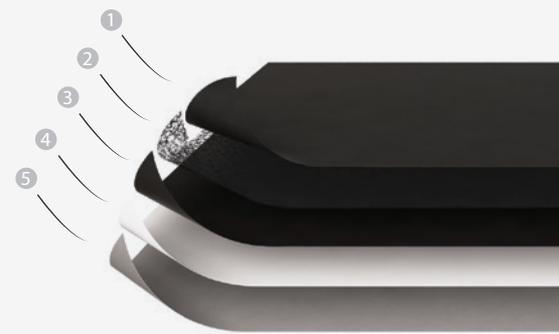
## TECHNICAL SPECIFICATIONS

property	standard	① TRASPIR 3D COAT	② 3D NET
		values	values
Mass per unit area	EN 1849-2	585 (300) g/m <sup>2</sup>	350 g/m <sup>2</sup>
Thickness at 2 kPa	EN 9863-1	8.5 mm	7.5 mm
Thickness at 10 kPa	EN 9863-1	7.75 mm	6.75 mm
Straightness	EN 1848-2	conforming	-
Water vapour transmission (Sd)	EN 1931 EN ISO 12572	0.02 m	-
Maximum tensile force MD/CD	EN 12311-1	325 / 225 N/50 mm	-
Elongation MD/CD	EN 12311-1	45 / 70 %	-
Resistance to tearing MD/CD	EN 12310-1	185 / 195 N	-
Maximum tensile force MD/CD NET	EN 12311-1	-	1.3 / 0.5 kN/50 mm
Elongation MD/CD NET	EN 12311-1	-	95 / 65 %
Watertightness	EN 1928	class W1	-
Water column	EN 20811	> 250 cm	-
UV resistance *	EN 13859-1	3 months	3 months
Temperature resistance	-	-40 / +80 °C	-40 / +80 °C
Reaction to fire	EN 13501-1	class E	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:			
• maximum tensile force MD/CD	EN 13859-1	285 / 195 N/50 mm	-
• watertightness	EN 13859-1	class W1	-
• elongation MD/CD	EN 13859-1	35 / 30 %	-
Flexibility at low temperature	EN 1109	-30 °C	-
Dimensional stability	EN 1107-2	< 2 %	-
Thermal conductivity (λ)	-	0.3 W/mK	approx. 0.3 W/mK
Specific heat	-	1800 J/kgK	1800 J/kgK
Density	-	approx. 65 kg/m <sup>3</sup>	approx. 35 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 33	-
Recommended installation pitch	-	> 5°	> 5°
Void ratio	-	95 %	95 %
Impact sound attenuation index ΔLw	UNI EN ISO 140-8:1999	28 (-3;+3) dB	28 (-3;+3) dB
Sound insulation power assessment index Rw	UNI EN ISO 10140-2:2010 UNI EN ISO 717-1:2013	approx. 1 dB	approx. 1 dB
Variation in global level of weighted sound intensity A from driving rain noise LiA	UNI EN ISO 140-18:2007	approx. 4 dB	approx. 4 dB
VOC emissions	-	< 0.02 % (class A+)	< 0.02 % (class A+)

\* for more indications, see page 19

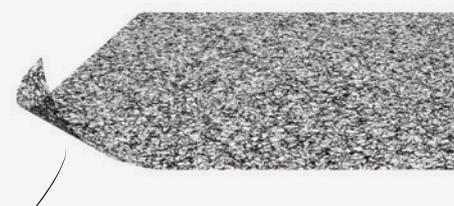
## COMPOSITION

### TRASPIR 3D COAT



- ① protective layer: non-woven PP fabric
- ② surface: 3D PP mat
- ③ top layer: non-woven PP fabric
- ④ reinforcing layer: PP breathable film
- ⑤ bottom layer: non-woven PP fabric

### 3D NET



3D PP mat

# LABORATORY MEASUREMENT



## Airborne acoustic insulation and noise generated by heavy rain

The test sample is identified by a 5.60x3.65m wooden roof positioned between an emitting room (photo 1) and a receiving room, able to emit and record the sound stress applied during the tests.

Shown here are the layers tested in the two versions: the first with the TRASPIR 3D COAT and the second with the sheet metal directly on the plank.



- ① 0.6 mm thick galvanised steel sheet metal
- ② 8 mm thick TRASPIR 3D COAT membrane
- ③ 20 mm thick pine beads
- ④ 60 mm thick pine battens
- ⑤ rothoblaas breathable membrane
- ⑥ 22 mm thick 200 kg/m<sup>3</sup> wood fibre
- ⑦ 180 mm thick 110 kg/m<sup>3</sup> wood fibre

- ⑧ rothoblaas vapour stop
- ⑨ 20 mm thick pine beads
- ⑩ 200 mm thick laminated pine beam

### TESTS PERFORMED

The following measuring tests have been performed on both layers, with and without TRASPIR 3D COAT:

**1.** Airborne acoustic insulation according to EN ISO 10140-2:2010 and EN ISO 717-1:2013 on roof. The result is a soundproofing power index of  $R_w$  for the layer. Accordingly, the higher the value the better the acoustic insulation.

**2.** Noise generated by heavy rain according to EN ISO 140-18:2007: in this test you obtain a value indicating the sound pressure level  $L_{IA}$  recorded in the receiving room during the pounding of water, simulated by a tank placed over the sample.

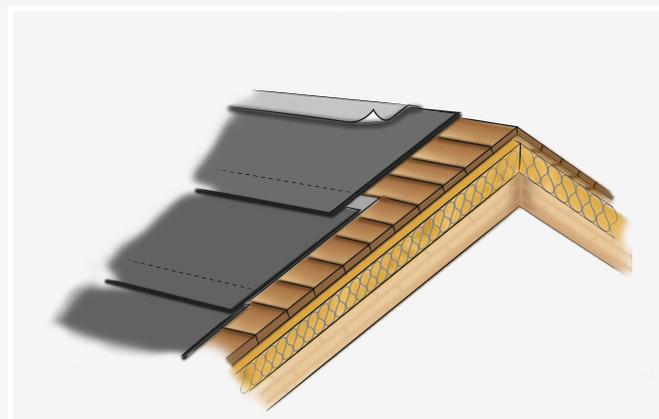
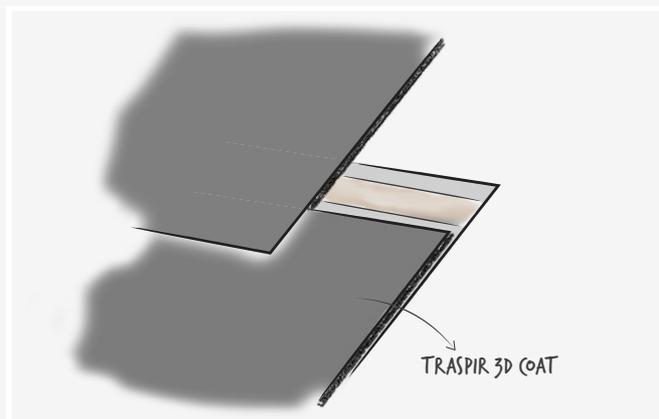


photo 1: Photo of sample, emitting chamber side

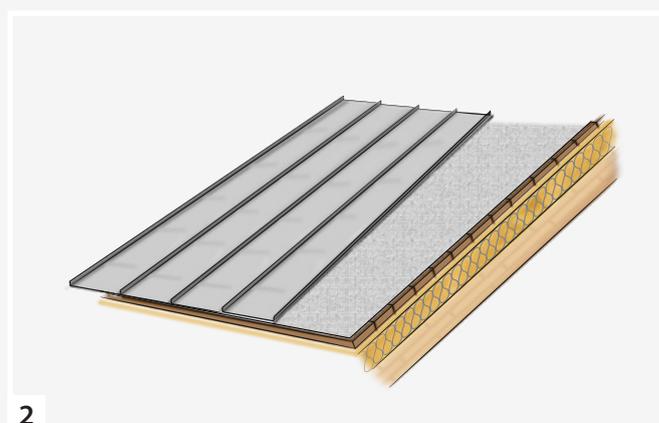
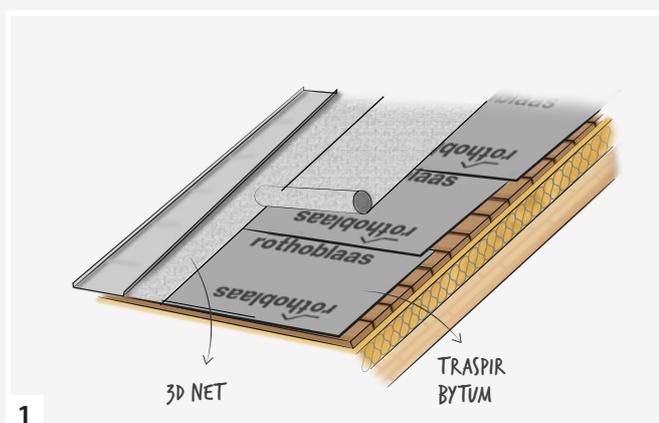
RESULTS	WITHOUT MEMBRANE	WITH MEMBRANE
①  NOISE AIRBORNE	  $R_w = 43$ dB	Increase of sound insulation by 1 dB   $R_w = 44$ dB
②  RAIN POURING	  $L_{IA} = 36,9$ dB	Reduction of noise from rain up to 4.2 dB   $L_{IA} = 32,7$ dB

**NOTE:** The full test report is available from the rothoblaas technical department

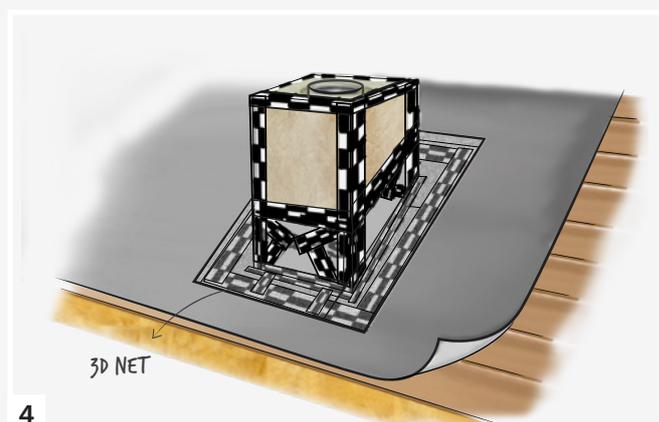
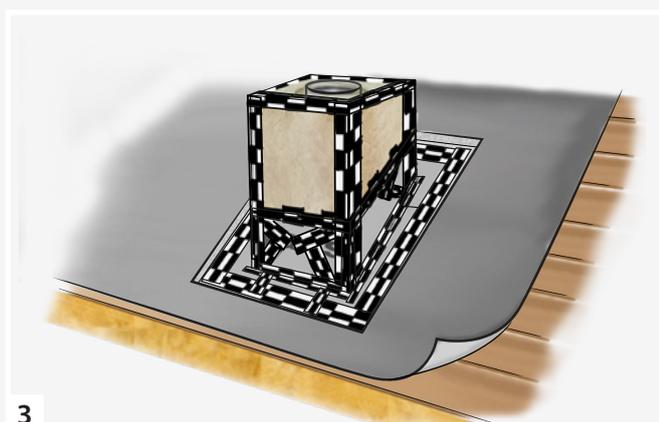
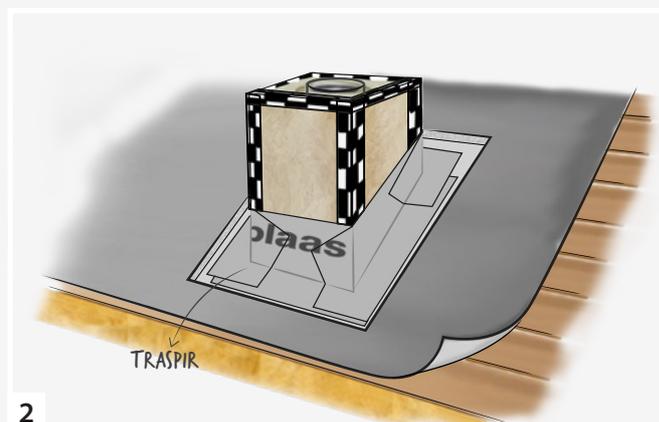
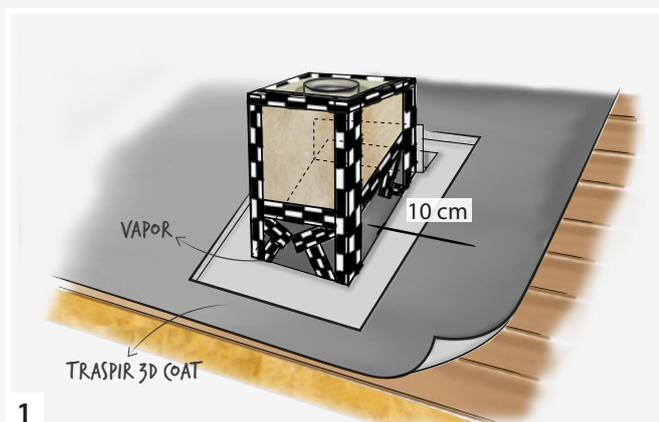
## TRASPIR 3D COAT



## 3D NET



## CHIMNEY DETAIL WITH 3D NET AND TRASPIR 3D COAT



# BREATHABLE



TRASPIR ZENIT UV 210 CE EN 13859-1/2

## FACADE BREATHABLES

TRASPIR ZENIT UV 210	79
TRASPIR EVO UV 210	80
TRASPIR COLOR EVO UV	82

TRASPIR EVO UV 210 CE EN 13859-2

# TRASPIR ZENIT UV 210

3,0m

**CE**  
 EN13859-1/2

Monolithic breathable film resistant to UV rays

Monolithic thermoplastic polyurethane (PU) film, applied to polyester (PL) reinforcing layer

AT Onorm B4119 UD-k RU	FR CPT 3651_2 pare-pluie E1-Sd2-TR3	CH SIA 232 UD EB	DE ZVDH UDB-B USB-B	IT UNI 11470 A/R3
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## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	210 g/m <sup>2</sup>
Thickness	EN 1849-2	1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.15 m
Maximum tensile force MD/CD	EN 12311-1	380 / 420 N/50 mm
Elongation MD/CD	EN 12311-1	40 / 45 %
Resistance to tearing MD/CD	EN 12310-1	225 / 210 N
Watertightness	EN 1928	class W1
Water column	EN 20811	> 300 cm
UV stability with joints up to 30 mm wide with up to 30 % of the facade uncovered	EN 13859-1	permanent
UV resistance without final coating	EN 13859-1	4 months
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	340 / 380 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	35 / 50 %
Flexibility at low temperature	EN 1109	-30 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1300 J/kgK
Density	-	approx. 210 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 150
Recommended installation pitch	-	> 10°
Driving rain test	-	passed
VOC emissions	-	0 % (class A+)

## COMPOSITION



- 1 top layer: monolithic PU breathable film
- 2 reinforcing layer: PL fabric

code **FACADEUV60** (D52344)  
 FACADE BAND UV  
 page 122

measure: 60 mm x 25 m  
 pcs/box 10



## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>TUV210</b>	D42442	TRASPIR ZENIT UV 210	-	1.5 x 50	75	30
<b>TUV21030</b>	D42448	TRASPIR ZENIT UV 210 3.0m	-	3.0 x 50	150	16

WHERE CAN IT  
 BE APPLIED?



# TRASPIR EVO UV 210

Highly breathable monolithic membrane resistant to UV rays  
Monolithic acrylic mix film, applied to polyester (PL) reinforcing layer

B-s1, d0

CE  
EN13859-2

FR  
CPT 3651\_2  
HPV  
pare-pluie

TRASPIR EVO UV 210  
+ FRONT BAND UV 210



life long

## MONOLITHIC

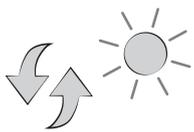
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



B-s1, d0

## B-s1, d0

Flame retardant certification, Euroclass reaction to fire B-s1, d0 based on EN 13501-1



## PERMANENT UV STABILITY

Infinite resistance to UV rays with exposure with open joints up to 50 mm wide, and with up to 40% of the surface uncovered

## DID YOU KNOW THAT ...?

### EXCELLENT AESTHETIC PERFORMANCE

Thanks to the mass per unit area and the polyacrylate mix, the product enjoys high thermal and dimensional stability, features that prevent swelling during installation. Final appearance is guaranteed by the use of FRONT BAND UV 210, made with the same support, to blend in with the membrane.

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
TTTUV210	D42454	TRASPIR EVO UV 210TT	TT	1.5 x 50	75	24

WHERE CAN IT  
BE APPLIED?





 Discontinuous coating of ventilated facades can be created, with grouting up to 5 cm wide

 The polyethylene reinforcing layer gives the tarp structure, avoiding swelling during installation, and making installation easier



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	210 g/m <sup>2</sup>
Thickness	EN 1849-2	0.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.04 m
Maximum tensile force MD/CD	EN 12311-1	300 / 200 N/50 mm
Elongation MD/CD	EN 12311-1	25 / 25 %
Resistance to tearing MD/CD	EN 12310-1	120 / 120 N
Watertightness	EN 1928	class W1
UV stability with joints up to 50 mm wide with up to 40 % of the facade uncovered	EN 13859-1	permanent
UV resistance without final coating	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class B-s1, d0
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	290 / 190 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	20 / 20 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 600 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 130
VOC emissions	-	0 % (class A+)

## COMPOSITION



- 1 top layer: monolithic breathable film
- 2 reinforcing layer: PL fabric

code **FRONTUV75** (D52334)  
FRONT BAND UV 210  
page 123

measure: 75 mm x 20 m  
pcs/box 8



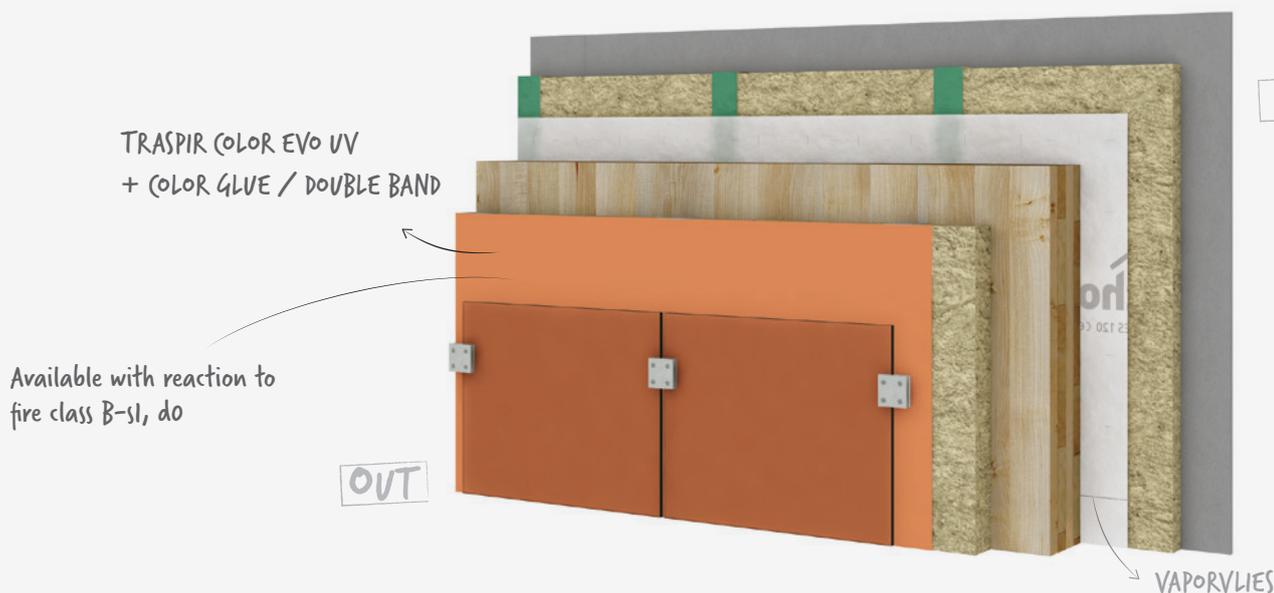
# TRASPIR COLOR EVO UV

3,0m

**CE**  
 EN13859-2

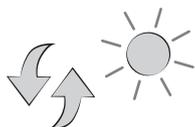
Monolithic breathable film resistant to UV rays

Special monolithic acrylic mix film, with polyester (PL) reinforcing layer

 FR  
 CPT 3651\_2  
 pare-pluie

**life long**

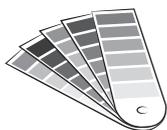
## MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used



## PERMANENT UV STABILITY

Infinite resistance to UV rays, even when applied behind mesh, grids or glass



## PERSONALISED

Available in various colours, sizes and performances based on design needs

## DID YOU KNOW THAT...?

### ARCHITECTURAL FACADES

A product that stimulates the creative energy of the designer, because it offers full freedom: no limits on colour, print or performance requirements. This is the product that sees membranes as an integral part of the final result of any architectural facade with open joints, mesh or glass.

## CODES AND DIMENSIONS

The code for the coloured tarp consists of the respective 4 digit **RAL** colour code.

E.g.: a green RAL6001 tarp with H = 1.5 m has the code **TCUV6001**. A green RAL6016 tarp with H = 3.0 m has the code **TCUV601630**.

code	description	tape	H x L [m]	A [m <sup>2</sup> ]
<b>TCUVXXXX</b>	TRASPIR COLOR EVO UV RALXXXX	-	1.5 x 50	75
<b>TCUVXXXX30</b>	TRASPIR COLOR EVO UV RALXXXX 3.0m	-	3.0 x 50	150
<b>TCUVXXXXB</b>	TRASPIR COLOR EVO UV BS1D0 RALXXXX	-	1.5 x 50	75
<b>TCUVXXXX30B</b>	TRASPIR COLOR EVO UV BS1D0 RALXXXX 3.0m	-	3.0 x 50	150

Minimum order: 500 m<sup>2</sup>

WHERE CAN IT  
BE APPLIED?





 Ideal for application on wood, glass or metal facades, to obtain captivating chromatic effects

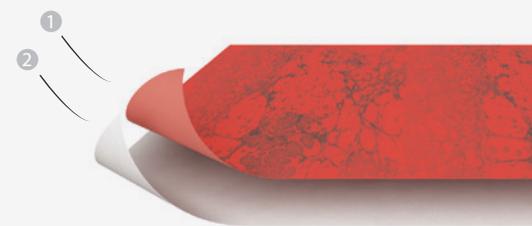
 Colours can be selected from the full range of RAL colours, or fully personalised images can be used



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	290 g/m <sup>2</sup>
Thickness	EN 1849-2	0.5 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	0.05 m
Maximum tensile force MD/CD	EN 12311-1	550 / 475 N/50 mm
Elongation MD/CD	EN 12311-1	34 / 37 %
Resistance to tearing MD/CD	EN 12310-1	305 / 350 N
Watertightness	EN 1928	class W1
UV resistance with open joints up to 40 mm wide exposing no more than 40 % of the surface	EN 13859-1	permanent
UV resistance without final coating	EN 13859-1	3 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E / B-s1, d0
Resistance to penetration of air	EN 12114	< 0.02 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	490 / 455 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	31 / 36 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	< 1 %
Thermal conductivity (λ)	-	0.3 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 600 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	100
VOC emissions	-	0 % (class A+)

## COMPOSITION



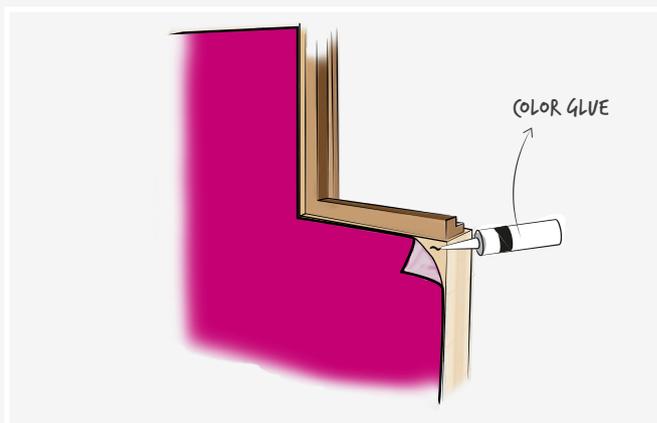
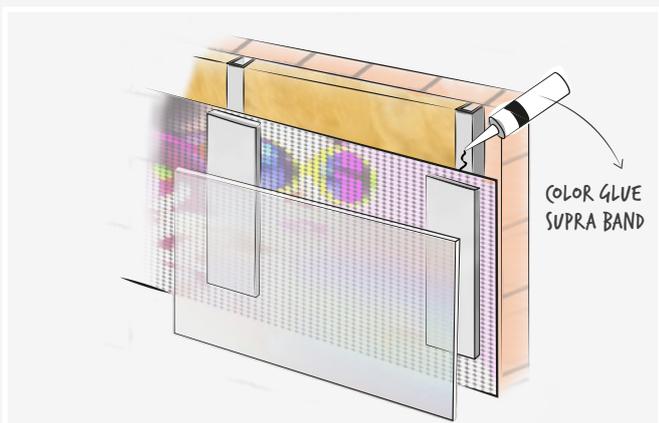
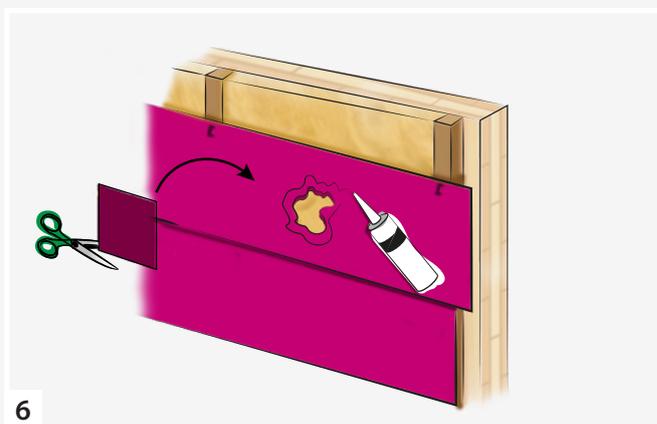
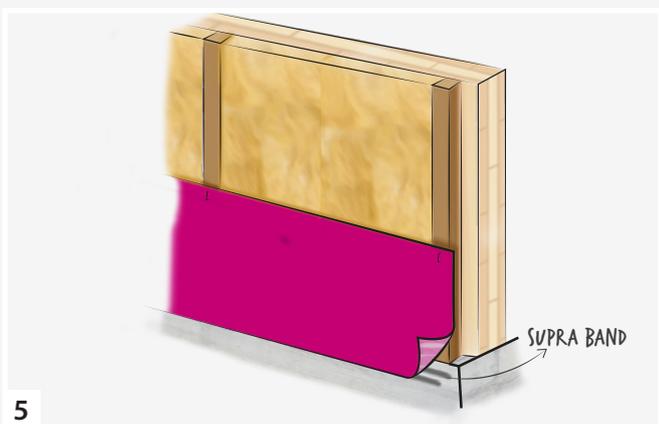
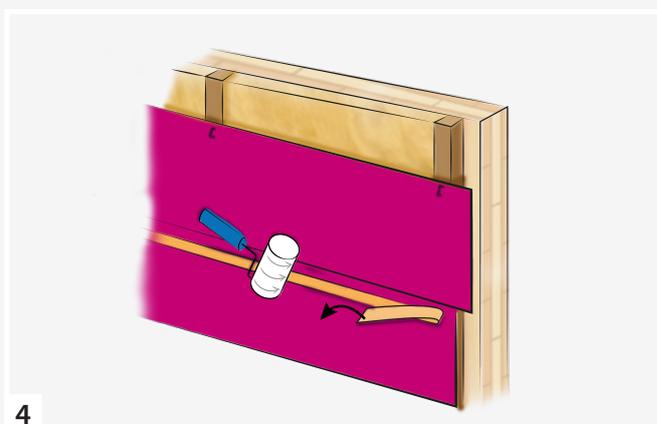
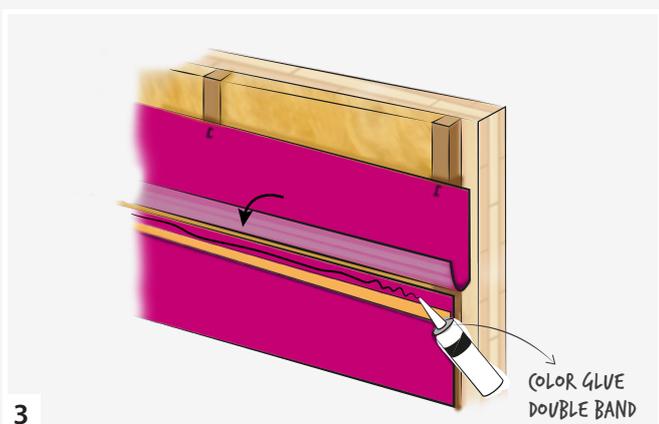
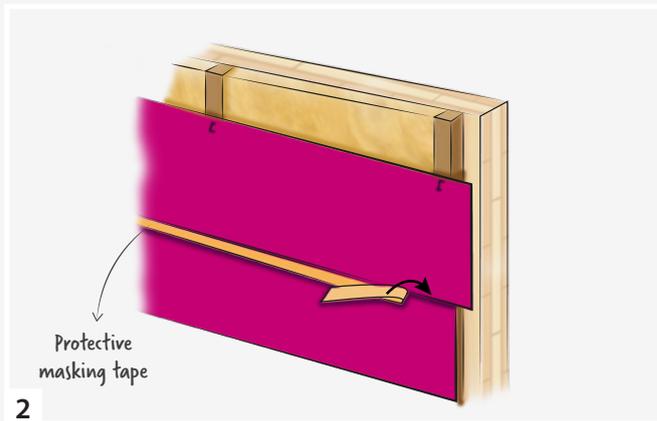
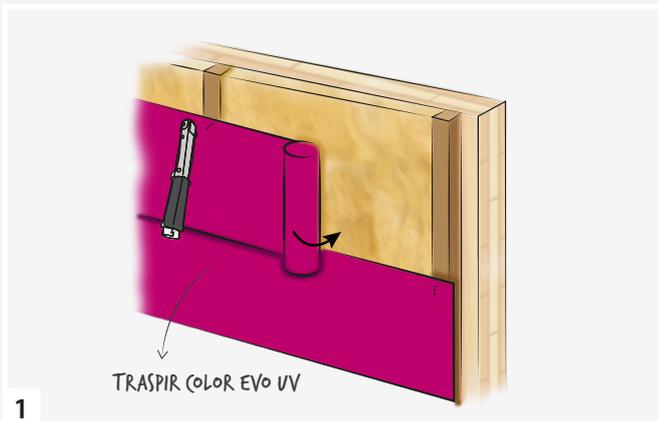
- 1 top layer: monolithic breathable film
- 2 reinforcing layer: PL fabric

code **COLORGLUE**  
COLOR GLUE

content: 290 ml  
pcs/box 12



# TRASPIR COLOR EVO UV INSTALLATION INSTRUCTIONS





PIR EVO UV 210

CE EN

# MEMBRANES



## MEMBRANES

# 3

BYTUM 400	87
BYTUM 750	88
BYTUM 1100	89
BYTUM BASE 3000	90
BYTUM SLATE 3500	91
BYTUM LIQUID	94
BYTUM REINFORCEMENT	94
FLOOR RADON	98
FLOOR RADON EVO	100
TERMI FLOOR	102

# BYTUM 400

## Bituminous underlay control layer

Bituminous compound with polyester (PL) reinforcing layer and polypropylene (PP) coating



EN13859-1

AT  
Önorm B3661  
KV Bitumen-  
bahnen

DE  
ZVDH  
E1 DO  
PVE PV

IT  
UNI 11564  
P/SR3/A

Polyester reinforcing layer for high elasticity and mechanical strength

Flexibility and workability guaranteed even at low temperatures



## TECHNICAL SPECIFICATIONS

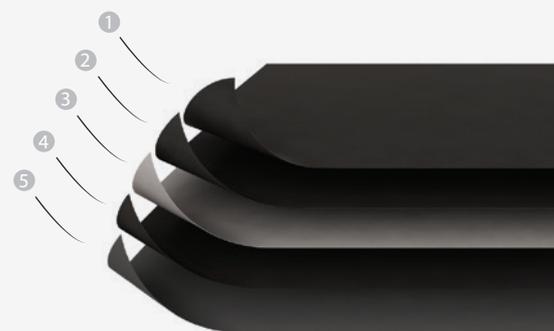
property	standard	value
Mass per unit area	EN 1849-2	400 g/m <sup>2</sup>
Thickness	EN 1849-2	0.6 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	50 m
Maximum tensile force MD/CD	EN 12311-1	450 / 370 N/50 mm
Elongation MD/CD	EN 12311-1	50 / 60 %
Resistance to tearing MD/CD	EN 12310-1	280 / 280 N
Watertightness	EN 1928	class W1
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	-	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	315 / 240 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	32 / 39 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-0.5 / 0.5 %
Thermal conductivity (λ)	-	0.17 W/mK
Specific heat	-	850 J/kgK
Density	-	approx. 600 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 85000
Recommended installation pitch	-	> 5°

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>BYTUM 400</b>	D36202	BYTUM 400	-	1.0 x 50	50	30

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 compound: bituminous mixture
- 3 reinforcing layer: PL fabric
- 4 compound: bituminous mixture
- 5 bottom layer: non-woven PP fabric

WHERE CAN IT BE APPLIED?



# BYTUM 750



EN13859-1

## Self-adhesive bituminous underlay control layer

Bituminous compound with polyester (PL) reinforcing layer and polypropylene (PP) and slate coating

AT  
Önorm B3661  
KV Bitumen-  
bahnen

DE  
ZVDH  
E1 DO  
PVE PV

IT  
UNI 11564  
P / SR3 / A



Self-adhesive thanks to the strip made of adhesive elastomeric bitumen

Lower coating in slate for better grip on the boarding

## TECHNICAL SPECIFICATIONS

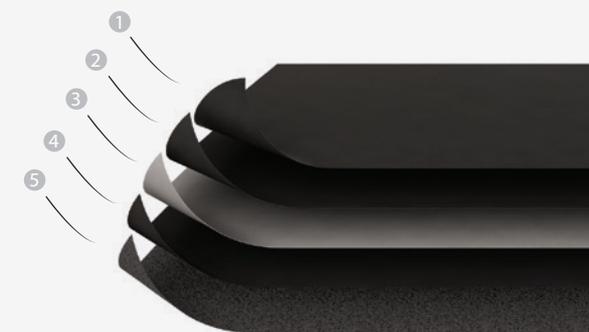
property	standard	value
Mass per unit area	EN 1849-2	750 g/m <sup>2</sup>
Thickness	EN 1849-2	1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	28 m
Maximum tensile force MD/CD	EN 12311-1	470 / 370 N/50 mm
Elongation MD/CD	EN 12311-1	45 / 50 %
Resistance to tearing MD/CD	EN 12310-1	290 / 320 N
Watertightness	EN 1928	class W1
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	-	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	329 / 241 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	29 / 32 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-0.5 / 0.5 %
Thermal conductivity (λ)	-	0.17 W/mK
Specific heat	-	850 J/kgK
Density	-	approx. 750 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 28000
Recommended installation pitch	-	> 5°
Joint strength	EN 12317-2	> 250 N/50 mm

\* for more indications, see page 19

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>BYT750</b>	D36404	BYTUM 750T	T	1.0 x 40	40	25

## COMPOSITION



- 1 top layer:** non-woven polypropylene and silicone separating film
- 2 compound:** adhesive bituminous mixture
- 3 reinforcing layer:** PL fabric
- 4 compound:** adhesive bituminous mixture
- 5 bottom layer:** slate and silicone separating film

WHERE CAN IT BE APPLIED?



# BYTUM 1100

Bituminous underlay control layer

Bituminous compound with polyester (PL) reinforcing layer and polypropylene (PP) coating



EN13859-1

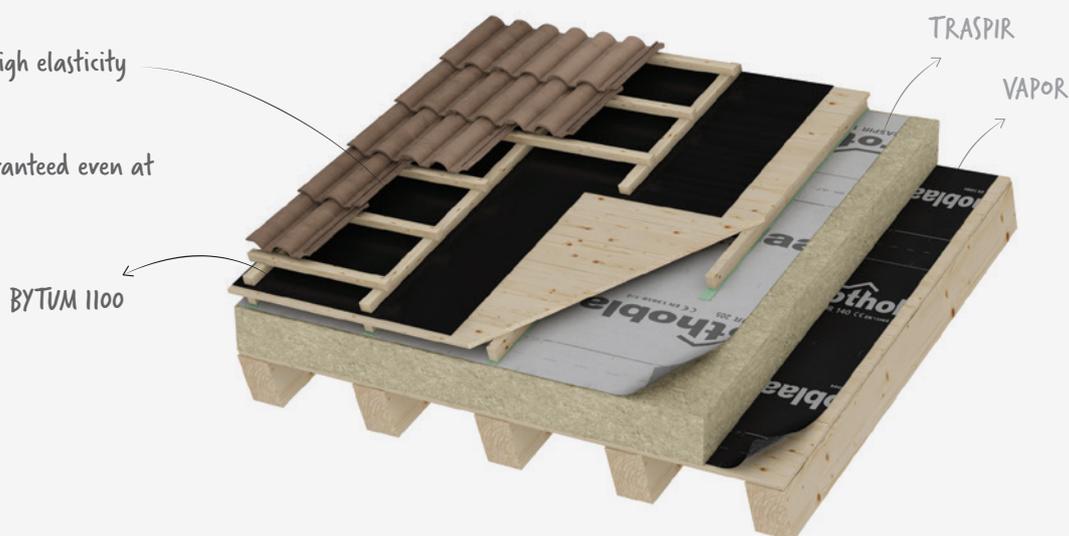
AT  
Önorm B3661  
KV Bitumen-  
bahnen

DE  
ZVDH  
E1 DO  
PVE PV

IT  
UNI 11564  
P / SR2 / A

Polyester reinforcing layer for high elasticity and mechanical strength

Flexibility and workability guaranteed even at low temperatures

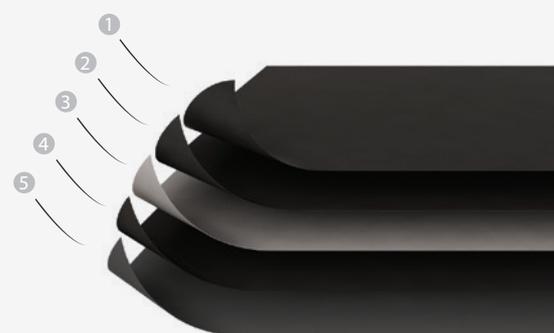


## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	1100 g/m <sup>2</sup>
Thickness	EN 1849-2	1.1 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	152 m
Maximum tensile force MD/CD	EN 12311-1	700 / 440 N/50 mm
Elongation MD/CD	EN 12311-1	45 / 55 %
Resistance to tearing MD/CD	EN 12310-1	220 / 230 N
Watertightness	EN 1928	class W1
UV resistance *	EN 13859-1	4 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
Resistance to penetration of air	-	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	665 / 396 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	36 / 44 %
Flexibility at low temperature	EN 1109	-40 °C
Dimensional stability	EN 1107-2	-0.5 / 0.5 %
Thermal conductivity (λ)	-	0.17 W/mK
Specific heat	-	850 J/kgK
Density	-	approx. 1000 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 152000
Recommended installation pitch	-	> 5°

\* for more indications, see page 19

## COMPOSITION



- 1 top layer: non-woven PP fabric
- 2 compound: bituminous mixture
- 3 reinforcing layer: PL fabric
- 4 compound: bituminous mixture
- 5 bottom layer: non-woven PP fabric

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>BYT1100</b>	D36602	BYTUM 1100	-	1.0 x 25	25	24

Available with integrated double tape on request (code **BYTTTT1100**)

WHERE CAN IT BE APPLIED?



# BYTUM BASE 3000

Self-adhesive bituminous underlay membrane

Distilled bitumen with elastomeric polymer and polyethylene (PE) coating



Can be used on flat roofs in combination with BYTUM SLATE 3500

Flexibility and workability guaranteed even at low temperatures

Self-adhesive sheath

Can be used at pitches up to 5° as an underlay

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	approx. 3.0 kg/m <sup>2</sup>
Thickness	EN 1849-2	3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	300 m
Maximum tensile force MD/CD	EN 12311-1	450 / 400 N/50 mm
Elongation MD/CD	EN 12311-1	35 / 40 %
Resistance to tearing MD/CD	EN 12310-1	140 / 140 N
Watertightness	EN 1928	class W1
UV exposure	-	8 months
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	315 / 280 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	25 / 28 %
Creep resistance at high temperatures	EN 1110	> +100 °C
Flexibility at low temperature	EN 1109	-15 °C
Dimensional stability	EN 1107-2	-0.25 / +0.10 %
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1500 J/kgK
Density	-	approx. 1000 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 100000
Recommended installation pitch	-	> 2°
Application temperature	-	> +5 °C
External fire performance	EN 13501-5	F roof

## COMPOSITION



- 1 top layer: PE film
- 2 compound: distilled bitumen with elastomeric polymer
- 3 reinforcing layer: PL stabilised with fibreglass
- 4 compound: elastic polymer modified bitumen
- 5 bottom layer: distilled bitumen modified with self-adhesive polymer
- 6 separation layer: silicone paper

## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
BYTBASE3000	D38424	BYTUM BASE 3000	-	1.0 x 10	10	28

WHERE CAN IT BE APPLIED?



# BYTUM SLATE 3500

FLAT ROOF

CE  
EN13859-1  
EN13707

Self-adhesive slate coated bituminous membrane  
Distilled bitumen with elastomeric polymer and slate coating

DE  
ZVDH  
E1 DO  
PYE G

IT  
UNI 11564  
V/SR1/B



Ideal for flat roofs as the final visible layer,  
in combination with BYTUM BASE 3000

Flexibility and workability guaranteed  
even at low temperatures

Self-adhesive sheath

Can be used at pitches up to 5° as an  
underlay

Permanent UV stability

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	approx. 3.5 kg/m <sup>2</sup>
Thickness	EN 1849-2	approx. 3.3 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	approx. 230 m
Maximum tensile force MD/CD	EN 12311-1	400 / 300 N/50 mm
Elongation MD/CD	EN 12311-1	35 / 40 %
Resistance to tearing MD/CD	EN 12310-1	140 / 140 N
Watertightness	EN 1928	class W1
UV exposure	-	permanent
Temperature resistance	-	-40 / +100 °C
Reaction to fire	EN 13501-1	class E
After ageing:		
• maximum tensile force MD/CD	EN 13859-1	400 / 300 N/50 mm
• watertightness	EN 13859-1	class W1
• elongation MD/CD	EN 13859-1	35 / 40 %
Creep resistance at high temperatures	EN 1110	> +100 °C
Flexibility at low temperature	EN 1109	-15 °C
Dimensional stability	EN 1107-2	-0.25 / +0.10 %
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1500 J/kgK
Density	-	approx. 1000 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 70000
Recommended installation pitch	-	> 2°
Application temperature	-	> +5 °C
Static punching shear	EN 12730	10 kg
Dynamic punching shear	EN 12691	700 mm
External fire performance	EN 13501-5	F roof

## COMPOSITION



- 1 top layer: slate chips
- 2 compound: distilled bitumen with elastomeric polymer
- 3 reinforcing layer: PL stabilised with fibreglass
- 4 compound: elastic polymer modified bitumen
- 5 bottom layer: distilled bitumen modified with self-adhesive polymer
- 6 separation layer: silicone paper

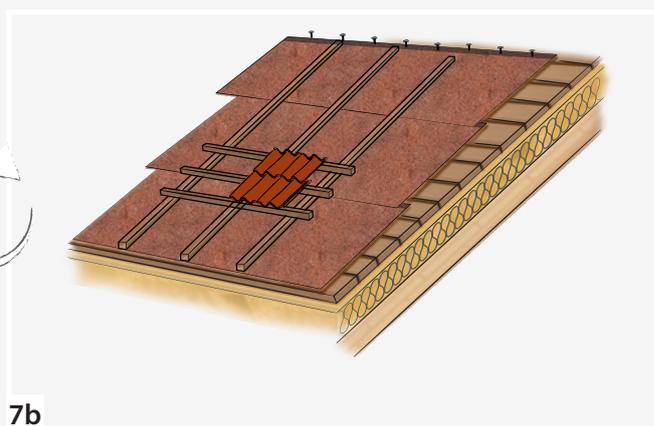
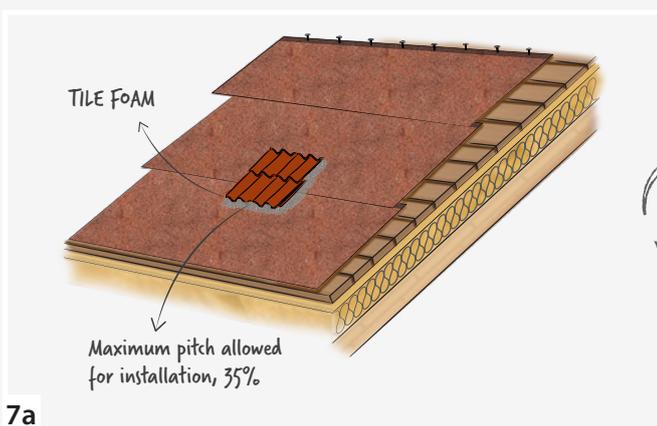
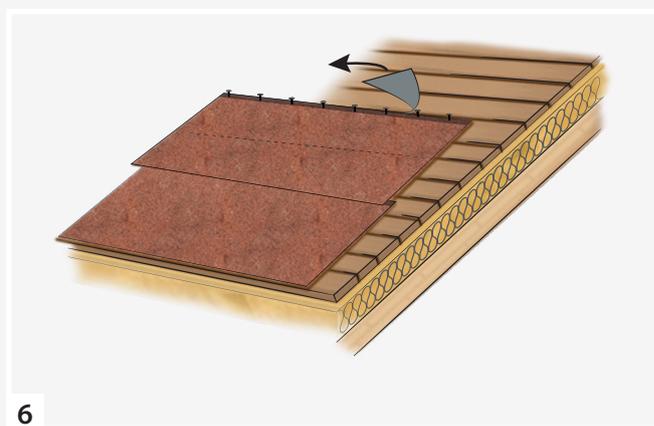
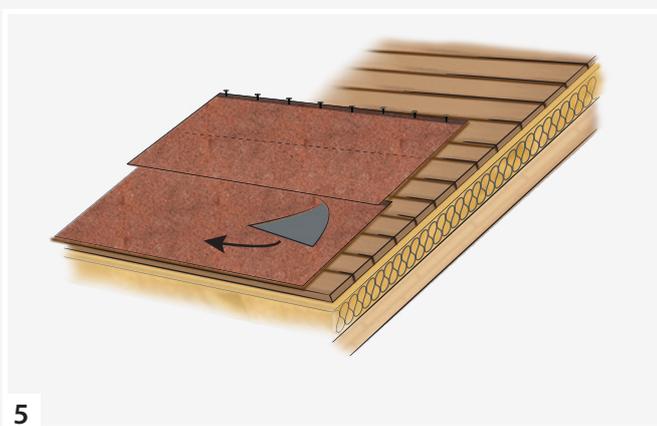
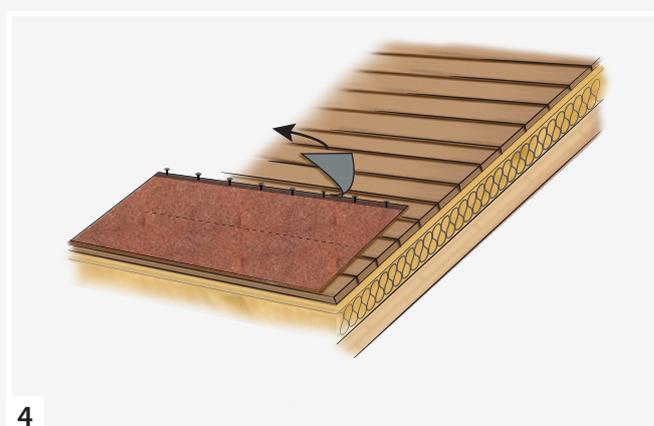
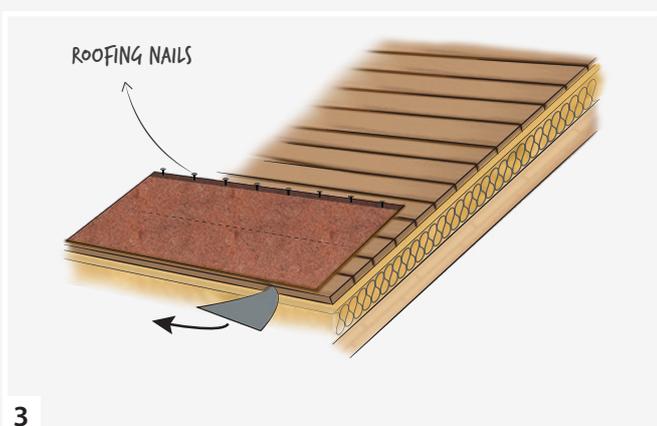
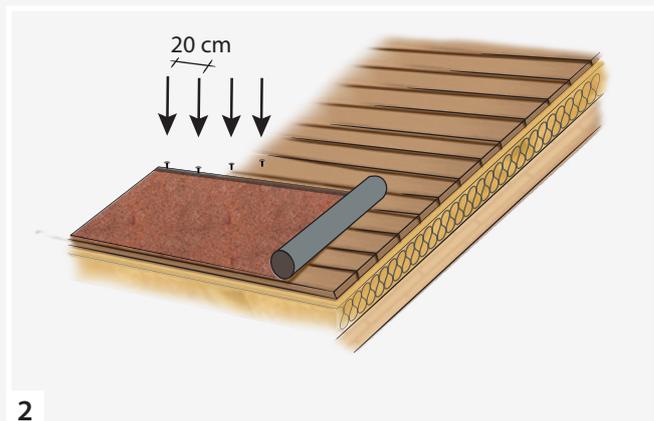
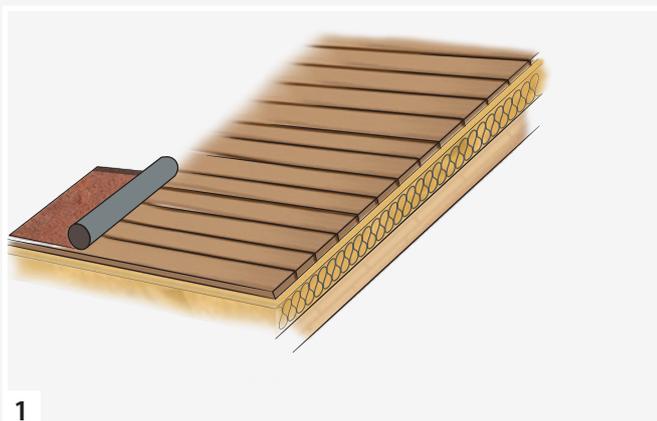
## CODES AND DIMENSIONS

code	ex code	description	colour	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
BYTSGRA3500	D38242	BYTUM SLATE GRAY 3500	■	-	1.0 x 10	10	30
BYTSRED3500	D38244	BYTUM SLATE RED 3500	■	-	1.0 x 10	10	30
BYTSGRE3500	D38246	BYTUM SLATE GREEN 3500	■	-	1.0 x 10	10	30

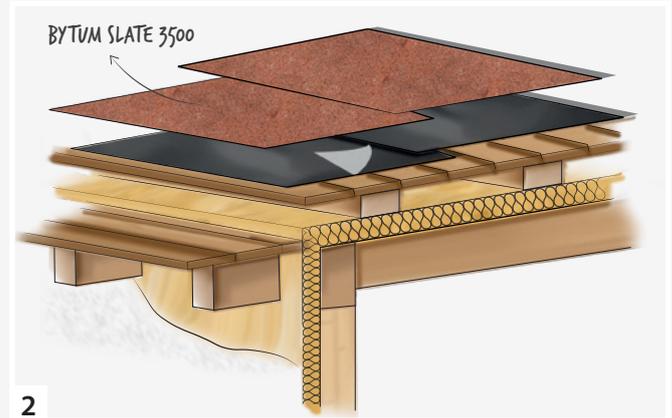
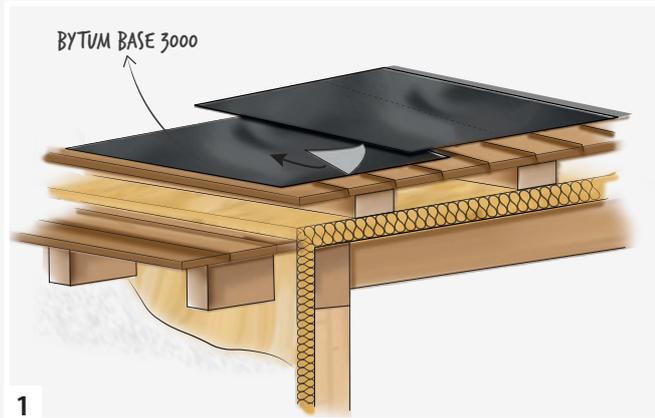
WHERE CAN IT  
BE APPLIED?



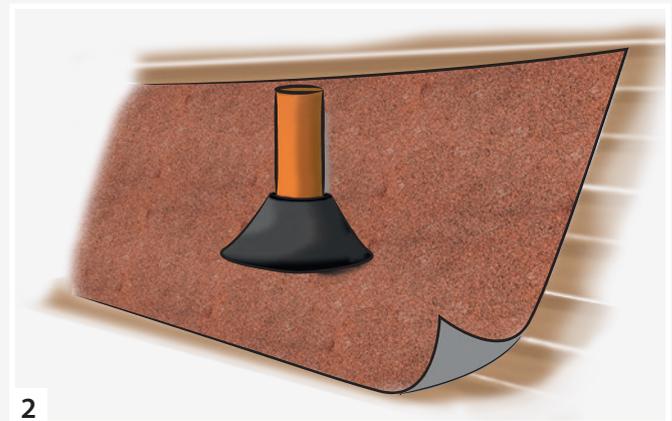
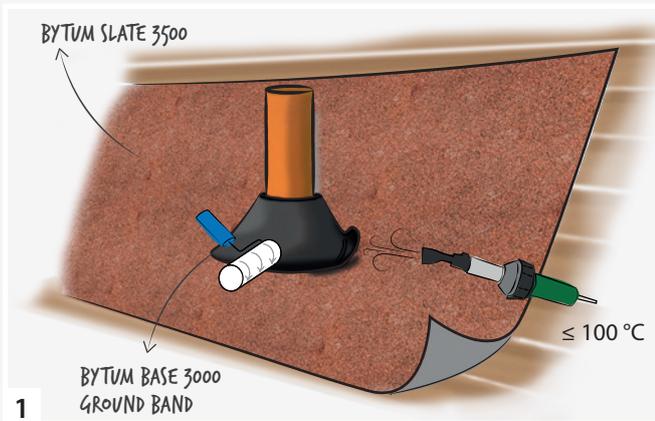
## INSTALLATION INSTRUCTIONS, BYTUM SLATE 3500



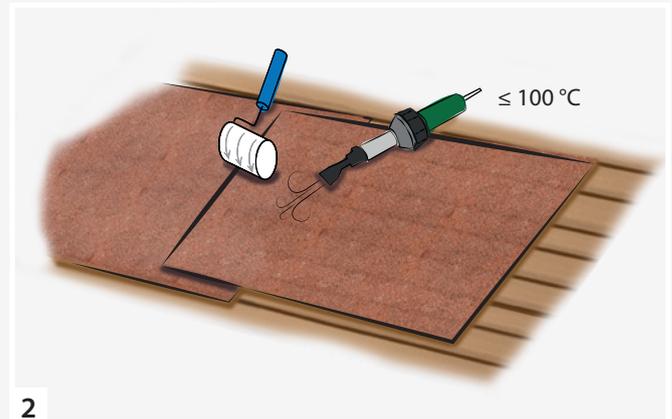
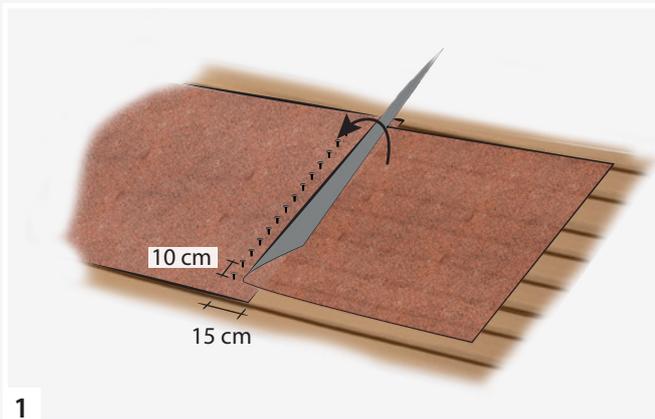
## INSTALLATION INSTRUCTIONS, BYTUM BASE 3000 AND BYTUM SLATE 3500 FLAT ROOF



### SLEEVE SEALING WITH BYTUM BASE 3000



### OVERLAPPING OF MEMBRANE HEAD BYTUM SLATE 3500



# BYTUM LIQUID / REINFORCEMENT



Spreadable waterproofing sheath/reinforcing layer

Elastomeric bitumen / polyester mesh



**BYTUM LIQUID:**

Can be plastered, coloured, tiled

Waterproofs openings with expansion up to 10 mm

Can also be used at low temperatures.

To combine with **BYTUM REINFORCEMENT** reinforcing mesh

## TECHNICAL SPECIFICATIONS BYTUM LIQUID

property	standard	value
Maximum application thickness	-	3 mm
Water vapour transmission (Sd)	EN 1931 EN ISO 12572	5 / 50 m
Elongation MD/CD	EN 12311-1	240 %
Watertightness	EN 1928	waterproof > 500 kPa
Reaction to fire	EN 13501-1	non-flammable
Flexibility at low temperature	EN 1109	-10 °C
Class and type	EN 14891	C PI-MC-IR / DM OP
Material yield per 1 mm thickness	-	1.5 kg/m <sup>2</sup>
Elongation with BYTUM REINFORCEMENT	EN 12311-1	80 %
Crack bridging	EN 1602-7	> 2.5 mm
Crack bridging with BYTUM REINFORCEMENT	-	> 10 mm
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1500 J/kgK
Recommended installation pitch	-	> 2°
Application temperature	-	+5 / +35 °C
Adhesives range for application of ceramic	EN 1015-6	C2 - S1 / S2
Apparent volume mass of mix	EN 1015-6	1.50 ± 0.05 kg/L
Waiting time for:		
• complete hardening	-	4 days
• application of each coat on the previous one	-	24 hours
• covering with ceramics or paint	-	4 days
Resistance to static loading - method A	EN 12730	45 kg
Resistance to static loading - method B	EN 12730	25 kg
Resistance to impact - method A	EN 12691	1000 mm
Resistance to impact - method B	EN 12691	1000 mm
Temperature resistance	-	+30 / +80 °C

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	description	content [t]	H x L [m]	A [m <sup>2</sup> ]	pcs/
1 BYTL	D38622	BYTUM LIQUID	10	-	-	100
2 BYTR	D38627	BYTUM REINFORCEMENT	-	1.0 x 50	50	24



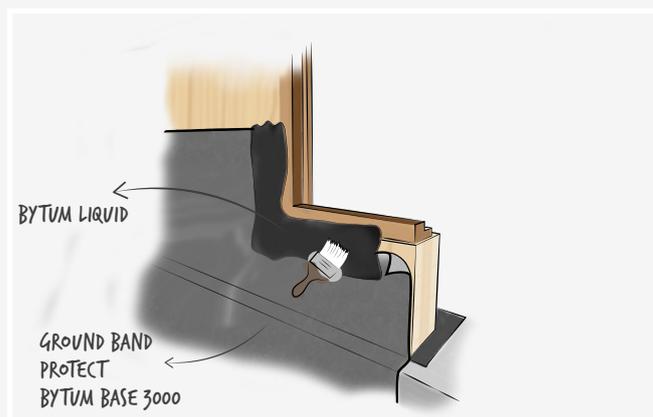
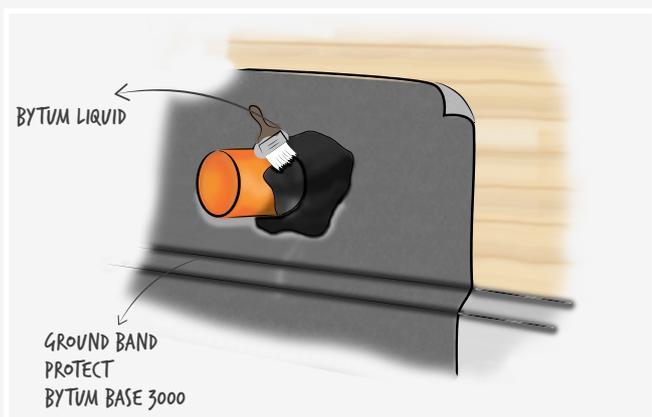
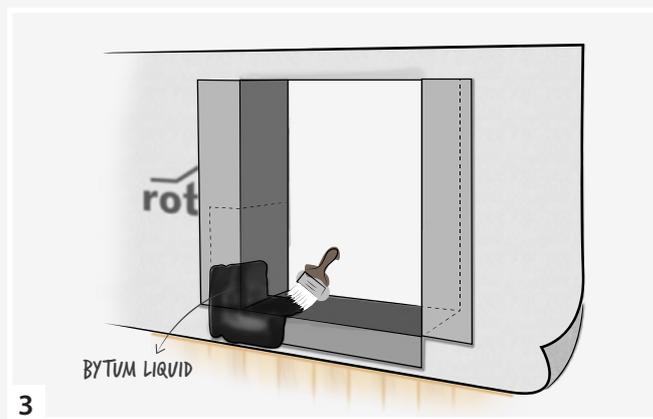
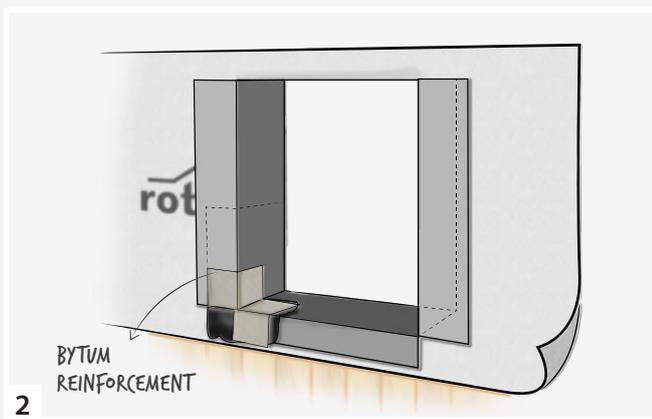
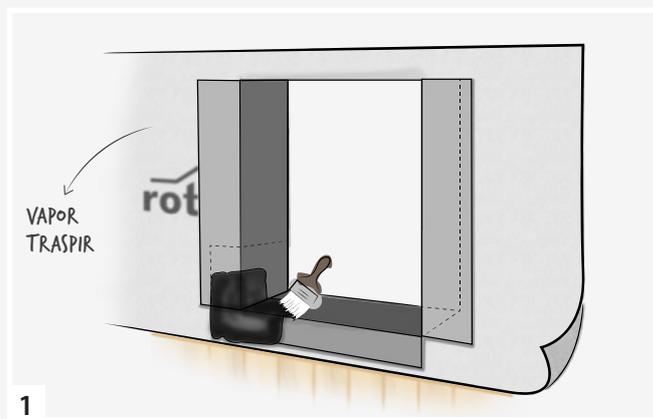
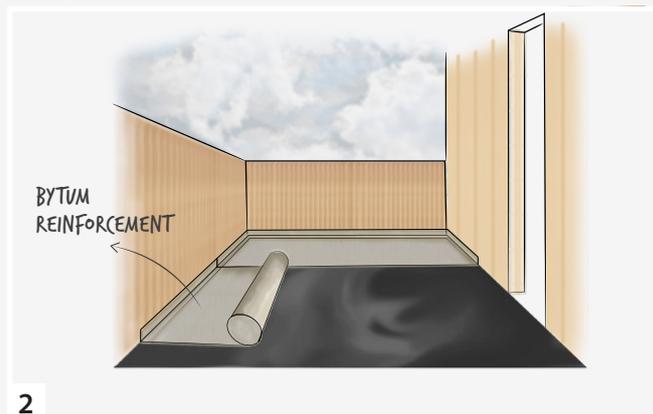
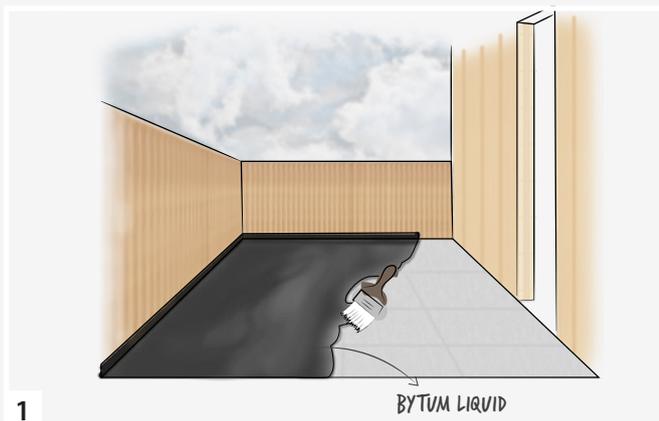
Mass per unit area 100 g/m<sup>2</sup>

Thickness 0.5 mm

WHERE CAN IT  
BE APPLIED?



# INSTALLATION INSTRUCTIONS BYTUM LIQUID AND BYTUM REINFORCEMENT



# RADON, AN UNWANTED HOUSE GUEST

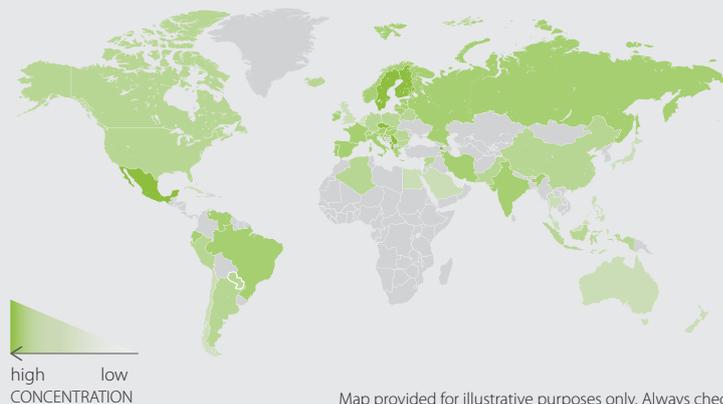
<sup>86</sup>Rn  
RADON

Radon is a noble radioactive gas that occurs in nature. It is highly volatile and tends to rise. It is odourless, making it difficult to perceive when concentrated inside of residences, and can have dangerous consequences if inhaled.

## AN INSIDIOUS GAS

Radon is found throughout the Earth's crust, in varying quantities. Since it is a gas, it moves through openings in the ground, dispersing into the air or water.

In the open it never reaches dangerous concentrations but, in closed areas (houses, offices, schools, etc.), it can arrive at values that create serious health risks. Threshold values are defined under international rules, which are then implemented by the relative national bodies.



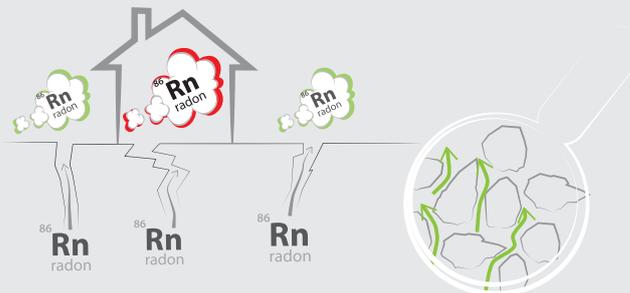
Map provided for illustrative purposes only. Always check for updates

## WHERE IS IT FOUND?



This gas is found in the subsoil, in rock and in water. In the same way that it moves through the ground, it can pass through construction materials and enter the house. Proper airing out of rooms can be useful to fight accumulation, but is often insufficient.

## HOW IT SPREADS



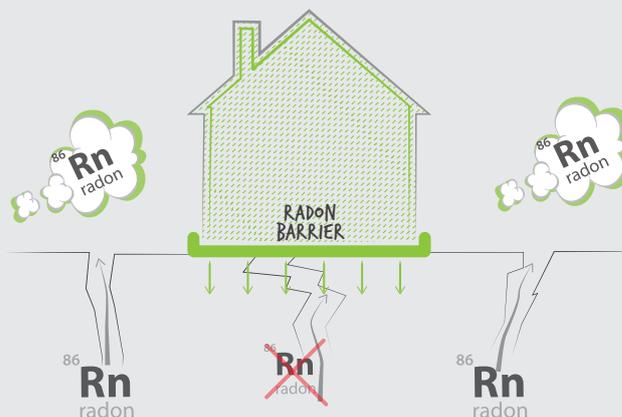
Radon becomes dangerous when it accumulates inside of the home.

Today, with increased awareness of low energy consumption buildings (which increase airtightness) and the relative decrease in natural ventilation, the risk of radon is greater than ever.

## THE IMPORTANCE OF GOOD DESIGN

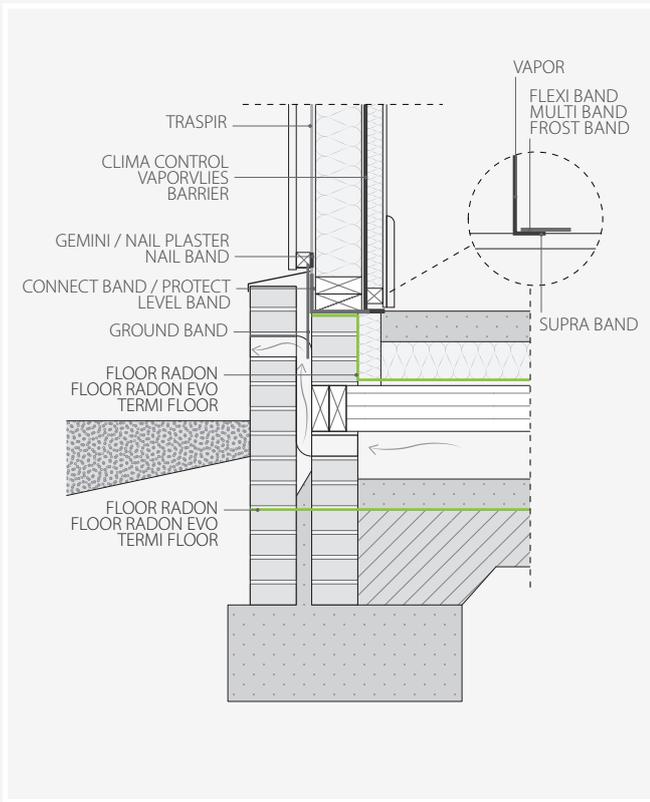
It is possible to minimise the presence of radon in homes through the use of specific sheaths and materials designed to reduce the permeability of the outer structures and foundation of the building.

The market offers a number of solutions. Of these, rothoblaas proposes FLOOR RADON and FLOOR RADON EVO, foundation barriers that impede radon from accessing indoor area, eliminating health risks.



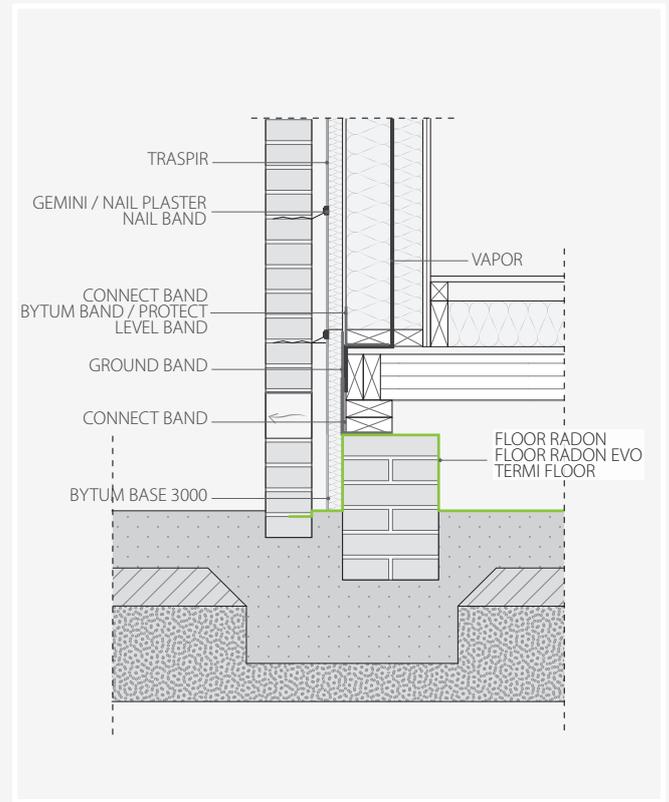
**DETAIL 1** | T-C\_1/2/8/9\_P4\*

Platform frame with foundation aeration



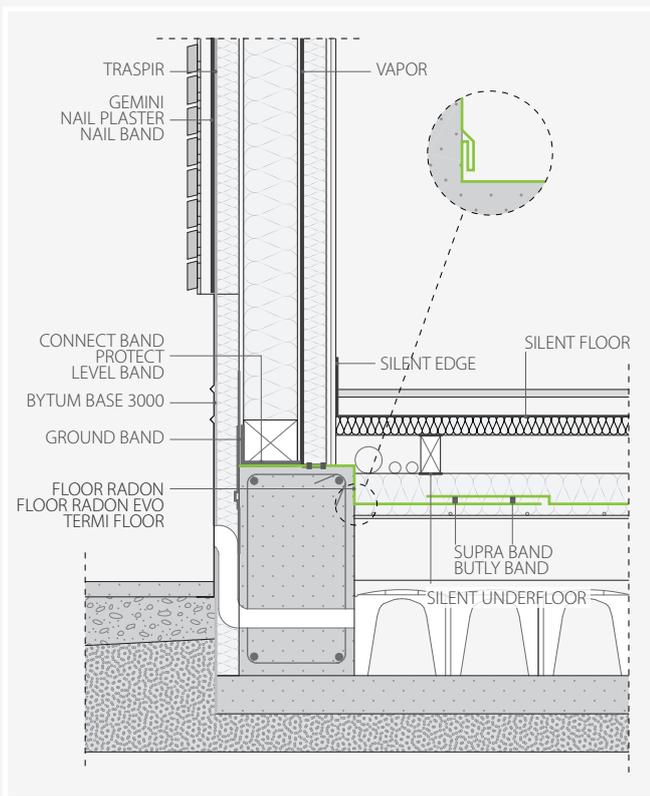
**DETAIL 2** | T-C\_1/2/8/9\_P1\*

Platform frame without foundation aeration



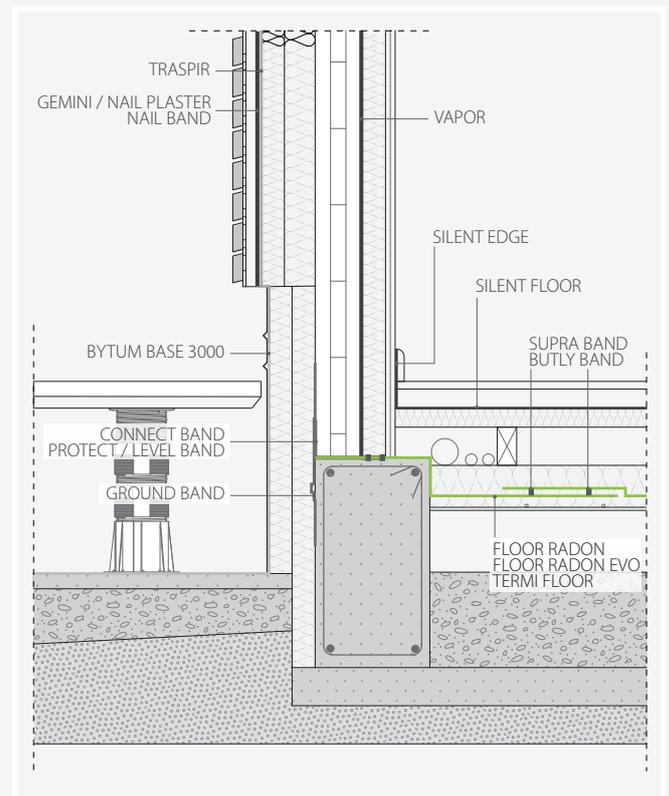
**DETAIL 3** | R\_T\_1/6/9\_B\*

Timber frame with aerated crawlspace in foundation



**DETAIL 4** | R\_X\_1/6/9\_C\*

XLAM (Cross Laminated Timber) without foundation aeration



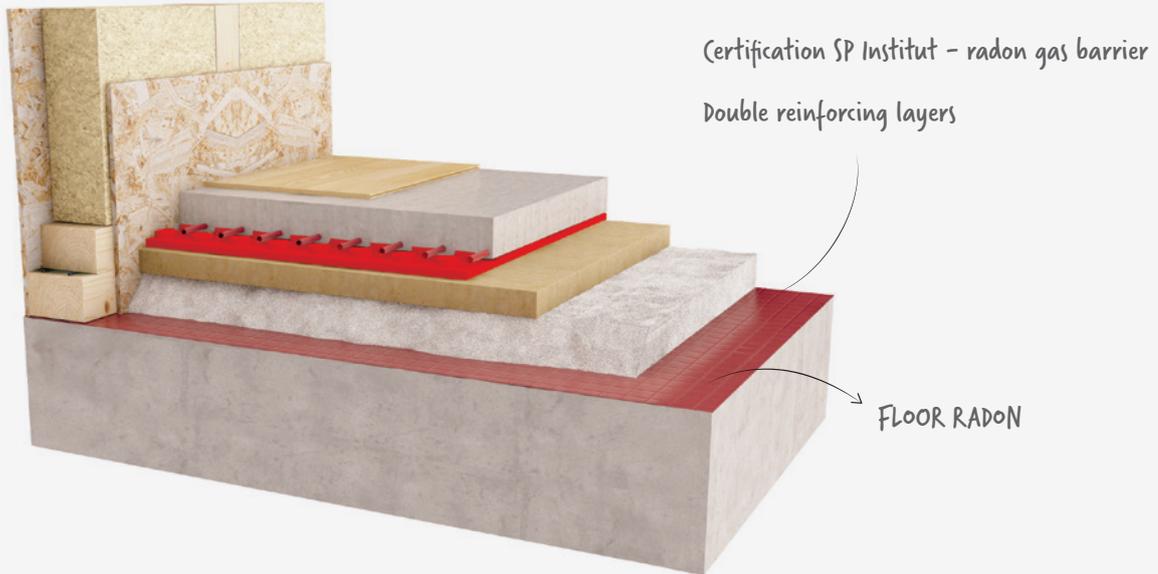
\* NOTE: Consult the complete library of building details at [www.rothoblaas.com](http://www.rothoblaas.com)

# FLOOR RADON



## Waterproofing radon gas barrier for foundations

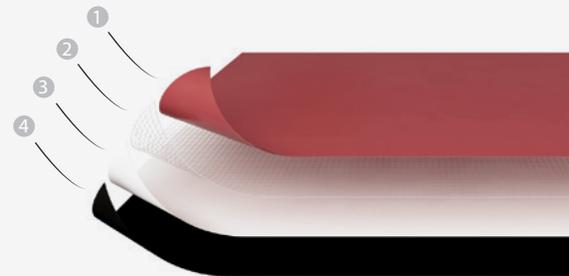
Double layer of low density polyethylene (LDPE) with reinforcing mesh and high density polyethylene (HDPE) reinforcing layer



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	350 g/m <sup>2</sup>
Thickness	EN 1849-2	0.4 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	232 m
Maximum tensile force MD/CD	EN 12311-1	450 / 420 N/50 mm
Elongation MD/CD	EN 12311-1	12 / 12 %
Resistance to tearing MD/CD	EN 12310-1	300 / 300 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Static punching shear	-	200 N
Impact resistance	-	200 mm
Joint strength	EN 13501-1	> 60 N
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
Flexibility at low temperature	-	-20 °C
Dimensional stability	EN 13984	< 2 %
Thermal conductivity (λ)	-	0.4 W/mK
Specific heat	-	1800 J/kgK
Density	-	approx. 875 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 580000
Radon permeability	-	< 10 x 10 <sup>-12</sup> m <sup>2</sup> /s
Radon transmittance	-	< 20 x 10 <sup>-9</sup> m/s
Compatibility with bitumen	-	compatible

## COMPOSITION



- 1 top layer: red LDPE layer
- 2 reinforcing layer: reinforcing PL grid
- 3 middle layer: HDPE layer
- 4 bottom layer: black LDPE layer

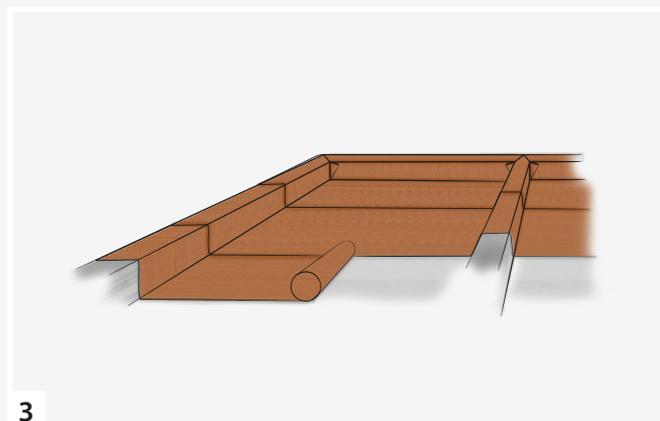
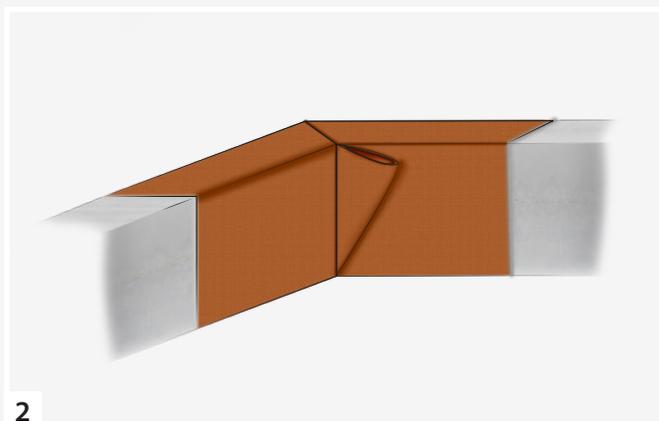
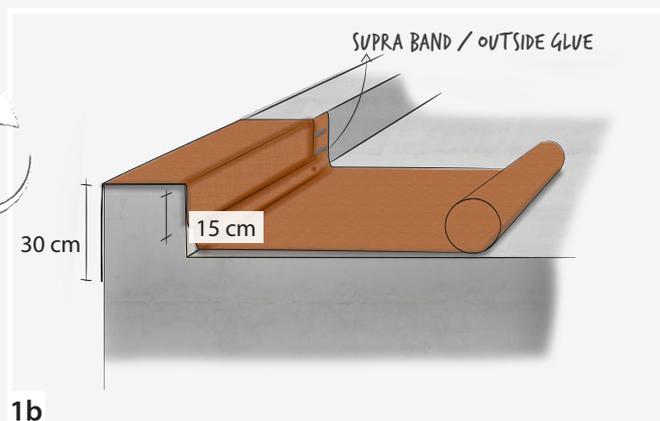
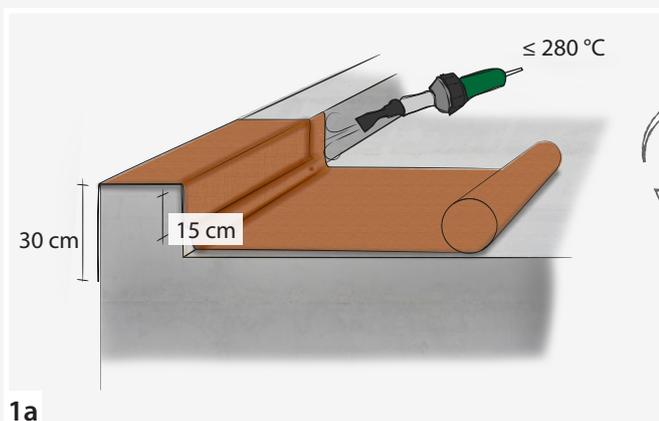
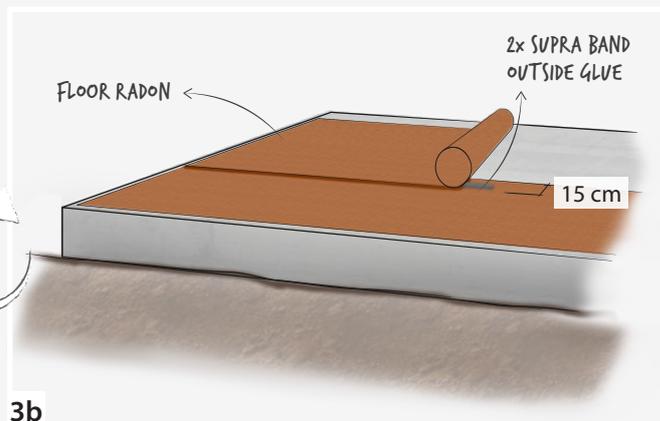
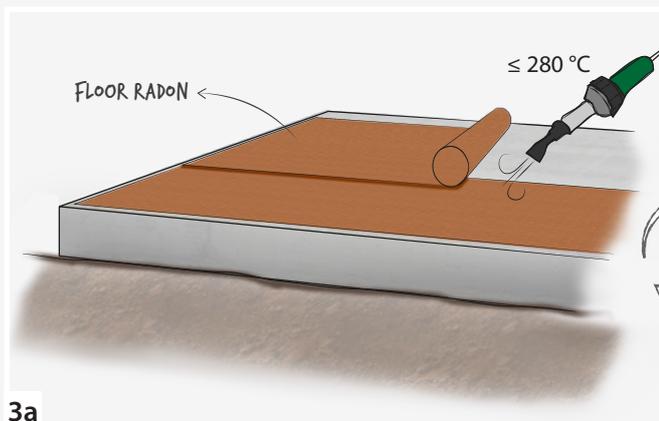
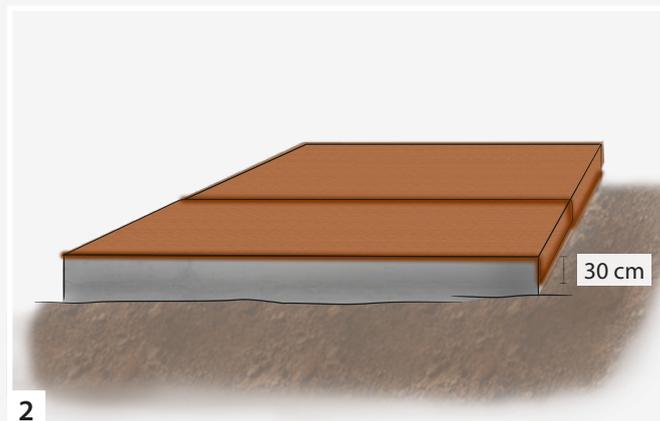
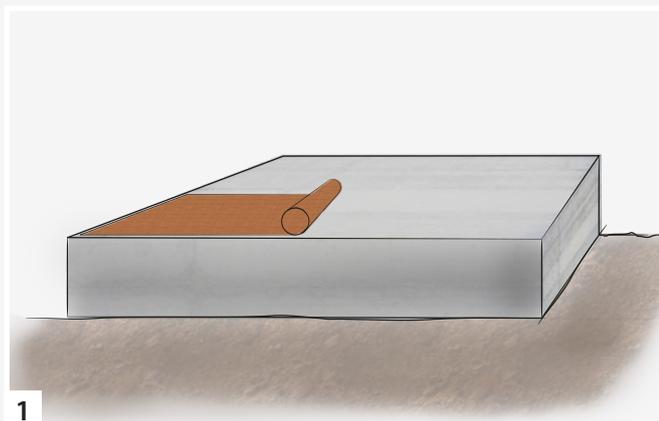
## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>RADON350</b>	D45205	FLOOR RADON	-	2.0 x 25	50	42

WHERE CAN IT  
BE APPLIED?



## INSTALLATION INSTRUCTIONS FLOOR RADON



# FLOOR RADON EVO



Self-adhesive waterproofing radon gas barrier for foundations

Rubber-bituminous compound with aluminium layer and polyester (PL) coating



Certification SP Institut - radon gas barrier

Self-adhesive

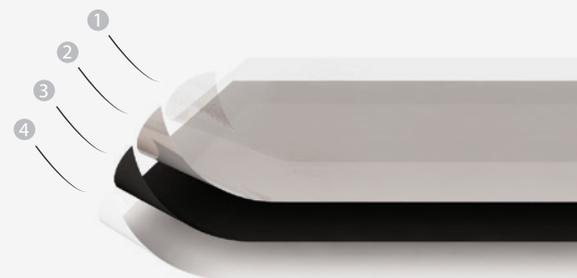
Aluminized surface that reflects heat and radon gas

FLOOR RADON EVO

## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	1.2 kg/m <sup>2</sup>
Thickness	EN 1849-2	1.2 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	> 1500 m
Maximum tensile force MD/CD	EN 12311-1	150 / 150 N/50 mm
Elongation MD/CD	EN 12311-1	20 / 20 %
Resistance to tearing MD/CD	EN 12310-1	70 / 70 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Static punching shear	-	0.15 / 0.20 N
Joint strength	-	> 35 N/50 mm
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /m <sup>2</sup> h50Pa
Flexibility at low temperature	EN 1109	-20 °C
Dimensional stability	EN 1107-2	< 2 %
Thermal conductivity (λ)	-	0.2 W/mK
Specific heat	-	1500 J/kgK
Density	-	approx. 1000 kg/m <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 1250000
Radon permeability	-	0.56 x 10 <sup>-12</sup> m <sup>2</sup> /s
Radon transmittance	-	0.47 x 10 <sup>-9</sup> m/s

## COMPOSITION



- 1 protection: PL film
- 2 top layer: reinforced aluminium film
- 3 bottom layer: self-adhesive bitumen with elastomeric polymer
- 4 separation layer: silicone paper

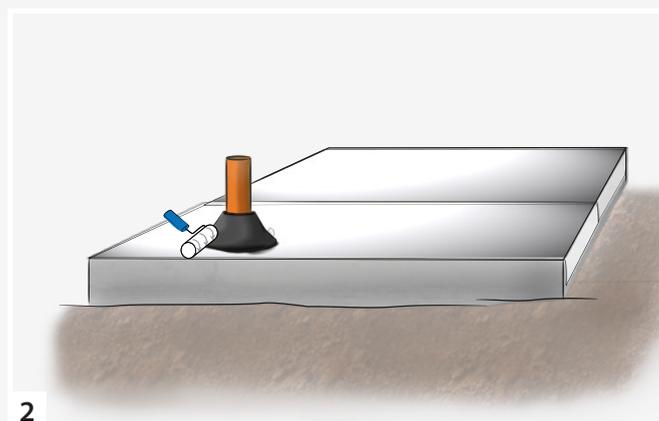
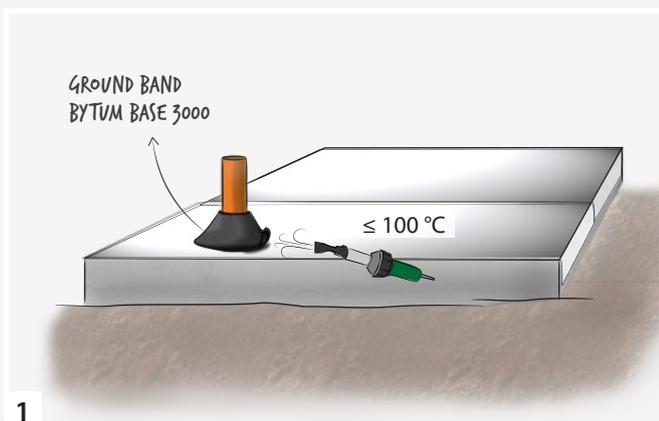
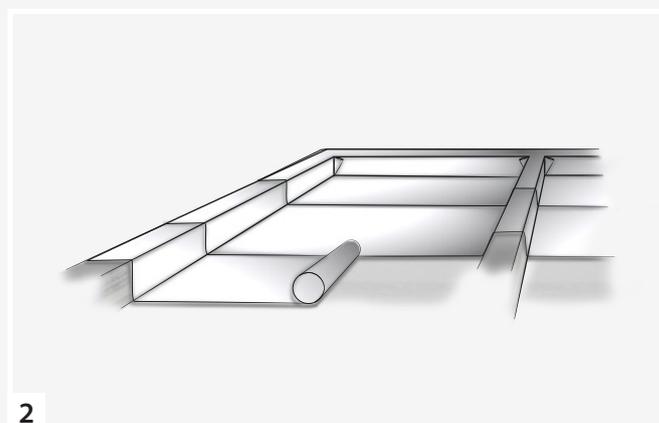
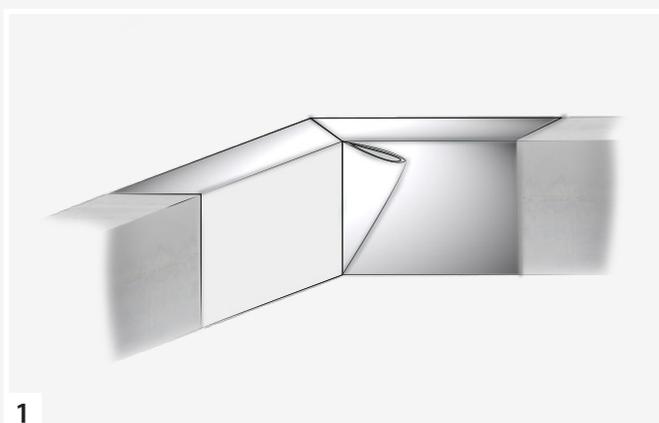
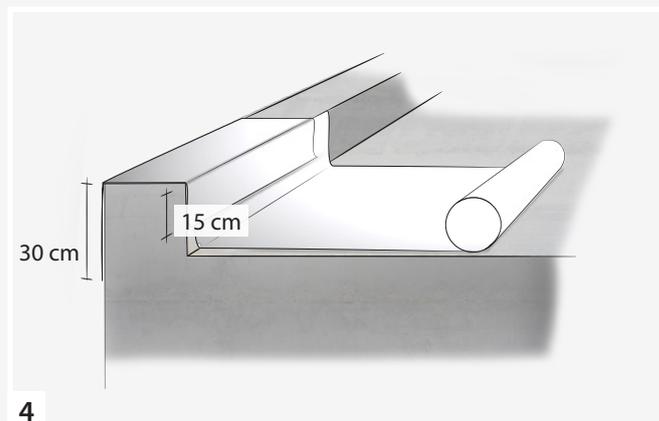
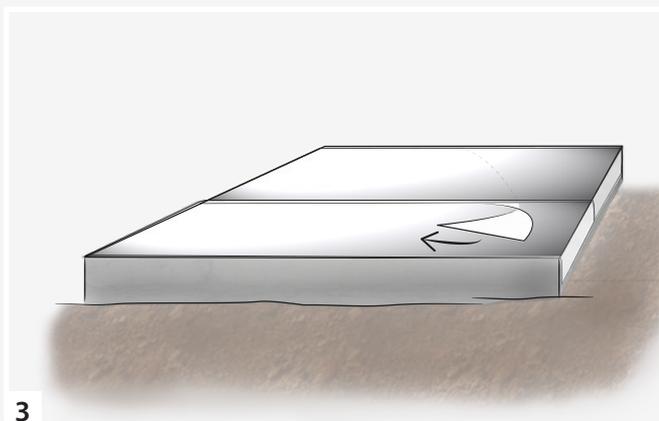
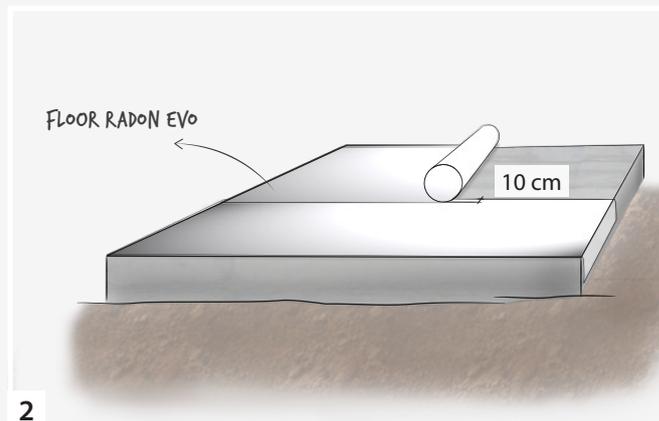
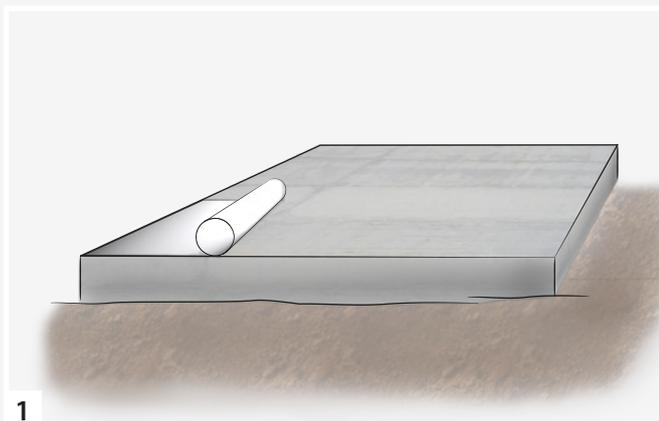
## CODES AND DIMENSIONS

code	ex code	description	tape	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>RADONEVO1200</b>	D45215	FLOOR RADON EVO	-	1.0 x 25	25	25

WHERE CAN IT  
BE APPLIED?



## INSTALLATION INSTRUCTIONS FLOOR RADON EVO

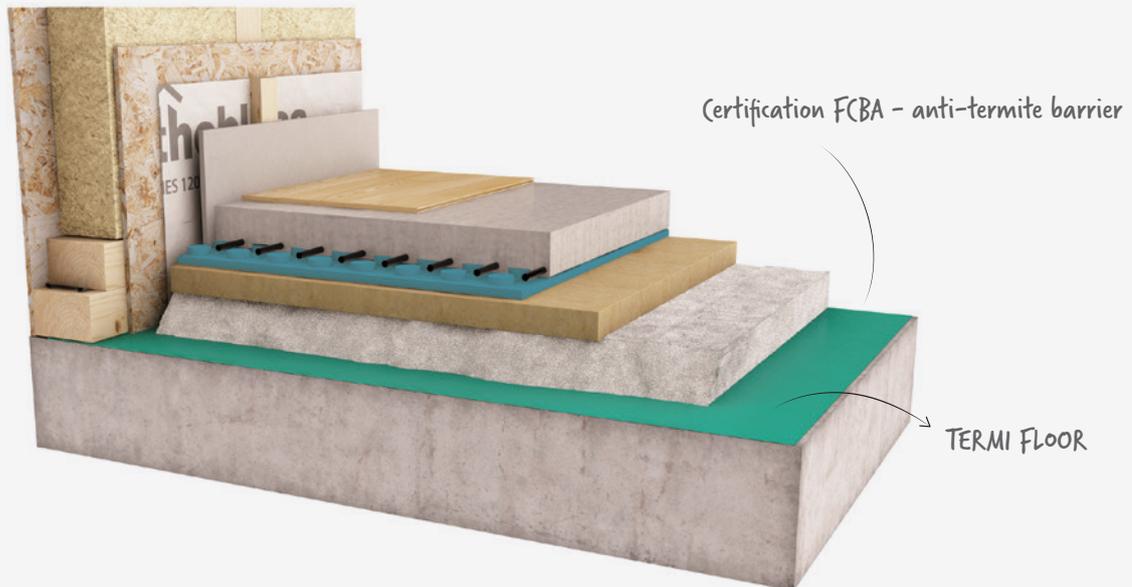


# TERMI FLOOR



Waterproof anti-termite barrier for foundations

Single layer of low density polyethylene (LDPE)



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>
Thickness	EN 1849-2	0.35 mm
Straightness	EN 1848-2	conforming
Water vapour transmission (Sd)	EN 1931 / EN ISO 12572	232 m
Maximum tensile force MD/CD	EN 12311-1	450 / 420 N/50 mm
Elongation MD/CD	EN 12311-1	12 / 12 %
Resistance to tearing MD/CD	EN 12310-1	300 / 300 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Static punching shear	-	200 N
Impact resistance	-	200 mm
Joint strength	EN 13501-1	> 60 N
Compatibility with bitumen	-	compatible

NOTE: Avoid contact with the skin. Do not store near food or other items for ingestion

## COMPOSITION



① single layer: special green LDPE layer

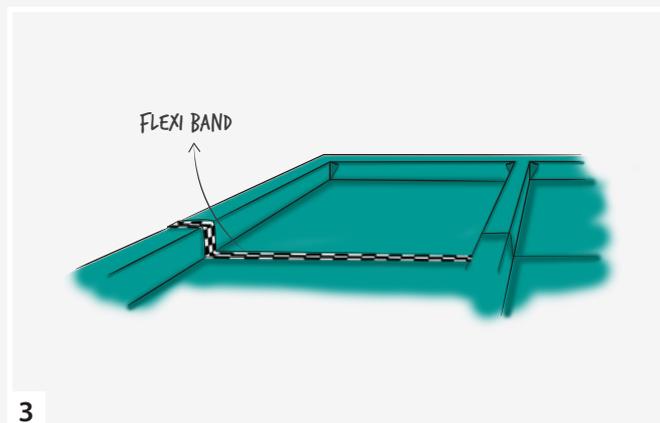
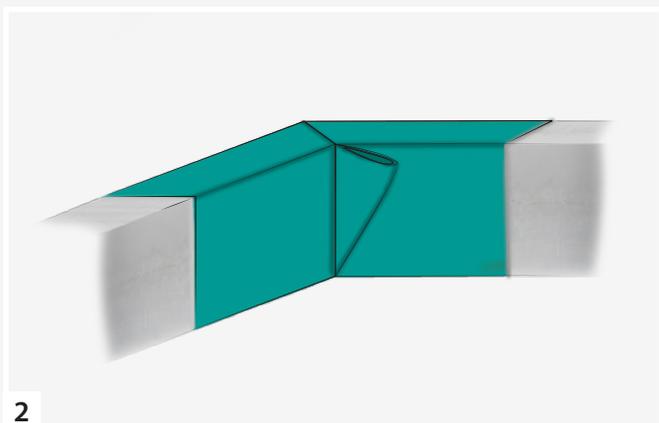
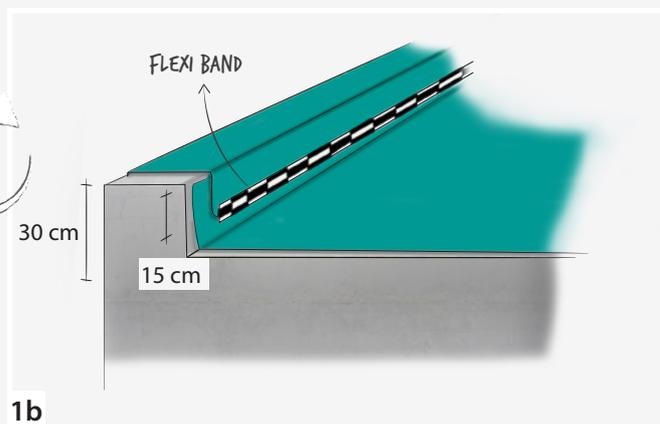
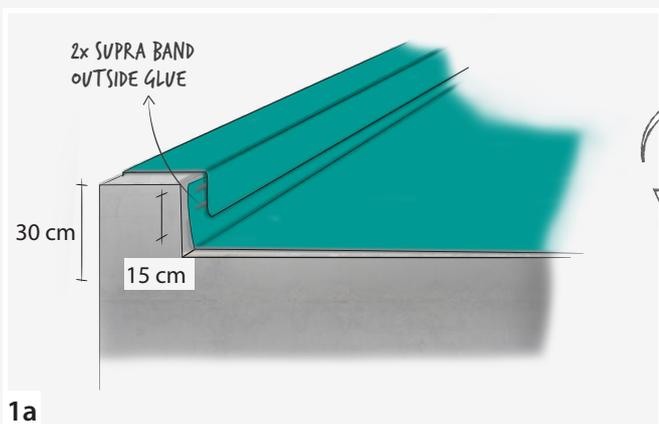
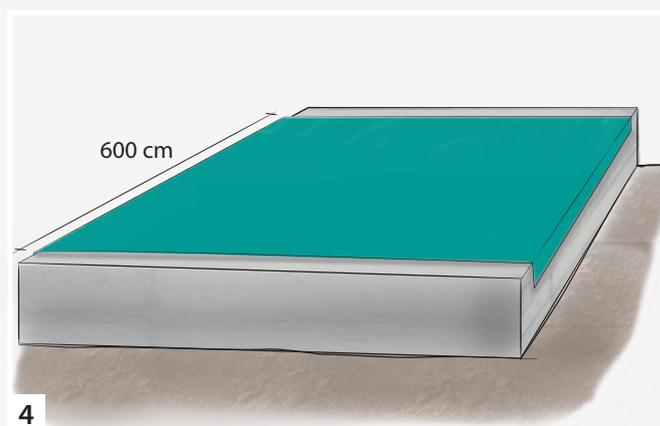
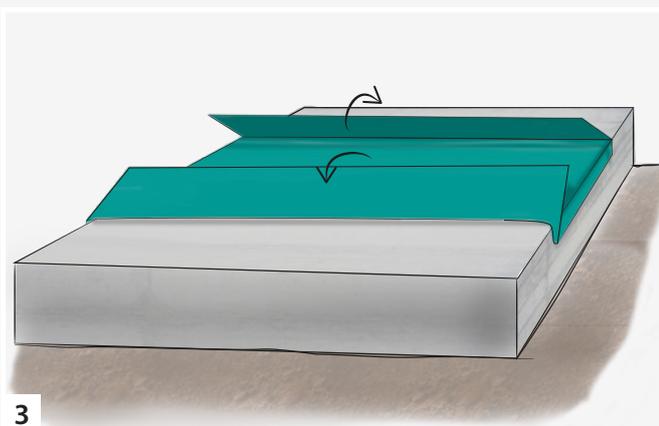
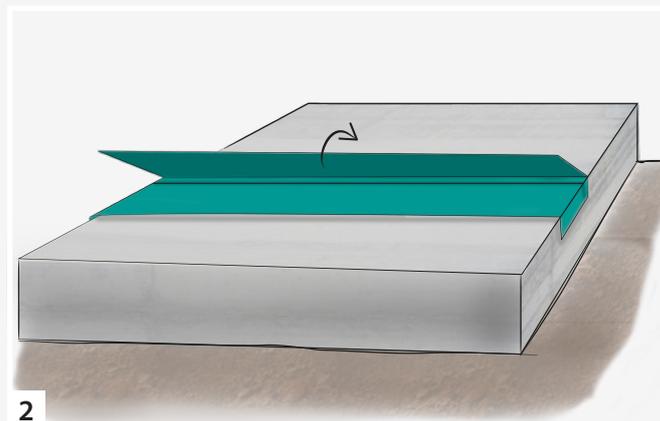
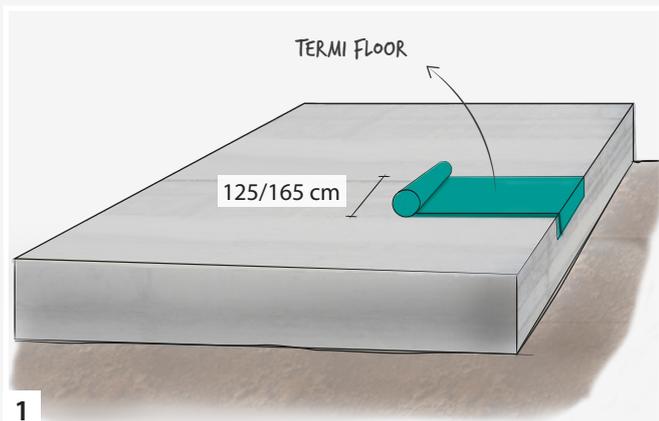
## CODES AND DIMENSIONS

code	ex code	description	roll [m]	H x L [m]	A [m <sup>2</sup> ]	pcs/
<b>TERMI75</b>	D45307	TERMI FLOOR 75 mq	1.25 x 12.5	6.0 x 12.5	75	48
<b>TERMI150</b>	D45308	TERMI FLOOR 150 mq	1.65 x 25	6.0 x 25	150	36

WHERE CAN IT  
BE APPLIED?



# INSTALLATION INSTRUCTIONS TERMI FLOOR





## TAPES AND PROFILES

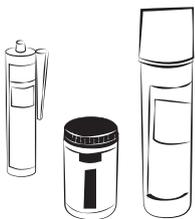
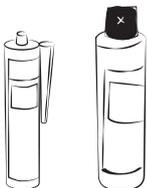
# 4

	FLEXI BAND	116
	EASY BAND	117
	SPEEDY BAND	118
	FROST BAND	119
	MULTI BAND	120
	SUN BAND	121
	FACADE BAND UV	122
	FRONT BAND UV 210	123
	SEAL BAND	124
	SEAL SQUARE	125
	DOUBLE BAND	128
	SUPRA BAND	129
	ALU BAND	130
	ALU BUTYL BAND	131
	PLASTER BAND IN	132
	PLASTER BAND OUT	133
	FRAME BAND	135
	KOMPRI BAND	136
	PROTECT	138
	BYTUM BAND	139
	GROUND BAND	140
	BLACK BAND	141
	CONNECT BAND	142
	LEVEL BAND	143
	TIE-BEAM STRIPE	144
	CONSTRUCTION SEALING	145
	GIPS BAND	146
	NAIL BAND	147
	NAIL PLASTER	148
	GEMINI	149

# TAPES, PROFILES, SEALANTS AND ACCESSORIES

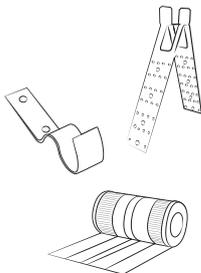
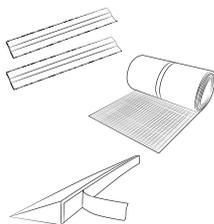
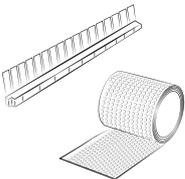
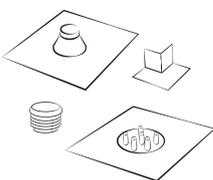
## SEALANTS

# 5

	PRIMER	154
	PRIMER SPRAY	155
	SUPERB GLUE	156
	MEMBRANE GLUE	157
	OUTSIDE GLUE	158
	BUTYL BAND	159
	HERMETIC FOAM	161
	SEALING FOAM	162
	TILE FOAM	163
	UNIVERSAL GEL	164
	FLY SOFT	165
	FLY 400/401	165
	FLY FOAM	165
	FOAM CLEANER	165

## ACCESSORIES

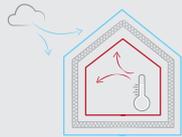
# 6

	NET ROLL	168
	ORION ROLL	169
	STANDARD ROLL	170
	PEAK HOOK	170
	PEAK VENT	171
	SUPPORT	172
	ALU RAPID	173
	VALLEY ALU	174
	GASKET	174
	GUTTER	175
	SNOW STOP	175
	BIRD COMB EVO	176
	BIRD COMB	177
	BIRD SPIKE	177
	VENT MESH	177
	THERMOWASHER	178
	ISULFIX	179
	MANICA	180
	MANICA PLASTER	181
	MANICA POST	181
	TUBE STOPPER	182
	ALPHA	182

# AIR AND WIND TIGHTNESS

The airtight casing guarantees that in the winter warm air and humidity inside the building are not lost to the outside, preventing the formation of interstitial condensation. The hermetic nature of the casing offers energy savings and comfortable living.

## WIND AND AIR



The continuous **AIRTIGHT** layer prevents internal air from penetrating the thermal casing; the **WIND TIGHT** layer blocks all external air flow and ensures watertightness.

## CONDENSATION



A family of 4 produces around 10 l per day of water vapour, and air serves as one of the main vectors. Let's imagine air as a container: at high temperatures its volume increases, allowing it to absorb more water vapour. When temperatures cool down, on the other hand, air reduces its volume and its ability to absorb vapour; once the saturation point is reached, the excess vapour is eliminated in the form of condensation (water droplets).

WHAT TYPE OF GLUE?	PROPERTIES AND FIELD OF APPLICATION
<b>ACRYLIC:</b> solvent-free polymeric mix	<ul style="list-style-type: none"> <li>• Suitable for smooth surfaces</li> <li>• Thermally stable</li> <li>• Elastic</li> </ul>
<b>BUTYL:</b> derived from refined bitumen, solvent-free	<ul style="list-style-type: none"> <li>• Suitable for very irregular and porous surfaces</li> <li>• Deformable</li> <li>• UV stable over time</li> <li>• Effective at low temperatures</li> </ul>
<b>BITUMEN:</b> crude, refined and distilled, solvent-free	<ul style="list-style-type: none"> <li>• Suitable for irregular surfaces</li> <li>• Thermally stable</li> </ul>

## CHOOSE A SEALING PRODUCT OR TAPE

- 

1. Examine the nature of the surfaces and their shape. Very irregular surfaces require more glue in order to activate the adhesion process.
- 

2. Water, sudden temperature changes and exposure to UV rays may shorten the service life of the products. The best-performing products can remain functional even with a damp support surface.
- 

3. It is necessary to analyse the mechanical stress to which the product will be subjected once it is working. During the application phase, it is important to reduce tension and elongation down to a minimum.
- 

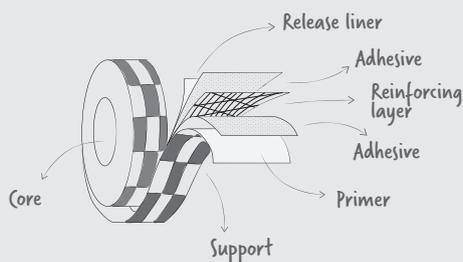
4. Prior to application, check to see whether any technical requirements must be complied with.
- 

5. It is mandatory to comply with the final date, if indicated, within which the product has to be applied.

Keep the tapes in their original packing to avoid any direct exposure to sunlight and prevent any contact with dust and dirt. For storage, it is generally a good idea to ensure certain conditions are met: temperature between 5 and 25 °C, relative humidity **below 65%** and avoid extreme weather conditions and direct exposure to heat sources.

WHAT IS THE MOST APPROPRIATE MATERIAL?	PROPERTIES AND FIELD OF APPLICATION
Non-woven PP fabric	<ul style="list-style-type: none"> <li>• Can be plastered</li> <li>• Thermally stable</li> <li>• Flexible</li> </ul>
Polyethylene film	<ul style="list-style-type: none"> <li>• Waterproof</li> <li>• Flexible</li> </ul>
Expanded polyurethane foam	<ul style="list-style-type: none"> <li>• Suitable to fill in cracks on irregular surfaces</li> <li>• Rapid expansion (linked to weather conditions)</li> <li>• Elastic over time</li> <li>• Waterproof</li> </ul>
Closed cell polyethylene foam	<ul style="list-style-type: none"> <li>• Thermally stable</li> <li>• Chemically stable</li> <li>• Waterproof</li> </ul>
Impregnated paper	<ul style="list-style-type: none"> <li>• Workable</li> <li>• Thermally stable</li> </ul>
EPDM	<ul style="list-style-type: none"> <li>• High thermal stability</li> <li>• High chemical stability</li> <li>• Elasticity remains stable over time</li> <li>• High mechanical strength and resistance to wear</li> <li>• Waterproof</li> </ul>

HOW IS TAPE MADE?



**Support:** film to which the adhesive mix and the other components are applied.

**Primer:** layer that serves as a binder between the support and the adhesive.

**Release liner:** removable anti-adhesive layer that makes it possible to unwind the tape.

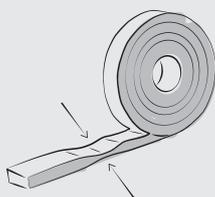
**Reinforcing layer:** polymeric mesh that provides strength and stiffness to the final product.

**Internal Core:** cardboard or plastic cylinder around which the tape is wound.

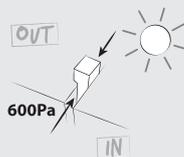
**Fingerlift:** part of the liner that sticks out in order to simplify its removal.

FOCUS: SELF-EXPANDING TAPES

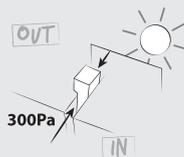
Standard DIN 18542:2009 identifies the fields of application for self-expanding tapes, classifying them in 3 categories:



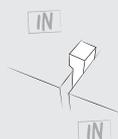
Products generally obtained from expanded polyurethane foam. Ideal for filling in irregular cracks that need to maintain high elasticity over time. Expansion times depend on the operating temperature at the worksite. Excellent thermal/acoustic insulation, permeability to vapour and heavy rain can vary.



**BG1** appropriate for external use, including exposure to UV rays, permeable to vapour. Creates a waterproof connection for pressures exceeding 600 Pa.



**BG2** appropriate for external use, if not directly exposed to UV rays, permeable to vapour. Creates a waterproof connection for pressures exceeding 300 Pa.



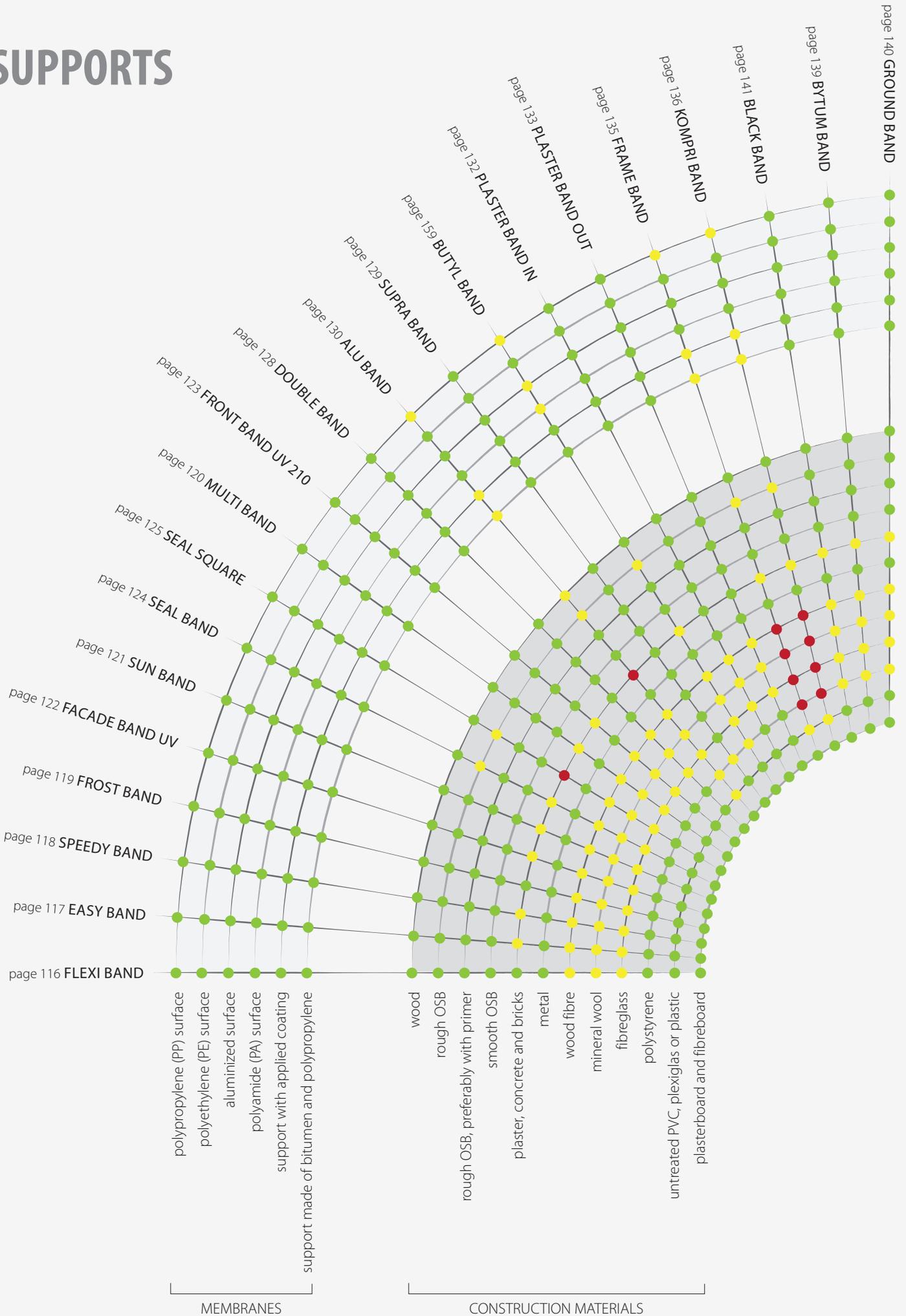
**BGR** not appropriate for external use, impermeable to air and vapour.

# NODES AND FIELD OF APPLICATION

		TAPES																		
		FLEXI BAND page 116	EASY BAND page 117	SPEEDY BAND page 118	FROST BAND page 119	MULTI BAND page 120	SUN BAND page 121	FACADE BAND UV page 122	FRONT BAND UV 210 page 123	SEAL BAND page 124	SEAL SQUARE page 125	DOUBLE BAND page 128	SUPRA BAND page 129	ALU BAND page 130	ALU BUTYL BAND page 131	PLASTER BAND IN page 132	PLASTER BAND OUT page 133	FRAME BAND page 135	KOMPRI BAND page 136	PROTECT page 138
STRUCTURAL NODES	 foundation - wall														✓					✓
	 wall - wall	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
	 slab - wall	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
	 beam - wall	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
	 girder - beam	✓	✓	✓	✓	✓		✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
DOORS/WINDOWS	 door / wall frame - wall	✓	✓		✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
	 skylight	✓	✓		✓	✓	✓			✓			✓		✓	✓	✓	✓	✓	✓
SEALING	 sealing nail point														✓					
	 sealing membranes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
	 sealing by compression																	✓	✓	
	 sealing that can be plastered					✓										✓	✓			✓
	 sealing of technical installations and passages	✓	✓		✓	✓	✓	✓		✓	✓			✓	✓				✓	✓
	 chimneys and vents	✓	✓		✓	✓	✓	✓		✓				✓	✓				✓	✓
APPLICATION	 internal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	 external	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓

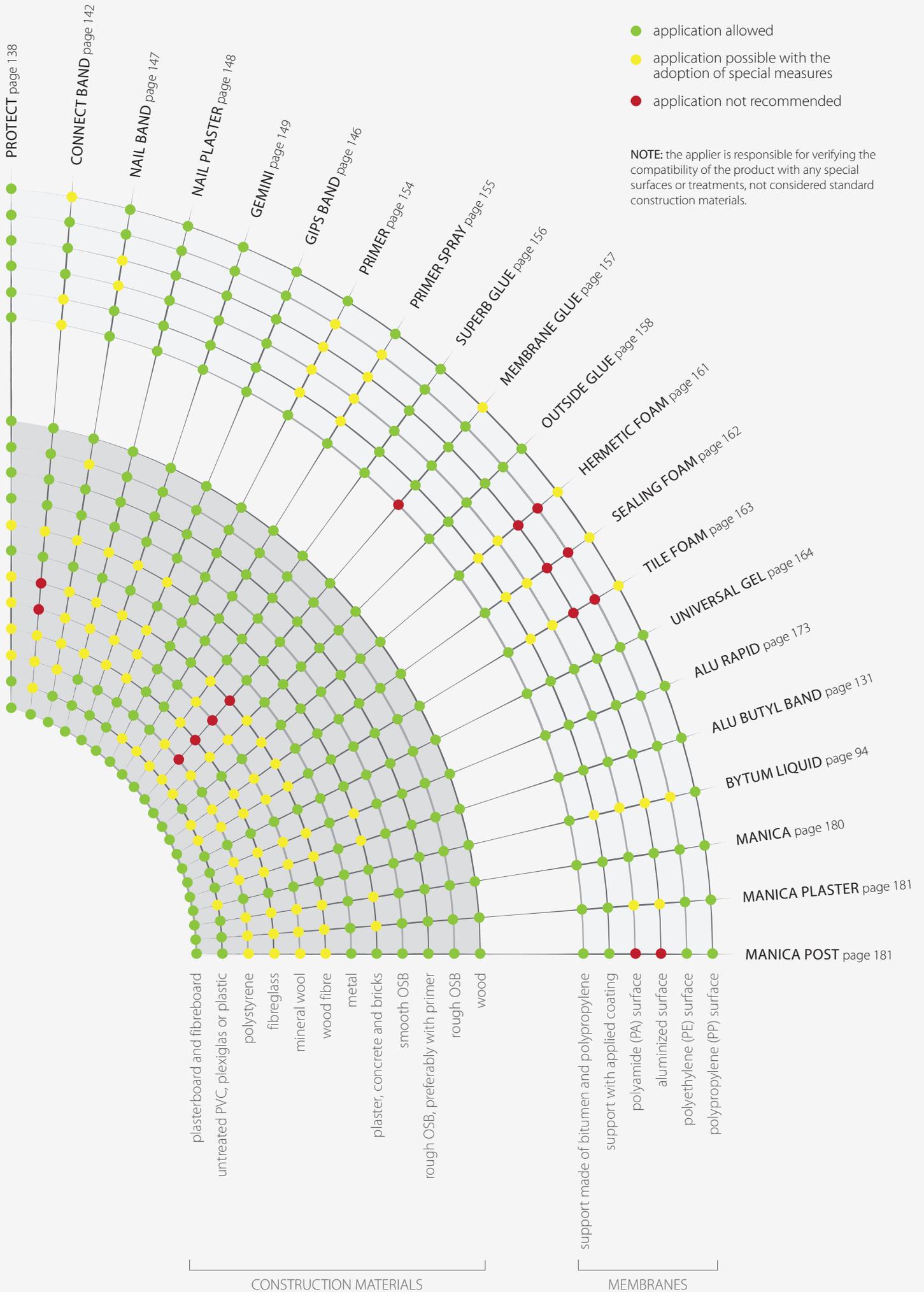


# SUPPORTS



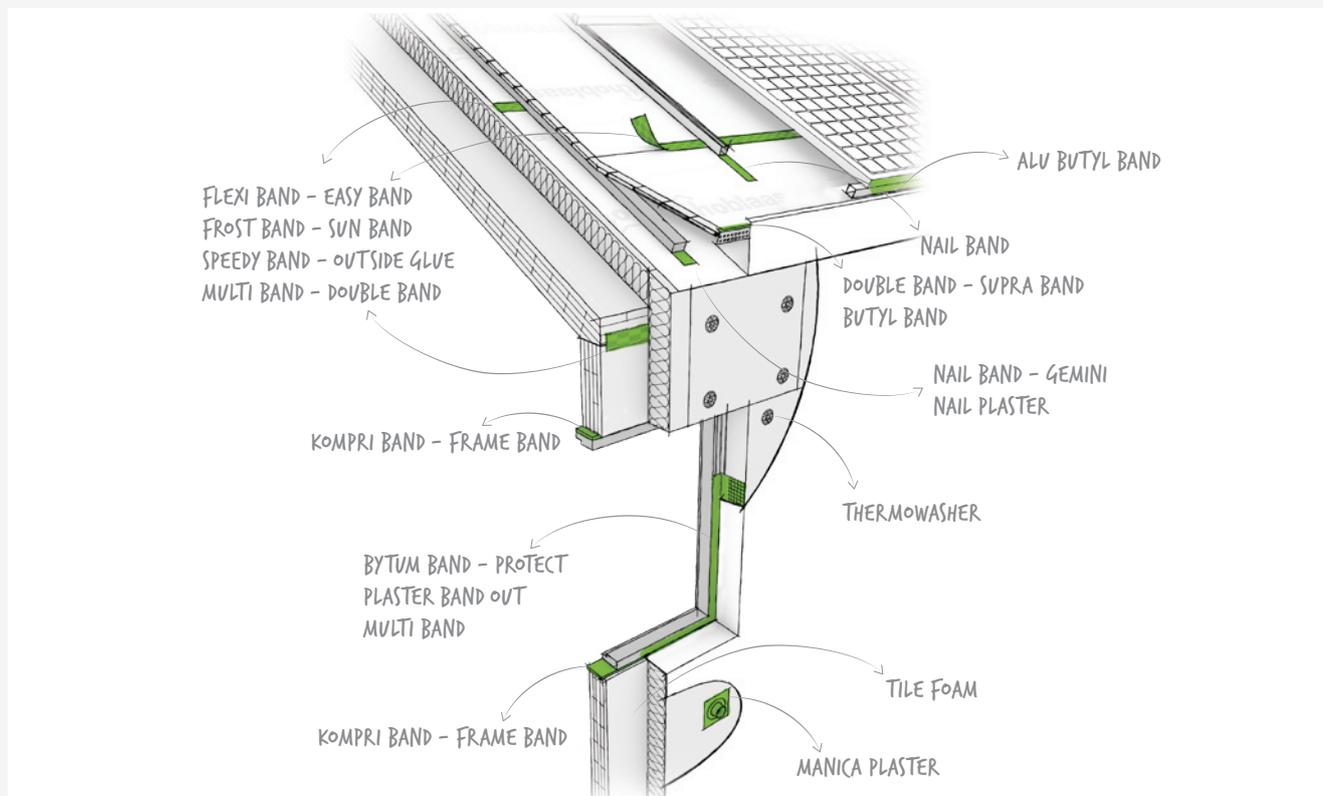
- application allowed
- application possible with the adoption of special measures
- application not recommended

NOTE: the applier is responsible for verifying the compatibility of the product with any special surfaces or treatments, not considered standard construction materials.

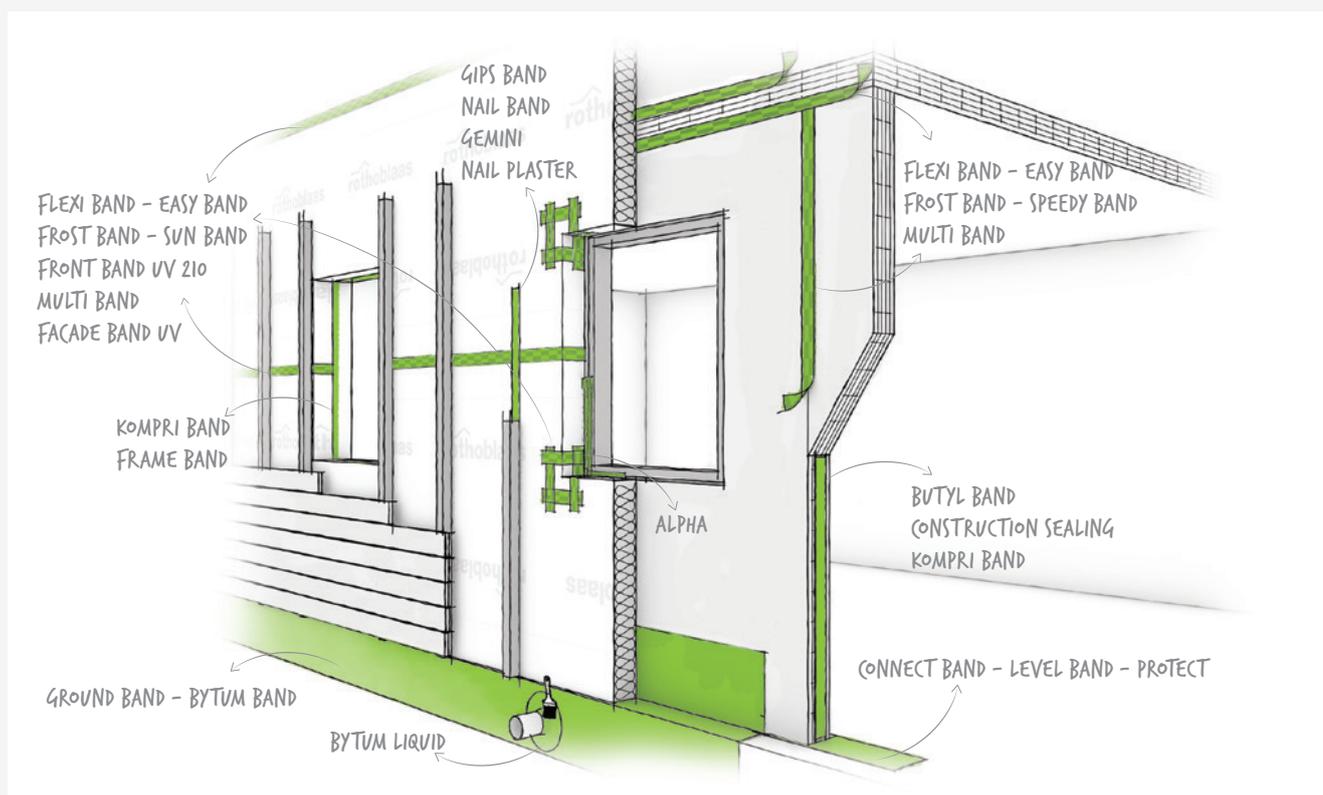


# APPLICATION SETTINGS

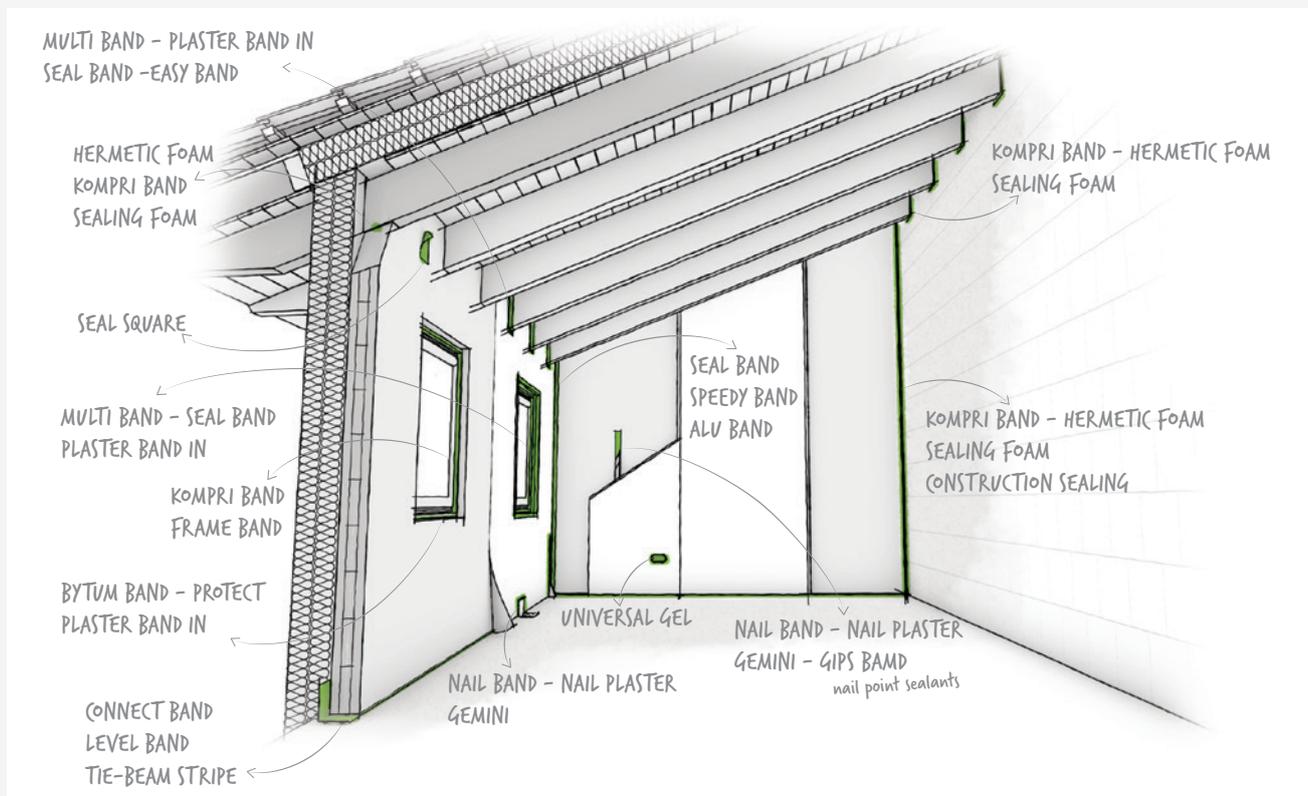
## ROOF AND WALL IN XLAM (Cross Laminated Timber)



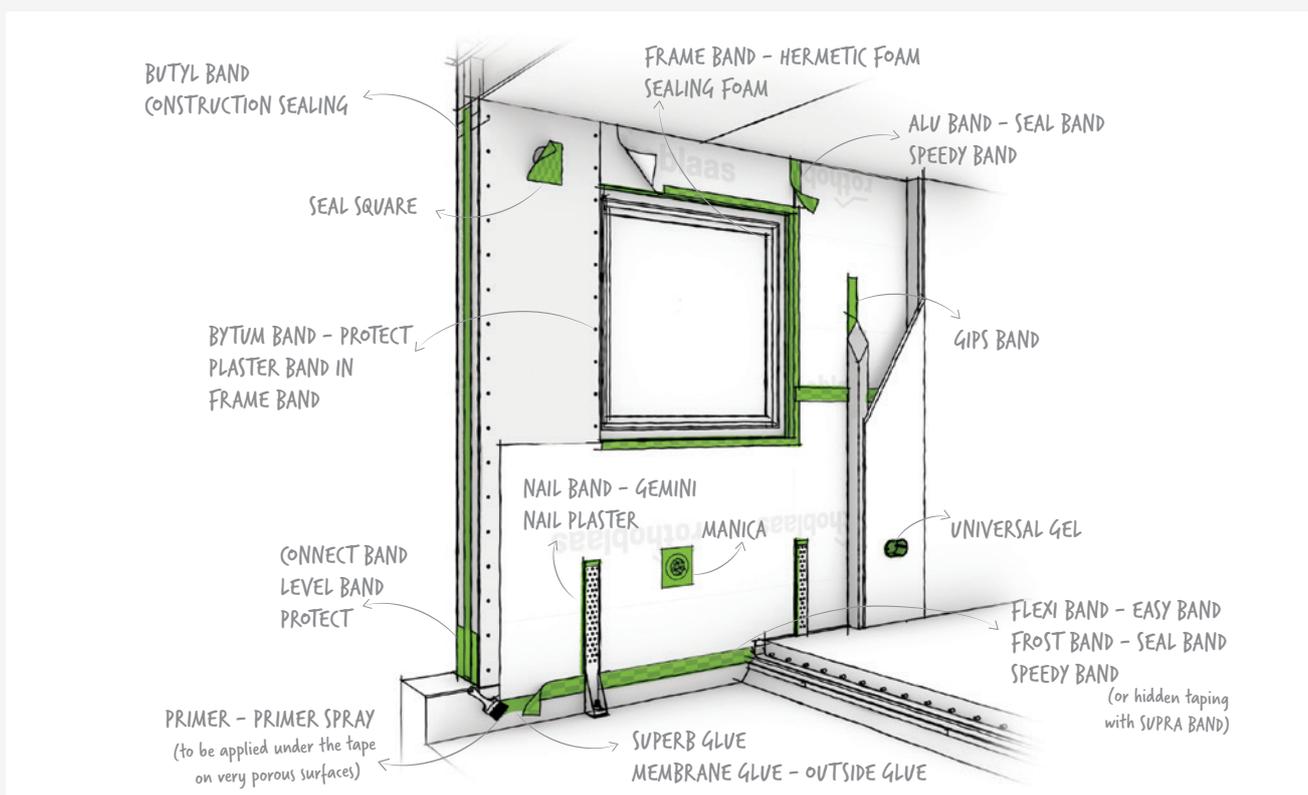
## STRUCTURE IN XLAM (Cross Laminated Timber) WITH VENTILATED WALL



## RAISING ON CONCRETE AND MASONRY WALL

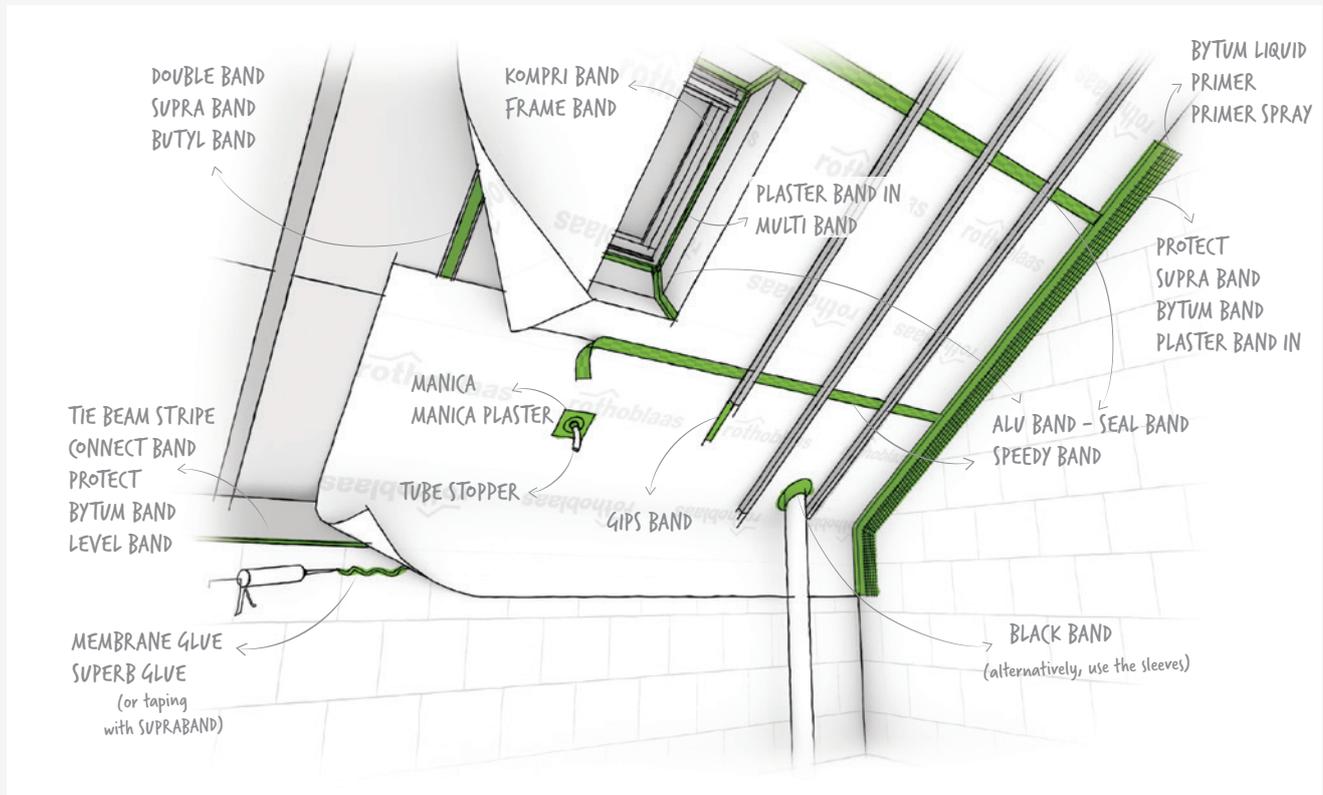


## FRAME WALL WITH WINDOW (INTERNAL VIEW)

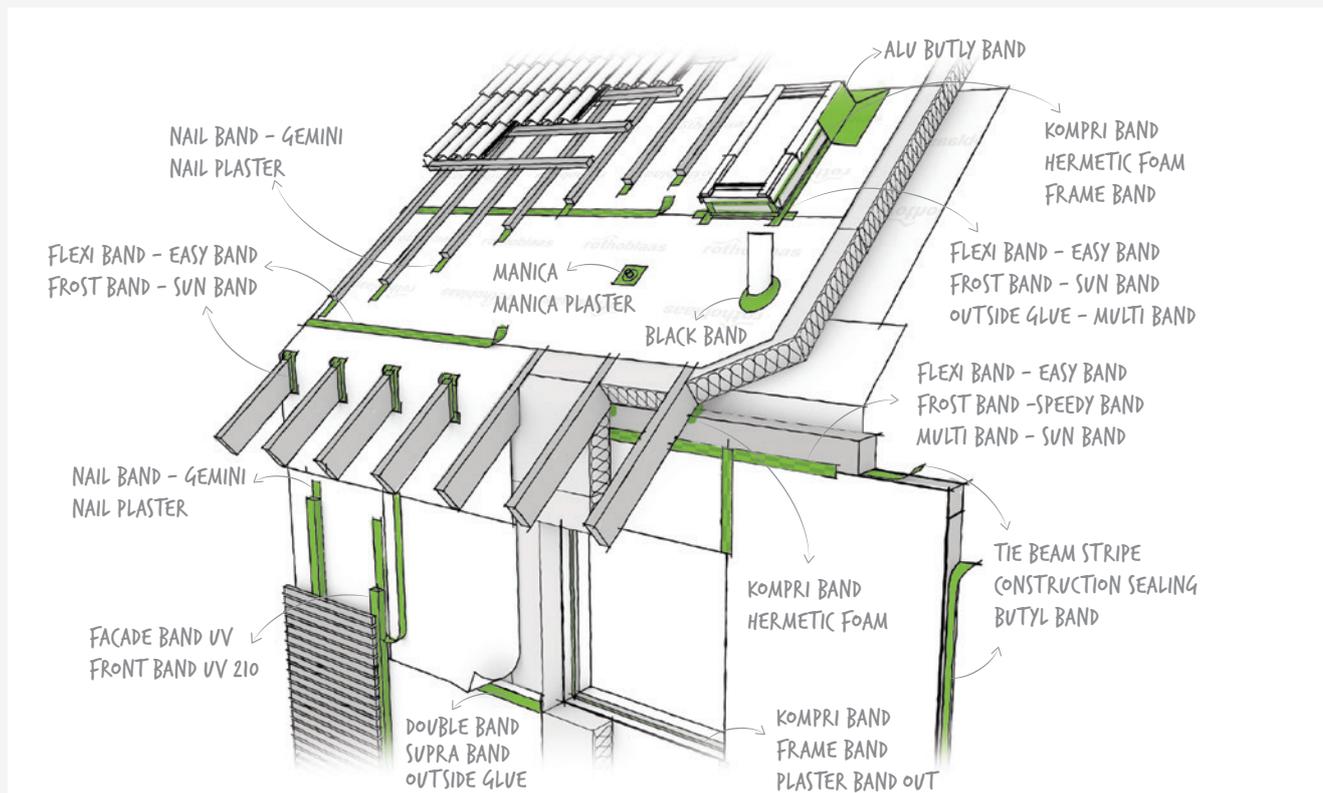


# APPLICATION SETTINGS

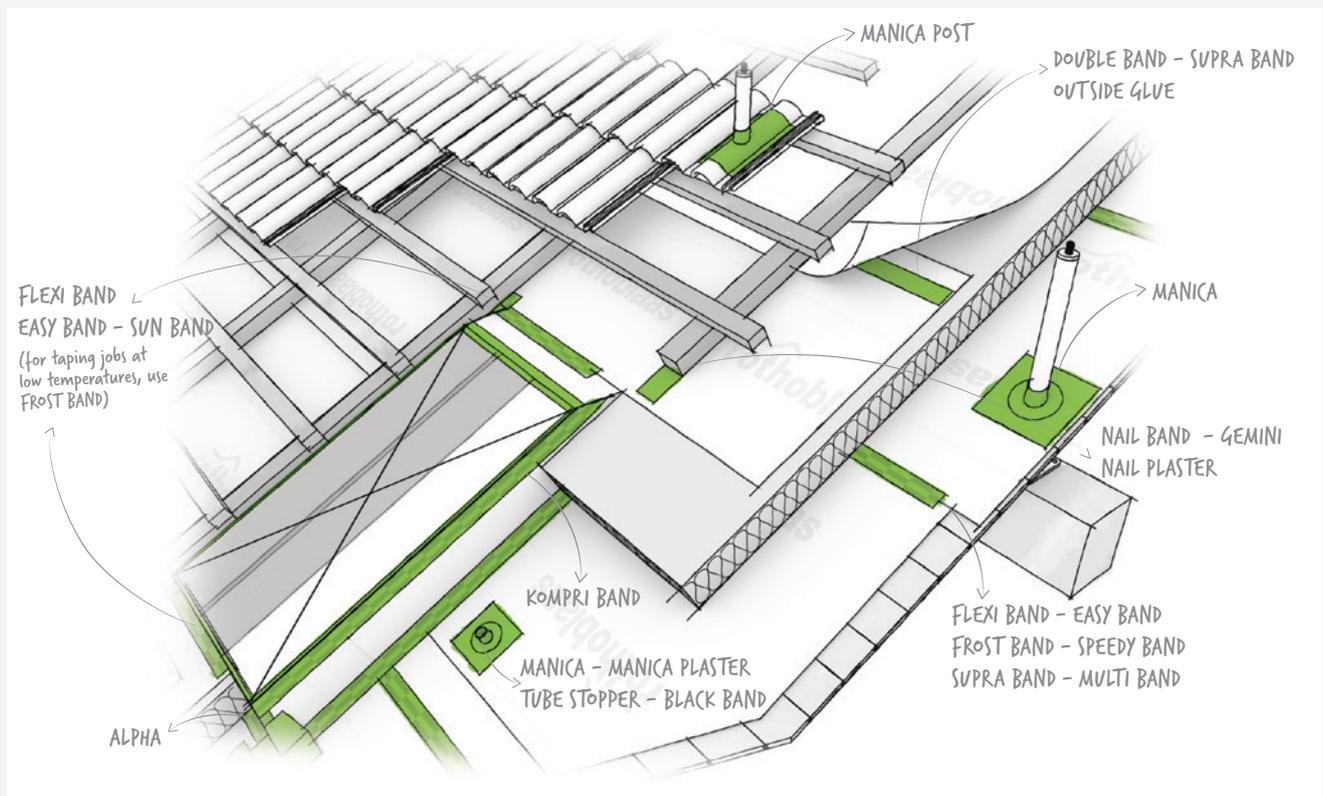
## FRAME ROOF ON MASONRY WALL



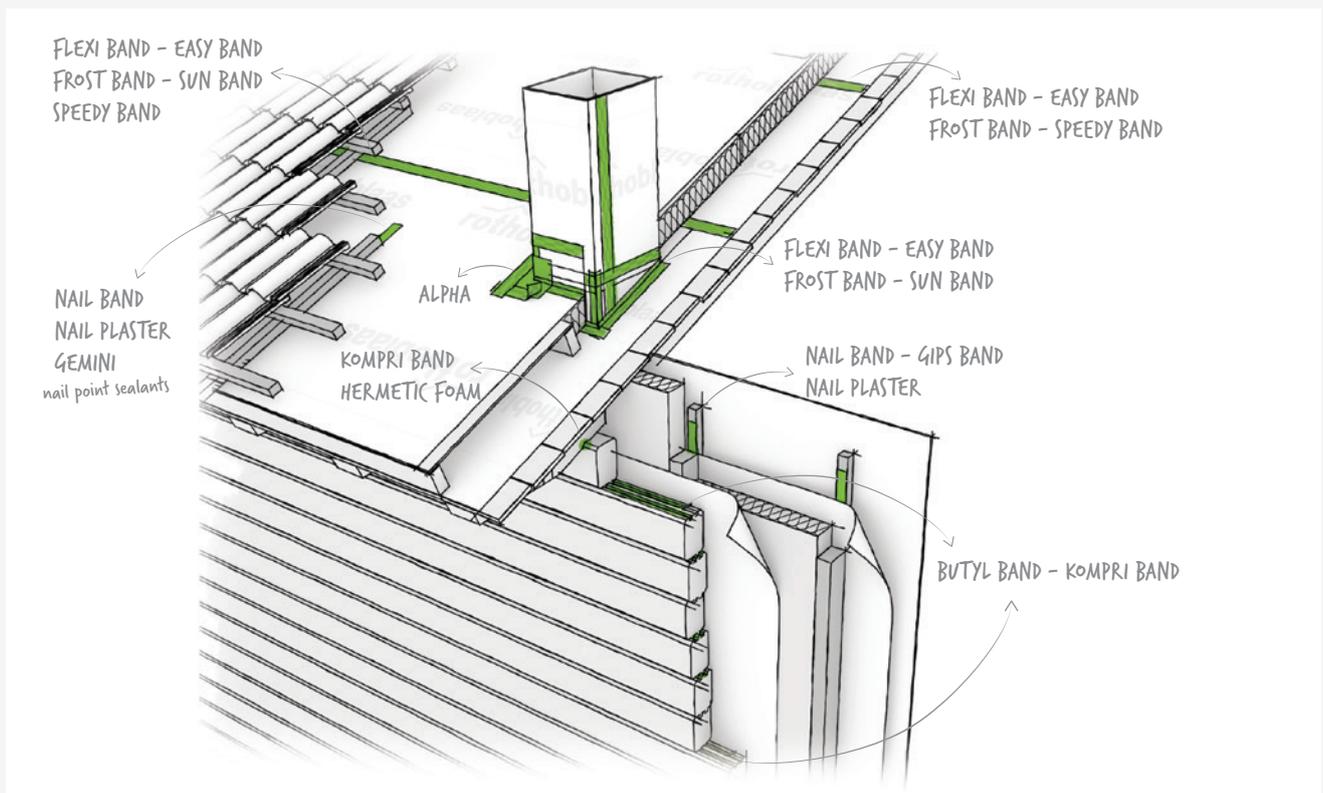
## FRAME WALL AND ROOF



## ROOF WITH MICRO VENTILATION



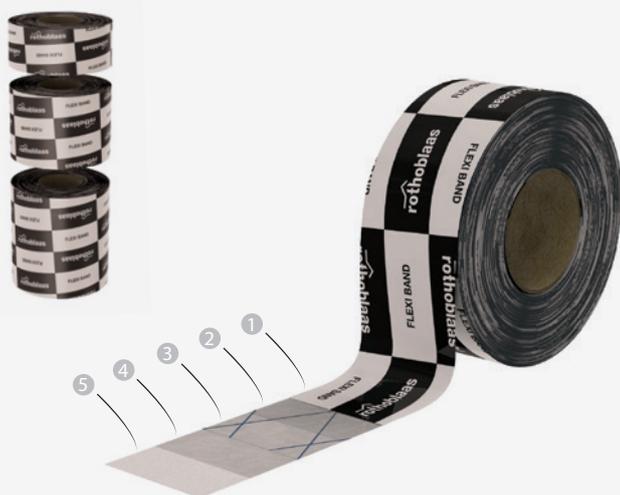
## BLOCKHAUS WALL AND ROOF WITH MICRO VENTILATION



# FLEXI BAND

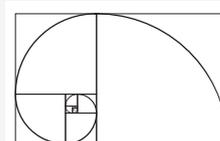
## Universal single-sided high-adhesive tape

Polyethylene (PE) support with acrylic glue, reinforcing grid and separation layer



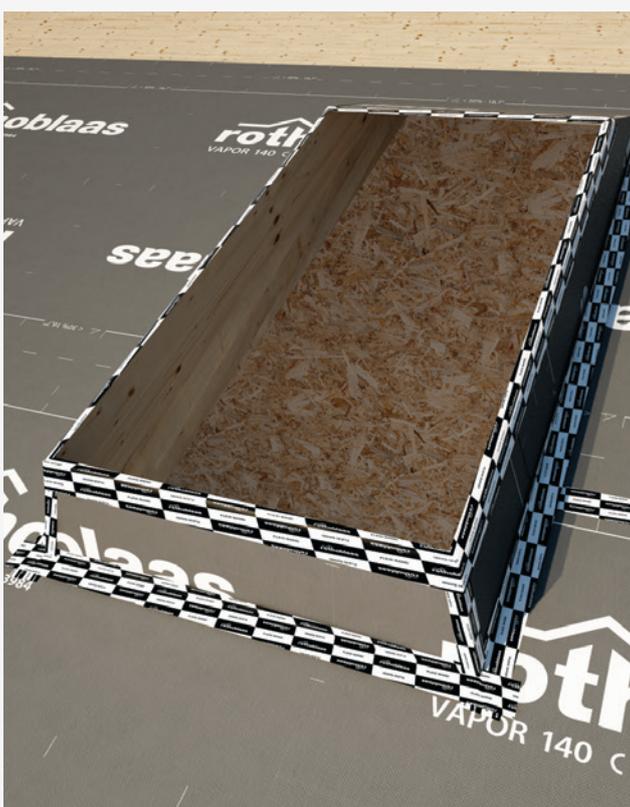
### UNIVERSAL

Excellent adhesive force and resistance on all surfaces



### HIGH PERFORMANCE

Guaranteed adhesion over time, even on dusty, porous or damp surfaces



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	0.34 mm
Tear strength	DIN EN 14410	> 50 N/25 mm
Expansion capacity	DIN EN 14410	20 %
Adhesiveness	DIN EN 1939	> 30 N/25 mm
Water vapour transmission (Sd)	EN 1931	40 m
Temperature resistance	-	-40 / +80 °C
Application temperature	-	-10 / +40 °C
UV resistance	-	6 months
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	liner [mm]	B [mm]	L [m]	pcs/box
<b>FLEXI60</b>	D52114	-	60	25	10
<b>FLEXI100</b>	D52116	-	100	25	6
<b>FLEXI5050</b>	D52118	50 / 50	100	25	6
<b>FLEXI7575</b>	D52117	75 / 75	150	25	4

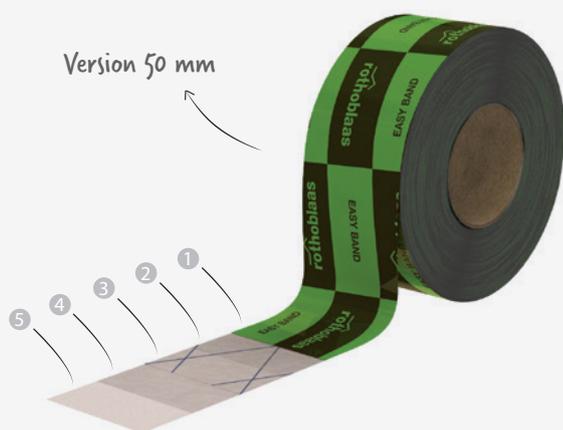
## COMPOSITION

- 1 support: PE film
- 2 glue: acrylate dispersion without solvents
- 3 reinforcing layer: reinforcing PE grid
- 4 glue: acrylate dispersion without solvents
- 5 separation layer: silicone paper

# EASY BAND

## Universal single-sided tape

Polyethylene (PE) support with acrylic glue, reinforcing grid and separation layer



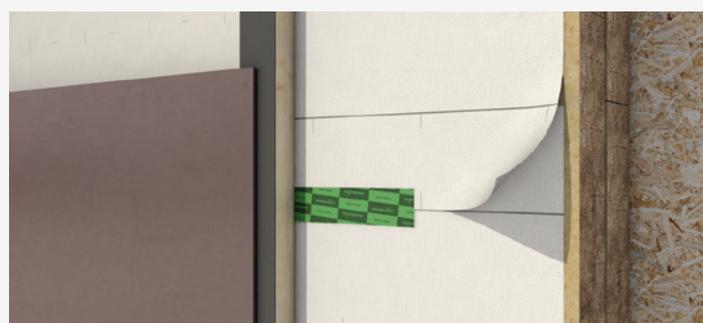
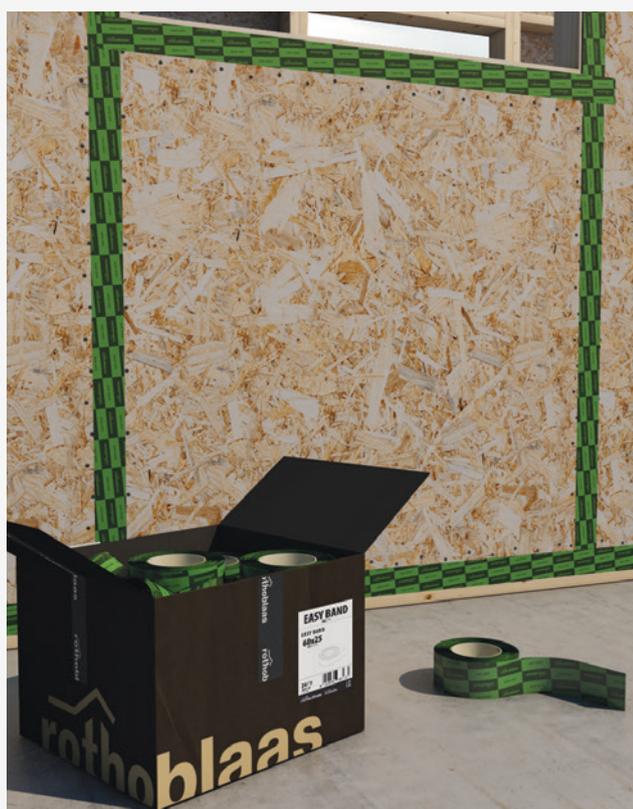
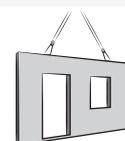
### VERSATILE

Progress adhesion, stable over time, for the most common supports



### INDUSTRIAL USE

Adhesive mix and supply, also designed for prefabrication



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	0.28 mm
Adhesiveness	DIN EN 1939	> 35 N/25 mm
Water vapour transmission (Sd)	EN 1931	30 m
Temperature resistance	-	-40 / +100 °C
Application temperature	-	> +5 °C
UV resistance	-	4 months
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>EASY50</b>	D52146	50	25	24
<b>EASY60</b>	D52145	60	25	24

## COMPOSITION

- 1 support: PE film
- 2 glue: acrylate dispersion without solvents
- 3 reinforcing layer: reinforcing PE grid
- 4 glue: acrylate dispersion without solvents
- 5 separation layer: silicone paper

# SPEEDY BAND

Universal single-sided tape without separation layer

Polyethylene (PE) support with acrylic glue and reinforcing grid



## FAST INSTALLATION

Can be used both externally and internally, guarantees fast and secure sealing on the most common supports



## SUSTAINABLE

The lack of a separation layer means less waste



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	AFERA 5006	0.25 mm
Adhesiveness on steel	AFERA 5001	> 27.5 N/25 mm
Adhesiveness on polyethylene	EN 12316-2	> 12.5 N/25 mm
Water vapour transmission (Sd)	EN 1931	40 m
Temperature resistance	-	-40 / +80 °C
Application temperature	-	-10 / +40 °C
UV resistance	-	6 months
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>SPEEDY60</b>	D52124	60	25	10

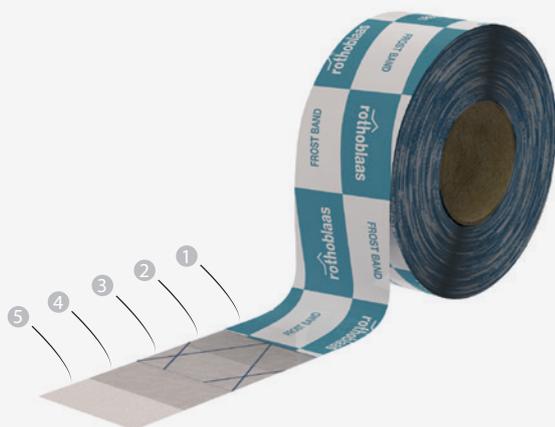
## COMPOSITION

- 1 support: PE film
- 2 glue: acrylate dispersion without solvents
- 3 reinforcing layer: reinforcing PE grid
- 4 glue: acrylate dispersion without solvents

# FROST BAND

Universal single-sided tape for low temperatures

Polyethylene (PE) support with special acrylic glue, reinforcing grid and separation layer



## UNIVERSAL

Applicable down to -20 °C, once operating guarantees effectiveness down to -40 °C



## PRACTICAL

The flexibility of the support ensures high workability even under extremely cold environmental conditions



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.25 mm
Tear strength	DIN EN 14410	> 15 N/cm
Expansion capacity	DIN EN 14410	> 150 %
Adhesiveness	DIN EN 1939	> 10 N/25 mm
Water vapour transmission (Sd)	EN 1931	< 0.2 m
Temperature resistance	-	-40 / +80 °C
Application temperature	-	> -20 °C
UV resistance	-	6 months
Watertightness	-	conforming
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>FROST75</b>	D52414	75	20	12

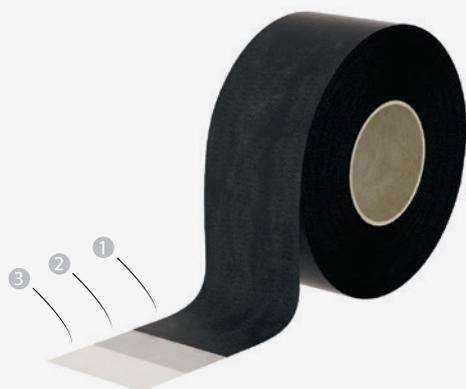
## COMPOSITION

- ① support: PE film
- ② glue: acrylate dispersion without solvents
- ③ reinforcing layer: reinforcing PE grid
- ④ glue: acrylate dispersion without solvents
- ⑤ separation layer: silicone paper

# MULTI BAND

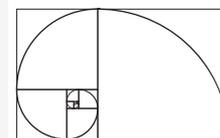
Universal single-sided tape that can be plastered

Polyester (PL) fabric support with acrylic glue and separation layer



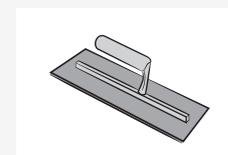
## UNIVERSAL

Perfect for both internal and external sealing and for overlapping on UV-ray resistant membranes



## CAN BE PLASTERED

Technical fabric ideal for application under plaster



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.40 mm
Tear strength	DIN EN 14410	> 25 N/25mm
Expansion capacity	DIN EN 14410	> 50 %
Adhesiveness	DIN EN 1939	> 16 N/25 mm
Water vapour transmission (Sd)	EN 1931	< 0.1 m
Temperature resistance	-	-40 / +90 °C
Application temperature	-	> -10 °C
UV resistance	-	6 months
Watertightness	-	conforming
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>MULTI75</b>	D52314	75	20	12

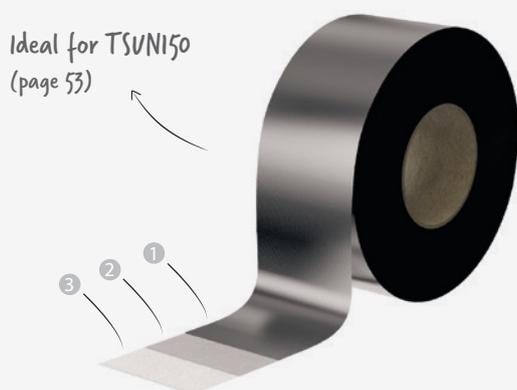
## COMPOSITION

- ① **support:** non-woven PL fabric
- ② **glue:** acrylate dispersion without solvents
- ③ **separation layer:** silicone paper

# SUN BAND

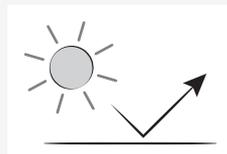
## Reflective universal single-sided tape

Breathable membrane TRASPIR SUNTEX 150 with acrylic glue and separation layer



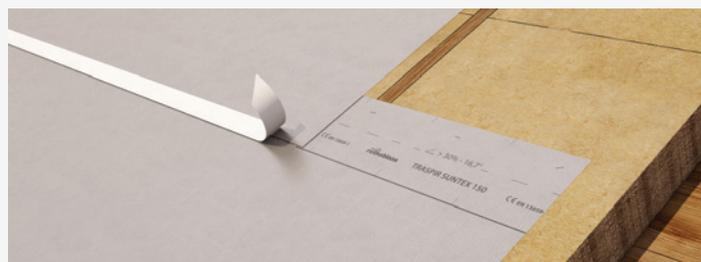
### REFLECTIVE

Ideal in combination with SUNTEX line membranes



### ALUMINIUM

The aluminized coating reflects up to 75% of solar radiation



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.80 mm
Tear strength	DIN EN 14410	> 100 N/25 mm
Expansion capacity	DIN EN 14410	70 / 90 %
Adhesiveness	DIN EN 1939	> 30 N/25 mm
Water vapour transmission (Sd)	EN 1931	0.05 m
Temperature resistance	-	-30 / +80 °C
Application temperature	-	+5 / +40 °C
UV resistance	-	3 months
Reflectivity	EN 15976	0.75
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>SUN75</b>	D52514	75	20	8

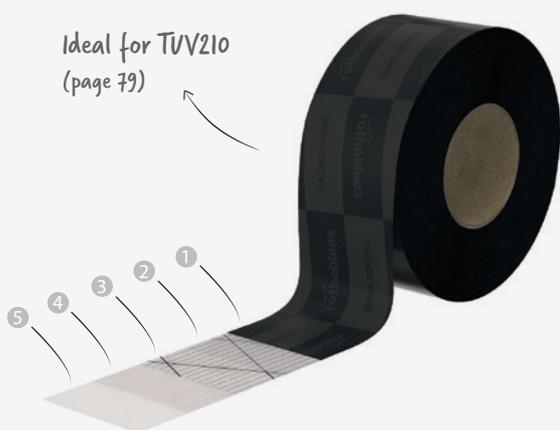
## COMPOSITION

- support:** breathable PP membrane, aluminized
- glue:** acrylate dispersion without solvents
- separation layer:** silicone paper

# FACADE BAND UV

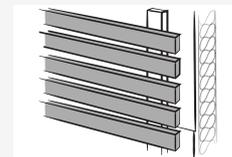
Universal single-sided tape, resistant to UV rays

Polyethylene (PE) support with acrylic glue, reinforcing grid and separation layer



## RESISTANT

Ideal for facade sealing and for overlapping on UV-ray resistant membranes



## INVISIBLE

Developed for application on TRASPIR ZENIT UV 210, for excellent aesthetic performance



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	0.27 mm
Tear strength	DIN EN 14410	> 25 N/cm
Expansion capacity	DIN EN 14410	450 %
Adhesiveness	DIN EN 1939	> 14 N/cm
Water vapour transmission (Sd)	EN 1931	5 m
Temperature resistance	-	-30 / +80 °C
Application temperature	-	> -5 °C
UV resistance with open joints up to 50 mm wide, exposing no more than 40% of the surface	-	12 months
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>FACADEUV60</b>	D52344	60	25	10

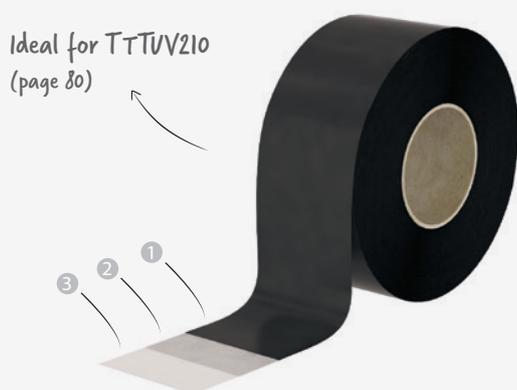
## COMPOSITION

- 1 support: PE film
- 2 glue: acrylate dispersion without solvents
- 3 reinforcing layer: reinforcing PE grid
- 4 glue: acrylate dispersion without solvents
- 5 separation layer: silicone paper

# FRONT BAND UV 210

Universal single-sided tape, highly resistant to UV rays

Monolithic membrane TRASPIR EVO UV 210 with acrylic glue and separation layer



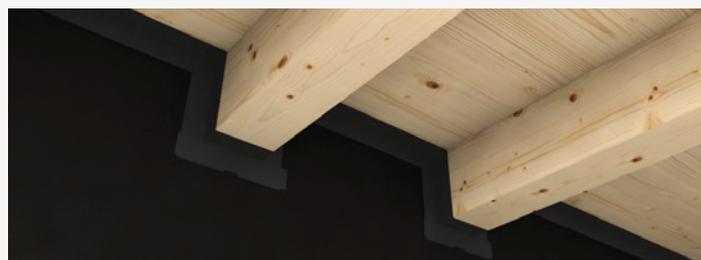
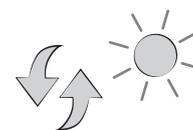
## AESTHETICS

Support uses monolithic membrane TRASPIR EVO UV 210, for excellent aesthetic performance



## FUNCTIONAL

Combined with the membrane TRASPIR EVO UV 210, guarantees unlimited UV stability over time



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.60 mm
Tear strength	DIN EN 14410	> 100 N/25 mm
Expansion capacity	DIN EN 14410	20 %
Adhesiveness	DIN EN 1939	> 30 N/25 mm
Water vapour transmission (Sd)	EN 1931	0.04 m
Temperature resistance	-	-30 / +100 °C
Application temperature	-	> +5 °C
UV resistance with open joints up to 50 mm wide, exposing no more than 40% of the surface	-	permanent
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>FRONTUV75</b>	D52334	75	20	8

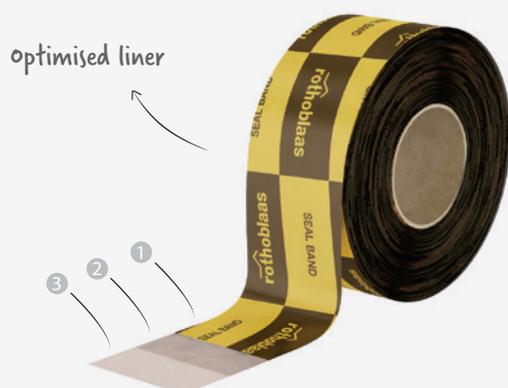
## COMPOSITION

- 1 support: monolithic breathable film
- 2 glue: acrylate dispersion without solvents
- 3 separation layer: silicone paper

# SEAL BAND

Single-sided tape for indoor use

Hydrorepellant impregnated paper support, acrylic glue and separation layer



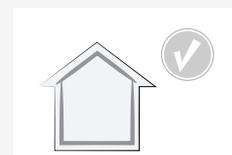
## PRACTICAL

For simple sealing of corners, edges and other special nodes, the double liner makes installation easier



## EFFECTIVE

Impregnated paper support, ideal for internal use; airtightness guaranteed over time



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.30 mm
Tear strength	DIN EN 14410	> 70 N/cm
Expansion capacity	DIN EN 14410	> 5 %
Adhesiveness	DIN EN 1939	> 15 N/cm
Water vapour transmission (Sd)	EN 1931	6 m
Temperature resistance	-	-40 / +100 °C
Application temperature	-	> -10 °C
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	liner [mm]	B [mm]	L [m]	pcs/box
<b>SEAL60</b>	D52211	-	60	40	5
<b>SEAL1248</b>	D52212	12 / 48	60	40	5
<b>SEAL3030</b>	D52214	30 / 30	60	40	5

## COMPOSITION

- 1 support:** hydrorepellant impregnated paper
- 2 glue:** acrylate dispersion without solvents
- 3 separation layer:** silicone paper

# SEAL SQUARE

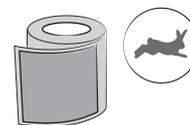
Adhesive sealing element, preshaped for internal use

Hydrorepellant impregnated paper support, acrylic glue and separation layer



## VERSATILE

Ideal for all small internal sealing tasks that require speed and precision



## PRACTICAL

Precut, requires no equipment for working and installation



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.30 mm
Tear strength	DIN EN 14410	> 70 N/cm
Expansion capacity	DIN EN 14410	> 5 %
Adhesiveness	DIN EN 1939	> 15 N/cm
Water vapour transmission (Sd)	EN 1931	6 m
Temperature resistance	-	-40 / +100 °C
Application temperature	-	> -10 °C
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

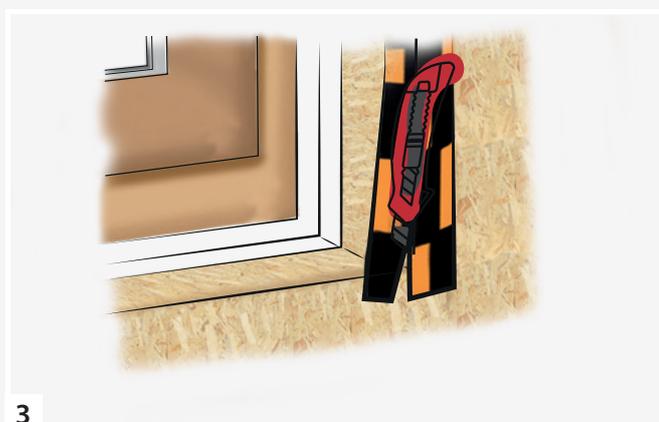
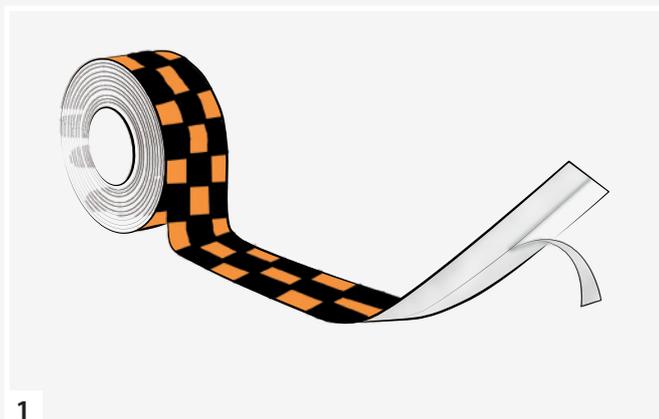
## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box	pcs/roll
<b>SEAL180</b>	D52220	180 x 180	36	1	200

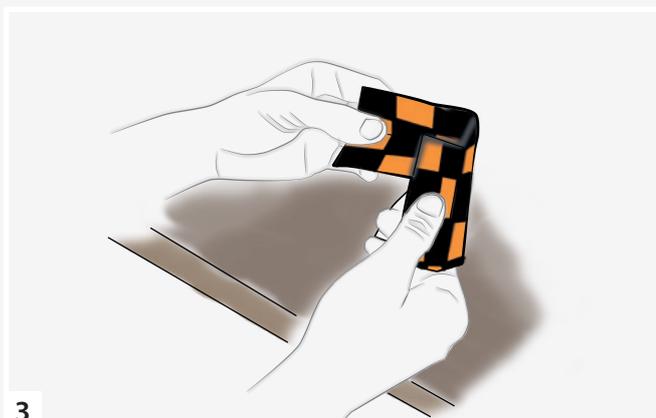
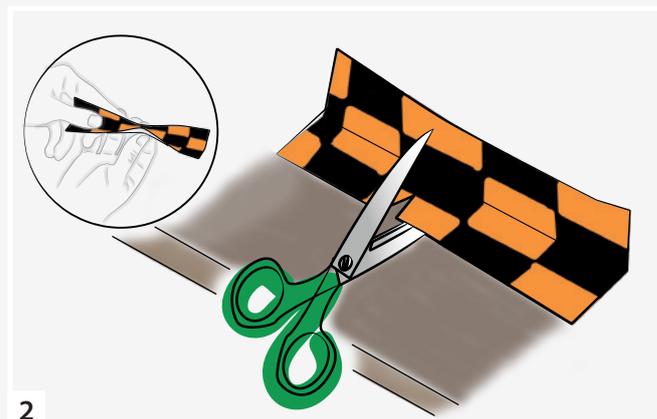
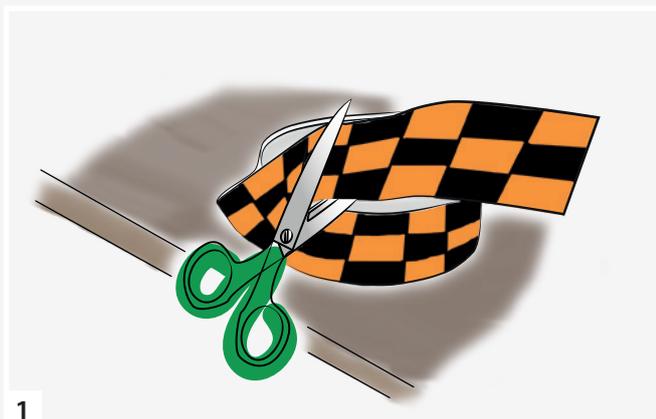
## COMPOSITION

- support:** hydrorepellant impregnated paper
- glue:** acrylate dispersion without solvents
- separation layer:** silicone paper

## SEAL BAND INSTALLATION INSTRUCTIONS - INTERNAL WINDOW DETAIL



## SEAL BAND INSTALLATION INSTRUCTIONS - CORNER DETAIL



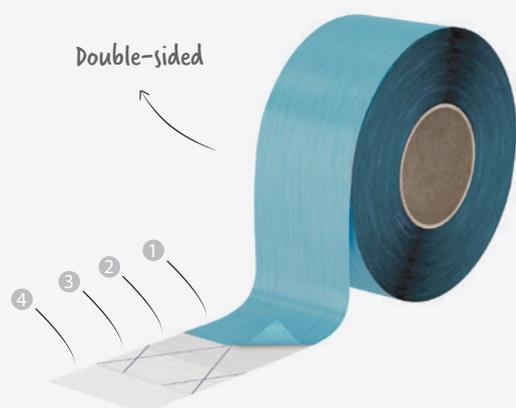
## SEAL BAND INSTALLATION INSTRUCTIONS - BEAM DETAIL



# DOUBLE BAND

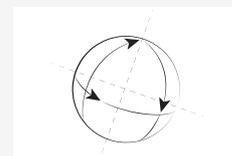
## Universal double-sided tape

Polyethylene (PE) reinforcing grid and acrylic glue



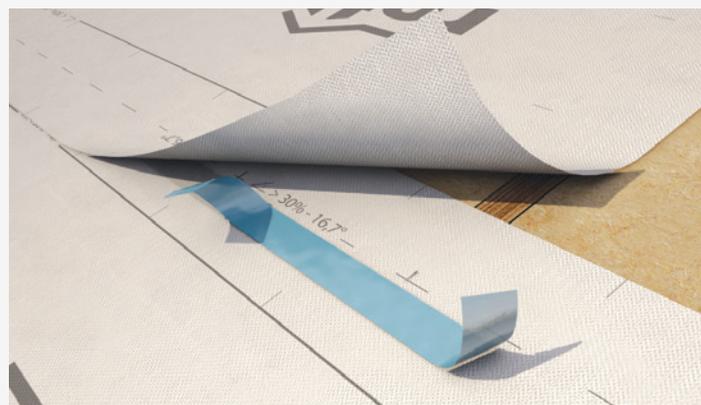
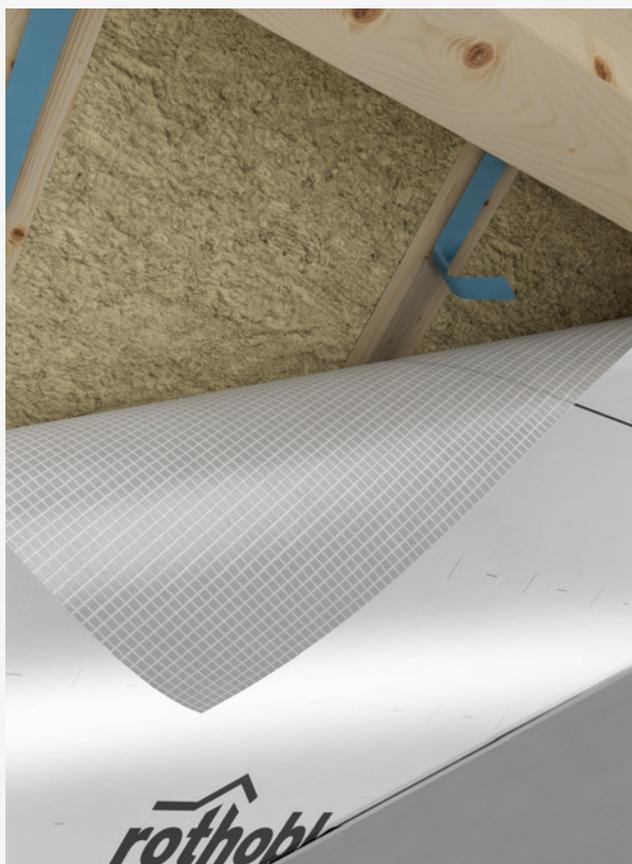
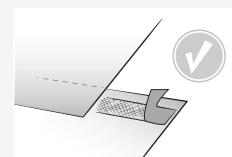
### UNIVERSAL

Excellent double-sided adhesion on all types of material and under all environmental conditions



### SECURE

Not too thick, it guarantees stability when exposed to temperature changes thanks to the reinforcing grid



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	0.25 mm
Adhesiveness	DIN EN 1939	> 25 N/25 mm
Temperature resistance	-	-30 / +100 °C
Application temperature	-	-10 / +40 °C recommended > +5 °C
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>DOUBLE40</b>	D52712	40	50	16

## COMPOSITION

- ① separation layer: silicone paper
- ② glue: acrylate dispersion without solvents
- ③ reinforcing layer: reinforcing PE grid
- ④ glue: acrylate dispersion without solvents

# SUPRA BAND

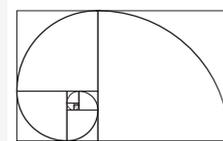
Universal double-sided butyl tape with high adhesiveness

Special butyl mix profile



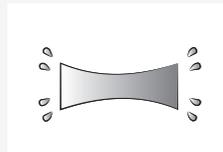
## PEERLESS

Water and air resistant, it guarantees adhesion even to wet supports and at low temperatures



## ELASTIC

Also suitable for sealing wood-wood joints (it compensates for the natural movements of the material)



## TECHNICAL SPECIFICATIONS

property	standard	value
Ageing resistance	-	long duration
Probe tack	ASTM D 2979	> 5 N
Detachment adhesion at 90°	ASTM D 1000	> 75 N
Temperature resistance	-	-30 / +90 °C
Application temperature	-	-5 / +40 °C
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

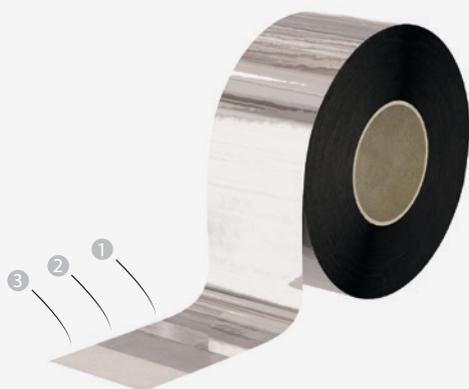
code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>SUPRA6</b>	D63627	4	6	6	16
<b>SUPRA10</b>	D63628	4	10	6	22

## COMPOSITION

glue: butyl rubber

# ALU BAND

Reflective single-sided tape for indoor use  
Aluminium support with acrylic glue and separation layer



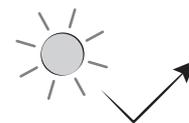
## RELIABLE

The combination of aluminium and the special adhesive mix ensures stability in case of sudden temperature changes



## DURABLE

Can be applied to thermo-hydraulic structures, thanks to its high thermal reflectivity



## TECHNICAL SPECIFICATIONS

property	standard	value
Total thickness	DIN EN 1942	approx. 0.06 mm
Tear strength	DIN EN 14410	> 20 N/cm
Expansion capacity	DIN EN 14410	> 3 %
Adhesiveness	DIN EN 1939	> 6 N/cm
Water vapour transmission (Sd)	EN 1931	approx. 100 m
Temperature resistance	-	-40 / +130 °C
Application temperature	-	> -10 °C
Watertightness	-	conforming
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>ALUBAND75</b>	D52622	75	50	18

## COMPOSITION

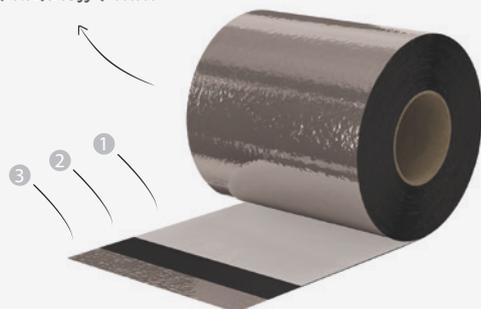
- ① support: aluminium foil
- ② glue: acrylate dispersion without solvents
- ③ separation layer: silicone paper

# ALU BUTYL BAND

## Reflective butyl adhesive tape

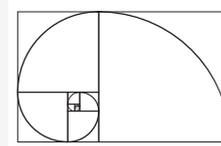
Butyl compound coated with aluminium film and separation layer

Thickness 1 mm



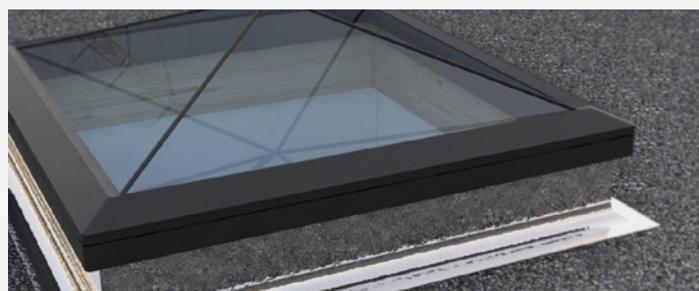
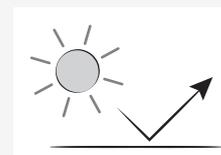
### BUTYL

The butyl composition offers excellent adhesiveness on the most common surfaces, even very porous ones



### UV RAY STABLE

The aluminium coating protects the butyl mixture, guaranteeing that the seal lasts



## TECHNICAL SPECIFICATIONS

property	standard	value
Reaction to fire	EN 13501	class E
Tear strength	EN 12311-1	190 N/55 mm
Elongation at break point	EN 12311-1	20 %
Probe tack	ASTM D 2979	8 N
Detachment adhesion at 180°	ASTM D 1000	20 N/cm <sup>2</sup>
Vertical sliding	ISO 7390	0 mm
Application temperature	-	0 / +40 °C
Temperature resistance	-	-30 / +90 °C
UV resistance	-	permanent
Watertightness	-	conforming
Storage temperature	-	+5 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>ALUBUTYL75</b>	D52632	1	75	10	8
<b>ALUBUTYL150</b>	D52633	1	150	10	4

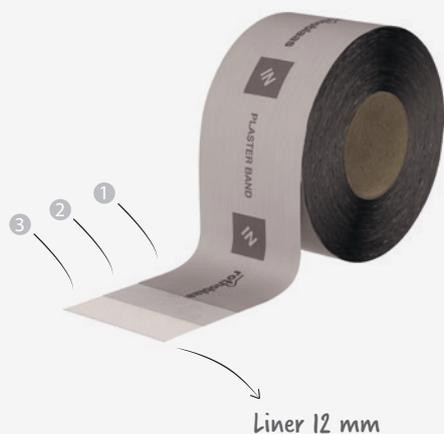
## COMPOSITION

- 1 separation layer: PE film
- 2 glue: adhesive butyl compound
- 3 support: aluminium foil, UV stable

# PLASTER BAND IN

Single-sided tape for indoor use, can be plastered

Polypropylene (PP) vapour control layer with acrylic glue and precut separation layer



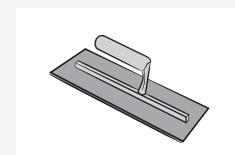
## INDOOR

Thanks to its special structure, it controls the flow of water vapour, achieving perfect airtightness



## CAN BE PLASTERED

Technical fabric perfect for application under plaster, also on porous surfaces, thanks to excellent adhesiveness



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1848-2	300 g/m <sup>2</sup>
Water vapour transmission (Sd)	EN 1931	approx. 20 m
Maximum tensile force MD/CD	EN 12311-1	180 / 120 N/50 mm
Elongation MD/CD	EN 12311-1	65 / 75 %
Application temperature	-	> 5 °C
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	liner	B [mm]	L [m]	pcs/box
PLASTIN1263	D67431	12 / 63	75	25	5
PLASTIN1288	D67432	12 / 88	100	25	4
PLASTIN12138	D67433	12 / 138	150	25	2
PLASTIN12188	D67434	12 / 188	200	25	2

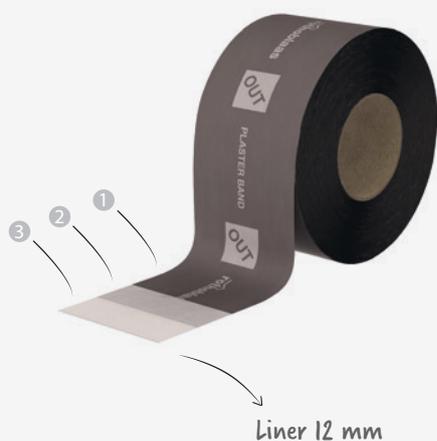
## COMPOSITION

- 1 support: PP vapour control layer
- 2 glue: acrylate dispersion without solvents
- 3 separation layer: silicone paper

# PLASTER BAND OUT

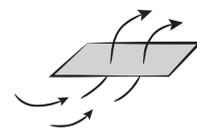
Single-sided tape for external use, can be plastered

Breathable polypropylene (PP) membrane with acrylic glue and precut separation layer



## OUTDOOR

Breathable support, avoids accumulation of condensation in the window node, maintaining air protection



## VERSATILE

Thanks to excellent adhesiveness, ideal for application on most surfaces, even at low temperatures



## TECHNICAL SPECIFICATIONS

property	standard	value
Mass per unit area	EN 1848-2	400 g/m <sup>2</sup>
Water vapour transmission (Sd)	EN 1931	0.04 m
Maximum tensile force MD/CD	EN 12311-1	260 / 180 N/50 mm
Elongation MD/CD	EN 12311-1	76 / 50 %
Resistance to heavy rain	EN 1027	≥ 600 Pa
Application temperature	-	> -10 °C
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
UV resistance	-	3 months
Watertightness	EN 1928	class W1
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

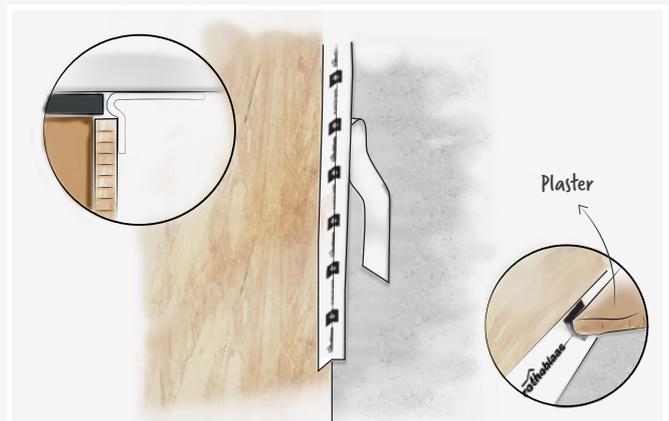
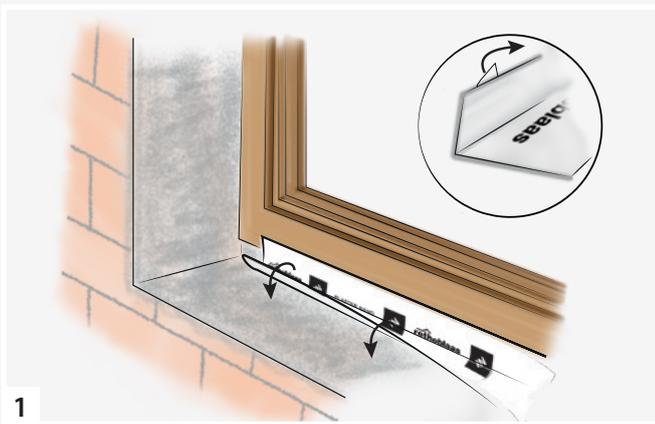
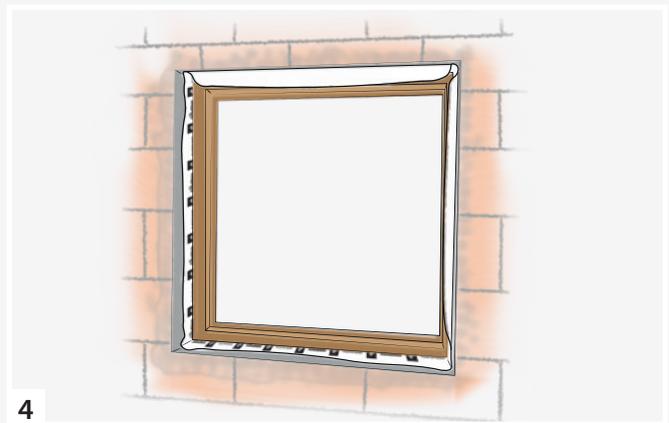
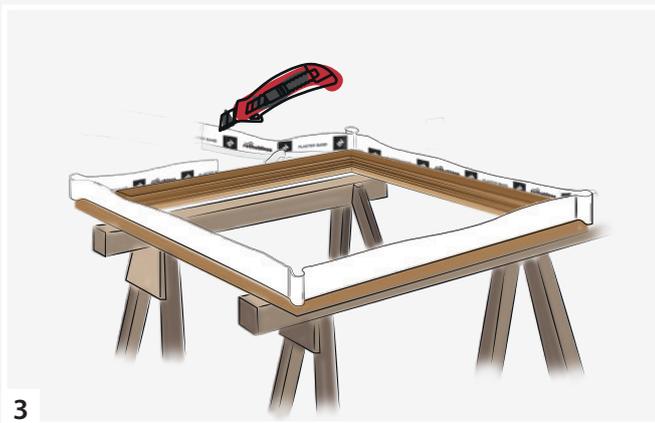
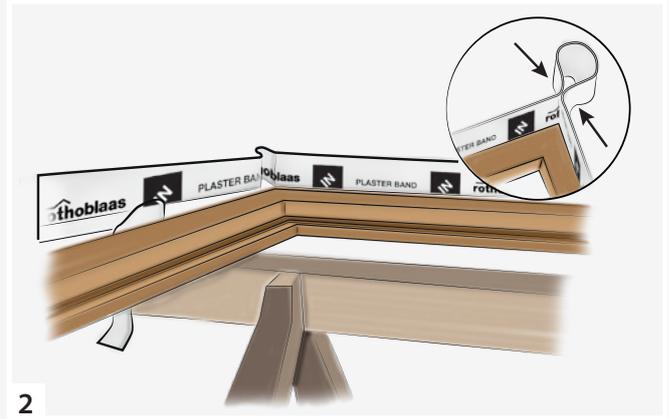
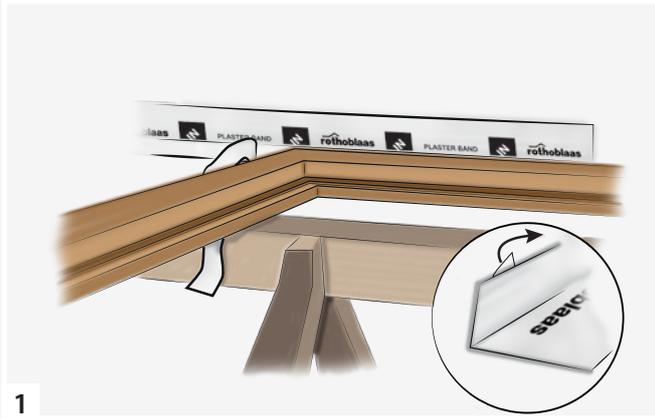
## CODES AND DIMENSIONS

code	ex code	liner	B [mm]	L [m]	pcs/box
<b>PLASTOUT1263</b>	D67441	12 / 63	75	25	5
<b>PLASTOUT1288</b>	D67442	12 / 88	100	25	4
<b>PLASTOUT12138</b>	D67443	12 / 138	150	25	2
<b>PLASTOUT12188</b>	D67444	12 / 188	200	25	2

## COMPOSITION

- support:** breathable PP membrane
- glue:** acrylate dispersion without solvents
- separation layer:** silicone paper

# PLASTER BAND IN/OUT INSTALLATION INSTRUCTIONS

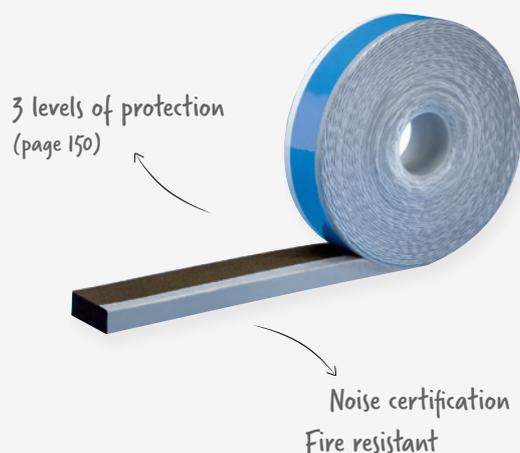


# FRAME BAND



## Self-expanding sealing tape for windows/doors

Precompressed polyurethane foam impregnated with fireproof substances and polyethylene (PE) film



### SELF-EXPANDING

Seals cracks between 2 and 10 mm, adjusting to the surface, and ensures air and watertightness, serving as a vapour control layer



### HIGH PERFORMANCE

Conforms with EnEV and RAL requirements, and guarantees a high level of thermal and acoustic insulation



## TECHNICAL SPECIFICATIONS

property	standard	value
Classification	DIN 18542	class BG1 and BGR <sup>(1)</sup>
Thermal conductivity	EN 12667	$\lambda_{10.tr} \leq 0.048 \text{ W/mK}$
60 mm Frame U value	DIN 4108/3	0.8 W/m <sup>2</sup> K
70 mm Frame U value	DIN 4108/3	0.7 W/m <sup>2</sup> K
80 mm Frame U value	DIN 4108/3	0.6 W/m <sup>2</sup> K
Internal Sd value	DIN EN ISO 12572	25 m
External Sd value	DIN EN ISO 12572	0.5 m
Resistance to heavy rain	EN 1027	$\geq 1000 \text{ Pa}$
Leakage transmission coefficient	EN 12114	$\alpha = 0.00 \text{ m}^3/[\text{hm}(\text{daPa})^0]$
Compatibility with other building materials	DIN 52435	according to standard
Dimensional tolerance	DIN 7715 T5 P3	according to standard
Reaction to fire	DIN 4102	class B1
Acoustic insulation R <sub>ST,W</sub> (C;Ctr) <sup>(2)</sup>	IFT Rosenheim	45 (-2; -6) dB
Temperature resistance	DIN 18542	-30 / +80 °C
Application temperature	-	$\geq +5 \text{ °C}$
Storage temperature	-	+5 / +20 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

<sup>(1)</sup> For tape classification, please see page 107

<sup>(2)</sup> Test performed on 10 mm wide crack

## CODES AND DIMENSIONS

code	ex code	s <sub>max</sub> [mm]	f [mm]	B [mm]	L [m]	pcs/box
<b>FRAME2054</b>	D67413	20	2 - 10	54	30	7
<b>FRAME2074</b>	D67416	20	2 - 10	74	30	5

# KOMPRI BAND



## Self-expanding sealing tape

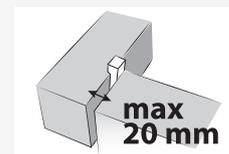
Precompressed polyurethane foam tape impregnated with fireproof substances



Noise certification  
Fire resistant

### SELF-EXPANDING

Seals cracks between 1 and 20 mm, compensating for any joint irregularities



### RESISTANT

Guarantees airtightness and resistance to heavy rain, as well as fire protection and satisfactory acoustic insulation



## TECHNICAL SPECIFICATIONS

property	standard	value
Classification	DIN 18542	class BG1 and BGR <sup>(1)</sup>
Leakage transmission coefficient (BG1)	EN 12114	$\alpha < 1.0 \text{ m}^3 [\text{h} \times \text{m} \times (\text{daPa})^0]$
Leakage transmission coefficient (BGR)	EN 12114	$\alpha < 0.1 \text{ m}^3 [\text{h} \times \text{m} \times (\text{daPa})^0]$
Thermal conductivity ( $\lambda$ )	DIN 52612	0.052 W/mK
Water vapour resistance factor ( $\mu$ )	EN ISO 12572	$\leq 100$
Resistance to heavy rain	EN 1027	$> 600 \text{ Pa}$
Resistance to UV and weathering	DIN 53387	according to standard
Compatibility with other building materials	DIN 52453	according to standard
Dimensional tolerance	DIN 7715 T5 P3	according to standard
Reaction to fire	DIN 4102	class B1
Acoustic insulation $R_{ST,W} (C;Ctr)$ <sup>(2)</sup>	IFT Rosenheim	58 (-2; -6) dB
Temperature resistance	DIN 18542	-30 / +90 °C
Application temperature	-	$\geq +5 \text{ °C}$
Storage temperature	-	+1 / +20 °C
Solvents	-	NO
VOC emissions	-	$< 0.02 \%$ (class A+)

NOTE: Store the product in a dry, covered location for no more than 24 months

<sup>(1)</sup> For tape classification, please see page 107

<sup>(2)</sup> Test performed with two coupled tapes on 10 mm wide crack

## CODES AND DIMENSIONS

code	ex code	$s_{max}$ [mm]	f [mm]	B [mm]	L [m]	pcs/box
<b>KOMPRI1010</b>	D63512	10	1 - 4	10	13	30
<b>KOMPRI1015</b>	D63514	10	1 - 4	15	13	20
<b>KOMPRI2015</b>	D63532	20	4 - 10	15	8	20
<b>KOMPRI3015</b>	D63552	30	6 - 15	15	4.3	20
<b>KOMPRI4520</b>	D63572	45	9 - 20	20	3.3	15

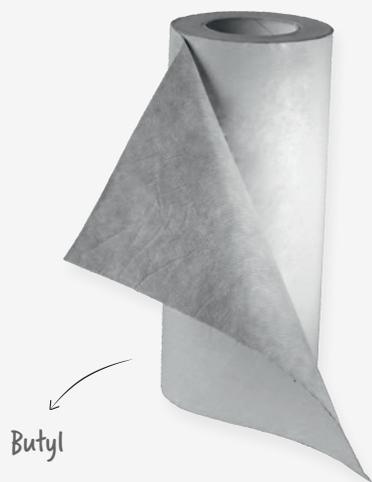


# PROTECT



Self-adhesive butyl band, can be plastered

Adhesive butyl compound with polypropylene (PP) fabric support, and separation layer



## BUTYL MIX

The special mix guarantees excellent adhesiveness and deformation capabilities, compensating for the natural movement of the wood



## LOW TEMPERATURES

The butyl guarantees excellent adhesion to the supports under difficult environmental conditions



## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>PROTECT330</b>	D67222	330	10	2
<b>PROTECT500</b>	D67225	500	10	1

## TECHNICAL SPECIFICATIONS

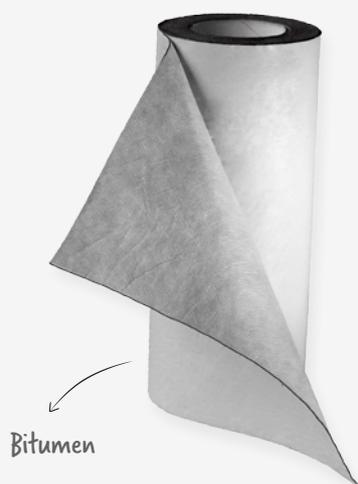
property	standard	value
Thickness	-	1 mm
Maximum tensile force MD/CD	EN 12311-1	140 / 105 N/50 mm
Elongation at break point MD/CD	EN 12311-1	100 / 100 %
Application temperature	-	0 / +40 °C
Temperature resistance	-	-30 / +90 °C
Adhesion of C2E cement adhesive on Protect	EN 12004 / EN1348	0.9 N/mm <sup>2</sup>
Detachment adhesion at 180°	ASTM D 1000	90 N/50 mm
Reaction to fire	EN 11925-2 / EN 13501-1	class E
Storage temperature	-	5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

# BYTUM BAND

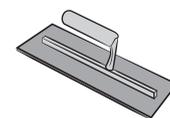
Self-adhesive bituminous band, can be plastered

Adhesive bituminous compound with polypropylene (PP) fabric support, and separation layer



## CAN BE PLASTERED

Polypropylene means the fabric can be plastered, offering greater versatility



## COST / PERFORMANCE

The bituminous mixture guarantees good adhesiveness, even on concrete



## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
<b>BYTBAND240</b>	D67232	240	15	2
<b>BYTBAND370</b>	D67233	370	15	1

## TECHNICAL SPECIFICATIONS

property	standard	value
Thickness	EN 1849-1	1.0 mm
Break point load MD/CD	EN 12311-1	168.5 / 120 N
Elongation at break point MD/CD	EN 12311-1	76.5 / 135 %
Application temperature	-	+5 / +40 °C
Temperature resistance	-	-20 / +80 °C
Reaction to fire	EN 11925-2 / EN 13501-1	class E
Adhesion on concrete with PRIMER	ASTM D 1000	4.9 N/mm
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

# GROUND BAND



## Self-adhesive bituminous membrane

Bituminous compound spread on high density polyethylene film (PE) and separation layer

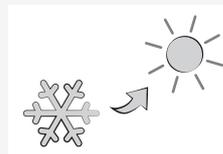
GROUND1000H ideal at high temperatures with white protective film

Pre-cut liner



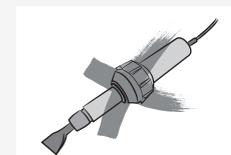
### LOW TEMPERATURES

Can be installed at temperatures from -4 °C to +30 °C thanks to the special elastic polymer bituminous mixture



### SELF-SEALING AND SELF-ADHESIVE

Practical and fast installation, no flames are required, minimising risks for the wood



### TECHNICAL SPECIFICATIONS

property	standard	value
Thickness	EN 1849-1	1.5 mm
Break point load MD/CD	EN 12311-1	215 / 220 N/50 mm
Elongation at break point MD/CD	EN 12311-1	324 / 238 %
Puncture resistance met A / met B	EN 12691	500 / 1000 mm
Resistance to static load met A / met B	EN 12730	10 / 15 kg
Resistance to tearing MD/CD	EN 12310-1	125 / 65 N
Resistance to joint separation	EN 12316-1	55 N/50 mm
Tensile strength of joints MD/CD	EN 12317-1	260 / 240 N/50 mm
Probe tack	ASTM D 2979	35 N
Watertightness	EN 1928	> 60 kPa
Hydrostatic pressure resistance	DIN 52123	> 6 bar (24h)
Water absorbancy	ASTM D 570	0.09 %
Water vapour resistance factor ( $\mu$ )	EN 1931	90000
Application temperature	-	-4 / +30 °C
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 11925-2 / EN 13501-1	class E
Adhesiveness on:		
• Wood without PRIMER	-	215.9 N
• wood with PRIMER	-	313.7 N
• concrete without PRIMER	-	185.1 N
• concrete with PRIMER	-	285.3 N
Radon permeability	SP Swedish Nat. Testing & Research Institute	$5.7 \cdot 10^{-12} \text{ m}^2/\text{s}$
Methane permeability	CSI method	< 5 cc/m <sup>2</sup> x 24h x atm
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

### CODES AND DIMENSIONS

code	ex code	liner	B [mm]	L [m]	pcs/box
<b>GROUND200</b>	D67253	30 / 170	200	20	2
<b>GROUND500</b>	D67254	30 / 470	500	20	1
<b>GROUND1000</b>	D67242	500 / 500	1000	20	1
<b>GROUND1000H</b>	D67255	500 / 500	1000	20	1

# BLACK BAND

## Universal single-sided butyl tape

Elastic polymer butyl compound with polyethylene (PE) support with high expansion capacity and separation layer

Liner 40 mm



### EXTRAORDINARY

Universal and expandable up to 300%, it effectively seals any crack on the most widely used construction materials

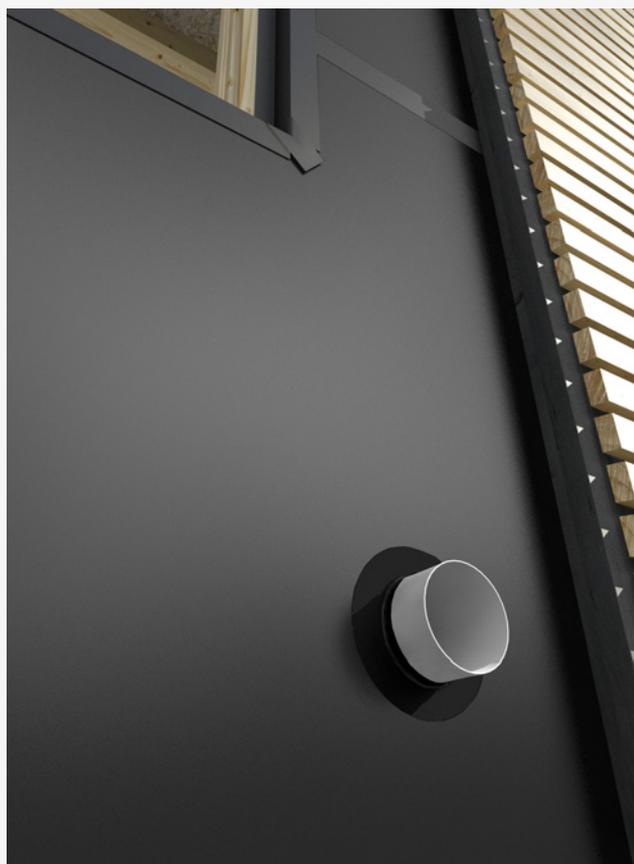
300%



### PRACTICAL

Ideal for easy sealing on difficult nodes and very irregular surfaces; self-adhesive even at low temperatures

-20°C



## CODES AND DIMENSIONS

code	ex code	liner [mm]	B [mm]	L [m]	pcs/box
<b>BLACK50</b>	D63204	-	50	10	6
<b>BLACK4040</b>	D63206	40 / 40	80	10	4

## TECHNICAL SPECIFICATIONS

property	standard	value
Thickness	-	2.0 mm
Expansion capacity	DIN EN 12311/1	> 300 %
Elongation at break point	-	1000 %
Detachment adhesion at 90°	ASTM D 1000	> 80 N
Resistance to instant adhesion	ASTM D 6195	> 70 N
Vertical sliding	ISO 7390	< 10 mm
Application temperature	-	0 / +45 °C
Temperature resistance	-	-40 / +100 °C
Watertightness	-	conforming
Storage temperature	-	+15 / +30 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

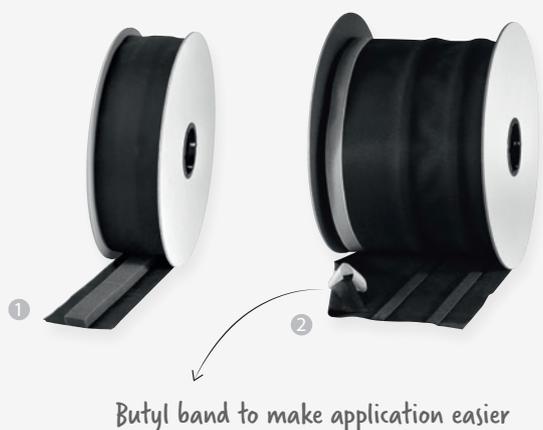
NOTE: Store the product in a dry, covered location for no more than 12 months

# CONNECT BAND



Sealing wall barrier for irregular foundationw

EPDM support with self-expanding tapes made of impregnated polyurethane foam



Butyl band to make application easier

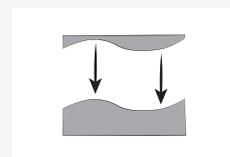
## DOUBLE PROTECTION

Protects wood from rising damp and ensures excellent airtightness



## ADJUSTABLE

Adhesive PU foam profiles make it possible to compensate for any irregularities in the foundation



## TECHNICAL SPECIFICATIONS

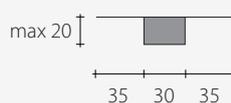
property	standard	value
Tensile strength	DIN 53504	≥ 6.5 MPa
Resistance to tearing	DIN 53504	≥ 25 kN/m
Elongation	DIN 53504	≥ 300 %
Leakage transmission coefficient	EN 12114	$\alpha < 0.1 \text{ m}^3 [\text{h} \times \text{m} \times (\text{daPa})^n]$
Thermal conductivity ( $\lambda$ )	DIN 52612	0.042 W/mK
Reaction to fire	EN 13501	class E
Months of UV or ozone resistance	DIN 7864 T1	conforming
Water vapour resistance factor ( $\mu$ )	EN 1931	32000
Temperature resistance	-	-30 / +100 °C
Application temperature	-	+5 / +35 °C
Storage temperature	-	+1 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

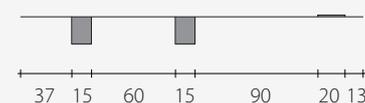
## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	pcs/box
1 CONNECT100	D67262	100	25	3
2 CONNECT250	D67264	250	25	1

### 1 CONNECT100



### 2 CONNECT250

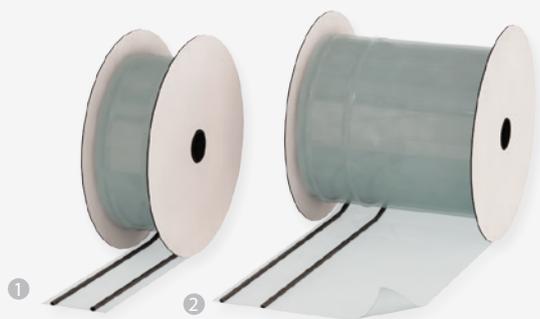


# LEVEL BAND



## Sealing wall barrier for foundations

Polyethylene (PE) support and closed-cell EPDM profiles



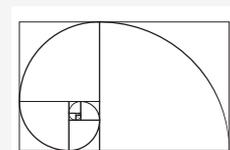
### WATERPROOF

Effectively resists humidity due to capillary action, offering excellent resistance to water, air and wind



### VERSATILE

Available in two versions: ideal both as a wall barrier and to seal vertical wall - wall joints



## TECHNICAL SPECIFICATIONS

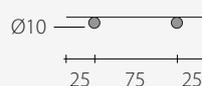
property	standard	value
Maximum tensile force MD/CD	EN 12311-2	20 / 20 N/50 mm <sup>2</sup>
Elongation MD/CD	EN 12311-1	550 / 600 %
Resistance to tearing MD/CD	EN 12310-1	120 / 120 N
Watertightness	EN 1928	conforming
Temperature resistance	-	-40 / +80 °C
Reaction to fire	EN 13501-1	class E
Water vapour resistance after artificial ageing	EN 1296	conforming
Water vapour resistance with presence of alkalis	EN 13984	conforming
Impact resistance	EN 12691	500 mm
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02% (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

	code	ex code	B [mm]	L [m]	pcs/box
①	<b>LEVEL125</b>	D67272	125	25	2
②	<b>LEVEL350</b>	D67274	350	25	2

### ① LEVEL125



### ② LEVEL350



# TIE-BEAM STRIPE

Below tie beam sealing profile

Chemically stable high density EPDM



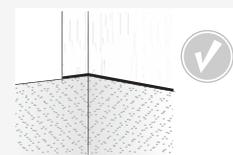
## ADJUSTABLE

Flexible profile is easy to work, thanks to the soft and shapeable mixture



## NOISE REDUCTION

Soundproofing profile to connect tie beam and brickwork/concrete



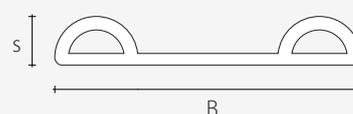
## TECHNICAL SPECIFICATIONS

property	standard	value
Hardness	EN ISO 868	50 shore A
Density	ASTM D 267	1.1 g/cm <sup>3</sup>
Break point load	EN ISO 37	≥ 9 MPa
Elongation at break point	EN ISO 37	≥ 500 %
Compression deformation 22h: +100 °C	EN ISO 815	< 50 %
Temperature resistance	-	-40 / +90 °C
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>TIEBEAM71</b>	D67644	9	71	50	1



# CONSTRUCTION SEALING

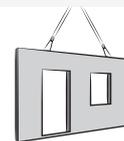
Compressible sealing gasket for regular joints

Expanded EPDM with high chemical stability



## PRACTICAL

Can be applied during construction or during prefabrication to seal wood-wood joints



## DURABLE

The EPDM mix provides high chemical stability and durability over time



## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>CONSTRU46</b>	D63482	3	46	300	1

## TECHNICAL SPECIFICATIONS

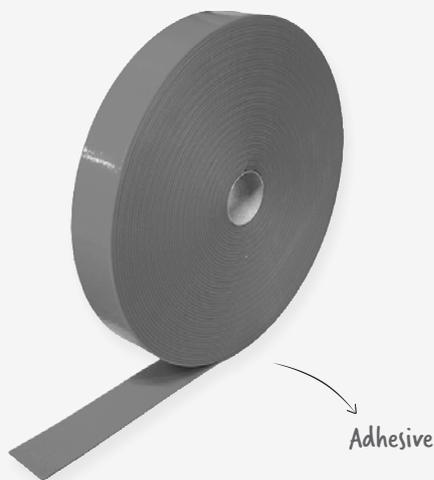
property	standard	value
Specific weight	DIN EN 12311/1	approx. 0.48 g/cm <sup>3</sup>
Compression deformation 22h: +23 °C	EN ISO 815	< 25 %
Compression deformation 22h: +40 °C	EN ISO 815	< 35 %
Temperature resistance	-	-35 / +100 °C
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

# GIPS BAND

Single-sided nail point sealant tape for profiles

Support film and closed-cell polyethylene (PP) foam profile with acrylic glue



## INTUITIVE

Easy to apply adhesive profile, also using LIZARD unwinder



## ACOUSTIC INSULATION

Anti vibration for ribbing on the counterwall structure



## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>GIPSBAND50</b>	D67464	3	50	30	10

## TECHNICAL SPECIFICATIONS

property	standard	value
Temperature resistance	-	-30 / +80 °C
Specific weight	ISO 845	approx. 25 kg/m <sup>3</sup>
Tear strength MD/CD	ISO 1926	325 / 220 kPa
Elongation MD/CD	ISO 1926	125 / 115 %
Compression strength	ISO 3386/1	2 kPa at 10 % compression
	ISO 3386/1	3 kPa at 25 % compression
	ISO 3386/1	5 kPa at 50 % compression
Reaction to fire	DIN 4102 / EN 13501	class B2 / E
Water absorbancy	ISO 2896	< 2 % vol.
Thermal conductivity	-	0.04 W/mK (a +10 °C)
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

# NAIL BAND

## Butyl nail point sealant tape

Butyl rubber with polyethylene (PE) support and separation layer



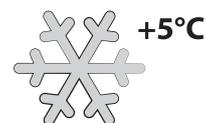
### BUTYL MIX

The special mix guarantees excellent adhesiveness and deformation capabilities, compensating for cracks created by fixing systems



### LOW TEMPERATURES

The butyl ensures excellent adhesion to supports under difficult environmental conditions



## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>NAILBAND50</b>	D62102	1	50	15	12

## TECHNICAL SPECIFICATIONS

property	standard	value
Tear strength	DIN EN 14410	approx. 25 N/25 m
Expansion capacity at breaking point	DIN EN 14410	300 %
Adhesion detachment at +90 °C	IPM 5009	≥ 10 N/25m
Reaction to fire	DIN 4102/1 / EN 13501	class B2 / E
Application temperature	-	+5 / +40 °C
Temperature resistance	-	-30 / +80 °C
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

# NAIL PLASTER

High-adhesiveness single-sided nail point sealant tape

Support film and closed-cell polyethylene (PP) foam profile with acrylic glue

5 mm version for more secure sealing  
(NAILPLA550: colour grey)



## PRACTICAL

With the help of LIZARD, installation is easy and fast, done directly on the ventilation battens



## HERMETIC

The closed cell polyethylene structure ensures the opening created by the fixing systems is waterproof



## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box	pcs/roll
NAILPLA350	D62202	3	50	30	10	-
NAILPLA35050	D62208	3	50 x 50	-	6	400
NAILPLA550	D63212	5	50	10	6	-

## TECHNICAL SPECIFICATIONS

property	standard	value
Specific weight	ISO 845	approx. 30 kg/m <sup>3</sup>
Tear strength MD/CD	ISO 1926	325 / 220 kPa
Elongation MD/CD	ISO 1926	125 / 115 %
Compression strength	ISO 3386/1	2 kPa at 10 % compression
	ISO 3386/1	3 kPa at 25 % compression
	ISO 3386/1	5 kPa at 50 % compression
Reaction to fire	DIN 4102 / EN 13501	class B2 / E
Water absorbancy	ISO 2896	< 2 % vol.
Thermal conductivity	-	0.04 W/mK (a +10 °C)
Temperature resistance	-	-30 / +80 °C
Application temperature	-	+5 / +40 °C
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

# GEMINI

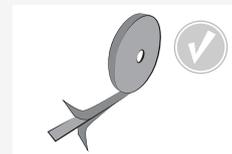
## High-adhesiveness double-sided nail point sealant tape

Closed cell polyethylene (PE) foam profile with double layer of acrylic glue and separation layer



### DOUBLE SECURITY

Double adhesiveness guarantees continuous adhesion between the membrane and batten, avoiding water accumulation in drilled points



### HERMETIC

The closed cell polyethylene structure ensures the opening created by the fixing systems is waterproof



### CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>GEMINI80</b>	D62302	3	80	30	10
<b>GEMINI60</b>	D62303	3	60	30	8

### TECHNICAL SPECIFICATIONS

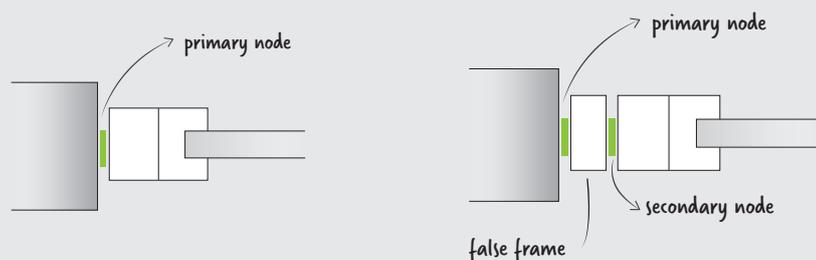
property	standard	value
Specific weight	ISO 845	approx. 30 kg/m <sup>3</sup>
Tear strength MD/CD	ISO 1926	325 / 220 kPa
Elongation MD/CD	ISO 1926	125 / 115 %
Compression strength	ISO 3386/1	2 kPa at 10 % compression
	ISO 3386/1	3 kPa at 25 % compression
	ISO 3386/1	5 kPa at 50 % compression
Reaction to fire	DIN 4102	class B2
Water absorbancy	ISO 2896	< 2 % vol.
Thermal conductivity	-	0.04 W/mK (a +10 °C)
Temperature resistance	-	-30 / +80 °C
Application temperature	-	+5 / +40 °C
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location

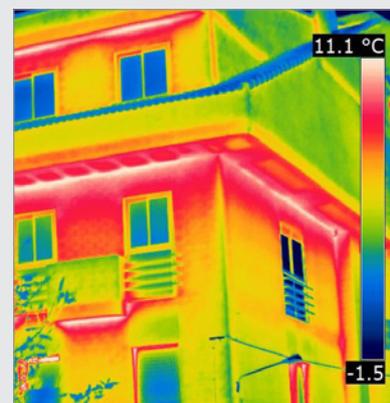
# DOORS, WINDOWS AND STRUCTURE

Modern doors and windows, just like the materials used in construction casings, have seen enormous developments in energy performance over the years. The most delicate aspect is properly connecting the elements, which is crucial in avoiding the formation of condensation and moulds.

## PRIMARY NODE AND SECONDARY NODE



When designing the placement of doors and windows, it is a good idea to think in terms of primary and secondary nodes. The **PRIMARY NODE** is the first joint installed between the structure and the subframe. The **SECONDARY NODE** is the joint installed between the false frame and the door/window. This distinction is useful in order to properly design using the **three-level method**.

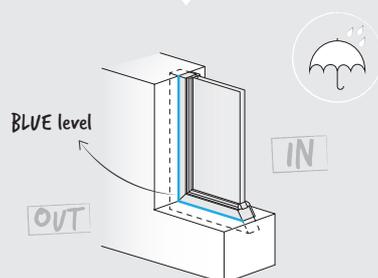


Thermographic analysis makes it possible to visualise any problems with water or air infiltration, identifying thermal bridges that require action.

## THREE LEVELS OF PROTECTION

The **three level method**, which is used often in most European countries, identifies thermal and acoustic insulation levels for proper placement of doors and windows. To obtain maximum performance, it is important to take care in all design stages. rothoblaas offers specific solutions for each of the three levels.

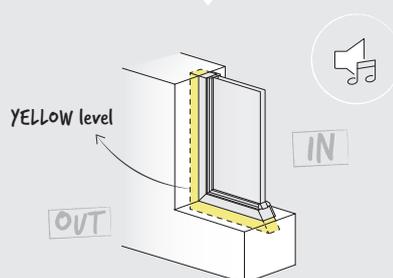
### BLUE LEVEL



This is the most external level, that guarantees protection against weather. If not properly treated, it can create infiltration problems that lead to the formation of condensation and mould.

- **ROTHOBLAAS RECOMMENDS:** PROTECT, PLASTER BAND OUT, BYTUM BAND, MULTI BAND, FLEXI BAND, EASY BAND, FROST BAND, FACADE BAND UV, FRONT BAND UV 210

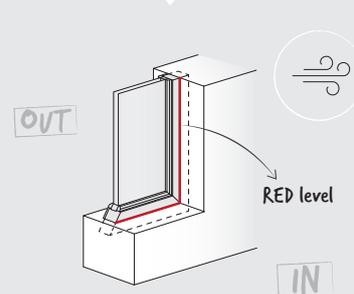
### YELLOW LEVEL



Intermediate level, which must guarantee thermal/acoustic performance and mechanical fixing. Problems can arise from the fact that frequently the materials that insulate well against noise are not equally effective against cold.

- **ROTHOBLAAS RECOMMENDS:** FRAME BAND, HERMETIC FOAM, KOMPRI BAND, CONSTRUCTION SEALING, UNIVERSAL GEL, SEALING FOAM

### RED LEVEL

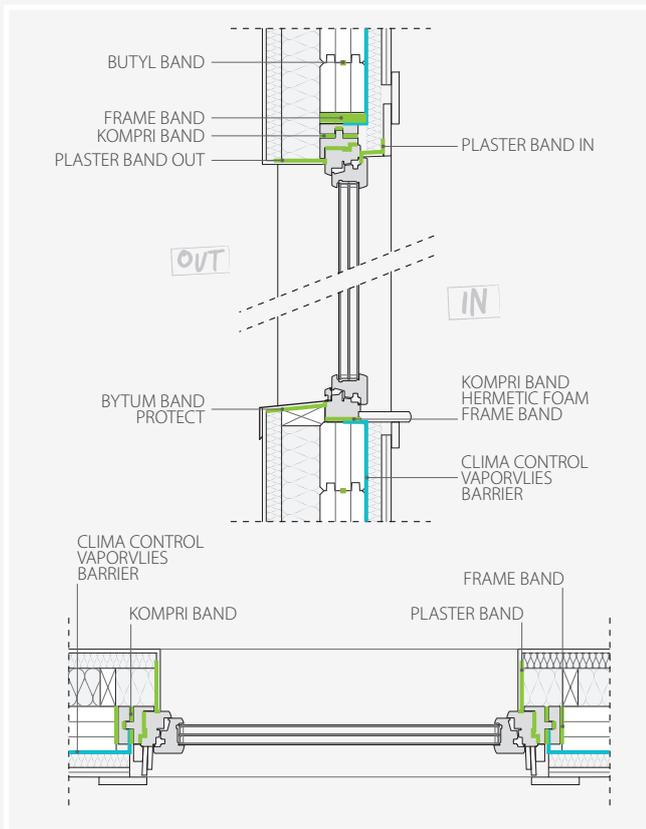


Most internal level, generally the most neglected. Must guarantee airtightness to avoid formation of condensation in installation joints, which could damage the insulating solutions used in the primary node.

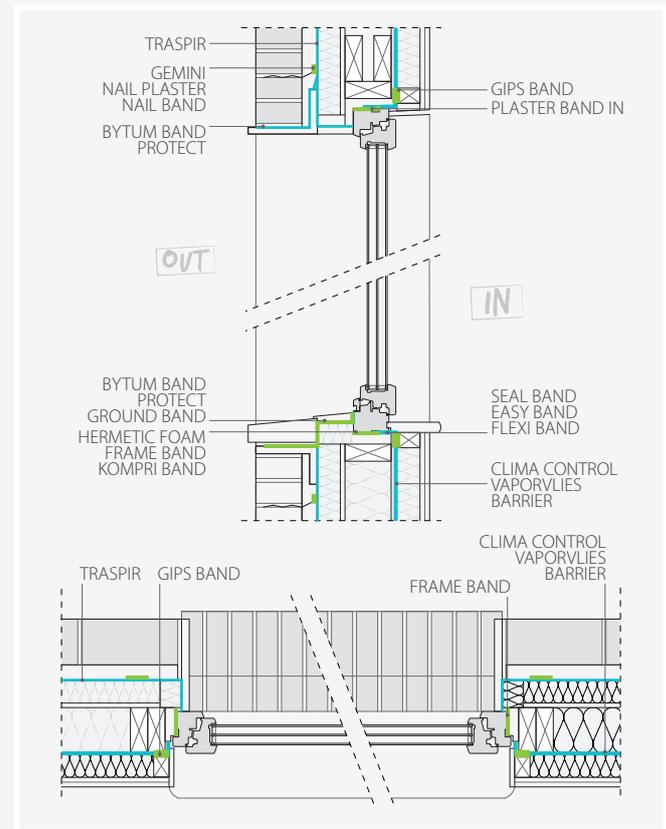
- **ROTHOBLAAS RECOMMENDS:** PLASTER BAND IN, MULTI BAND, SEAL BAND, EASY BAND, FLEXI BAND, FROST BAND

**DETAIL 1** | B\_2/8\_C\*

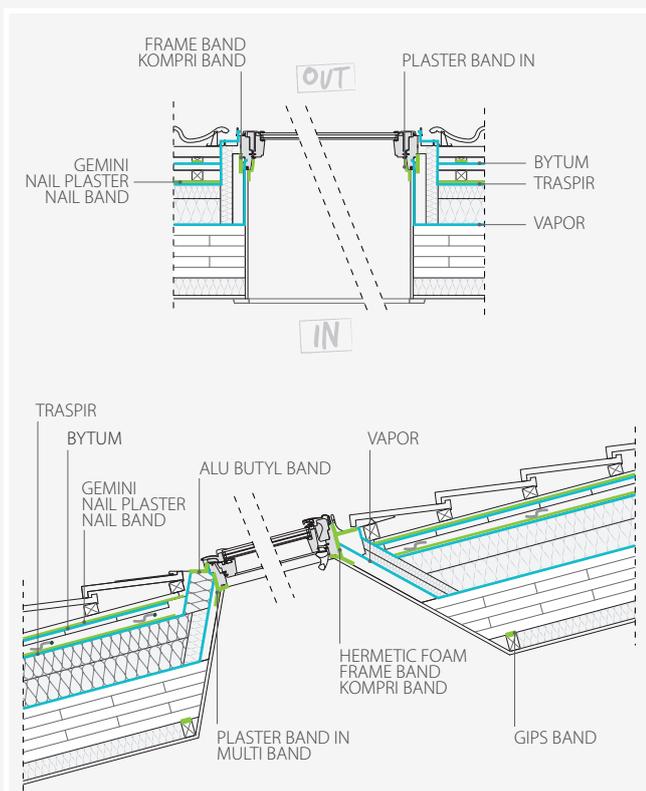
Doors/windows: Blockhaus with external plastered coating

**DETAIL 2** | T\_2/8\_P\*

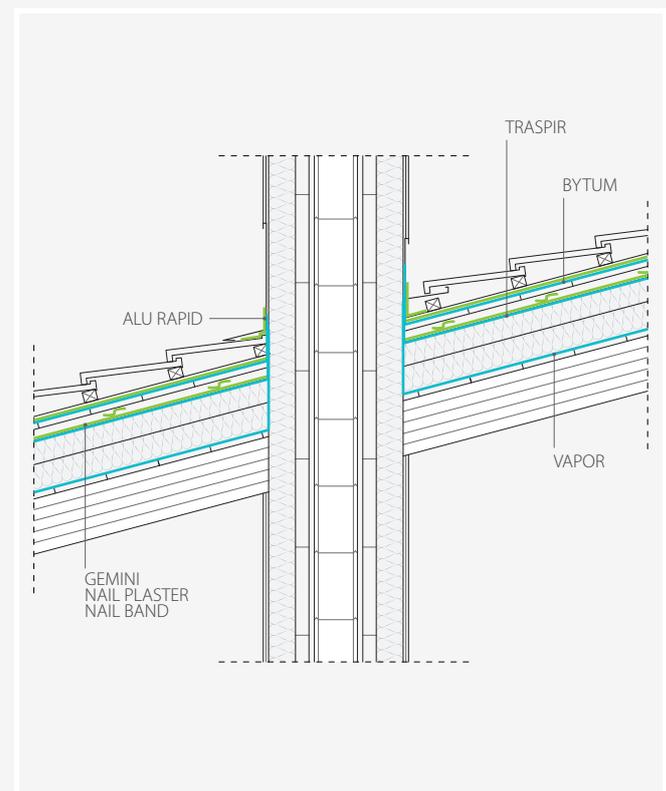
Doors/windows: Platform frame with ventilated facade and external coating in brickwork

**DETAIL 3** | R\_T\_1/6/9\_B\*

Window on roof: roof floor made of XLAM (Cross Laminated Timber)

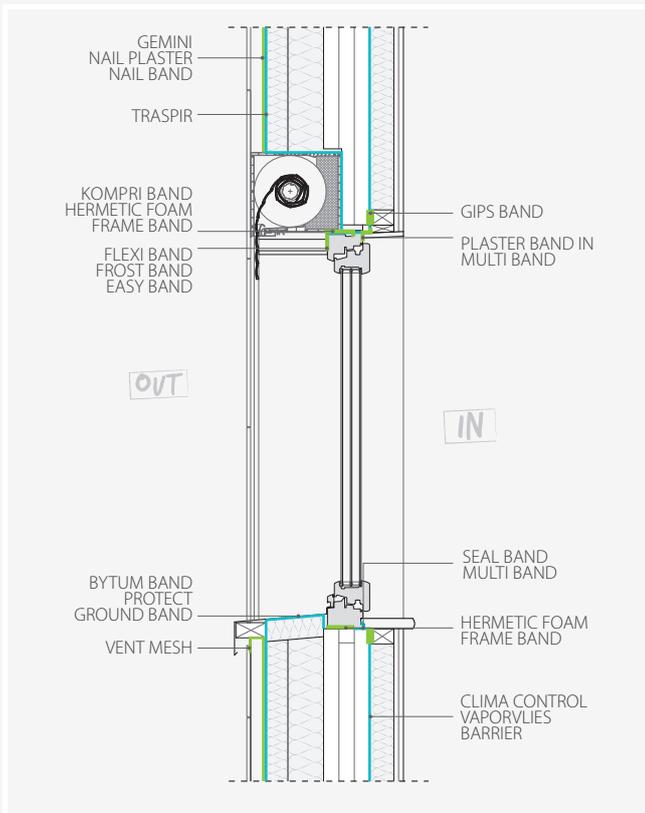
**DETAIL 4** | R\_X\_1/6/9\_C\*

Chimney: beam structure and double boarding

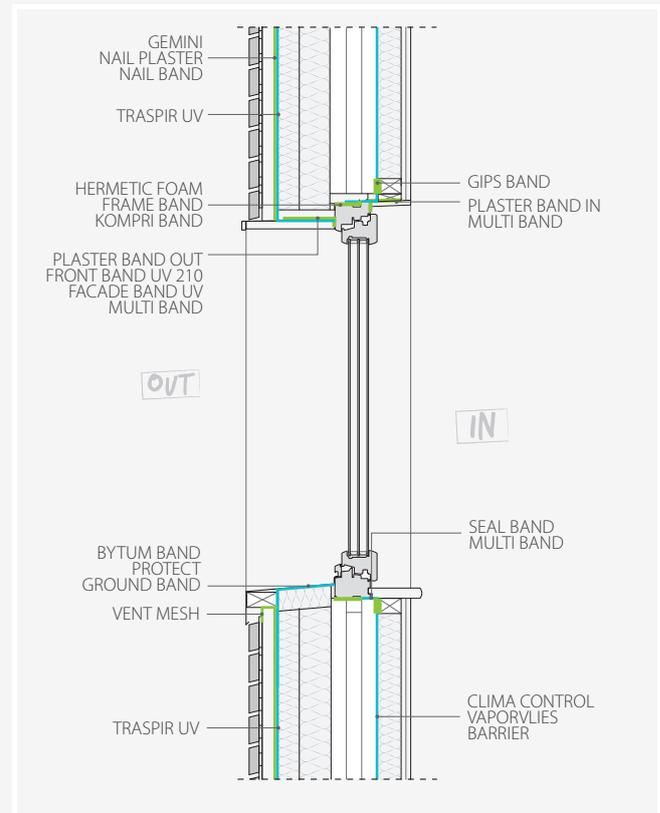
\* NOTE: Consult the complete library of building details at [www.rothoblaas.com](http://www.rothoblaas.com)

**DETAIL 5** | T-C\_1/2/8/9\_P4\*

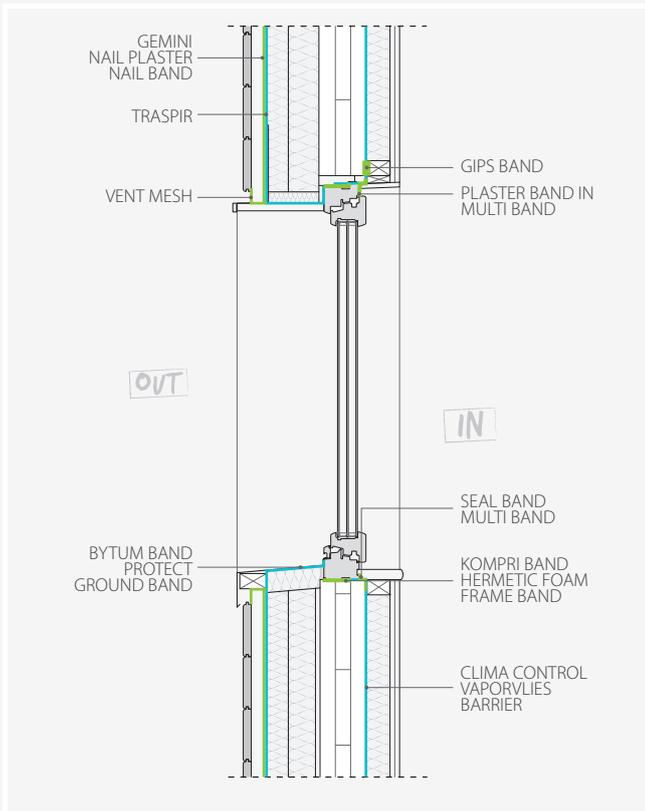
Doors/windows: XLAM (Cross Laminated Timber) with rolling shading system and ventilated facade

**DETAIL 6** | T-C\_1/2/8/9\_P1\*

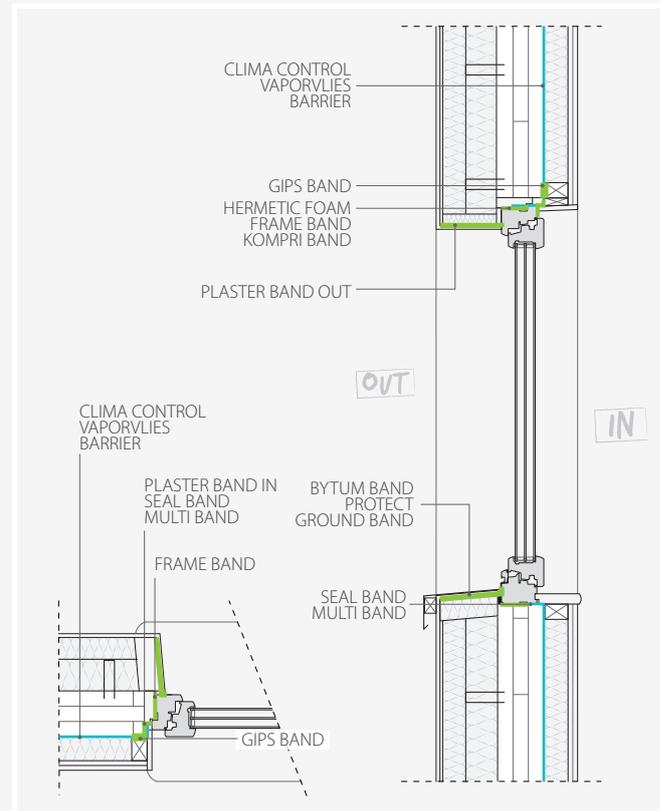
Doors/windows: XLAM (Cross Laminated Timber) with ventilated facade and discontinuous coating with open joints

**DETAIL 7** | R\_T\_1/6/9\_B\*

Doors/windows: XLAM (Cross Laminated Timber) with ventilated facade and continuous coating with closed joints

**DETAIL 8** | R\_X\_1/6/9\_C\*

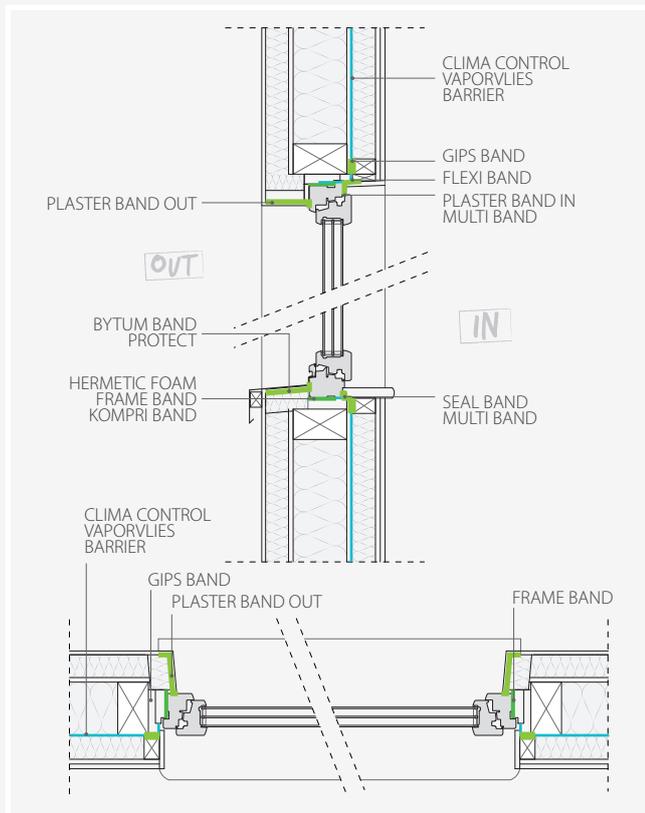
Doors/windows: XLAM (Cross Laminated Timber) with plastered external coating



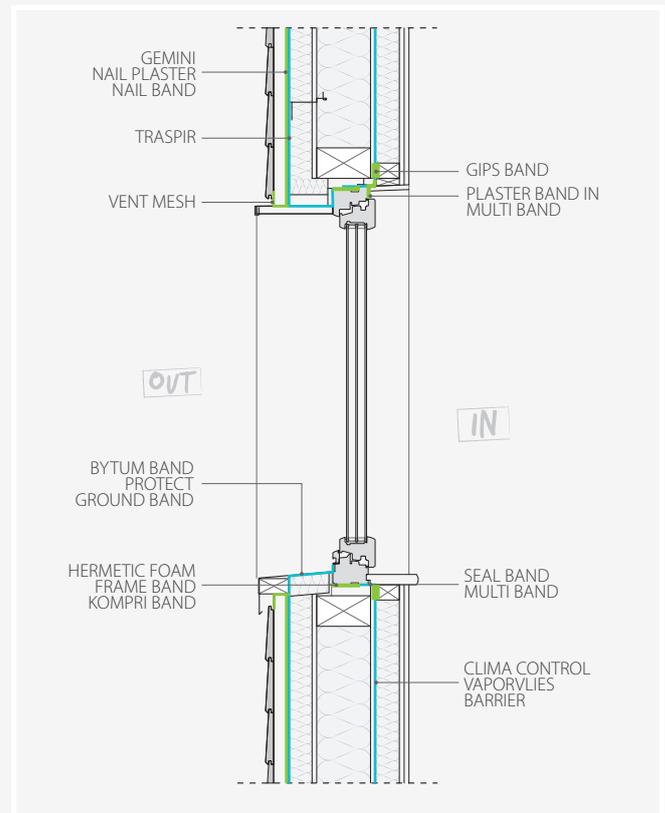
\* NOTE: Consult the complete library of building details at [www.rothoblaas.com](http://www.rothoblaas.com)

**DETAIL 9** | T-C\_1/2/8/9\_P4\*

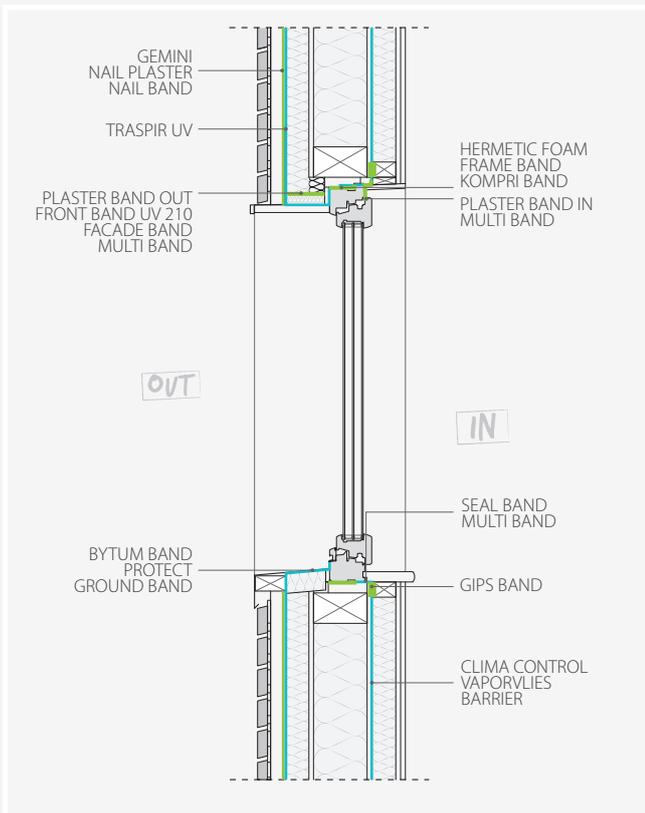
Doors/windows: Timber frame with external plastered coating

**DETAIL 10** | T-C\_1/2/8/9\_P1\*

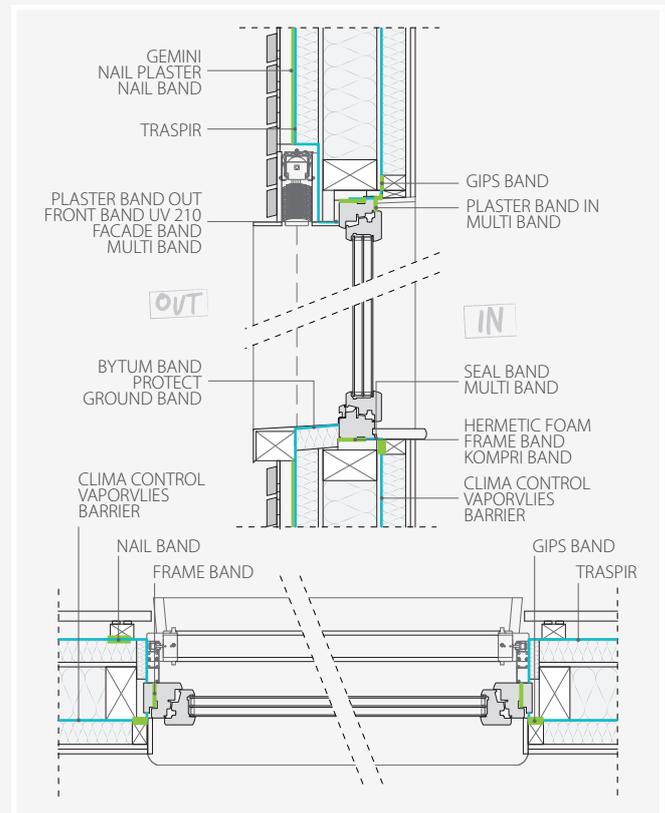
Doors/windows: Timber frame with ventilated facade and continuous coating with closed joints

**DETAIL 11** | R\_T\_1/6/9\_B\*

Doors/windows: Timber frame with ventilated facade and discontinuous coating with open joints

**DETAIL 12** | R\_X\_1/6/9\_C\*

Doors/windows: Timber frame with "brise-soleil" shading system and ventilated facade

\* NOTE: Consult the complete library of building details at [www.rothoblaas.com](http://www.rothoblaas.com)

# PRIMER

Universal foundations for acrylic adhesive tapes

Fast dry acrylic dispersion primer, solvent-free



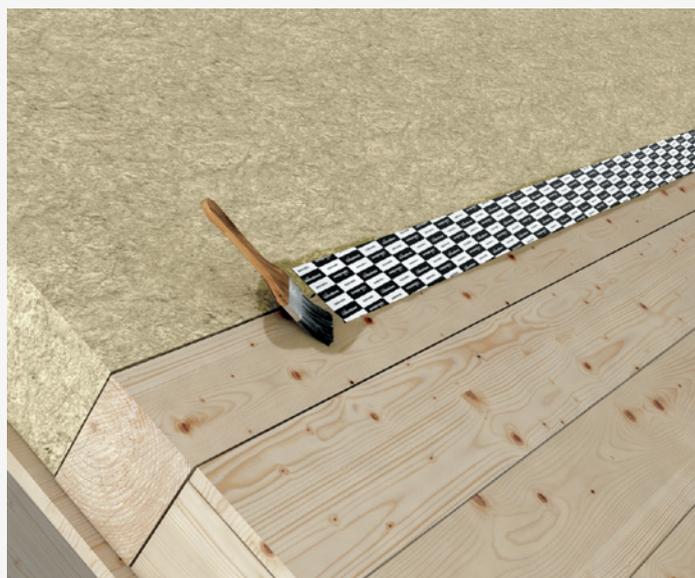
## DISCREET

Transparent, thanks to the solvent-free acrylic dispersion mixture



## PRACTICAL

Ready to use, compensates for irregularities on rough surfaces and guarantees fast drying



## CODES AND DIMENSIONS

code	ex code	content [kg]	colour	pcs/box
<b>PRIMER</b>	D69702	1.0	clear	1

## TECHNICAL SPECIFICATIONS

property	value
Liquid colour	white
Hardened colour	clear
Application temperature	+5 / +35 °C
Processing time	approx. 30/60 minutes
Temperature resistant once applied	-20 / +80 °C
Workable surface - concrete/stone	approx. 12 m <sup>2</sup> /kg
Workable surface - wood/OSB	approx. 6 m <sup>2</sup> /kg
Storage temperature	+5 / +20 °C
Transport temperature	> 0°C
Solvents	NO
VOC emissions	34 %

NOTE: Store the product in a dry, covered location for no more than 12 months

# PRIMER SPRAY

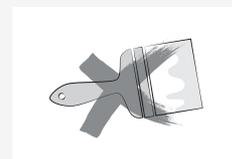
Universal spray foundations for acrylic adhesive tapes

Transparent glue, based on a synthetic mix



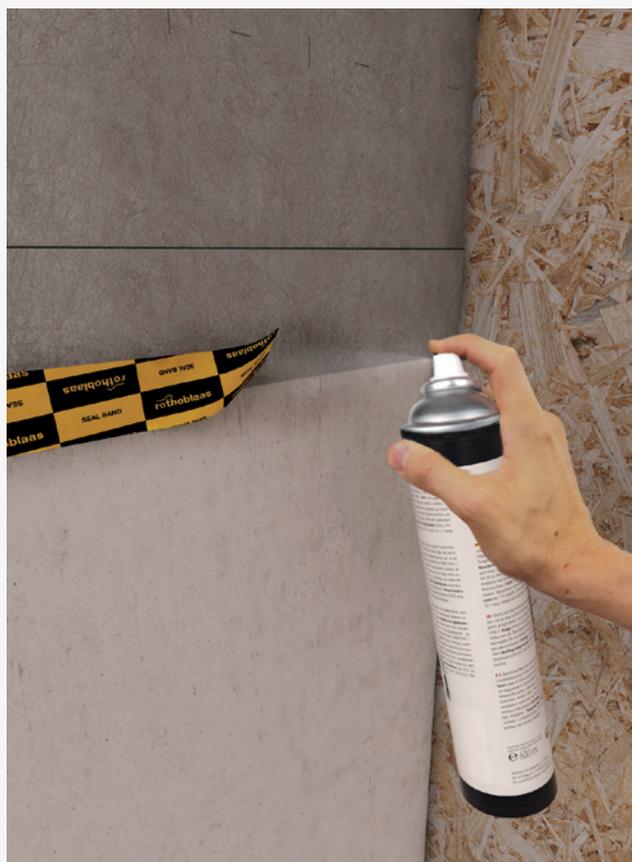
## INSTANTANEOUS

Thanks to spray can application and the adjustable nozzle, no brushes or other equipment is needed for installation



## HIGH PERFORMANCE

At a distance of approx. 30 - 50 cm from the surface approx. 6 cm of attaching area is achieved. Ideal for use with rothoblaas tapes



## CODES AND DIMENSIONS

code	ex code	content [ml]	pcs/box
PRIMERSPRAY	D69703	750	12

## TECHNICAL SPECIFICATIONS

property	value
Liquid colour	white
Hardened colour	clear
Application temperature	+5 / +35 °C
Processing time	approx. 30/40 minutes
Temperature resistant once applied	-30 / +90 °C
Yield	80 g/m <sup>2</sup>
Storage temperature	+5 / +20 °C
Transport temperature	> 0°C
Solvents	NO
VOC emissions	54,6 %

NOTE: Store the product in a dry, covered location for no more than 12 months

# SUPERB GLUE

High elasticity adhesive glue for sealing membranes

Water-based polymeric dispersion mix, solvent-free



## HIGH PERFORMANCE

Adhesive elastic formula, stable over time, free of solvents and harmful substances. Storage and use at low temperatures possible



## SPECIAL MIX

The special chemical composition, ready to use, ensures faster hardening times than the standard



## CODES AND DIMENSIONS

code	ex code	content [ml]	cartridge	pcs/box
1 SUPGLUE310	D69532	310	plastic	12
2 SUPGLUE600	D69534	600	soft	12

## TECHNICAL SPECIFICATIONS

property	value
Colour	blue
Density	1.3 g/cm <sup>3</sup>
Elongation at break point	10 %
Yield with strip Ø8 mm (cartridge 310 ml)	approx. 6 m
Hardening time at 25 °C	approx. 2 mm / 24 h
Temperature resistance once hardened	-20 / +80 °C
Application temperature (support)	-10 / +40 °C
Application temperature (cartridge)	+5 / +35 °C
Water tightness after hardening	conforming
Storage temperature	-20 / +25 °C
Solvents	NO
VOC emissions	< 0.02 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

# MEMBRANE GLUE

Adhesive glue for sealing membranes

Water-based polymeric dispersion mix, solvent-free



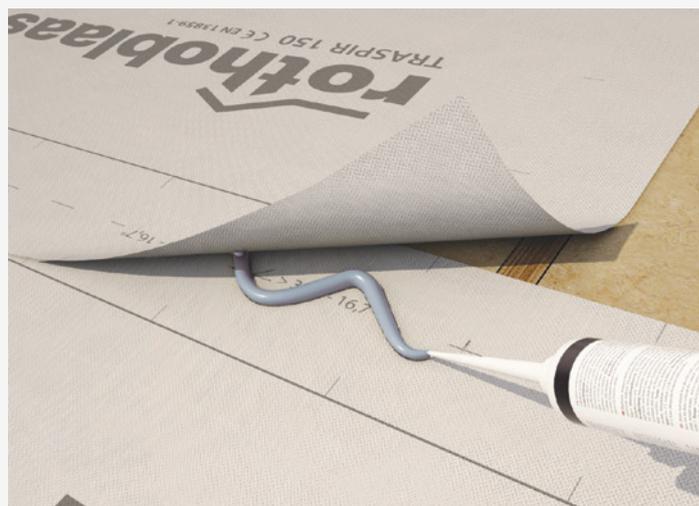
## EFFECTIVE

Solvent-free acrylic adhesive, with good adherence to the most common supports



## PRACTICAL

Easily extruded mix, ready to use and easily removed with water prior to hardening



## CODES AND DIMENSIONS

code	ex code	content [ml]	cartridge	pcs/box
1 MEMGLUE310	D69522	310	plastic	20
2 MEMGLUE600	D69524	600	soft	20

## TECHNICAL SPECIFICATIONS

property	standard	value
Colour	-	grey / light blue
Density	-	1.15 / 1.3 g/cm <sup>3</sup>
Elongation at break point	-	5 %
Yield with 8 mm diameter strip (cartridge 310 ml)	-	approx. 6 m
Hardening time at 25 °C	-	approx. 1 mm/24 h
Adhesion strength (glueing strength) on PE film on concrete, masonry, wood, porous concrete in accordance with standard	DIN 53 539	> 20 N/25 mm
Temperature resistance once hardened	-	-20 / +80 °C
Working temperature	-	+5 / +40 °C
Water tightness after hardening	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	< 0.02 (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

# OUTSIDE GLUE

High elasticity universal adhesive glue for external use

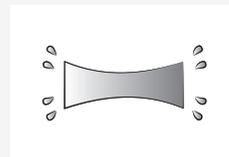
Single-component sealant with butyl rubber base



Cartridges do not require special disposal  
(low toluene content)

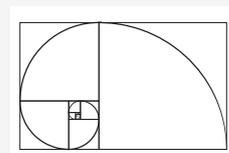
## ELASTIC

The butyl composition offers high joint elasticity over time, even in the case of small deformations or movements



## UNIVERSAL

Guarantees sealing and attachment to the most common materials, including damp or wet supports



## CODES AND DIMENSIONS

code	ex code	content [ml]	pcs/box
1 OUTGLUE310	D69542	310	12
2 OUTGLUE600	D69544	600	12

## TECHNICAL SPECIFICATIONS

property	value
Colour	grey
Density	1.3 g/m <sup>3</sup>
Yield with 8 mm diameter strip (cartridge 310 ml)	approx. 6 m
Time for creating a film	20 - 30 minutes
Hardening time at 25 °C	24 / 48 h
Temperature resistance once hardened	-25 / +80 °C
Application temperature	0 / +40 °C
Water tightness after hardening	conforming
Storage temperature	+5 / +25 °C
Solvents	YES
VOC emissions	15 %

NOTE: Store the product in a dry, covered location for no more than 12 months

# BUTYL BAND

Double-sided universal butyl tape

Reinforced butyl profile with polyester mesh (PL)

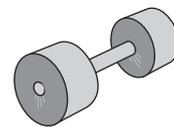


EN13956/13967



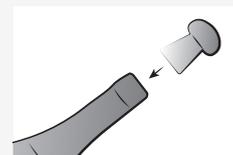
## RESISTANT

The polyester mesh guarantees consistence and high resistance



## HERMETIC

Appropriate for watertight seals for wood-wood and/or wood-concrete joints



## TECHNICAL SPECIFICATIONS

property	standard	value
Expansion capacity	DIN EN 12311/1	> 300 %
Elongation at break point	-	1000 %
Detachment adhesion at 90°	ASTM D 1000	> 80 N
Resistance to instant adhesion	ASTM D 6195	> 70 N
Vertical sliding	ISO 7390	< 10 mm
Temperature resistance	-	-40 / +100 °C
Application temperature	-	0 / +45 °C
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	s [mm]	B [mm]	L [m]	pcs/box
<b>BUTYLBAND1501</b>	D63414	1	15	15	20
<b>BUTYLBAND1502</b>	D63434	2	15	10	13

## COMPOSITION

reinforcing layer: reinforcing PL grid

material: butyl compound

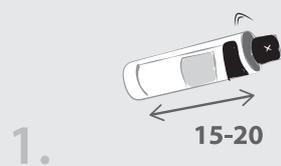
compound colour: black

# SEAL WITH FOAM

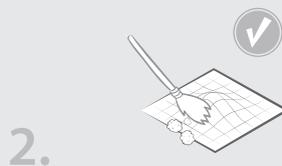
Polyurethane foam is a chemical sealant. Its main functions are to waterproof, insulate and seal. It is commonly used in installation of windows and doors, to fill in cracks or air voids in construction, or to attach different elements to avoid infiltration and passage of air.

## RECOMMENDATIONS WHEN SEALING WITH FOAM

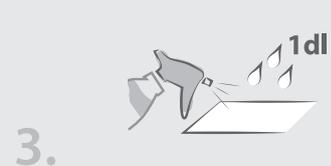
The biggest advantage offered by foam is its ability to penetrate inside the opening, ceiling, hollow space, or hole, and in general in all situations in which a sheet of material cannot be used.



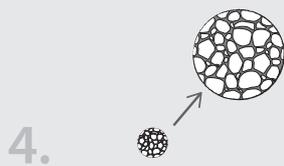
Shake the can energetically at least 15-20 times before using, keeping it horizontal.



Surfaces must be solid, dry, clean and degreased, free of dust and detached pieces, wax, old paint residue, rust, etc.



Dampen the surfaces well before applying the foam. Use around 1 dl of water for an entire spray can.



Take care not to fill in the opening by more than 50%: the foam will continue to expand to approximately two times its volume.



Optimal temperature for use is 20°C. Below this temperature expansion slows, and above it the foam may lose effectiveness.



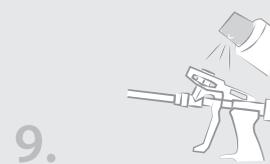
If the ambient temperature is not ideal, heat or cool the spray can using cold or hot water.



Before inserting the sealant in the gun, check that there is no foam residue from the last use.



To avoid damaging the attachment threads on the spray can, hold it horizontally and slowly screw it onto the gun.

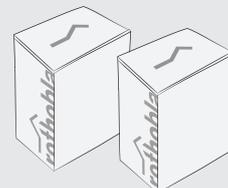


After use, carefully eliminate all foam residue from the gun. If it hardens inside, it could become unusable.

## STORAGE



Store the spray cans properly, following the instructions found on the package or the can itself. It is important that it be stored vertically. Before use, read the technical data sheet and safety sheet.



# HERMETIC FOAM

High-performance soundproof elastic sealant foam

Closed-cell polyurethane mix



60 dB

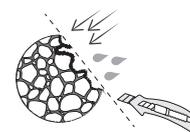
## CERTIFIED NOISE REDUCTION

Up to 60 dB noise reduction, certified by the IFT Rosenheim institution



## HERMETIC

Waterproof and airtight, even if trimmed after hardening, thanks to the closed-cell structure



## TECHNICAL SPECIFICATIONS

property	standard	value
Reaction to fire	DIN 4102 / EN 13501	class B3 / F
Acoustic insulation of connections rated $R_{ST,w}$	IFT SC-01 Directive	10 mm: 60 (-1; -4) dB 20 mm: 60 (-1; -3) dB
Airtight	Ö Norm EN 1027 Ö Norm EN 12114	1000 Pa 1000 Pa
Time:		
• creation of external film	-	5 / 10 minutes
• workable after extrusion	-	15 / 20 minutes
• for the initial hardening stage	-	2 hours
Dimensional stability	DIN 53431	± 5 %
Cartridge processing temperature	-	+10 / +30 °C
Application temperature	-	-10 °C
Constant processing maximum temperature	-	-40 / +80 °C
Temporary processing maximum temperature	-	+120 °C
Specific weight	-	15 / 20 kg/m <sup>3</sup>
Elongation at break point	DIN 53571	approx. 25 %
Water vapour permeability (WVPA/VDD)	DIN 53429	50 / 60 g/m <sup>2</sup> /24h
Thermal conductivity	DIN 56612	0.035 W/h
Storage temperature	-	+5 / +20 °C
Transport temperature	-	> 0 °C
Solvents	-	NO
VOC emissions	-	19.4 %

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	content [ml]	yield [l]	cartridge	pcs/box
HERFOAM	D69202	750	40	aluminium	12

# SEALING FOAM

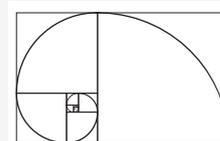
## Automatic extrusion sealant foam

Polyurethane mix



### UNIVERSAL

Polyvalent foam to fill air voids between various construction elements



### DURABILITY

Excellent adherence to the most common surfaces and resistant to ageing if protected from UV rays



## TECHNICAL SPECIFICATIONS

property	standard	value
Reaction to fire	DIN 4102 / EN 13501	class B2 / E
Time:		
• creation of external film	-	8 / 10 minutes
• workable after extrusion	-	20 / 30 minutes
• for the initial hardening stage	-	3 hours
Dimensional stability	DIN 53431	± 5 %
Cartridge processing temperature	-	+10 / +30 °C
Application temperature	-	+3 °C
Constant processing maximum temperature	-	-40 / +80 °C
Temporary processing maximum temperature	-	+120 °C
Specific weight	-	15 / 25 kg/m <sup>3</sup>
Compression solidity at a pressure of 10%	DIN 53421	5 / 7 N/cm <sup>2</sup>
Maximum tensile force	DIN 53430	/
Water absorbency	DIN 53428	0.50 % Vol./24h
Water vapour permeability (WVPA/VDD)	DIN 53429	50 / 60 g/m <sup>2</sup> /24h
Thermal conductivity (λ)	DIN 56612	0.035 W/h
Storage temperature	-	+5 / +20 °C
Transport temperature	-	> 0 °C
Solvents	-	NO
VOC emissions	-	20 %

NOTE: Store the product in a dry, covered location for no more than 12 months

## CODES AND DIMENSIONS

code	ex code	content [ml]	yield [l]	cartridge	pcs/box
SEAFOAMG	D69204	750	48	aluminium	12

# TILE FOAM

Automatic extrusion foam for attaching tiles or insulation panels

Polyurethane mix



## VERSATILE

Ideal for attaching insulation panels, tiles and other porous elements



## PRACTICAL

Easy and precise installation; fast hardening and adhesiveness guaranteed over time if protected from UV rays



## TECHNICAL SPECIFICATIONS

property	standard	value
Reaction to fire	DIN 4102 / EN 13501	class B2 - B3 / E - F
Time:		
• creation of external film	-	8 / 10 minutes
• workable after extrusion	-	20 / 30 minutes
• for the initial hardening stage	-	3 hours
Dimensional stability	DIN 53431	± 5 %
Cartridge processing temperature	-	+10 / +30 °C
Application temperature	-	3 °C
Constant processing maximum temperature	-	-40 / +80 °C
Temporary processing maximum temperature	-	120 °C
Specific weight	-	15 / 25 kg/m <sup>3</sup>
Compression solidity at a pressure of 10%	DIN 53421	5 / 7 N/cm <sup>2</sup>
Water absorbency	DIN 53428	0.50 % Vol./24h
Water vapour permeability (WVPA/VDD)	DIN 53429	50 / 60 g/m <sup>2</sup> /24h
Thermal conductivity (λ)	DIN 56612	0.035 W/h
Storage temperature	-	+5 / +20 °C
Transport temperature	-	> 0 °C
Solvents	-	NO
VOC emissions	-	20 %

## CODES AND DIMENSIONS

code	ex code	content [ml]	yield [l]	cartridge	pcs/box
TILEFOAM	D69205	750	40	aluminium	12

NOTE: The product should be seen as an aid when installing the insulation layer. Refer to the manufacturer of the insulation for instructions on proper installation.

Store the product in a dry, covered location for no more than 12 months

# UNIVERSAL GEL

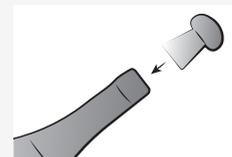
Instantaneous sealant with IP68 protection

Patented cross-linked viscous elastic gel, with permanent adhesion and elasticity



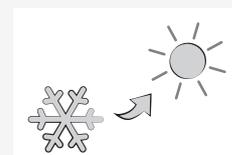
## HERMETIC AND SAFE

Guarantees the highest hermetic performance allowing for direct contact with voltage conductors



## EXTREME CONDITIONS

Appropriate for use in all weather conditions, even in the rain; guaranteed thermal resistance up to +250 °C



## TECHNICAL SPECIFICATIONS

property	standard	value
Protection level	EN 60529	IP68
Flammability	UL 94	class HB
Flash Point	DIN 51376	> +200 °C
Auto-ignition temperature	DIN 51376	> +400 °C
Time for initial hardening stage	-	does not harden
Application temperature	-	-40 / +40 °C
Constant processing maximum temperature	-	-60 / +200 °C
Temporary processing maximum temperature	-	+250 °C
Specific weight	-	0.96 g/cc
Water absorption after 30 days	-	< 0.05 %
Thermal conductivity	DIN 56612	approx. 0.2 W/mK
Dielectric strength	-	< 5
Loss factor	-	< 5 <sup>-3</sup>
Volume resistivity	-	> 2 x 10 <sup>15</sup> Ωcm
Storage temperature	-	+5 / +20 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

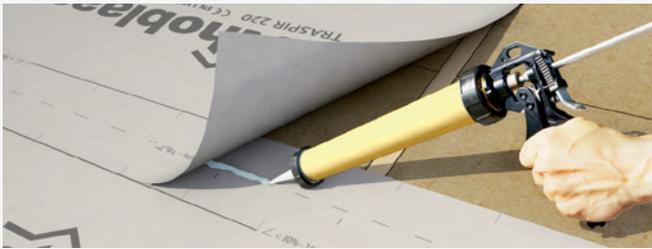
NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	content [ml]	cartridge	pcs/box
UNIGEL	D69602	280	plastic	36

# FLY SOFT

Sealant gun - soft cartridges



code	description	pcs/box
FLYSOFT	600 ml	1
FLYSOFT2	5 spare plungers, 1 nozzle, 1 angled nozzle, 1 grout nozzle	
FLYSOFT3	spare plungers	5

# FLY 400/401

Sealant gun



1



2

	code	description	version [ml]	pcs/box
1	FLY400	basic model	400	1
2	FLY401	professional use	400	1

# FLY FOAM

Automatic foam gun - long tube



code	description	pcs/box
FLYFOAM	foam gun	1

# FOAM CLEANER

Detergent for cartridge guns



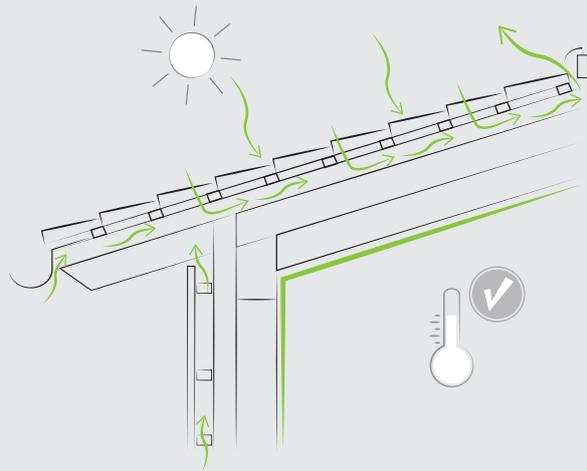
	code	content [ml]	pcs/box
	FLYCLEAN	500	12

# VENTILATION

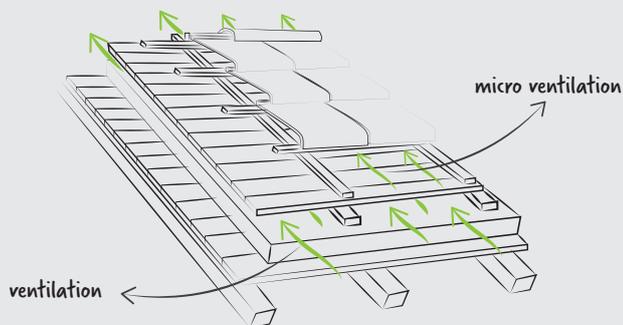
Ventilation is achieved by inserting an air layer between the insulation and the coating or wall. The main goal is to improve dynamic functioning (that is during various seasons and weather conditions), but it also serves other important functions.

## PURPOSES OF VENTILATION

1. Remove part of thermal energy created by solar radiation, increasing internal comfort, especially during the hot summer months.
2. Favour drying of water vapour and condensation enclosed inside the casing, preventing stagnation in the insulation or structure.
3. Support the removal of snow and ice deposits, as it favours drying and allows warmer air to enter under the casing.
4. Increase the durability of the materials used for waterproofing and casing: ventilation reduces the cyclical thermal stress suffered by these materials.
5. Guarantee an additional protective layer against rain and bad weather for the insulation layer, the heart of the casing.

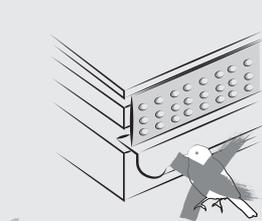


## VENTILATION OR MICRO VENTILATION?



For roofs, there is also **underlay micro ventilation**. This is achieved with tile spacer battens, at least 2 cm thick (e.g. Italy - UNI 8627, always check the national regulations). Micro ventilation is not sufficient to remove thermal energy affecting roofs in the case of medium and high radiation. However, it is effective at eliminating excess humidity.

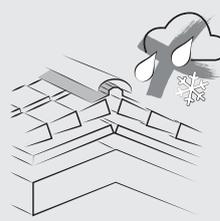
## CREATION AND MAINTENANCE



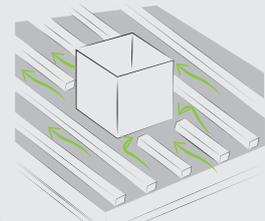
1. Protect air inlets and outlets from insects and birds, minimising section obstruction.



2. Check that the gutter and ridge are free of obstacles that could impede air circulation.



3. Ensure water and snow transported by the wind near the ridge is sealed out.

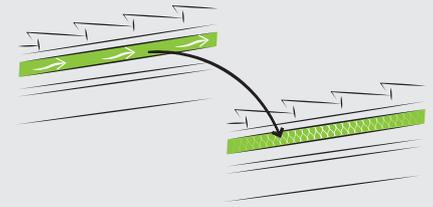


4. Avoid battening or other impediments that could block the upward flow of air heated along the slope.

## DESIGN VENTILATION

Ventilated hollow spaces serve as a genuine **insulating layer** that contributes to the total thermal resistance (heat transmittance or thermal performance) of the layers into which they are inserted. Systems and regulations that govern installation vary widely. For thermal calculations, refer to the EN ISO 6946 standard used internationally.

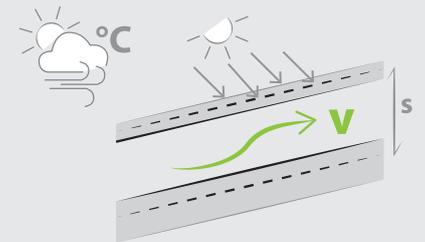
(See the reference values for BARRIER ALU 200 page 31, TRASPIR SUNTEX 150 page 53 and TRASPIR SUNTEX 200 page 64)



### FLOW CAPACITY

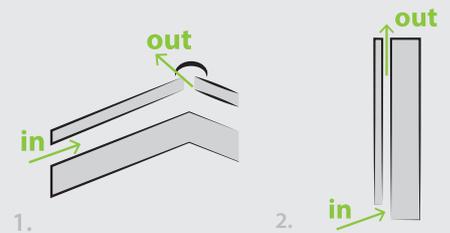
The air flow capacity via the hollow space translates to a reduction in summer thermal loads and is determined by the size and shape of the hollow space, as well as the speed of the air.

Note that ventilation is not a constant, predictable phenomena, but is affected by multiple factors. Due to this variability, it is complicated to determine the location of effective inlets and outlets for the air circulating in the hollow space.



### LOCATION OF OPENINGS

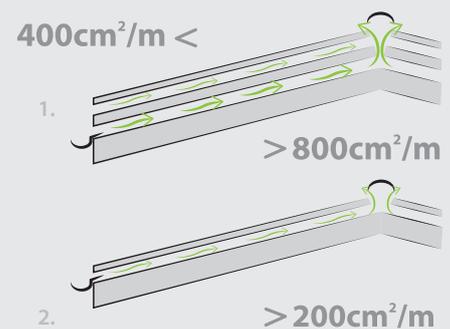
1. Inlet and outlet openings are located along the gutters or valleys and on the roof ridgeline.
2. For walls, air inlets are inserted at the base, while outlets are located higher up, favouring upward movement.



**NOTE:** Every roof should be considered individually. Construction and technology types should not be reused without considering the specific context, to avoid the risk of eliminating any benefit from ventilation.

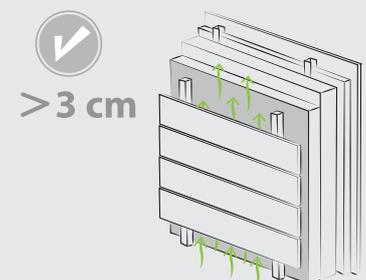
### MINIMUM HOLLOW SPACE AREA

1. In general, for a ventilated roof, the hollow space or ventilation channel must have an area that ranges from a minimum of  $400\text{ cm}^2$  to a maximum of  $800\text{ cm}^2$  for every linear metre of roof slope.
2. For a micro ventilated roof, in general it is recommended a hollow space area of at least  $200\text{ cm}^2$  for every linear meter of roof slope.



### ...AND FOR WALLS

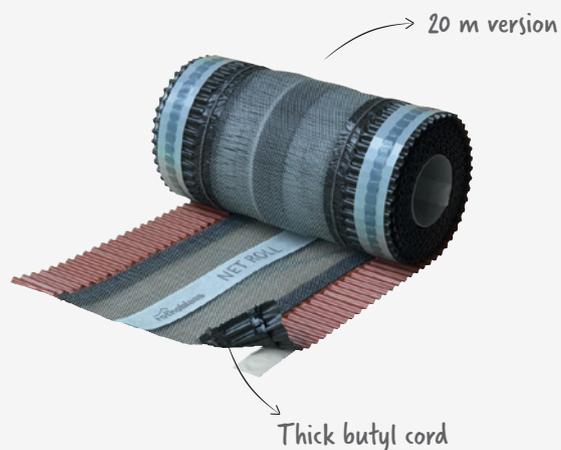
In regards to walls, a ventilation section of at least 2-3 cm is recommended, calibrated based on the type of covering (continuous or discontinuous and the relative dimensions) and the dimensions of the facade itself. There are national standards that provide instructions for calculations and design.



# NET ROLL

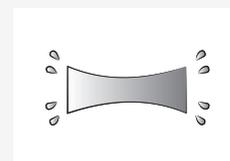
## Flexible ventilated under-ridge

Polypropylene (PP) ventilation grid and aluminium strips with adhesive butyl cord



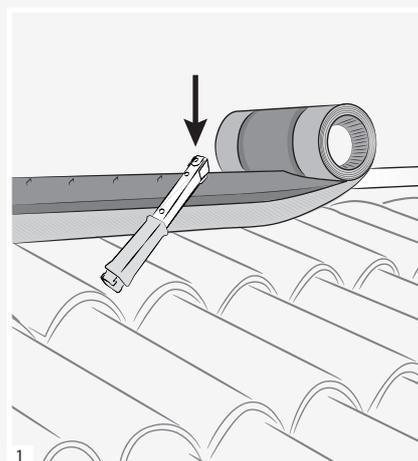
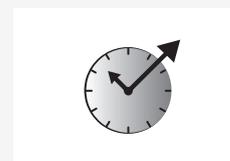
### FLEXIBLE

The polypropylene ventilation fabric offers excellent adaptability during installation

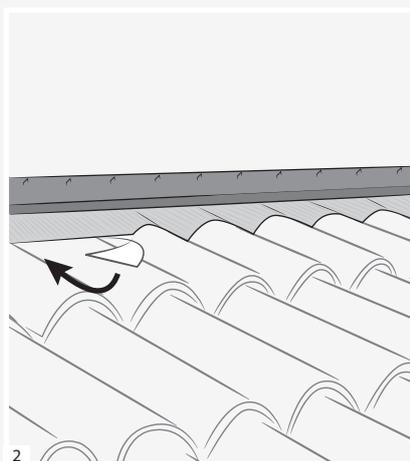


### DOUBLE SECURITY

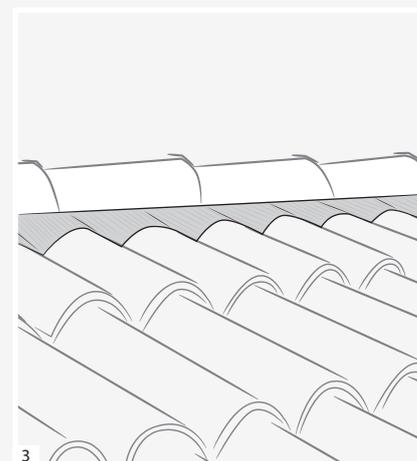
The ventilation strip, which is sewn and glued to the pleated wings, guarantees that the solution remains intact during installation and continues to be effective over time



Unroll the under-ridge on the wood batten, attach with staples every 50 - 60 cm



Remove the protective film and shape the pleated strip to the tile profile

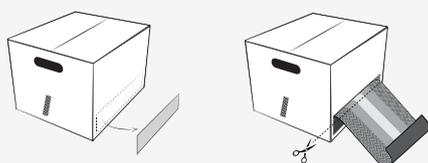


Place the tiles on the ridge and attach them with PEAK HOOK ridge fastening hooks

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
<b>NETRED310</b>	D71222	310	5	red-brick	4
<b>NETBRO310</b>	D71224	310	5	brown	4
<b>NETRED390</b> <sup>(1)</sup>	D71242	390	5	red-brick	4
<b>NETBRO390</b> <sup>(1)</sup>	D71244	390	5	brown	4
<b>NETRED39020</b>	D71262	390	20	red-brick	1
<b>NETBRO39020</b>	D71264	390	20	brown	1

BOX  
20 m VERSION



## TECHNICAL SPECIFICATIONS

property	standard	value
Air passage	DIN 4108-3	approx. 150 cm <sup>2</sup> /m
Expansion capacity (pleated strips)	-	approx. 45 %
Butyl cord thermal resistance	-	-40 / +90 °C
Application temperature	-	+5 / +40 °C
UV resistance (pleated strips)	-	permanent
Watertightness (if installed under tiles)	-	conforming
Storage temperature	-	+5 / +30 °C

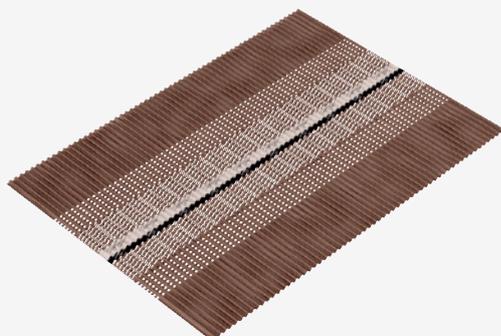
NOTE: Store the product in a dry, covered location

<sup>(1)</sup> Also available in anthracite black version, 390 mm x 5 m x 4 pcs/box  
Code: AERIUS390N

# ORION ROLL

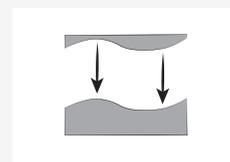
## Adjustable aluminium under-ridge

Prepainted adjustable aluminium profile with pre-bored hole and adhesive butyl cord



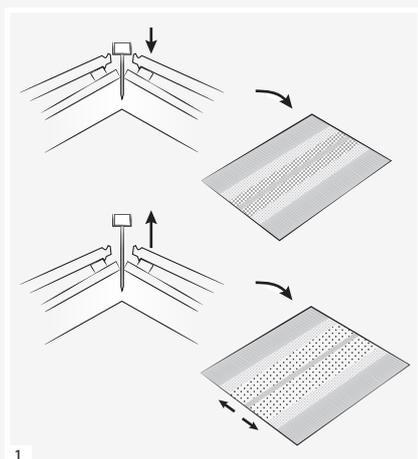
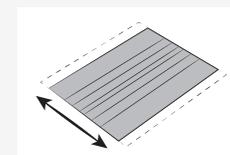
### QUALITY

Prepainted aluminium with adhesive butyl cords using a special mix, for perfect adaptability

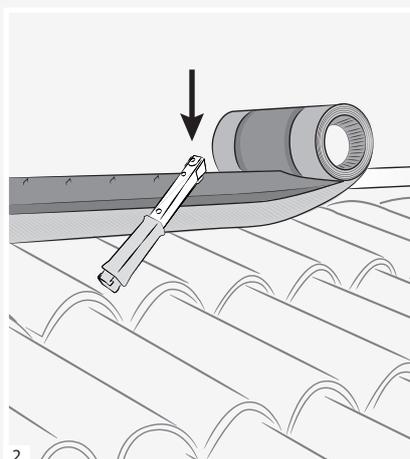


### ADJUSTABLE

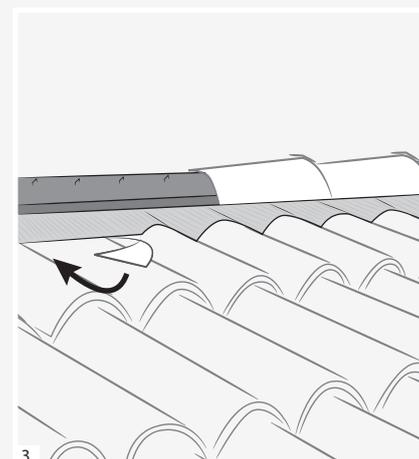
Provided with pre-bored holes, allows adjustment of ventilation based on requirements



Adjust the under-ridge based on the required height



Unroll the under-ridge on the wood batten, attach with staples every 50 - 60 cm



Remove the protective film and shape the pleated strip to the tile profile

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
<b>ORIONRED380</b>	D71362	320 - 380	5	red-brick	4
<b>ORIONBRO380</b>	D71364	320 - 380	5	brown	4

## TECHNICAL SPECIFICATIONS

property	standard	value
Air passage	DIN 4108-3	approx. 120 - 150 cm <sup>2</sup> /m
Butyl cord thermal resistance	-	-40 / +90 °C
Application temperature	-	+5 / +40 °C
UV resistance	-	permanent
Watertightness (if installed under tiles)	-	conforming
Storage temperature	-	+5 / +30 °C

NOTE: Store the product in a dry, covered location

# STANDARD ROLL

## Flexible ventilated under-ridge

Polypropylene (PP) ventilation grid and aluminium strips with bituminous adhesive



- The polypropylene fabric ensures excellent flexibility during installation and a high aeration surface
- The self-adhesive bituminous cord offers excellent adhesion on ridge tiles and tiles



### CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
<b>STANDRED390</b>	D71272	390	5	brick-red	4
<b>STANDBRO390</b>	D71274	390	5	brown	4

# PEAK HOOK

## Ridge fastening hook for flat and shaped tiles

Prepainted aluminium in two different colours



- Use dry with mechanical fastening, for fast precise installation
- Available in both brick-red and brown



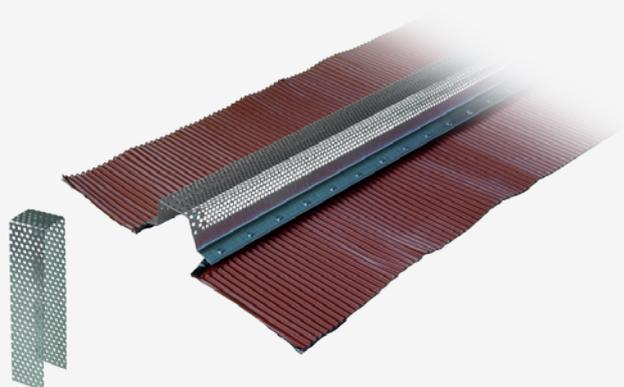
### CODES AND DIMENSIONS

code	ex code	version	L [mm]	colour	pcs/box
<b>1 PEAKHOOKRED</b>	D75922	shaped	20	brick-red	250
<b>2 PEAKHOOKBRO</b>	D75944	flat	20	brown	250

# PEAK VENT

## Rigid under-ridge kit

Galvanised sheet metal profile, prepainted aluminium and adhesive butyl cord



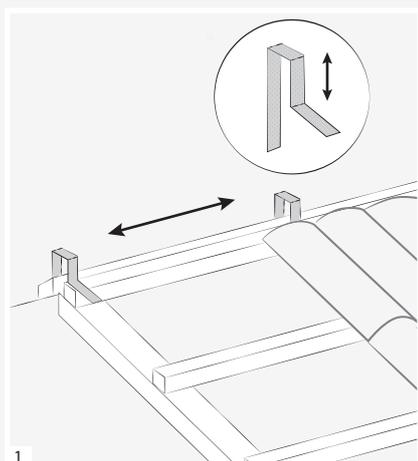
### PRACTICAL

Ready to use kit, including under-ridge, screws and adjustable brackets

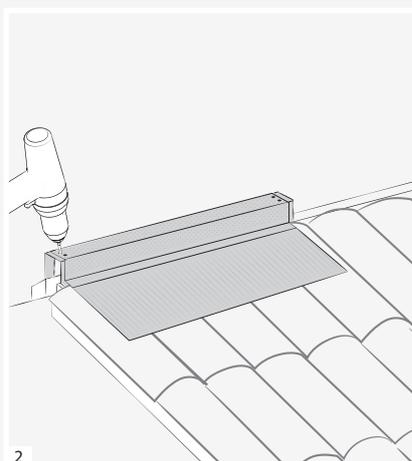


### EFFECTIVE

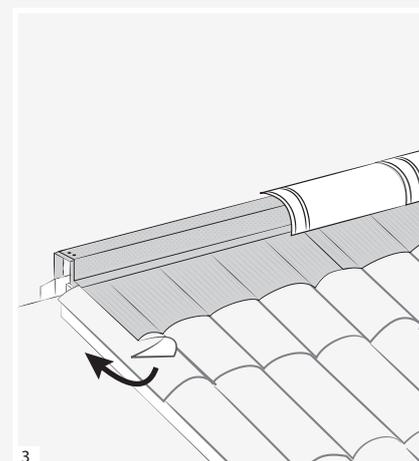
The robust sheet metal grid and pleated aluminium wings guarantee constant ventilation, stable over time



Place the first support at the start of the ridge-line and the next with a centre distance of approx. 97 cm. Place the following ones with a centre distance of 100 cm. Place the last row of tiles



Place the element over the first two supports and attach it with the screws provided in the package. Continue until the end of the under-ridge



Remove the protective film and shape the pleated strip to the tile profile. Place the tiles on the ridge and attach them with PEAK HOOK ridge fastening hooks

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
<b>PEAKVENT380</b>	D71422	380	1	red-brick	10

### PACKAGE CONTENTS:

10 x 1 m ventilation elements  
12 support brackets  
40 self-threading screws

## TECHNICAL SPECIFICATIONS

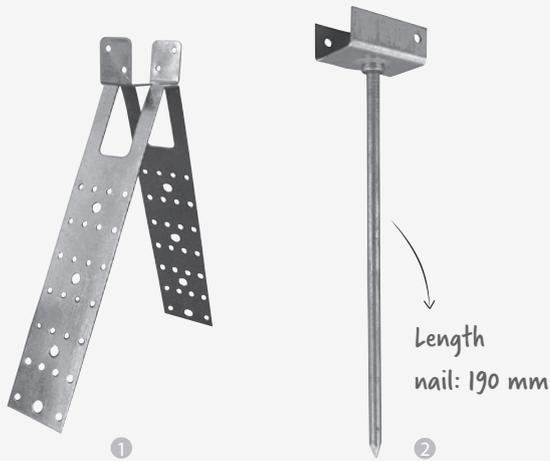
property	standard	value
Air passage	DIN 4108-3	approx. 120 cm <sup>2</sup> /m
Butyl cord thermal resistance	-	-40 / +90 °C
Application temperature	-	+5 / +40 °C
UV resistance	-	permanent
Watertightness (if installed under tiles)	-	conforming
Storage temperature	-	+5 / +30 °C

NOTE: Store the product in a dry, covered location

# SUPPORT

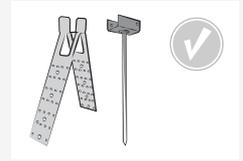
## Universal and nail batten support

Galvanised steel profile in pre-bored version or with nail pass through



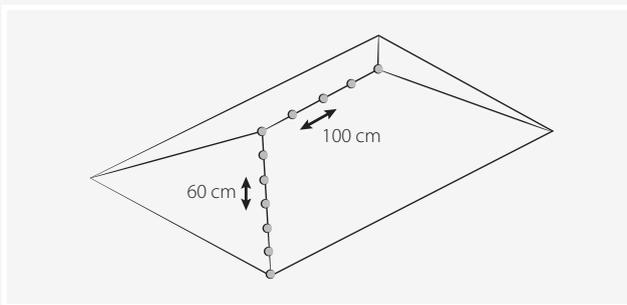
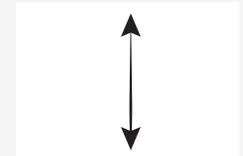
### TWO VERSIONS

With pre-drilled wings for fixing on slopes or with nails for fixing on the under-ridge

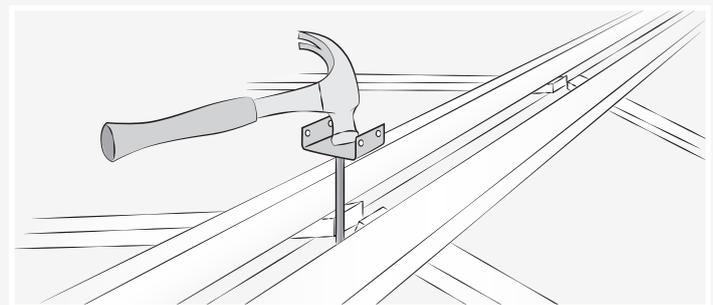


### ADJUSTABLE

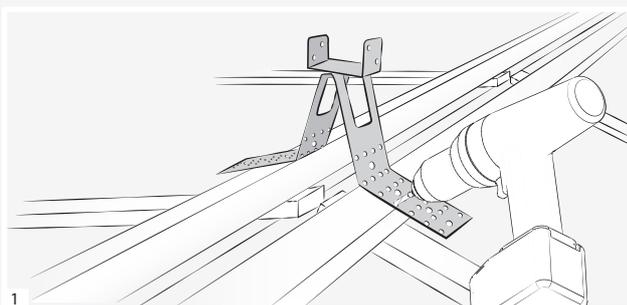
Both types allow placement to be adjusted based on package height



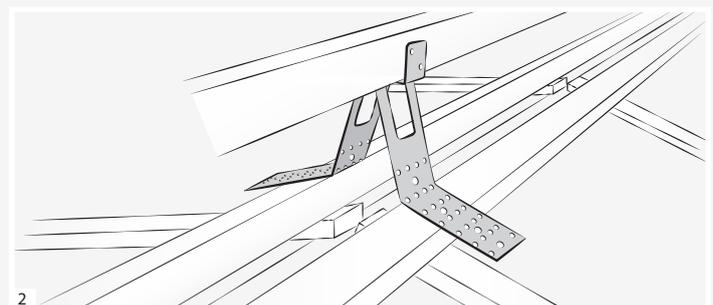
Place the batten supports every 60 cm along the ridges and every 100 cm on the under-ridge



NAIL BATTEN SUPPORT: hammer until the desired depth is reached



UNIVERSAL BATTEN SUPPORT: place the product using screws or nails along the under-ridge beams to it can be adjusted



Attach to wood batten to the batten support

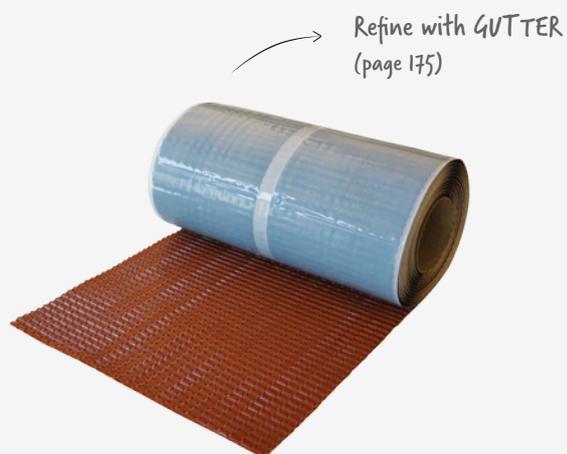
## CODES AND DIMENSIONS

	code	ex code	L <sub>batten</sub> [mm]	L [mm]	version	pcs/box
①	<b>SUPPORTUNI</b>	D71501	50	210	universal	50
②	<b>SUPPORTNAIL</b>	D71504	50	210	nail	50

# ALU RAPID

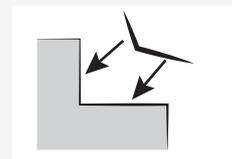
## Adhesive wall and chimney fitting

Butyl glue covered in preprinted pleated aluminium



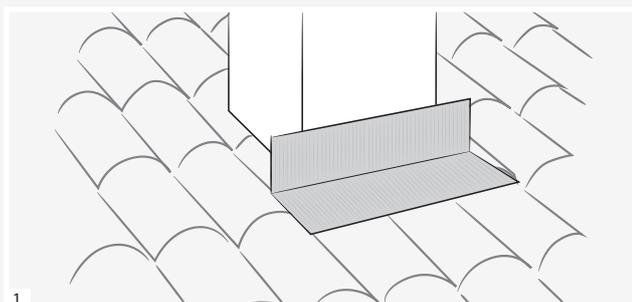
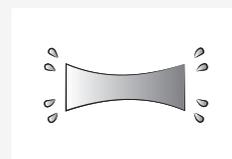
### ADJUSTABLE

The double pleating is the answer for the need for mouldability during installation

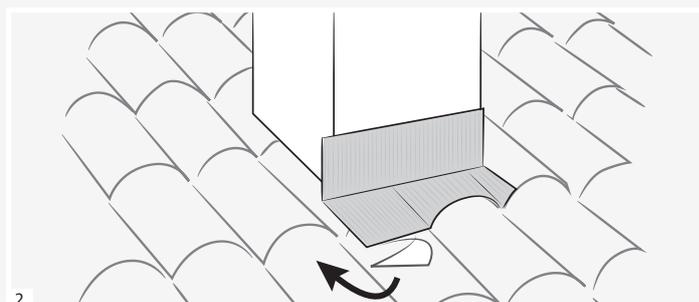


### BUTYL

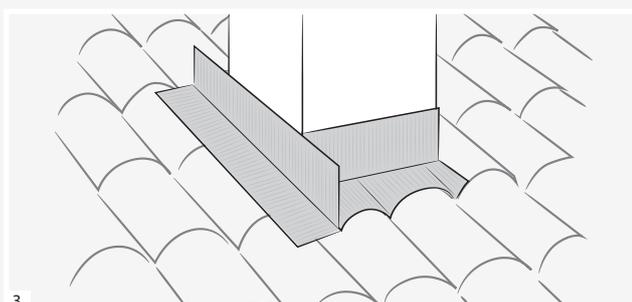
The special 1.3 mm adhesive butyl mix offers excellent adherence, even on rough surfaces



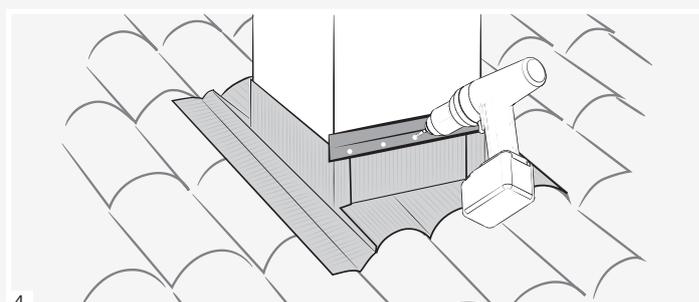
1 Cut the product, fold it on the joints of the points to be connected and press on the external sides



2 Remove the protective film and adjust the product to the shape of the roof, pressing down so it attaches well



3 Cut the product for lateral strips, fold it on the joints of the points to be connected and press on the external sides



4 Refine the upper edge with the flashing GUTTER

## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
ALURRED150	D71722	150	5	brick-red	1
ALURRED300	D71742	300	5	brick-red	1
ALURBRO300	D71744	300	5	brown	1

# VALLEY ALU

Strengthening element for valleys

Bicolour prepainted pleated sheet metal



- The pleating is specially processed to help when folding during installation
- Bicolour: aluminium element pre-painted brick red and brown



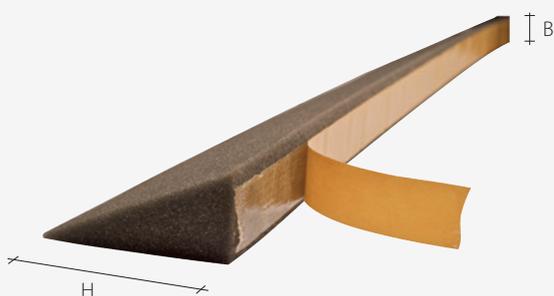
## CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
VALLEY600	D75262	600	10	brick-red / brown	2

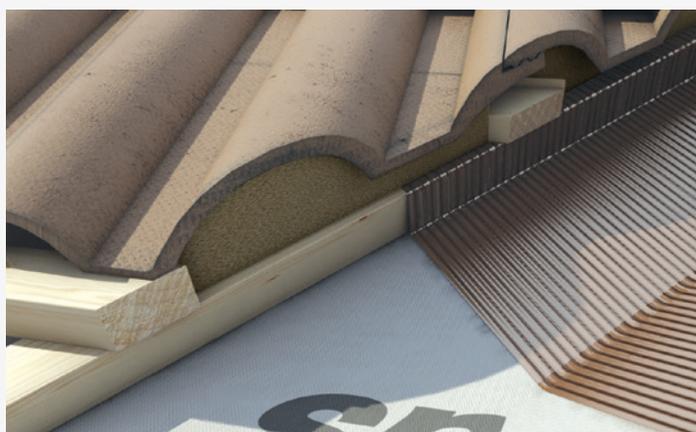
# GASKET

Gasket for valley

Polyethylene foam element with integrated adhesive band



- The adhesive band offers fast fixing on vertical wood elements
- The special polyethylene foam, stable when exposed to UV rays, prevents infiltration from water and snow



## CODES AND DIMENSIONS

code	ex code	H [mm]	B [mm]	L [m]	pcs/box
GASKET	D75268	75	35	1	140

# GUTTER

## Flashing

Prepainted bicolour aluminium sheet metal



- Ideal for sealing flashing and coating sheet metal
- Prevents infiltration, increasing the stability of adhesive materials

### CODES AND DIMENSIONS

code	ex code	B [mm]	L [m]	colour	pcs/box
<b>GUTTER</b>	D75662	74	1.5	brick red / brown	10



# SNOW STOP

## Snow stopper hook for tiles

Prepainted aluminium profile in two colours



- Available for channel, Marseille and Portuguese type tiles
- Stable mechanical fixing prevents accumulated snow falls
- The placement and number of hooks depends on national standards, altitude, weather zone and roof pitch

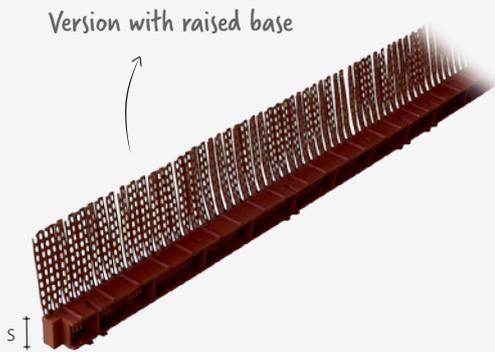
### CODES AND DIMENSIONS

code	ex code	L [mm]	type of roof-tile	colour	pcs/box
① <b>SNOWRED1</b>	D75822	280	attach	red-brick	40
① <b>SNOWBRO1</b>	D75824	280	attach	brown	40
② <b>SNOWRED2</b>	D75842	280	portuguese	red-brick	40
② <b>SNOWBRO2</b>	D75844	280	portuguese	brown	40



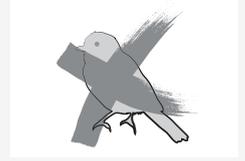
# BIRD COMB EVO

Twin row bird screens with support  
UV stable PP profile



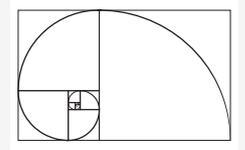
## EFFECTIVE

Advanced bird screen with twin row of perforated teeth to guarantee the maximum passage of air and secure protection against the entrance of birds



## VERSATILE

Also available in the version with raised base to increase the support thickness of the last row of tiles, aligning it with the slope of the roof



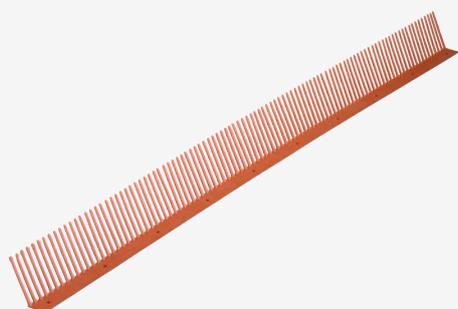
## CODES AND DIMENSIONS

code	ex code	H [mm]	L [m]	s [mm]	colour	pcs/box
<b>BIRDERED70</b>	D73222	70	1	-	red-brick	100
<b>BIRDEBRO70</b>	D73224	70	1	-	brown	100
<b>BIRDERED110</b>	D73242	110	1	-	red-brick	60
<b>BIRDEBRO110</b>	D73244	110	1	-	brown	60
<b>BIRDERED7025</b>	D73322	70	1	2.5	red-brick	35
<b>BIRDERED11025</b>	D73342	110	1	2.5	red-brick	25

# BIRD COMB

Standard bird screens

UV stable PP element



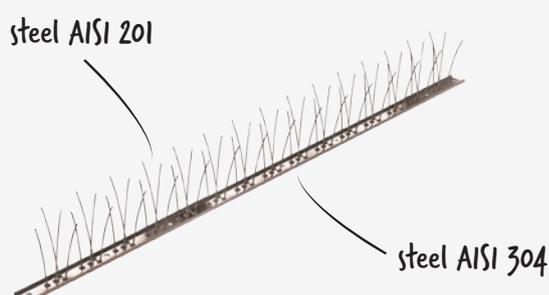
- Bird screen available in two colours, with perforated teeth for improved ventilation
- Adheres perfectly to the rounded shape of the tiles

code	ex code	H [mm]	L [m]	colour	pcs/box
<b>BIRDRED60</b>	D73422	60	1	brick-red	200
<b>BIRDBRO60</b>	D73424	60	1	brown	200
<b>BIRDRED100</b>	D73442	100	1	brick-red	300
<b>BIRDBRO100</b>	D73444	100	1	brown	300

# BIRD SPIKE

Rigid bird spike

AISI 304 stainless steel base and AISI 201 points



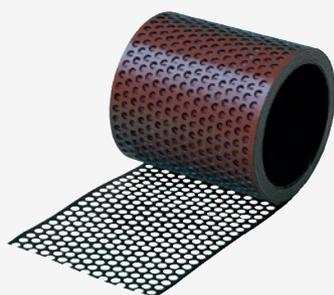
- The 54 pins placed along 3 rows prevents birds from landing on sills, cornices and gutters
- Made entirely of stainless steel and highly resistant to bad weather

code	ex code	H [mm]	L [m]	pcs/box
<b>BIRDSPIKE</b>	D75228	100	1	25

# VENT MESH

Flexible ventilation grid

Prepainted aluminium profile in two colours



- Element for protection of ventilation layer, prevents the entry of birds and insects
- Bicolour and available in various heights, adjusts to various package types

code	ex code	H [mm]	L [m]	colour	pcs/box
<b>VENT80</b>	D73602	80	5	brick red / brown	1
<b>VENT100</b>	D73612	100	25	copper / brown	1
<b>VENT120</b>	D73604	120	5	brick red / brown	1
<b>VENT160</b>	D73606	160	25	brick red / brown	1

# THERMOWASHER

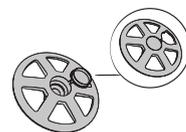
Washer to fasten insulation to wood

Propylene (PP) system



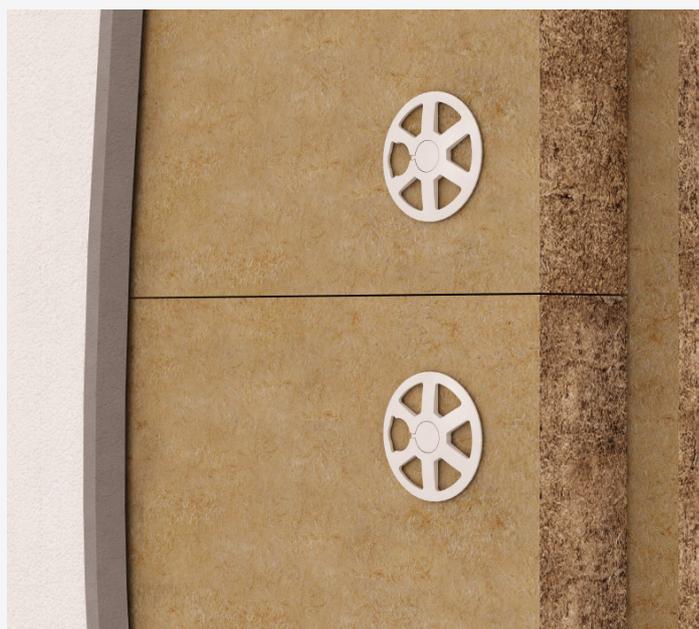
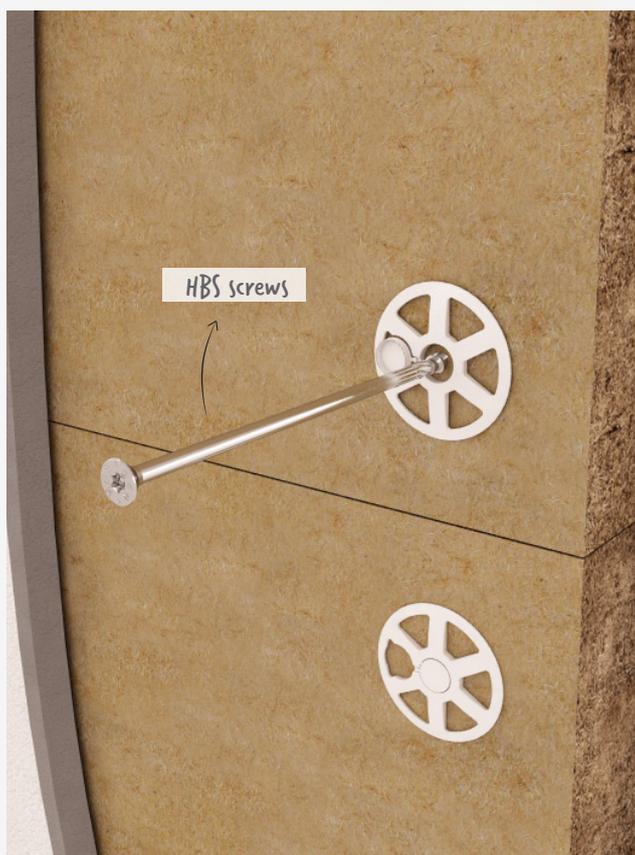
## ANTI-THERMAL BRIDGE

Incorporated hole cover to avoid thermal bridges. Large cable spaces for proper plaster adhesion



## SECURITY

Includes a system that impedes the unthreading of the screw; used with rothoblaas HBS screws with the CE mark



### CE FASTENING WITH HBS SCREWS

The THERMOWASHER is intended for use with screws with the CE mark in accordance with ETA. Ideal for Ø6 or Ø8 HBS screws, with lengths based on the thickness of the insulation to be fastened. Recommended measures range from HBS 6x140 to HBS 8x500 mm (code **HBS6140** - **HBS8500**)

### UNIVERSAL FASTENING

Ideal for creating continuous connections between XLAM (Cross Laminated Timber) panels and platform frames to the reinforced concrete foundation

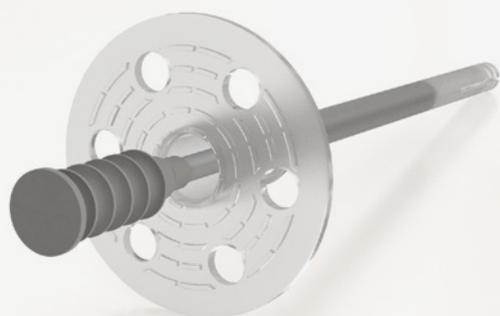
## CODES AND DIMENSIONS

code	ex code	d <sub>SCREW</sub> [mm]	a x b x c [mm]	pcs/box
<b>THERM065</b>	D78202	6 and 8	65 x 4 x 20	700

# ISULFIX

Anchor for fastening insulation to brickwork

PVC system with carbon steel nail



## DOUBLE EXPANSION

Ø8 PVC double expansion anchor with preassembled steel nails, for fastening to concrete and brickwork



## CE MARKING

Anchor with the CE mark, in accordance with ETA, with certified resistance values



## CODES AND DIMENSIONS

code	ex code	L [mm]	d <sub>HOLE</sub> [mm]	d <sub>HEAD</sub> [mm]	A [mm]	pcs/box
<b>ISULFIX8110</b>	D78404	110			80	250
<b>ISULFIX8150</b>	D78406	150	8	60	120	150
<b>ISULFIX8190</b>	D78408	190			160	100

code	ex code	d <sub>HEAD</sub> [mm]	description	pcs/box
<b>ISULFIX90</b>	D78414	90	additional washer for soft insulation	250

## ■ ■ RAPID FASTENING

Double expansion with preassembled steel nails allows for fast versatile fastening on concrete and brickwork

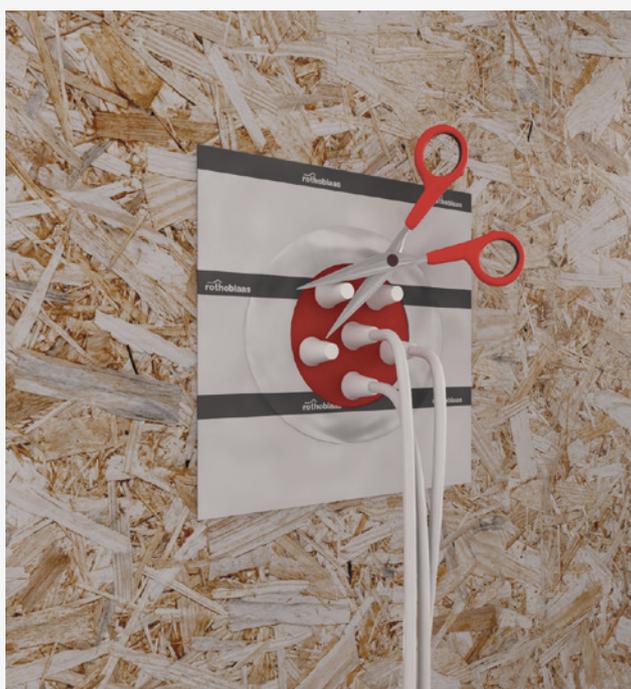
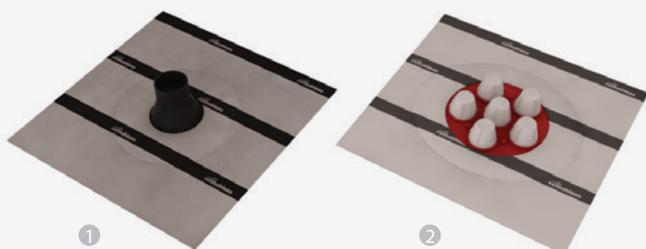
## ■ ■ VERSATILE FASTENING

Anchor available in various measurements for different insulation thicknesses; can be used with an additional ISULFIX90 washer for use with soft insulation; method of use and certified laying possibilities indicated in the relative ETA document

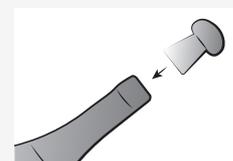
# MANICA

Sealing sleeve for conduit and cable passage

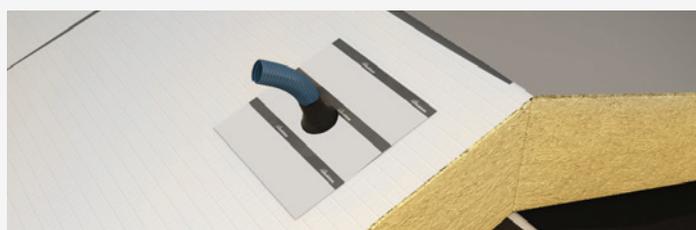
Paper support impregnated with acrylic glue and EPDM gasket



**HERMETIC**  
Ensures airtightness and watertightness for cables and other pass through elements



**PRACTICAL**  
The self-adhesive support ensures fast installation, reducing the taping time traditional systems require



## TECHNICAL SPECIFICATIONS

property	standard	value
Dilation strength	-	4.5 kN/m
Tear strength	DIN EN 14410	> 150 N/25 mm
Adhesiveness	DIN EN 1939	> 35 N/25 mm
Temperature resistance	-	-20 / +100 °C
Application temperature	-	> -5 °C
UV resistance	-	4 months
Watertightness	-	conforming
Storage temperature	-	+5 / +25 °C
Solvents	-	NO
VOC emissions	-	0 % (class A+)

NOTE: Store the product in a dry, covered location

## CODES AND DIMENSIONS

code	ex code	Ø [mm]	glue support [mm]	pcs/box
① MANSINGLE1	D66221	4 - 8	150 x 150	10
① MANSINGLE2	D66222	8 - 12	150 x 150	10
① MANSINGLE3	D66223	15 - 22	150 x 150	10
① MANSINGLE4	D66224	25 - 32	150 x 150	10
① MANSINGLE5	D66225	42 - 55	230 x 230	4
① MANSINGLE6	D66226	75 - 90	230 x 230	4
② MANMULTI1	D66252	6 x 16 - 25	320 x 320	4

## COMPOSITION

**glue:** acrylate dispersion without solvents

**support:** impregnated paper

**separation layer:** silicone paper

**gasket:** EPDM

# MANICA PLASTER

Sealing sleeve that can be plastered

Adhesive butyl with polypropylene (PP) fabric coating and EPDM union



- Self-adhesive butyl allows application on wood and porous surfaces
- Allows sealing of cables and other pass-through elements under plaster



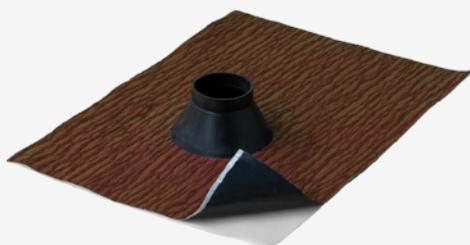
## CODES AND DIMENSIONS

code	ex code	Ø [mm]	glue support [mm]	pcs/box
<b>MANPLASTER1</b>	D66352	100 - 125	350 x 350	4

# MANICA POST

Sealing sleeve for external use

Adhesive butyl with aluminium coating and EPDM union



- Aluminium coating guarantees long-term UV stability
- The butyl adhesive mix offers high adhesiveness on tiles and sheet metal roofs



## CODES AND DIMENSIONS

code	ex code	Ø [mm]	glue support [mm]	colour	pcs/box
<b>MANPOST1</b>	D66423	25 - 32	300 x 200	■	5
<b>MANPOST2</b>	D66424	42 - 55	300 x 200	■	5
<b>MANPOST3</b>	D66435	42 - 55	230 x 230	■	4

# TUBE STOPPER

Plugs for cable sealing in various sizes

Thermoplastic elastomer that can be drilled and deformed



- The special elastomeric composition allows drilling of the plug for cable to pass through, while preserving the hermetic seal
- Fast and easy installation, does not require additional equipment



## CODES AND DIMENSIONS

code	ex code	Ø [mm]	PG	M	pcs/box
<b>TUBESTOP20</b>	D66622	20	11	20	20
<b>TUBESTOP25</b>	D66623	25	16	25	20
<b>TUBESTOP32</b>	D66624	32	21	32	20

# ALPHA

Preshaped profile for sealing corners

Deformable low-density polyethylene



- Double version, for internal or external corners, both on walls and on roofs
- Ideal to strengthen edges or critical points, increasing membrane resistance



## CODES AND DIMENSIONS

	code	ex code	version	B [mm]	L [mm]	H [mm]	pcs/box
①	<b>ALPHAOUT</b>	D67452	outside	180	180	100	10
②	<b>ALPHAIN</b>	D67454	inside	160	100	100	10

# CUTTER

Professional cutter



- Thanks to the soft support, it is even easier to use the thumb to generate maximum pressure
- With blade stop lever. This mechanism makes it fast and easy to replace blades

code	description	pcs/box
<b>CUTTER</b>	cutter with 5 spare blades	1
<b>CUT60</b>	spare blades	10

# CUTTER SET

Professional set



- Practical nylon case with zip closure
- Includes: 1 cutter, 10 trapezoid blades, 5 hook blades, 2 linoleum blades, 2 precision blades.

code	description	pcs/box
<b>CUTSET</b>	cutter in nylon case	1

# MARLIN

Stainless-steel cutter



- Extremely robust - 100% rust proof - spare blade compartment not included
- Provided with triple edge blade

code	description	pcs/box
<b>MARLIN</b>	stainless-steel cutter	1
<b>MARBLA</b>	spare blades	10

# BRUSH

Brushes and rollers



- Light and manoeuvrable
- High durability

code	measure [mm]	pcs/box
① BRS560	5 x 60	1
② BRS414	40 x 140	1
③ BRS625	Ø60 x 250	1

# ROLLER

Pressure rollers



- For perfect installation of tapes, membranes and airtightness systems
- PU version for hot chemical installation

code	description	L [mm]	pcs/box
① RLL40	silicone roller	40	1
② RLL45	PU roller	45	1

# STAPLER HAMMER

Hand staplers



- To attach membranes on the roof
- High durability thanks to resistant materials

code	staple type / L [mm]	pcs/box
① HH735347	L / 6 - 10	1
② HH735322	L / 8 - 14	1

# ISULGUN

Pneumatic stapler for insulation with precision adjuster

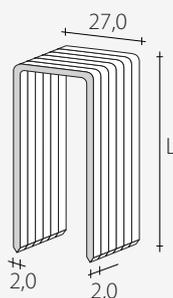


- Ideal for attaching insulation and multilayer panels
- Single trigger, for improved safety

code	d <sub>staple</sub> [mm]	weight [kg]	pcs/box
RTKBS130A	65 - 130	5.8	1
RTKBS160A	65 - 160	6.2	1

# ISULCLIP

A2 stainless steel and galvanised steel insulation staples

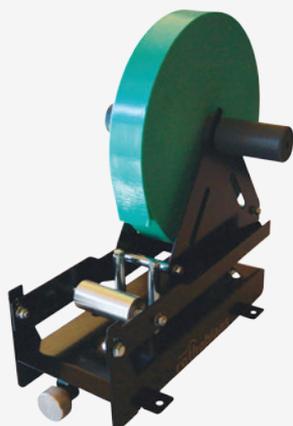


- 2.0 mm wire, for attaching insulation panels
- A2 version for external layer, under plaster

code	product type	L [mm]	pcs/box	pcs/ 
HH10005226	GALV	100	1,600	76,800
HH10004901	GALV	110	2,850	128,250
HH10005227	GALV	130	1,280	61,440
HH10005274	A2	110	2,850	128,250
HH10005276	A2	130	1,420	136,320
HH20005277	A2	150	960	46,080

# LIZARD

Unwinder for nail point sealing tape



- For tapes from 50 mm to 80 mm and battens from 40 x 40 mm to 80 x 80 mm
- For fast application of tape to battens, reducing cost

code	description	pcs/box
LIZARD	unwinder	1

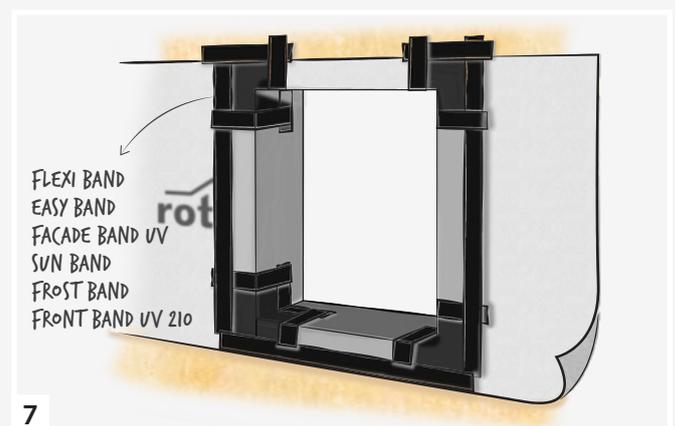
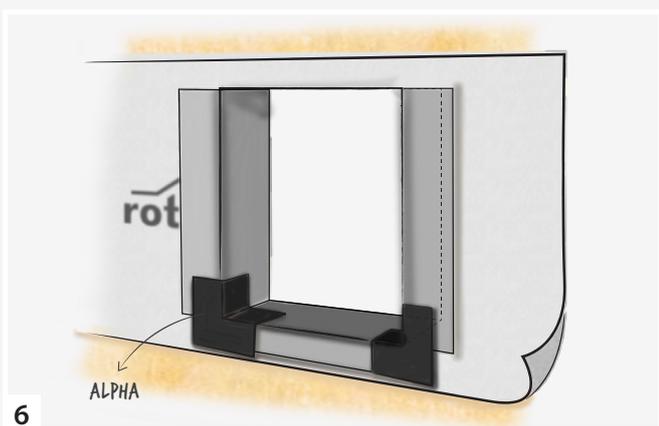
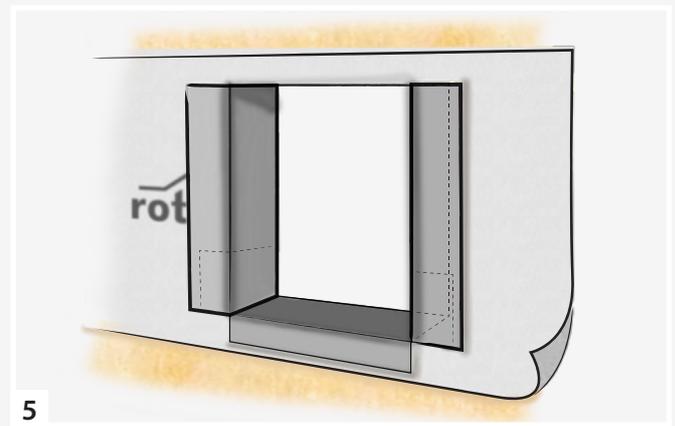
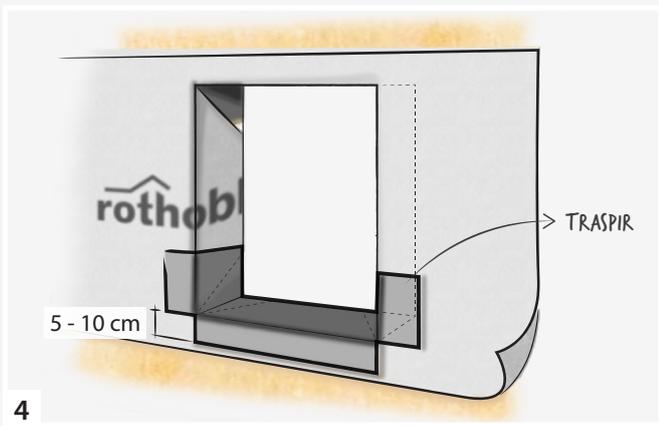
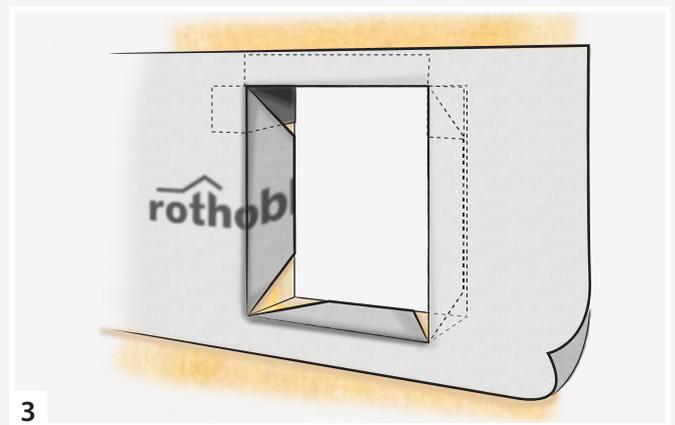
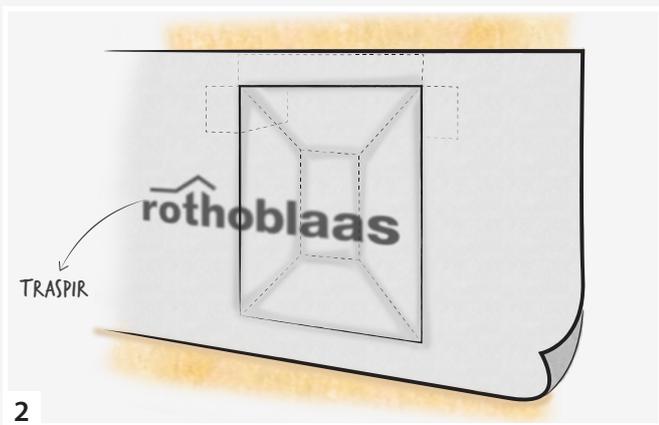
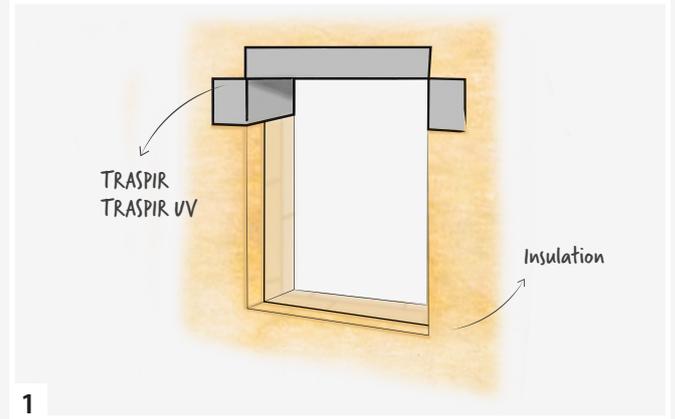
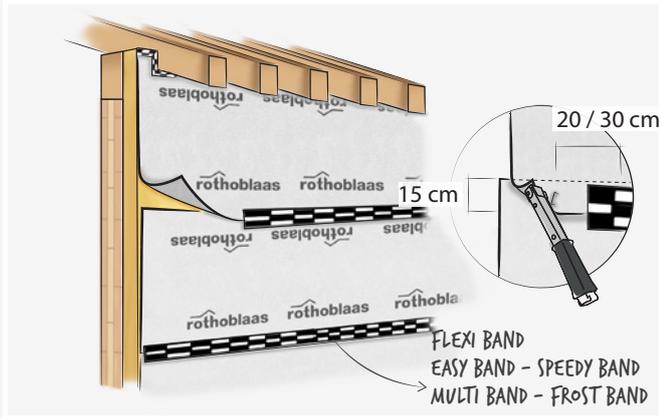
# INSTALLATION INSTRUCTIONS



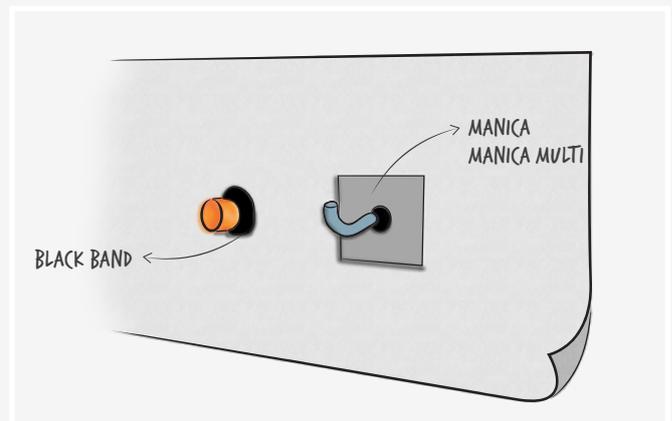
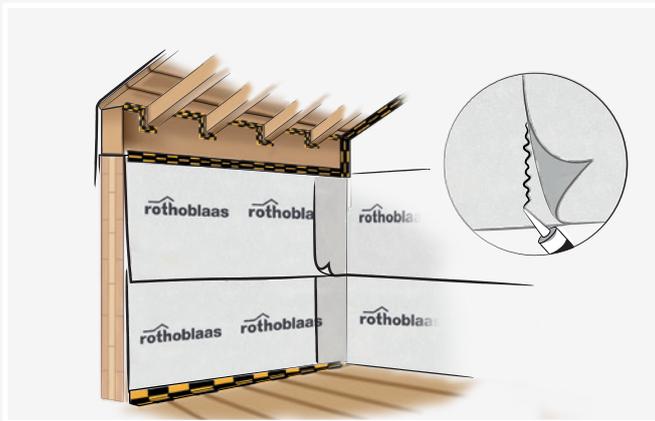
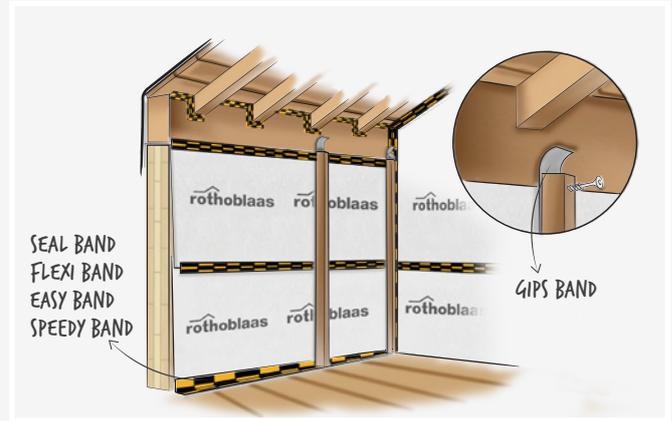
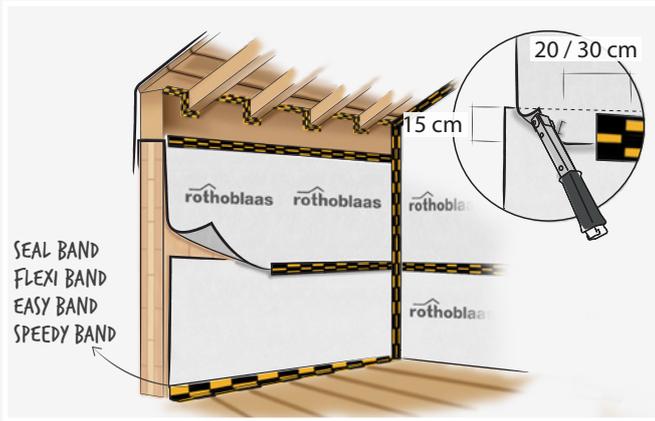
## INSTALLATION INSTRUCTIONS

EXTERNAL WALLS	187
INTERNAL WALLS	188
INTERNAL ROOF	190
EXTERNAL ROOF	192
VALLEYS AND RIDGES	194
WINDOW SEALING FROM ROOF	196
CHIMNEY SEALING	200
SYSTEMS SEALING	203
SIMPLE ROOF	204
DOUBLE ROOF	206
LATERAL CLOSURES	208
BEAM OVERLAPPING	209

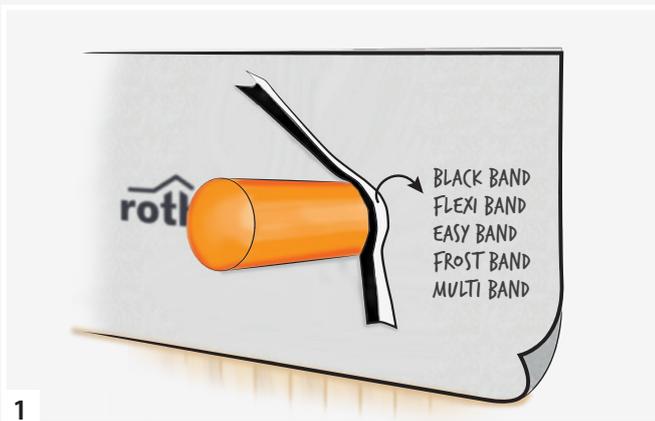
EXTERNAL WALLS - INSTALLATION OF TRASPIR AND WINDOW SEALING



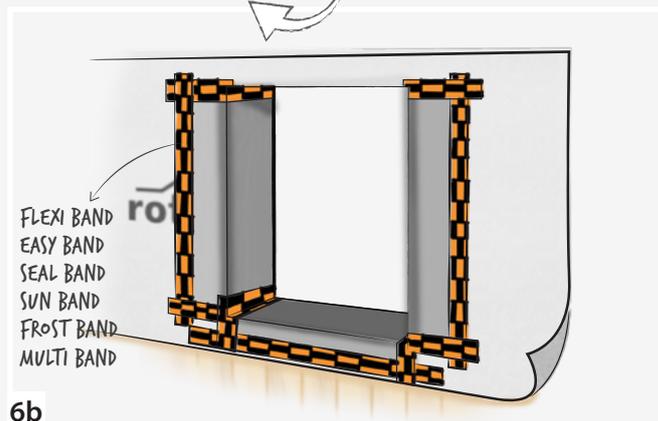
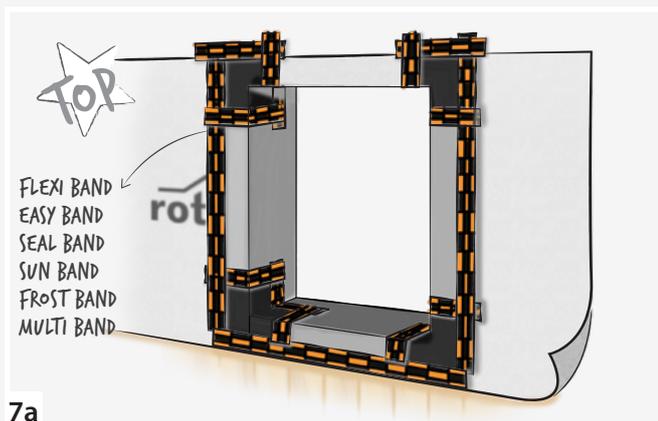
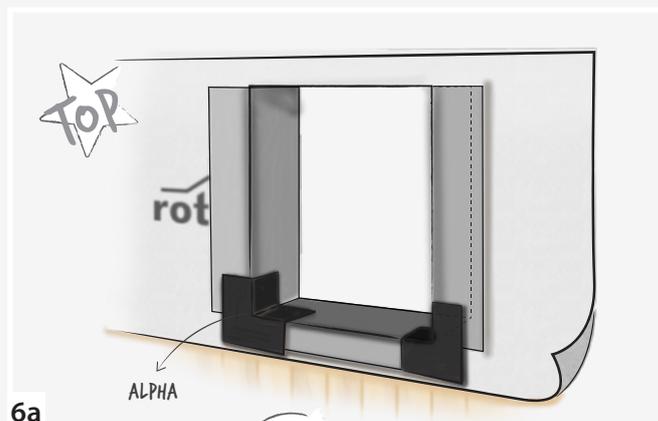
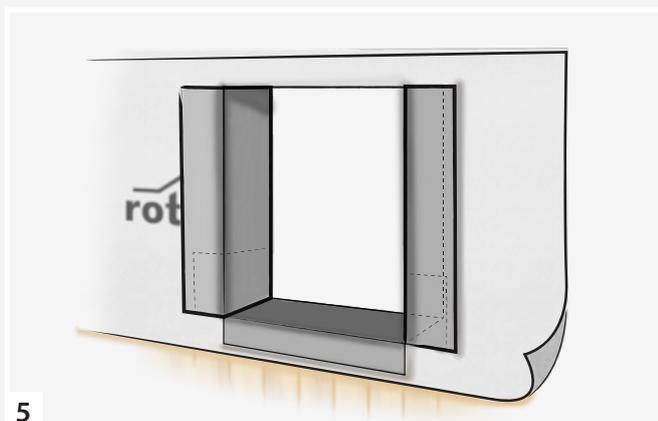
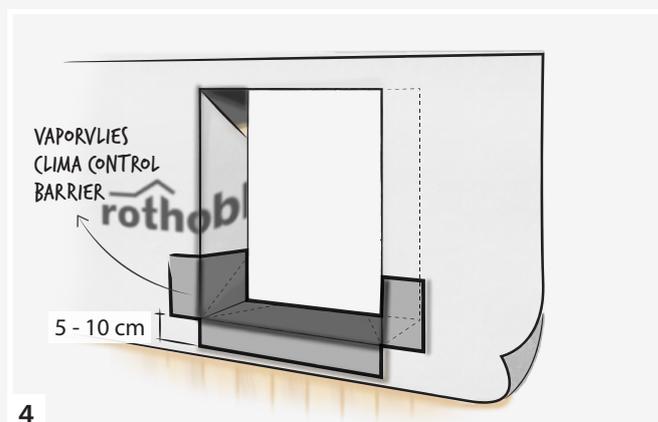
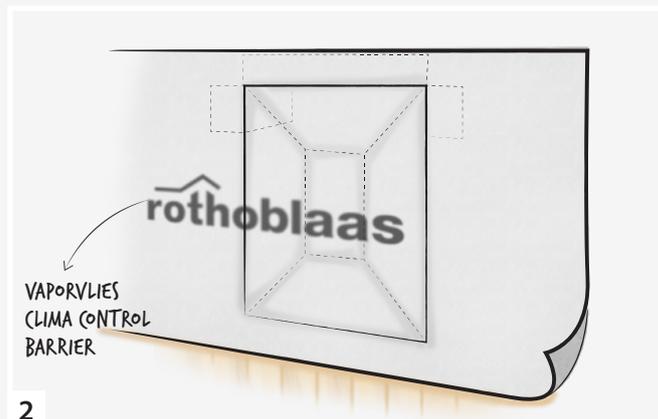
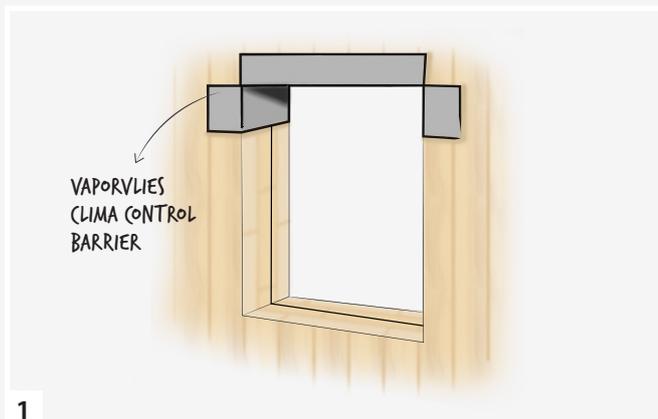
INTERNAL WALLS - INSTALLATION OF VAPORVLIES, CLIMA CONTROL AND BARRIER



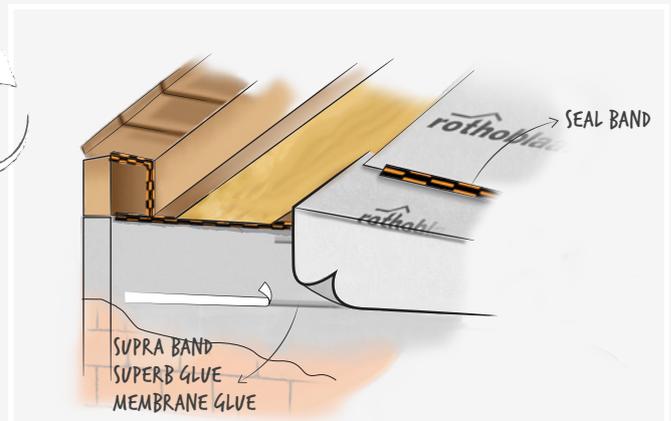
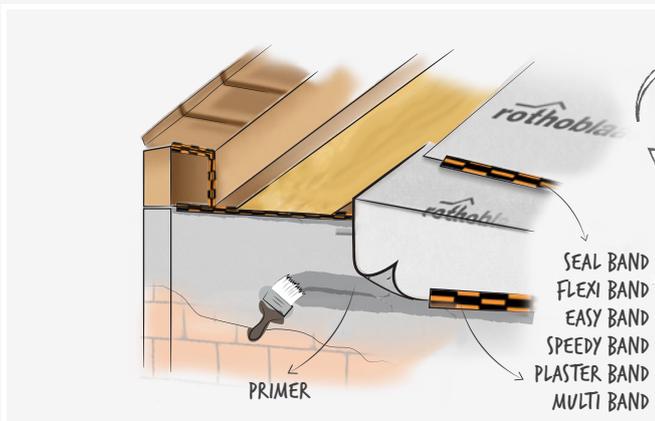
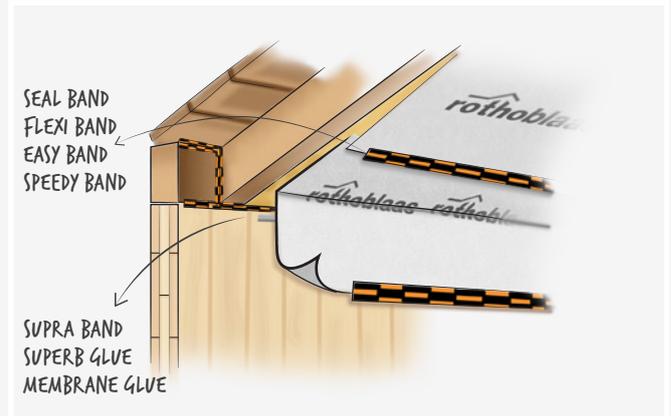
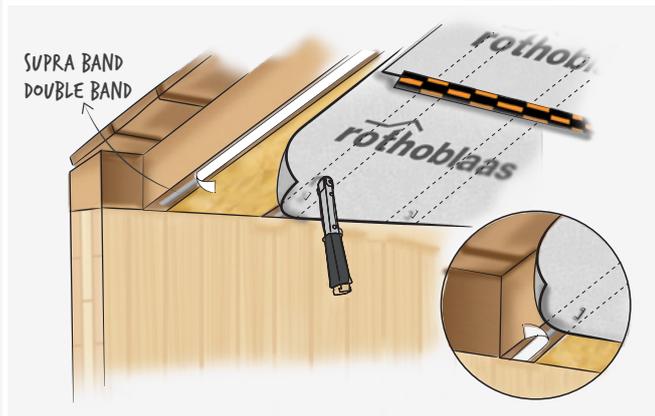
INTERNAL WALLS - SYSTEM PASSAGE SEALING



INTERNAL WALLS - WINDOW SEALING



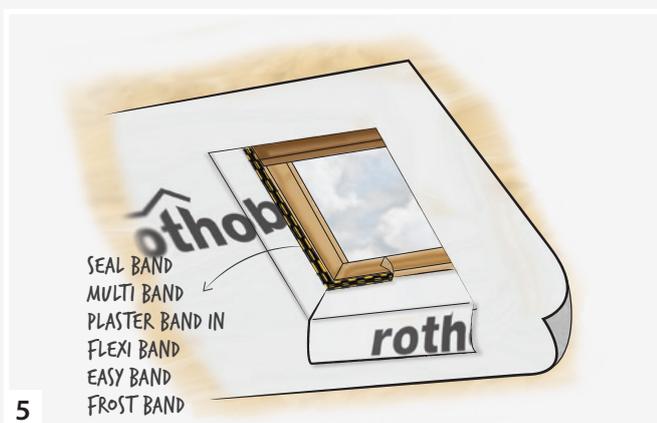
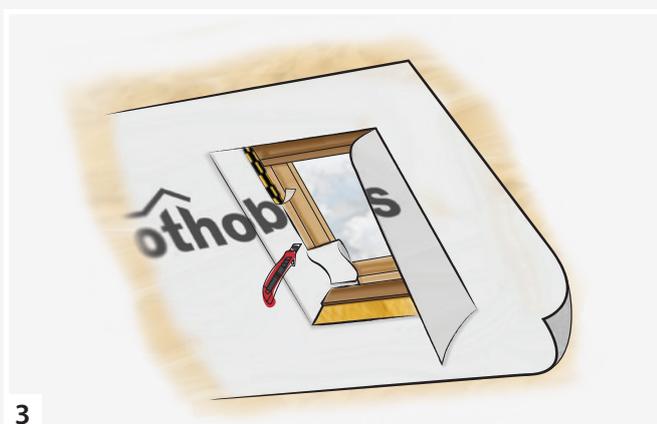
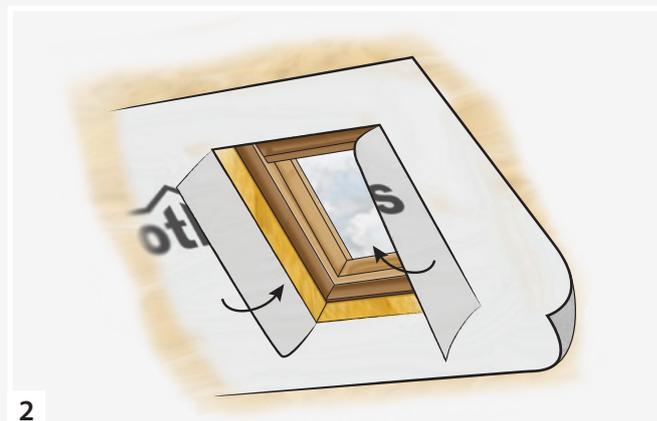
**INTERNAL ROOF - INSTALLATION OF VAPORVLIES, CLIMA CONTROL AND BARRIER**



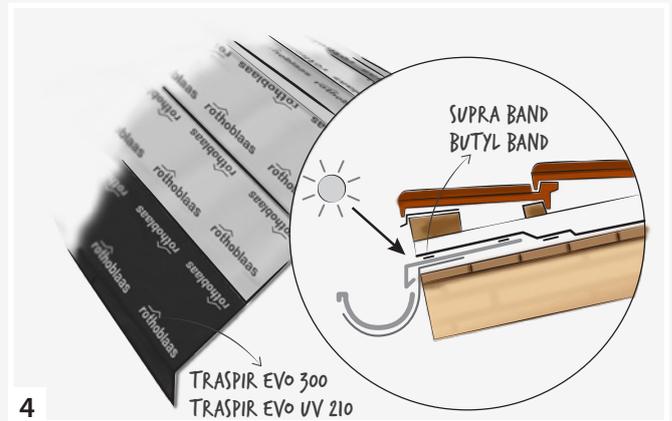
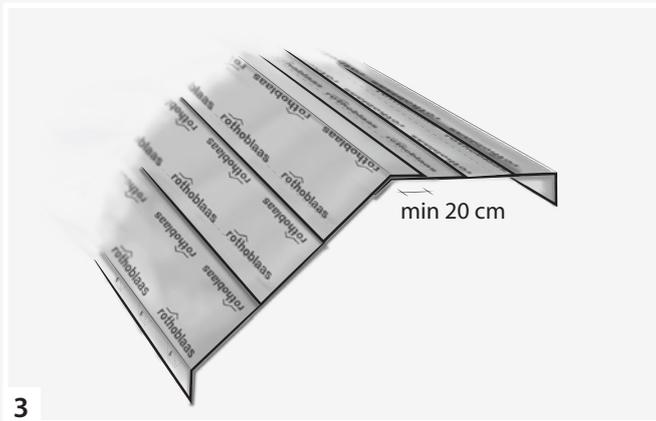
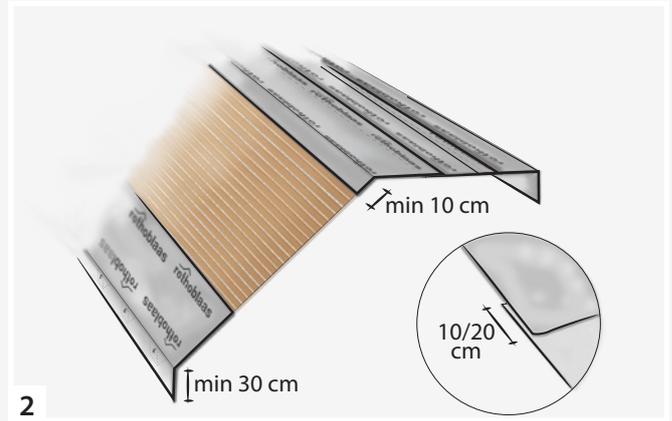
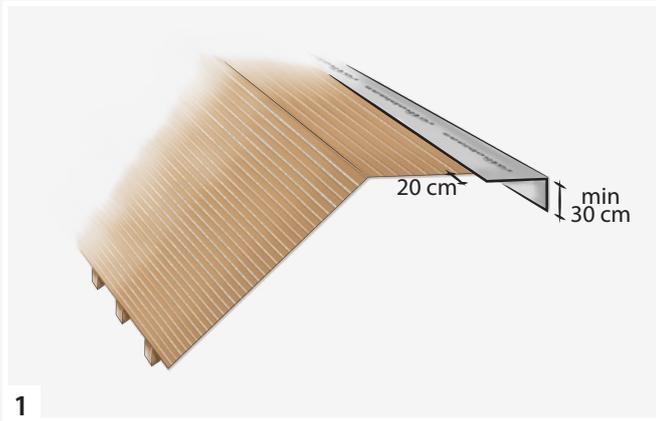
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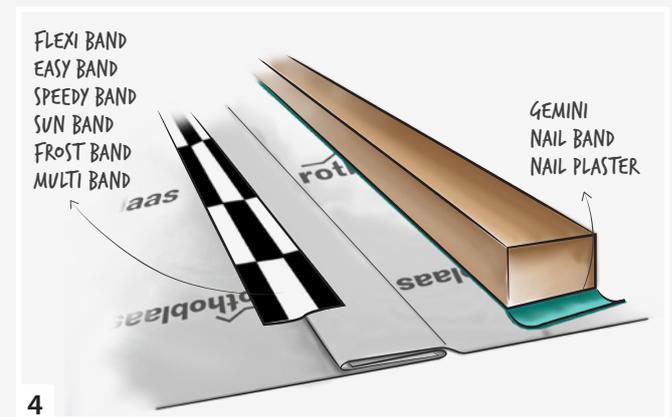
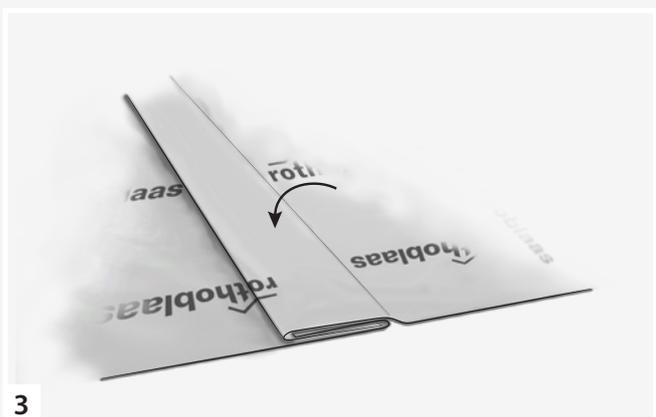
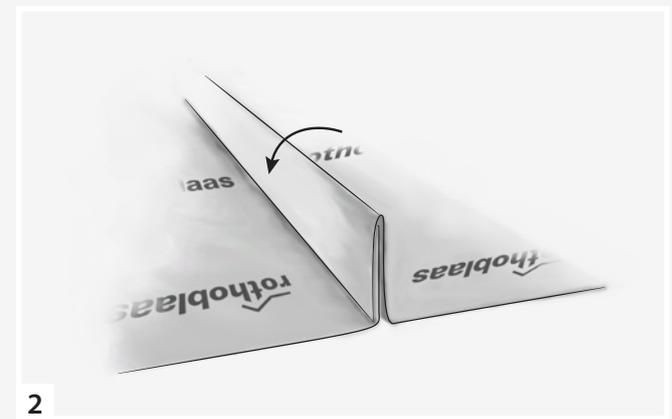
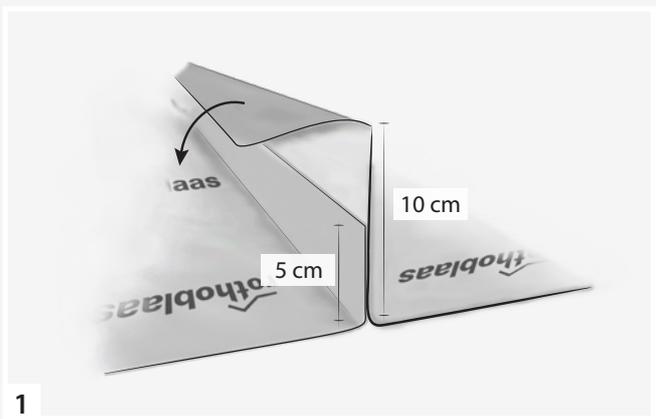
INTERNAL ROOF - WINDOW SEALING



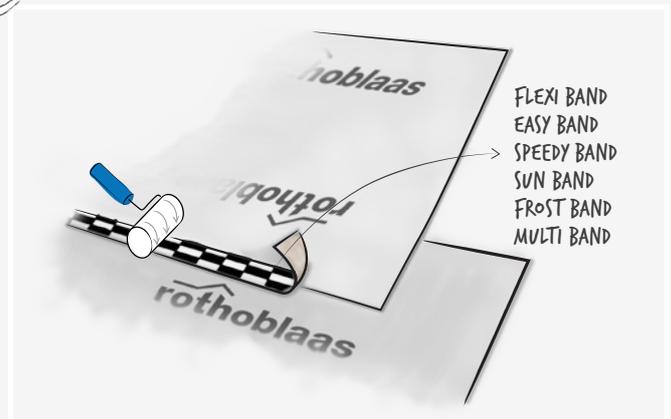
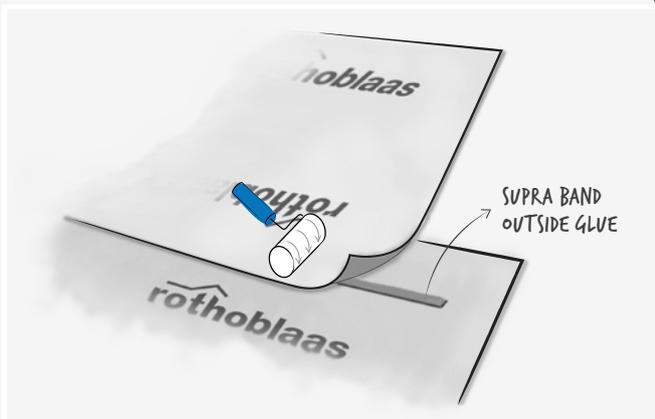
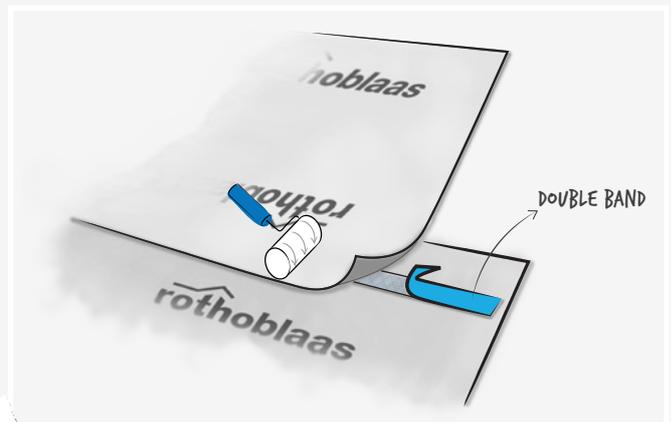
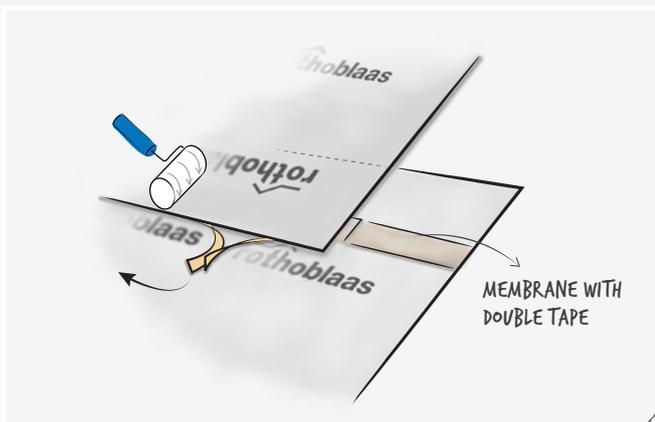
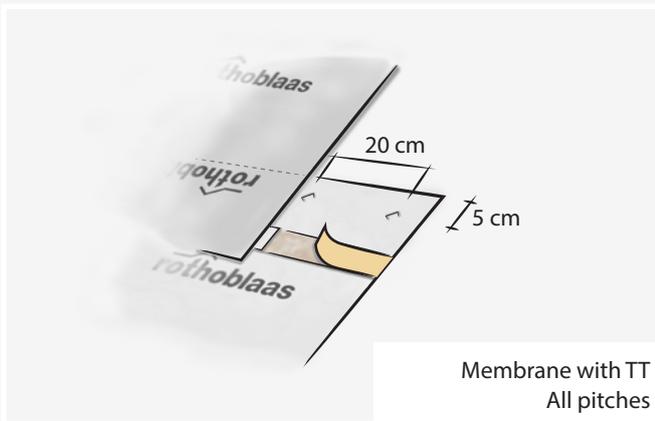
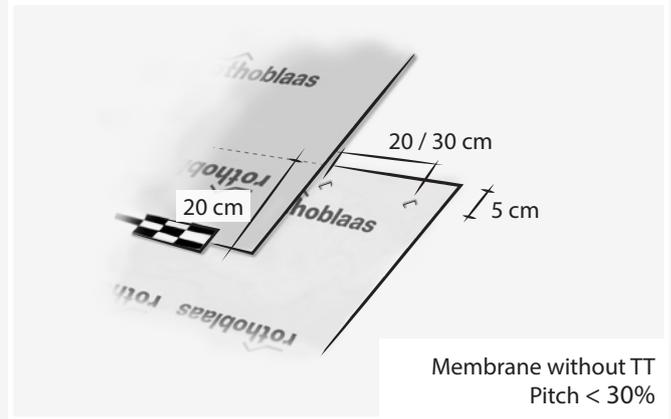
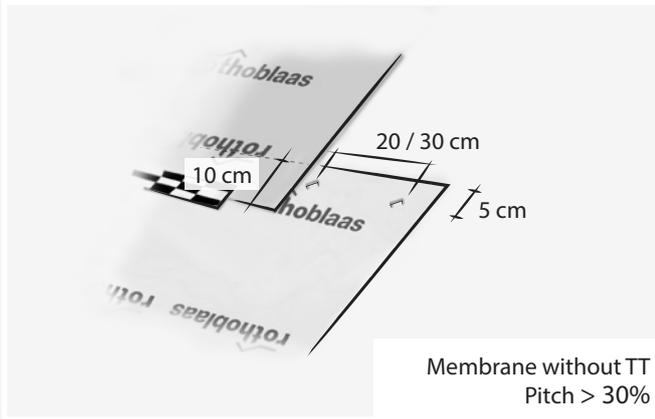
**EXTERNAL ROOF - MEMBRANE OVERLAPPING AND INSTALLATION**



**EXTERNAL ROOF - TRANSVERSAL HEAD OVERLAPPING SEALING**



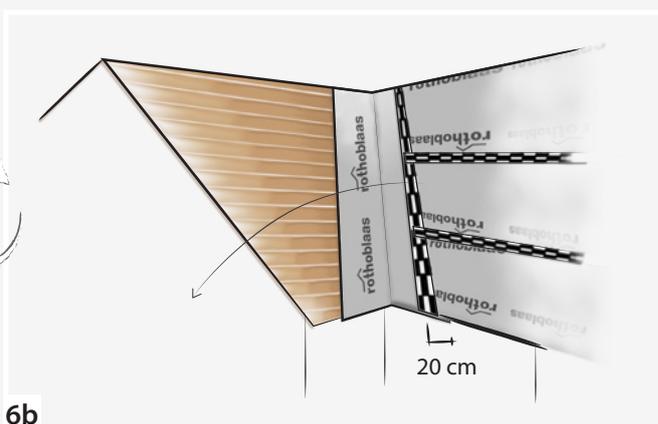
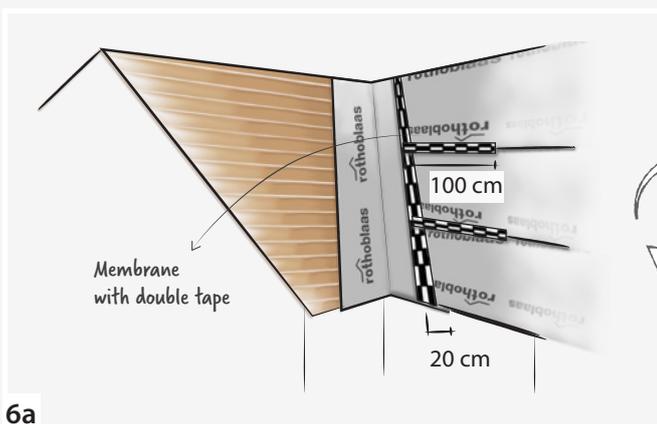
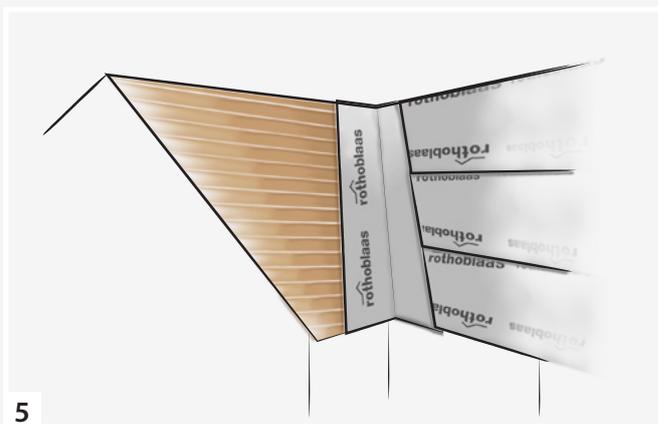
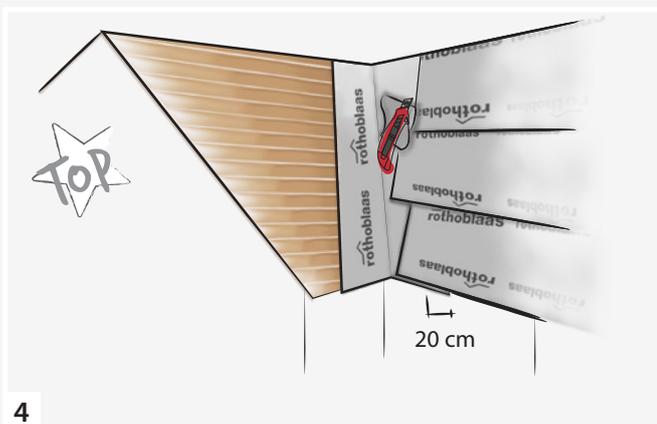
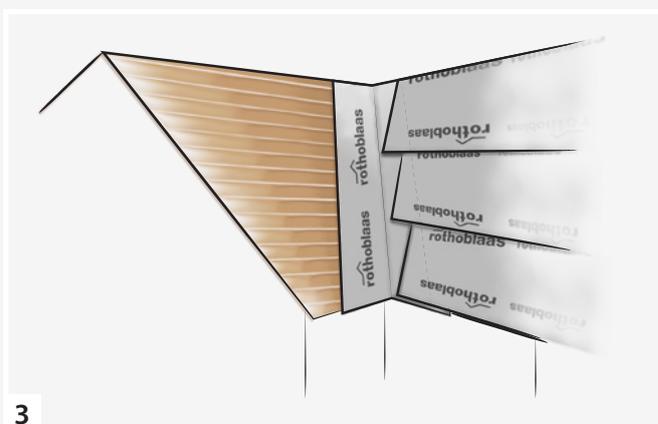
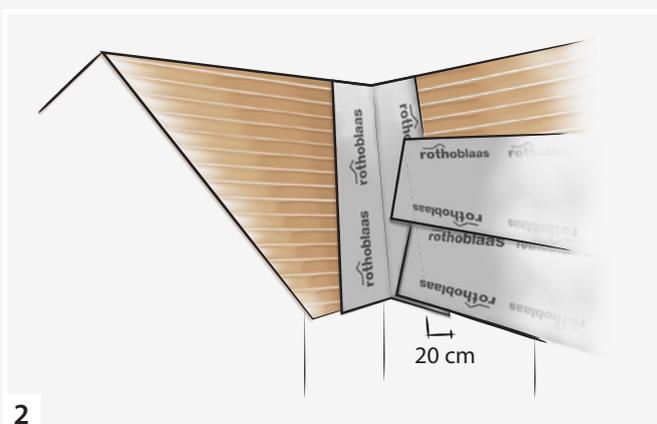
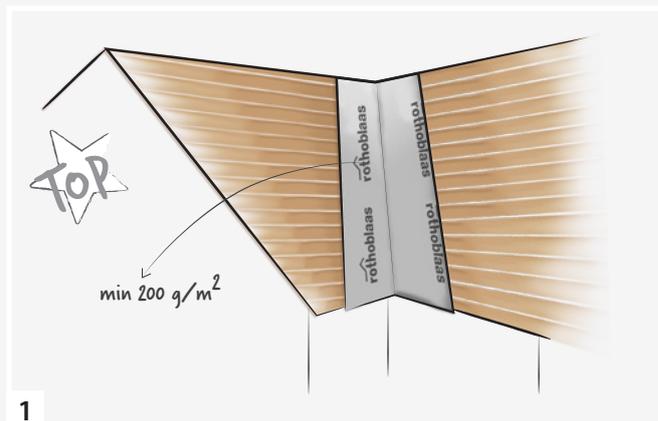
EXTERNAL ROOF - GENERAL METHODS FOR LONGITUDINAL SEALING



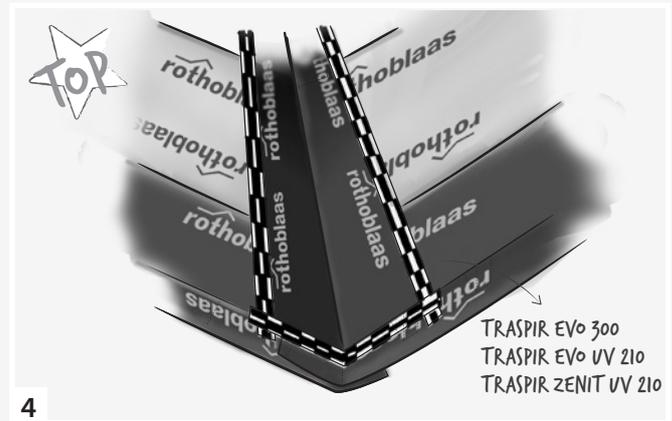
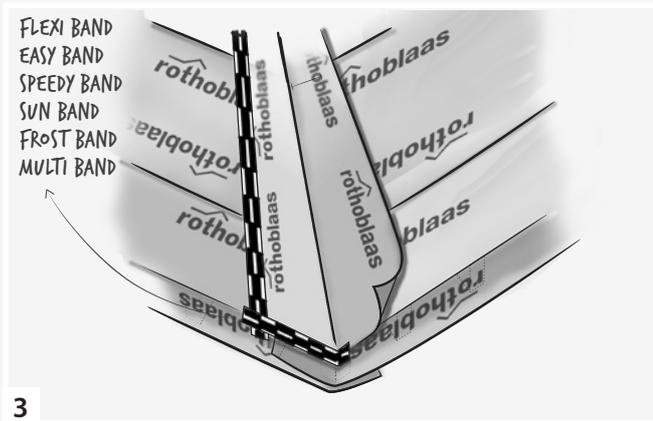
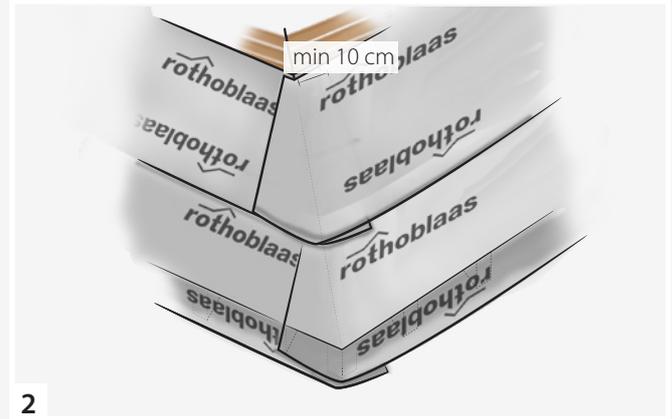
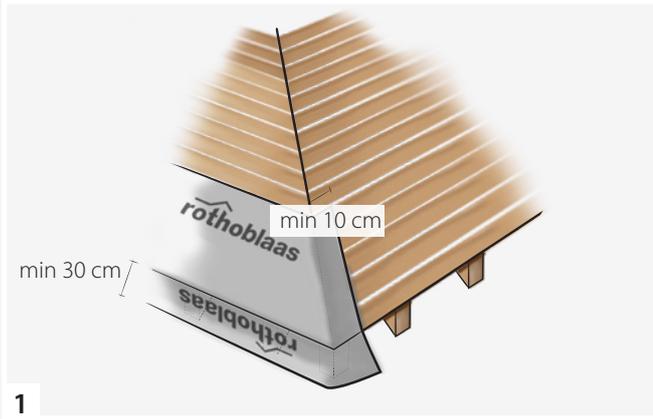
## VALLEYS - OVERLAPPING VAPOR MEMBRANES, CLIMA CONTROL OR TRASPIR

In the valley area, given the heavy concentration of rainwater flows, we recommend using a membrane with mass per unit area that exceeds  $200 \text{ gr/m}^2$ , in order to guarantee excellent security and protection over time.

We also recommend overlapping the membranes, always starting from the gutter line and moving towards the under-ridge profile, continuing to overlap and using the sealing methods outlined in the previous pages.

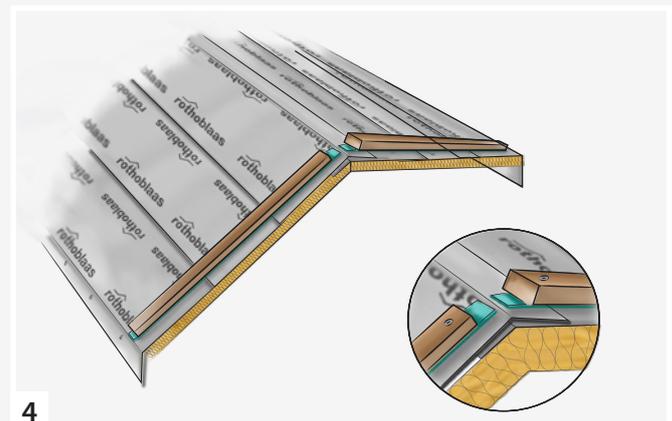
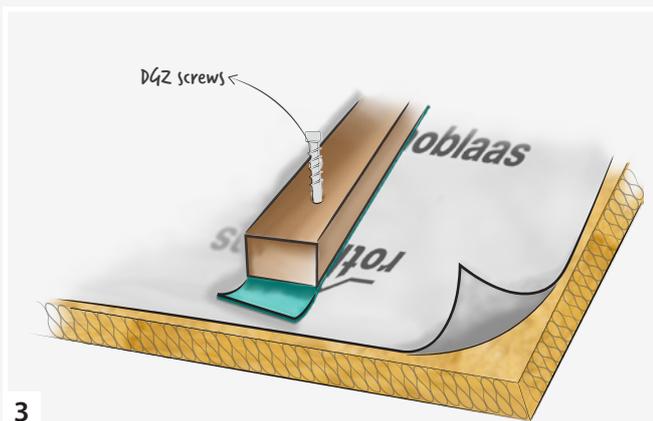
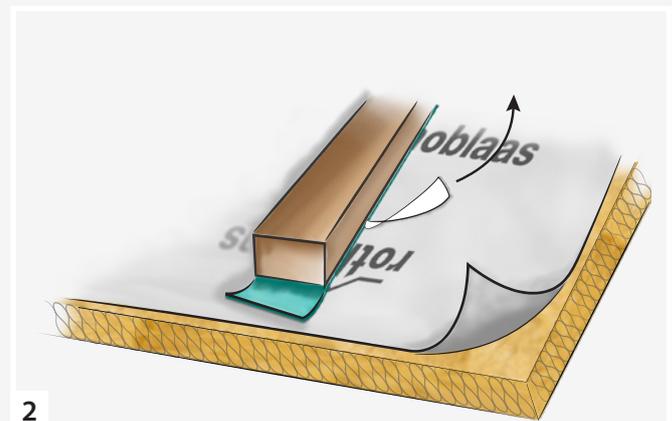
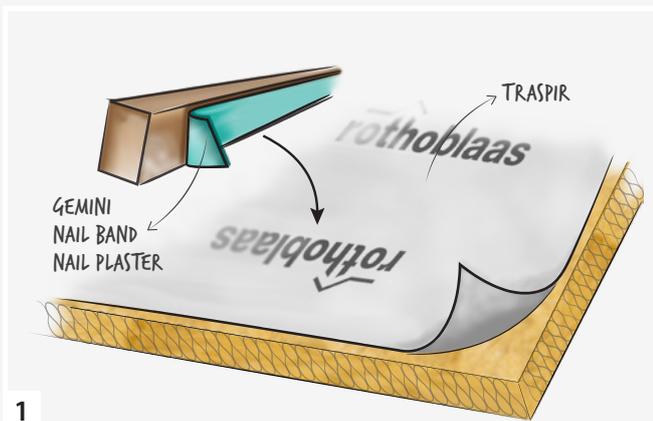


**RIDGES - OVERLAPPING VAPOR MEMBRANES, CLIMA CONTROL OR TRASPIR**



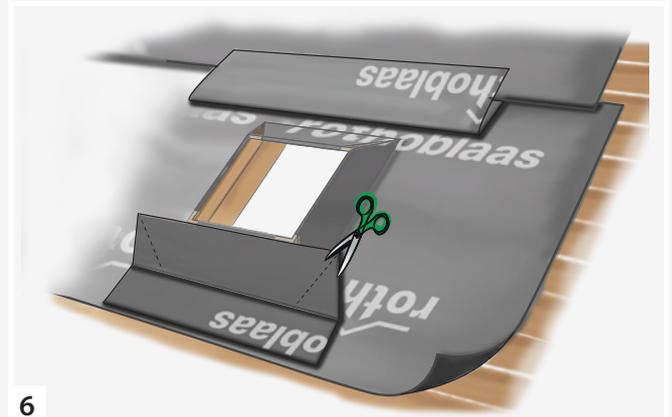
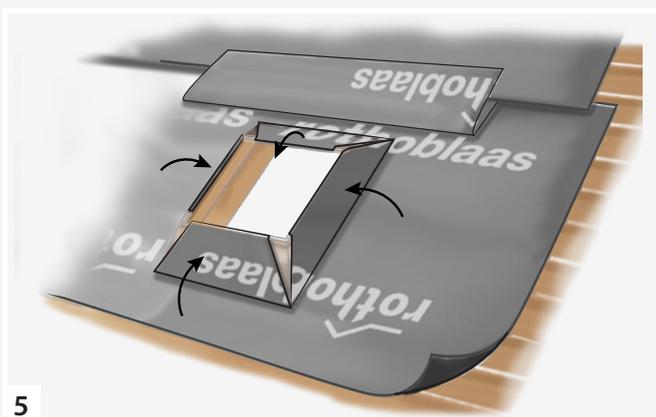
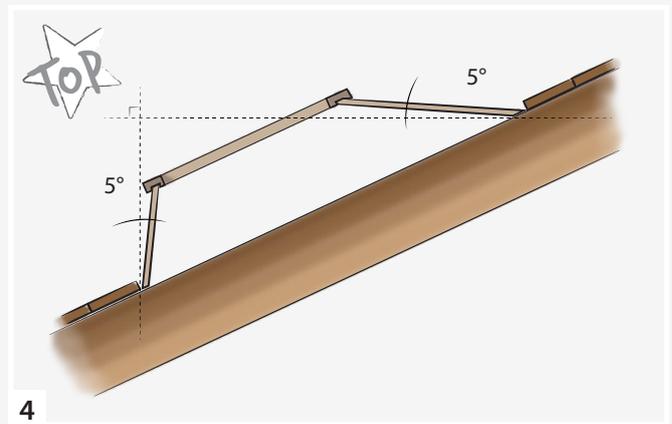
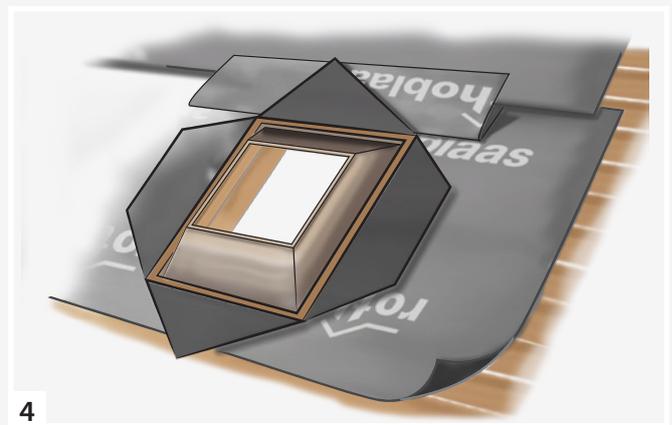
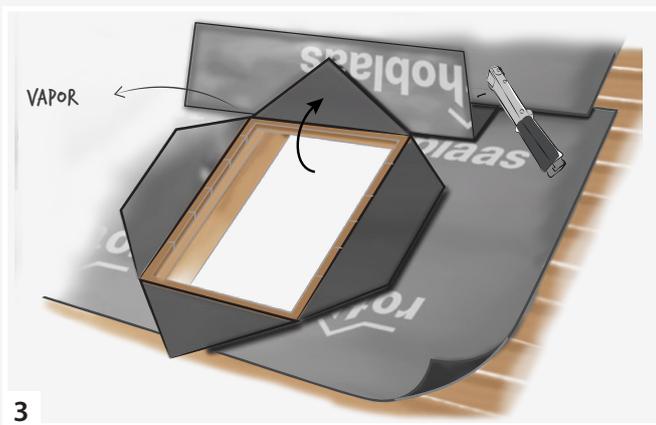
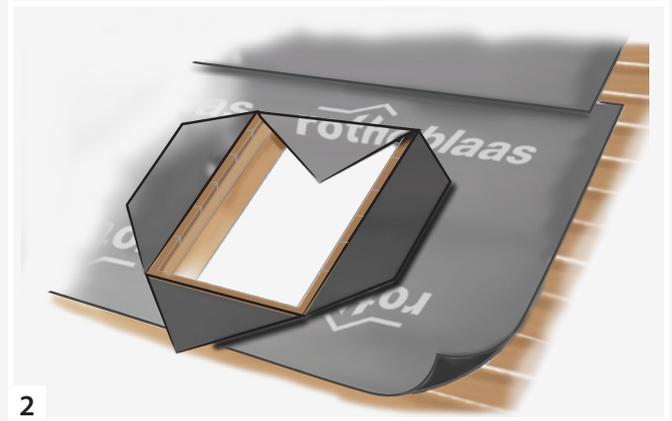
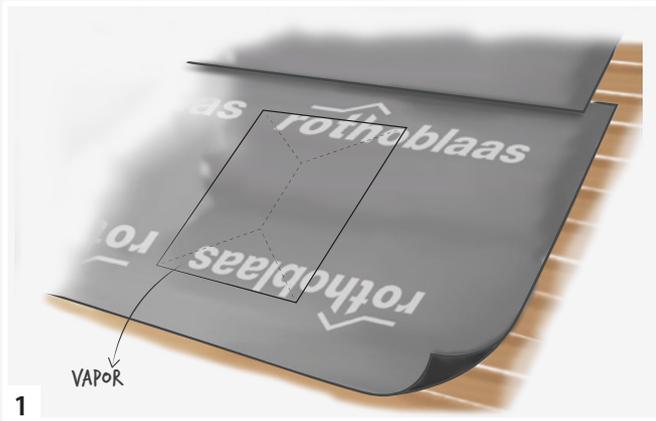
This step is recommended if the tarp is exposed to UV radiation along the gutter and under-ridge line

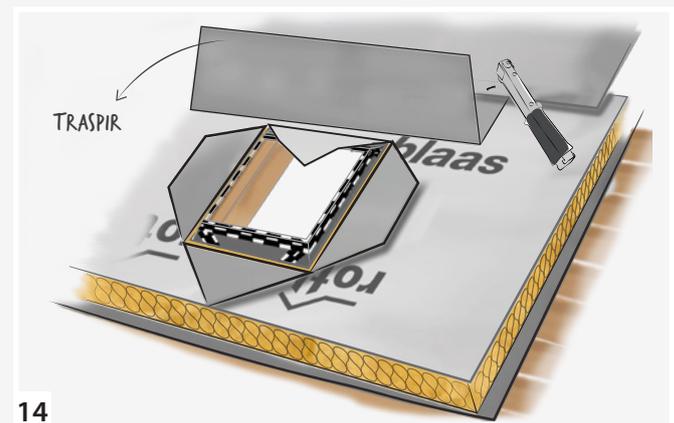
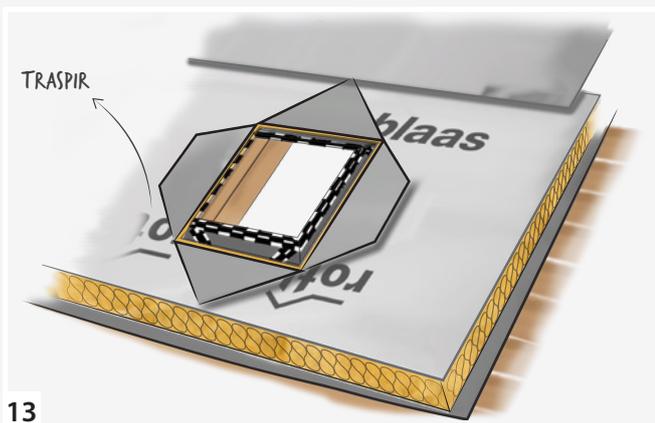
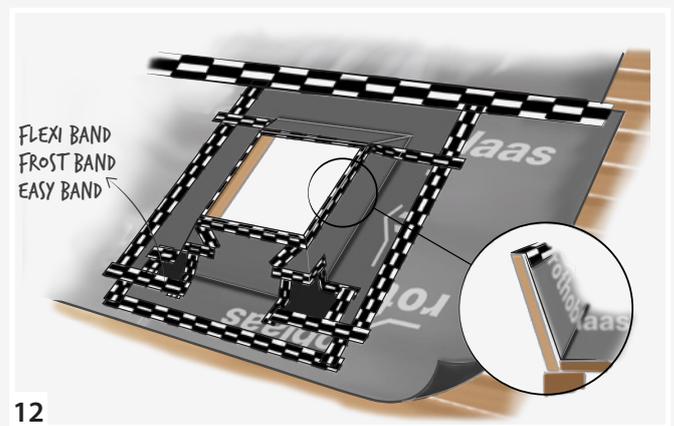
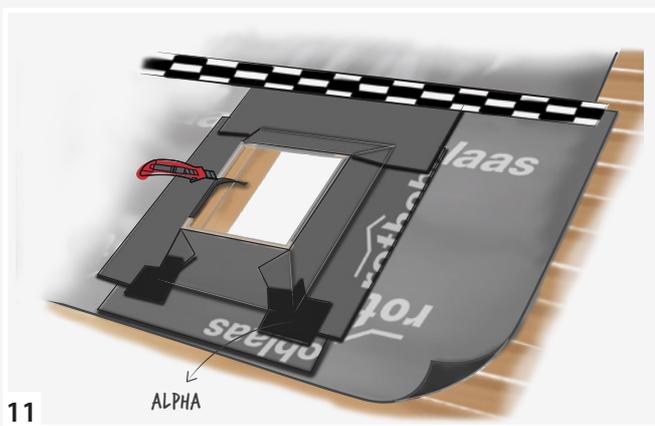
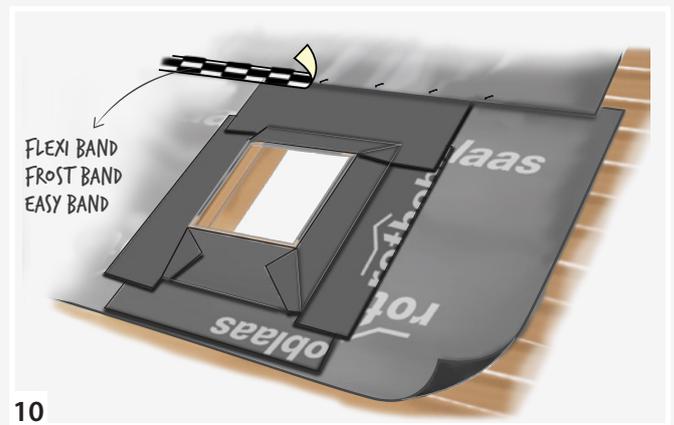
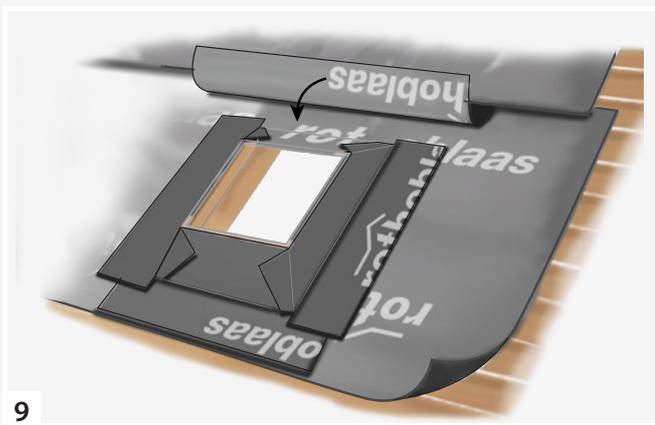
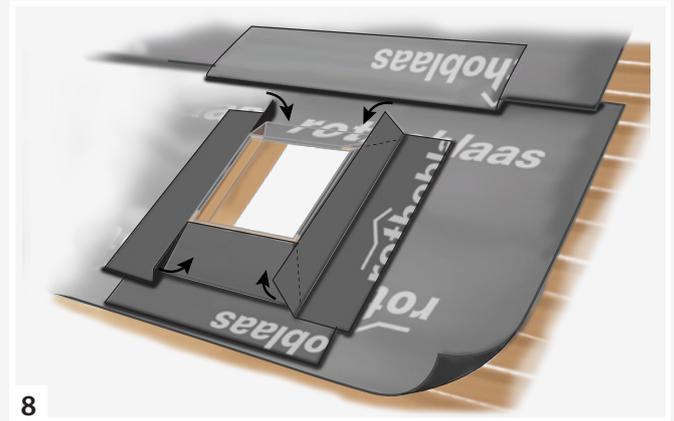
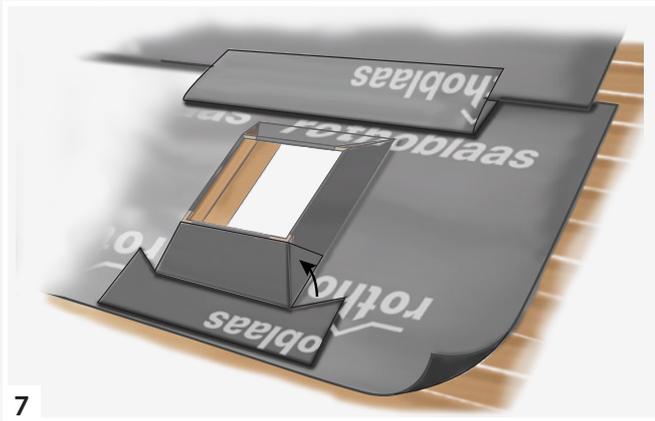
**SEALING FIXING SYSTEMS**

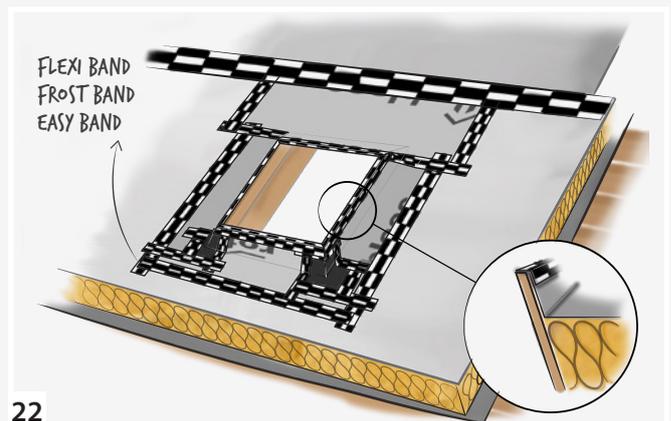
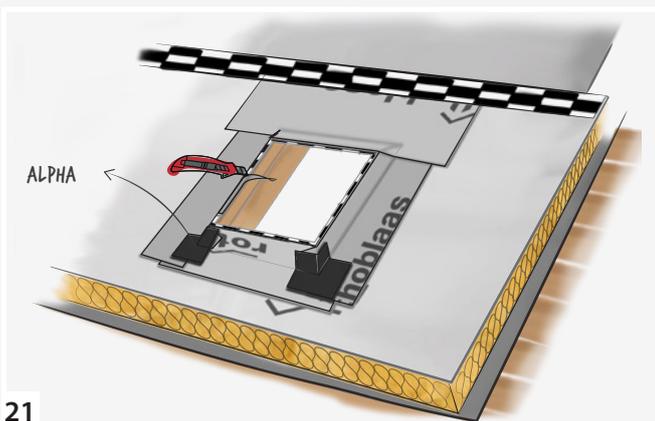
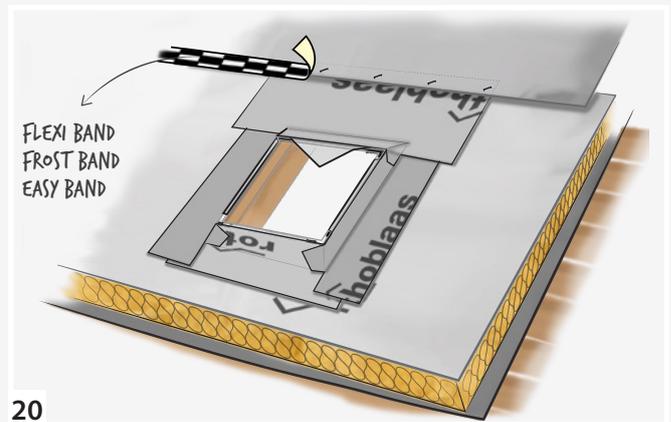
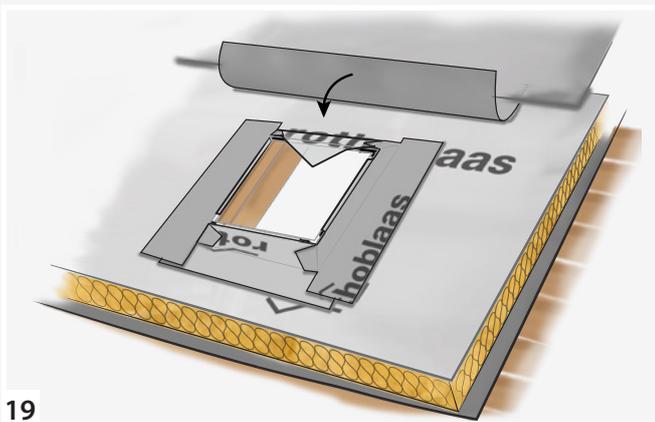
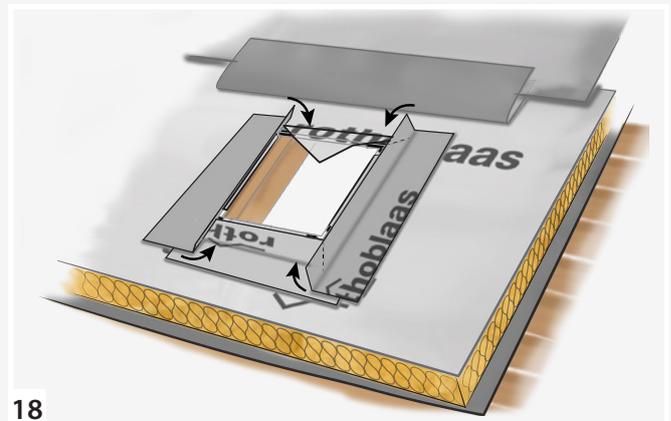
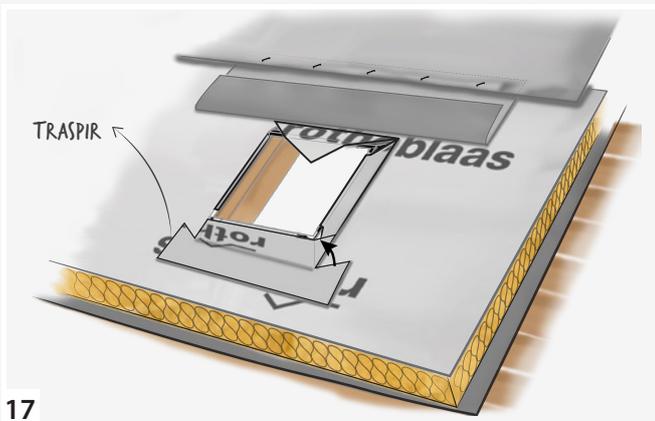
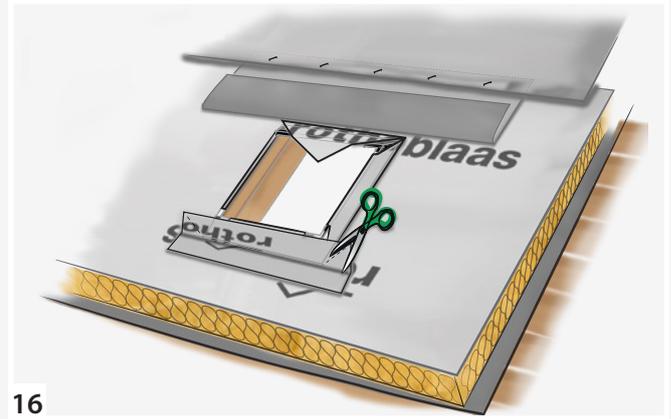
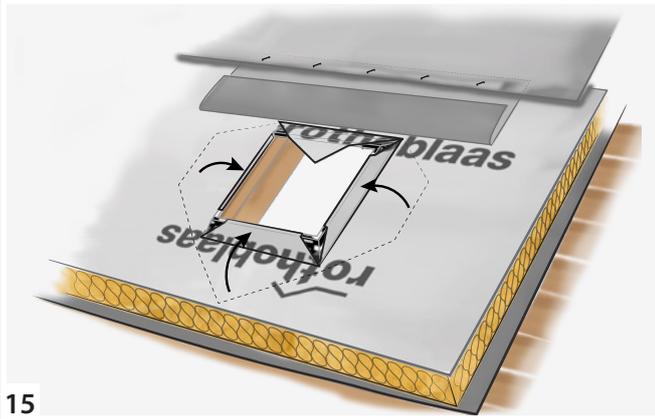


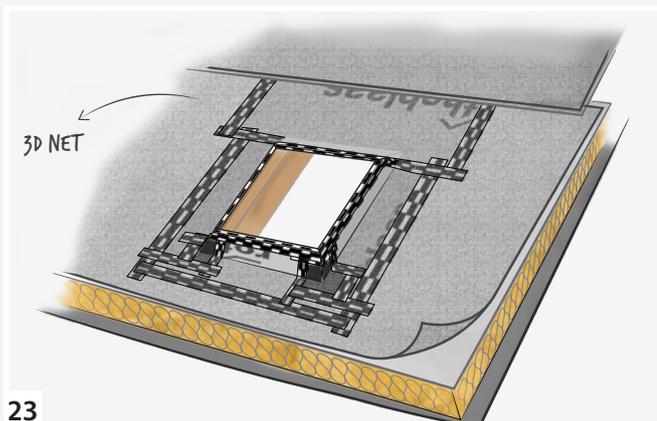
We recommend using GEMINI and NAIL PLASTER 5 mm when the membrane is applied to a rigid or irregular support (e.g. boarding, OSB, high density insulation, etc.)

WINDOW SEALING FROM ROOF

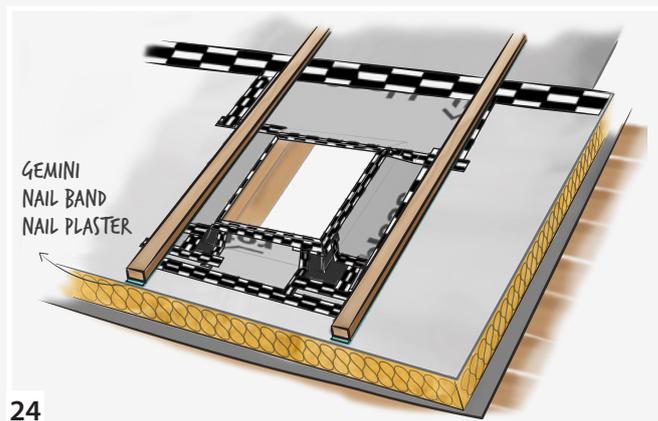




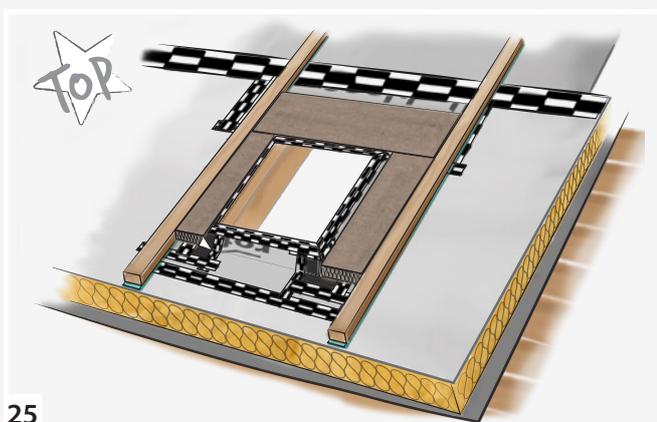




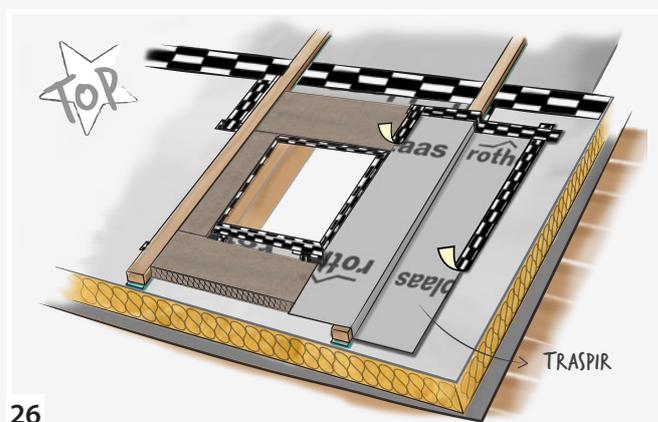
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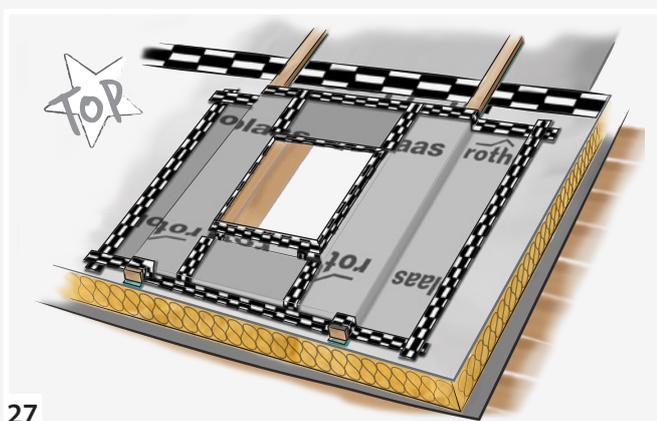
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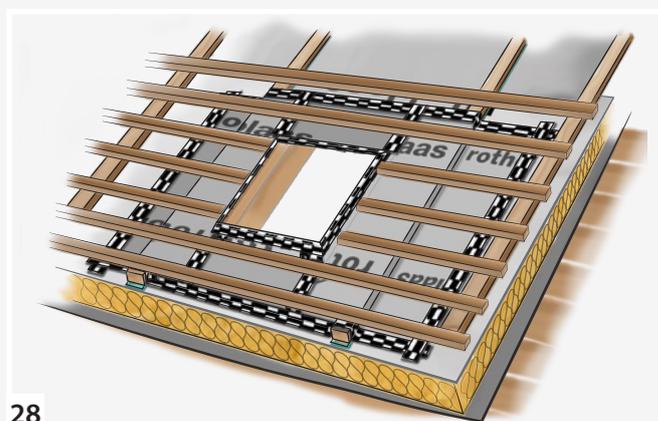
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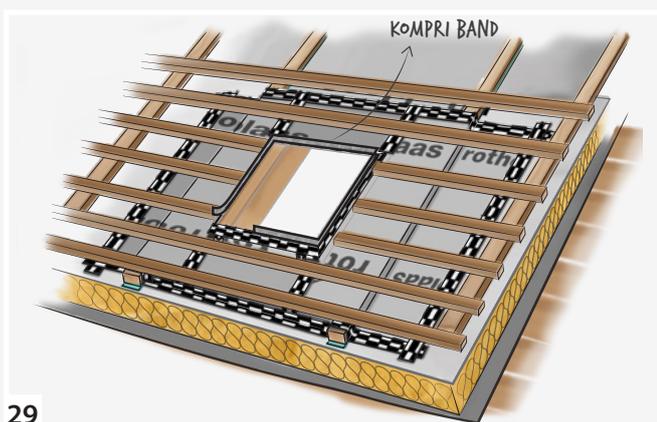
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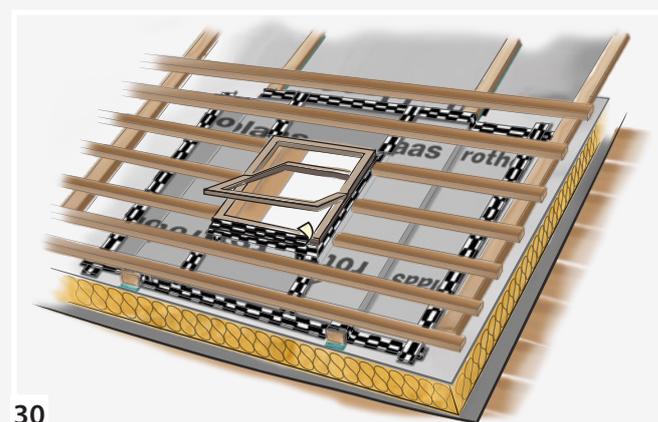
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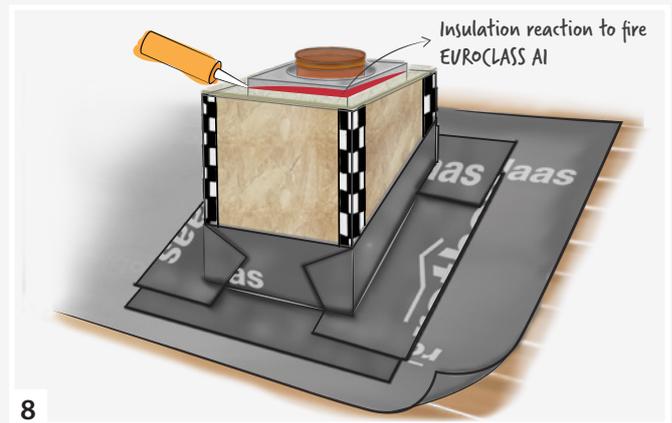
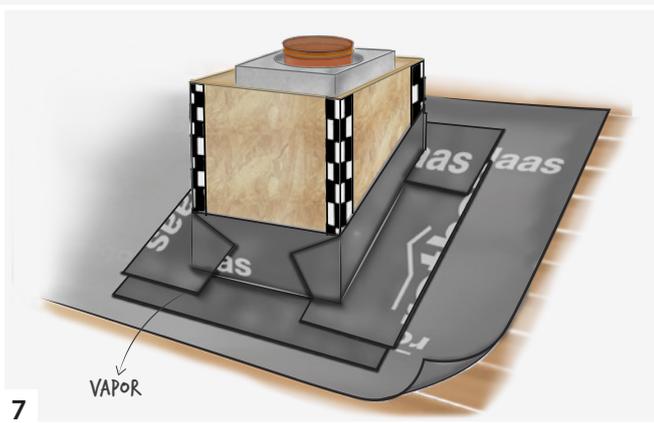
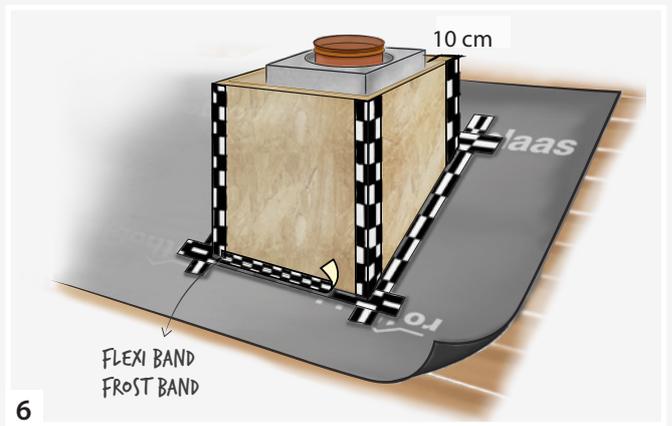
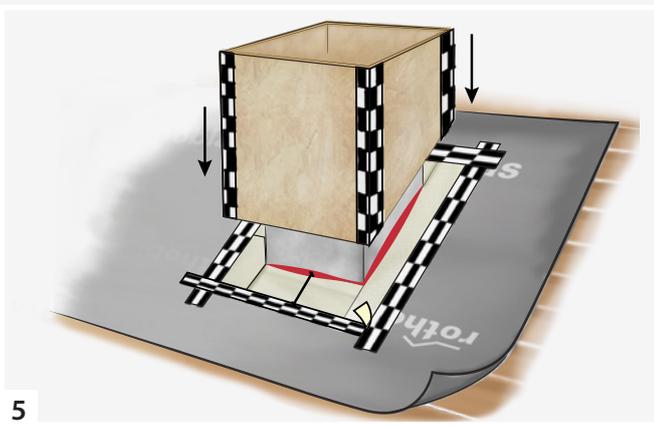
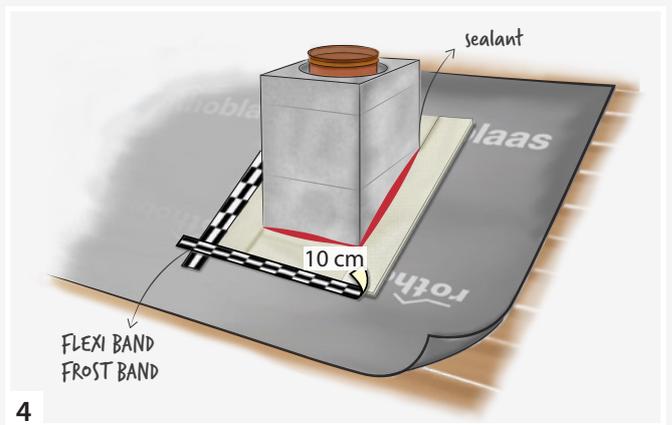
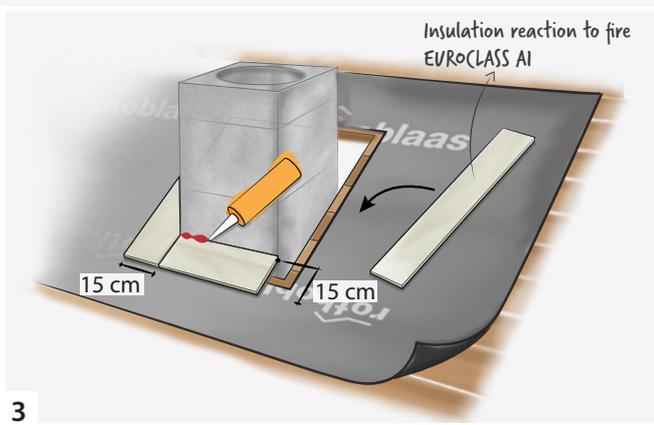
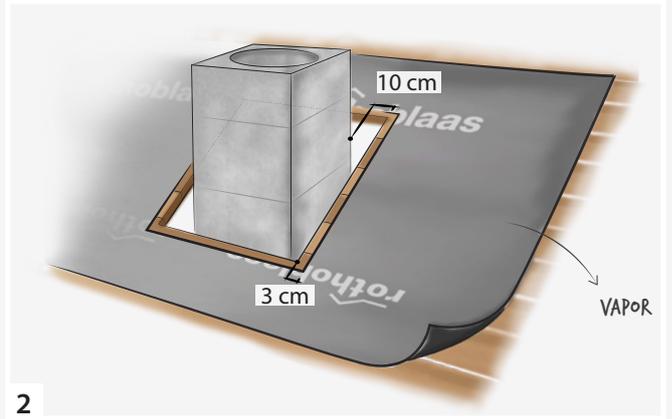
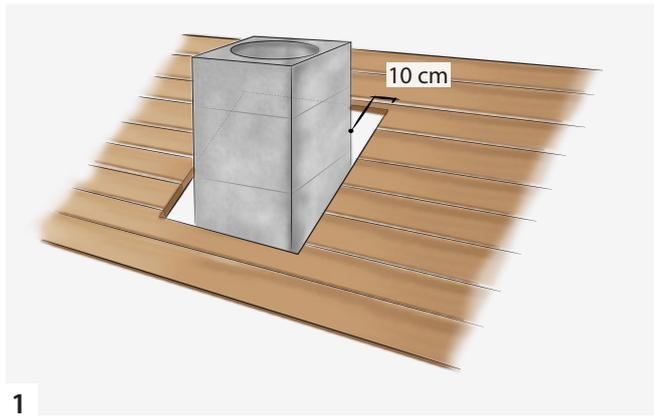


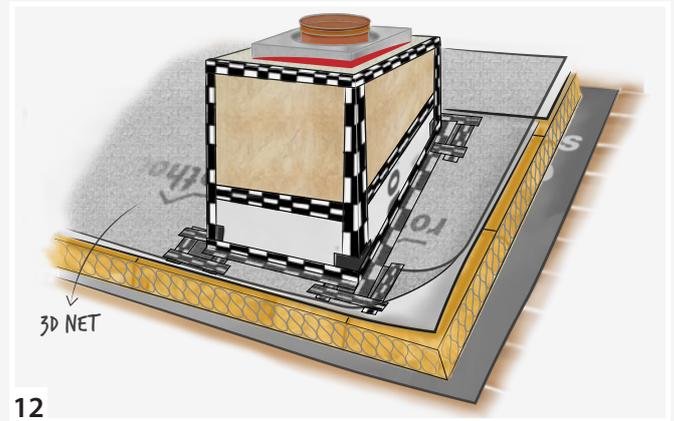
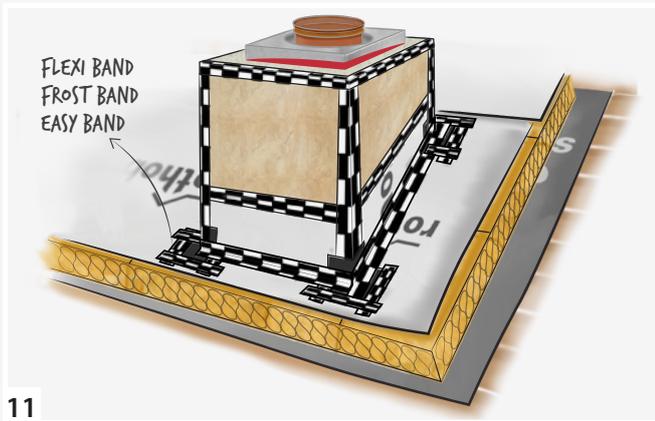
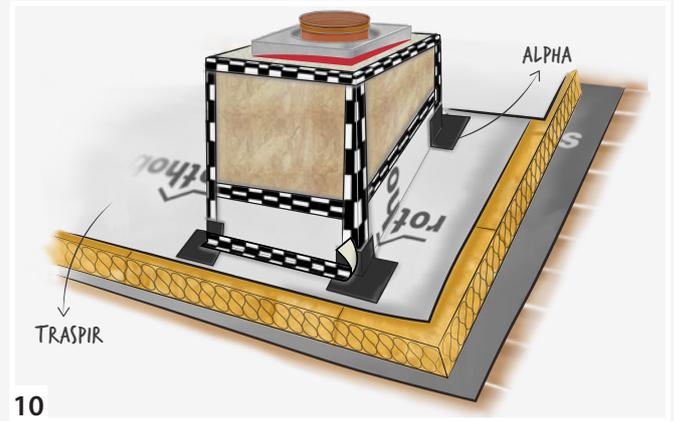
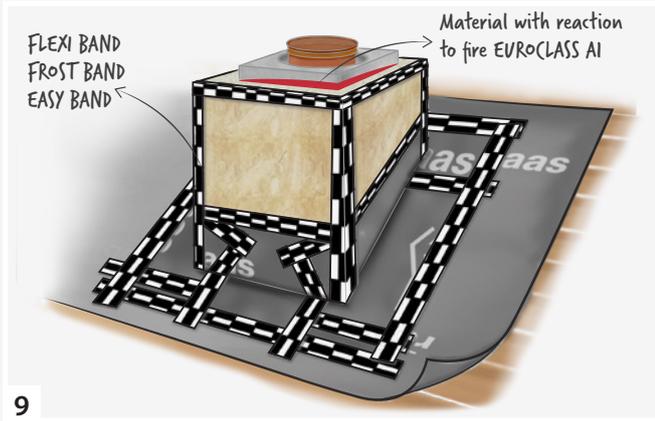
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30

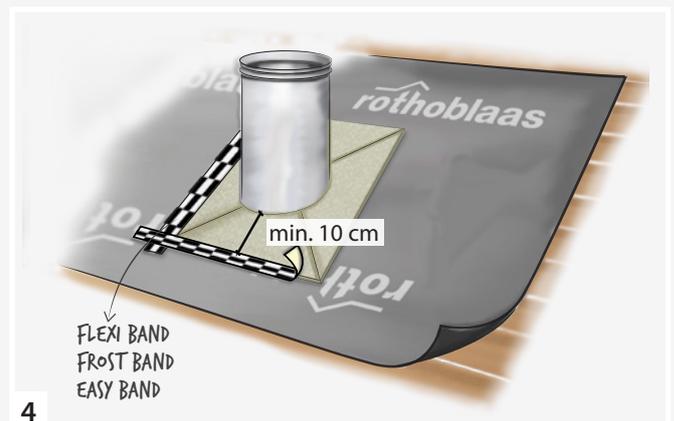
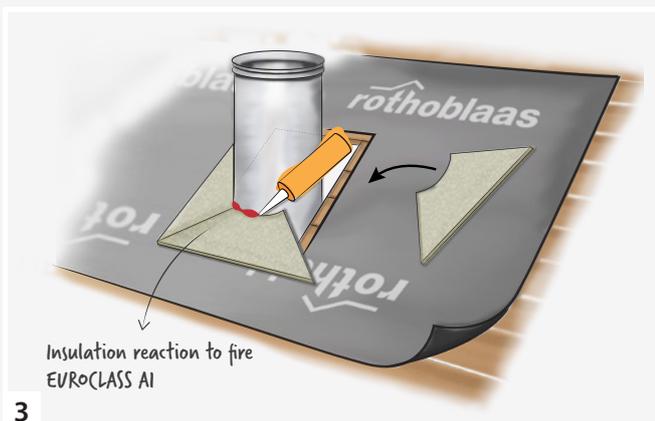
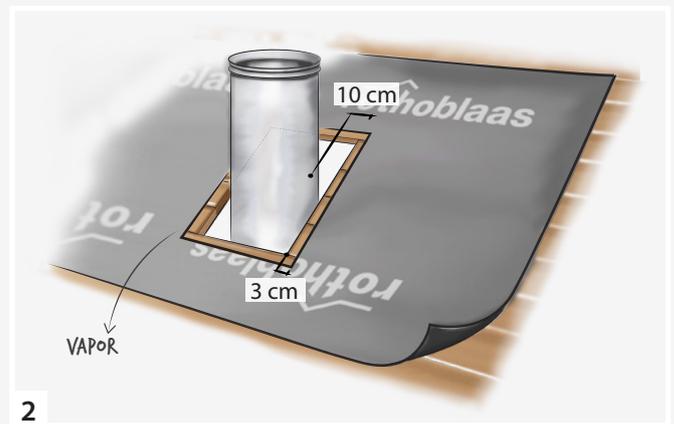
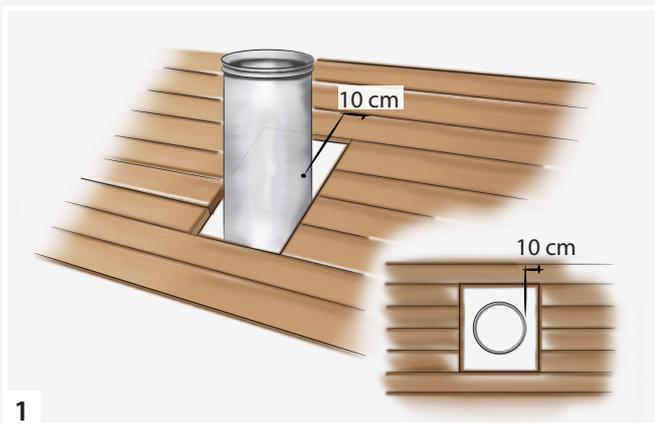
REFRACTIVE CHIMNEY SEALING

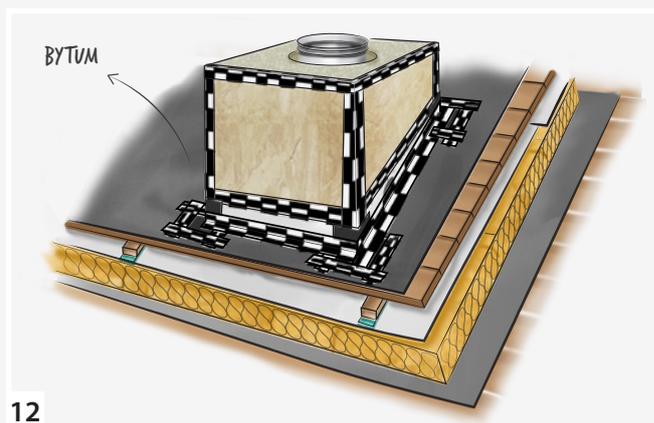
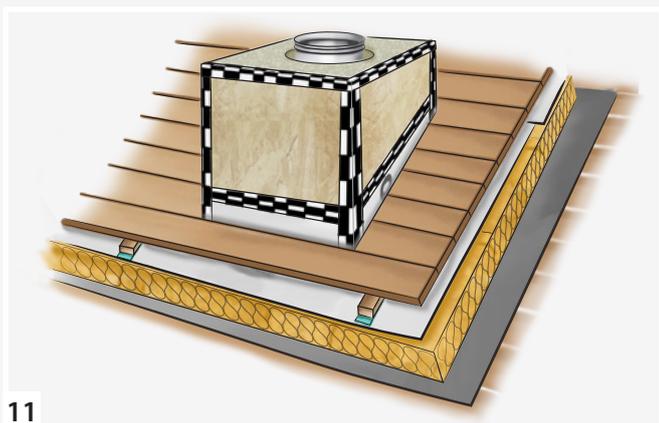
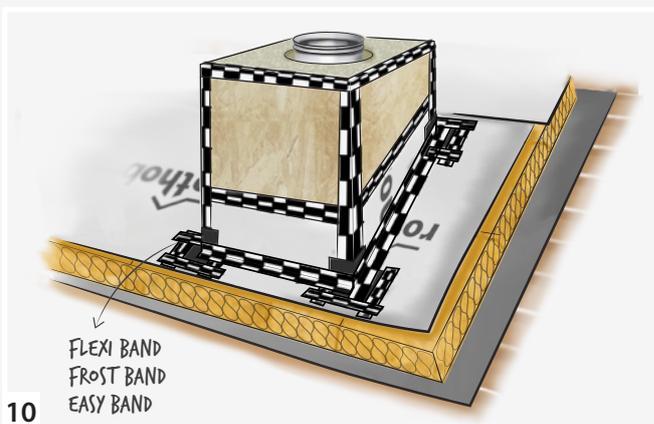
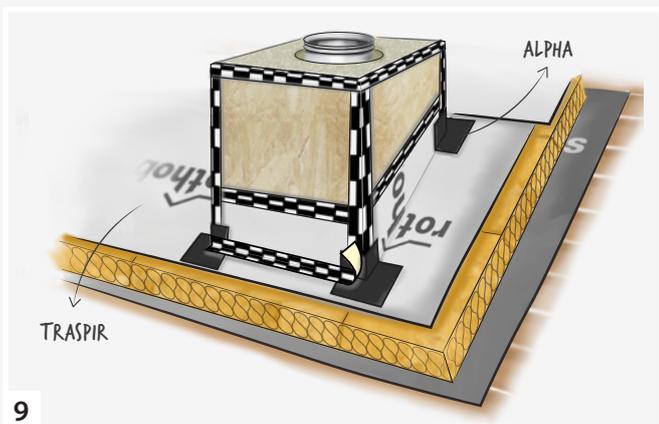
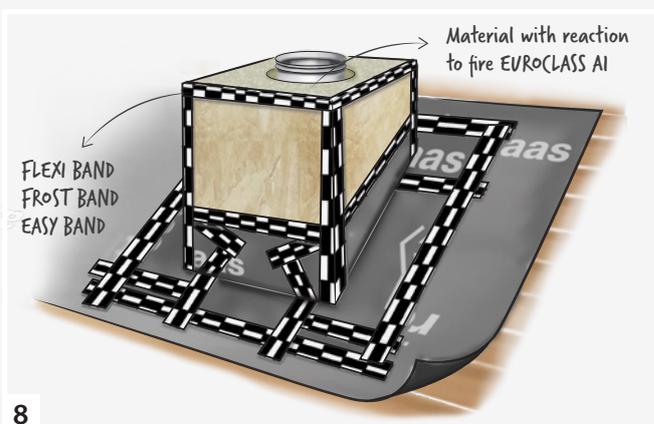
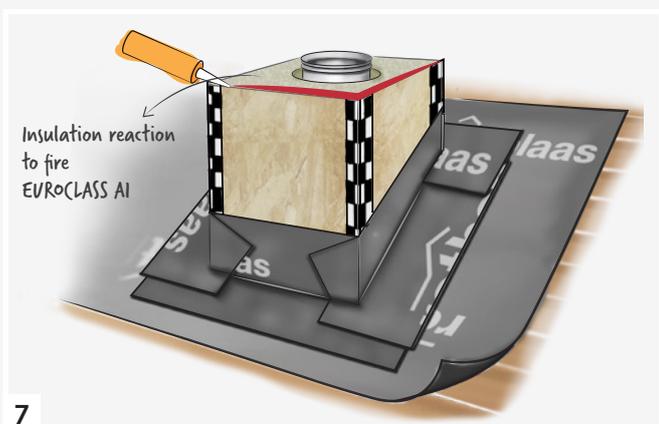
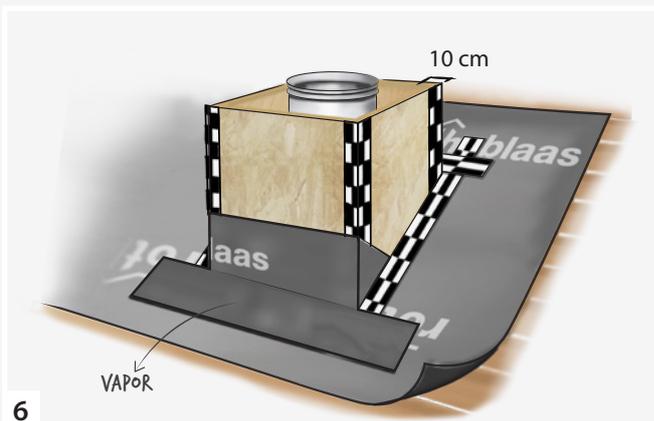
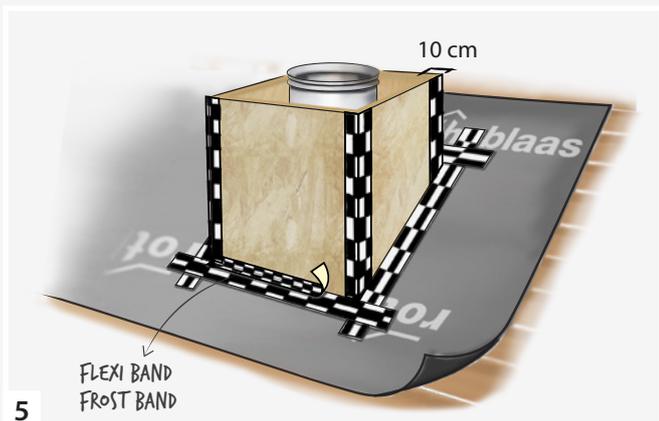




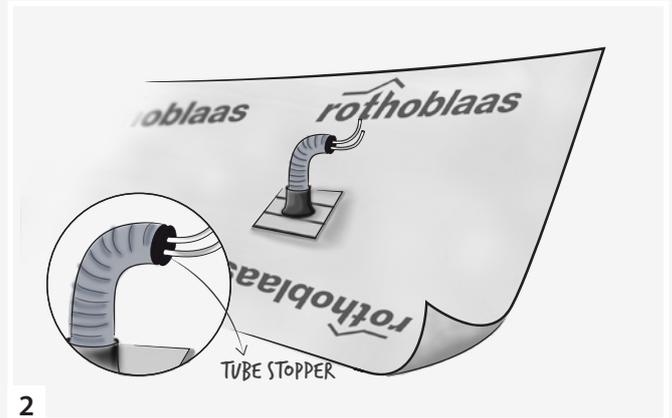
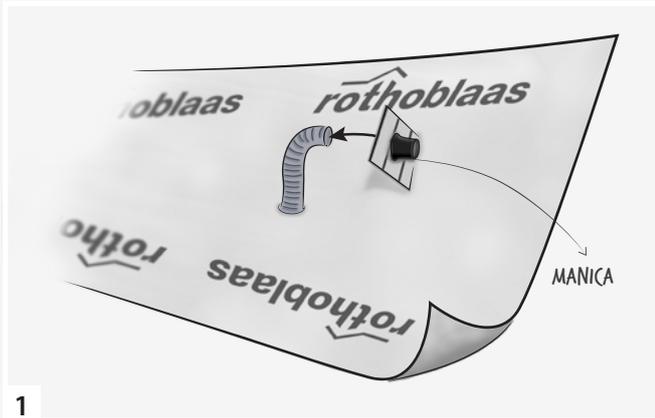
NOTE: Details done with TRASPIR METAL (page 74)

**STEEL CHIMNEY SEALING**

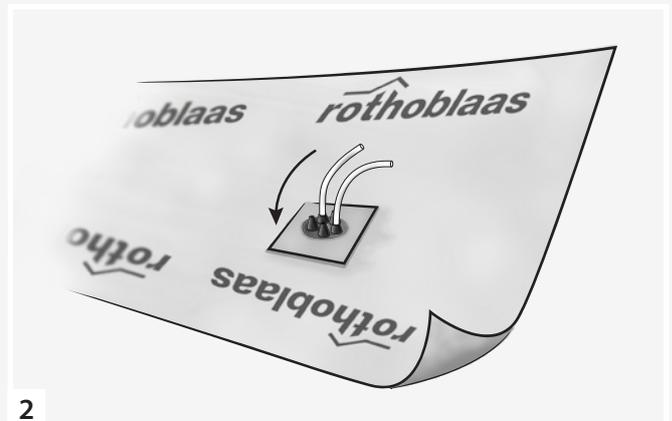
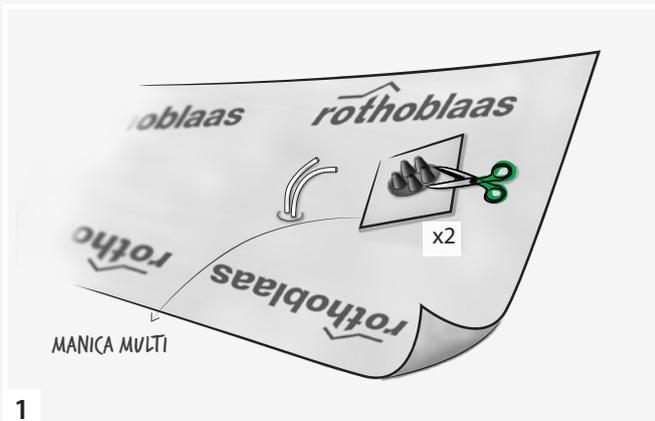




**SYSTEM PASSAGE SEALING - CORRUGATED CONDUITS**



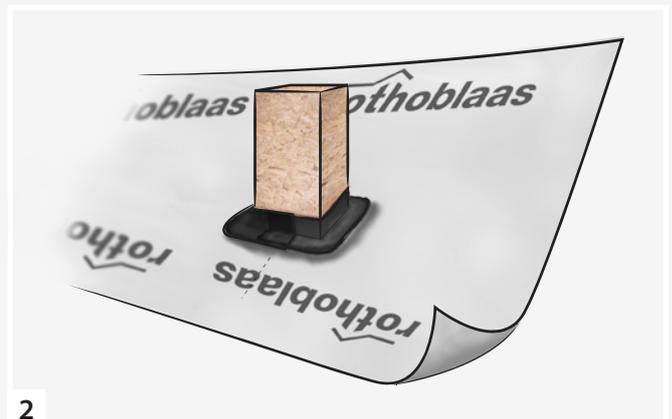
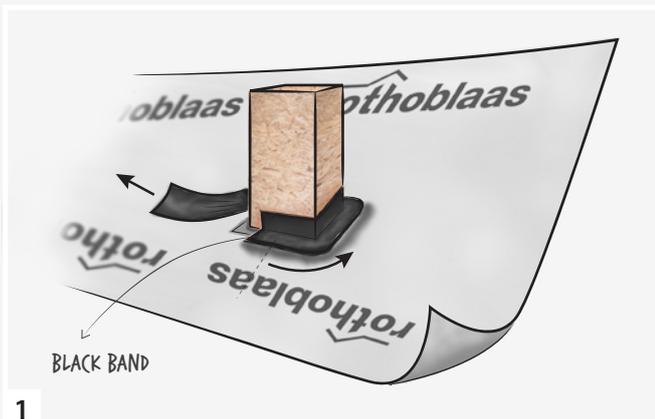
**SYSTEM PASSAGE SEALING - MULTIPLE CABLES**



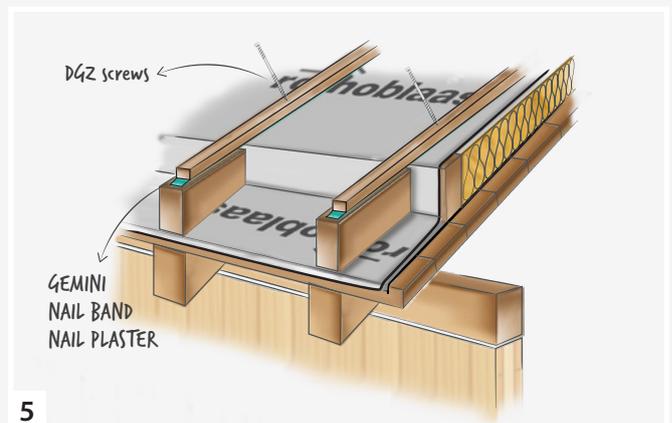
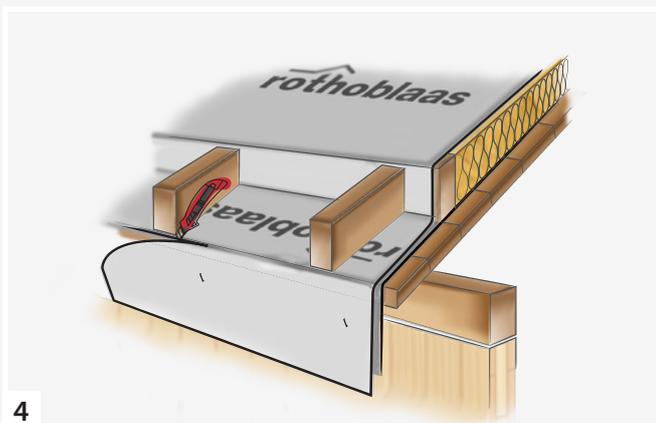
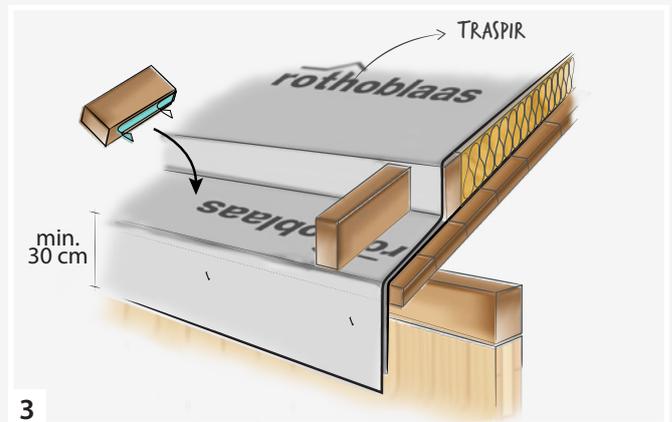
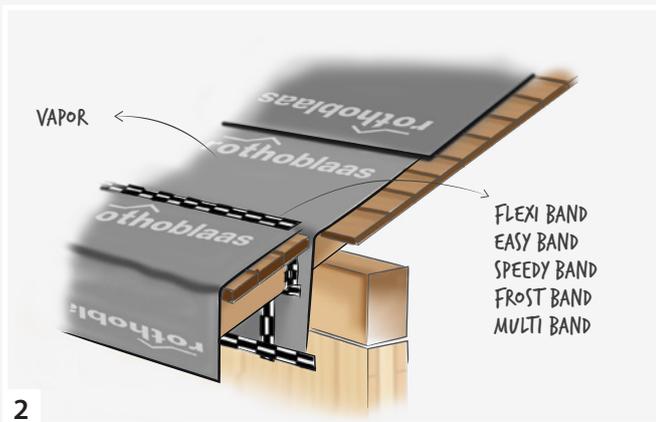
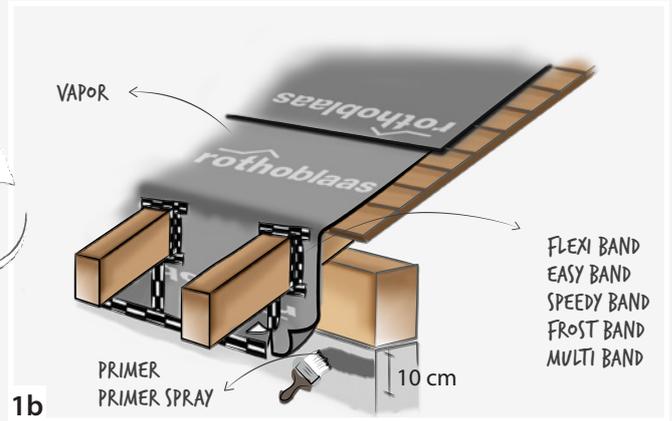
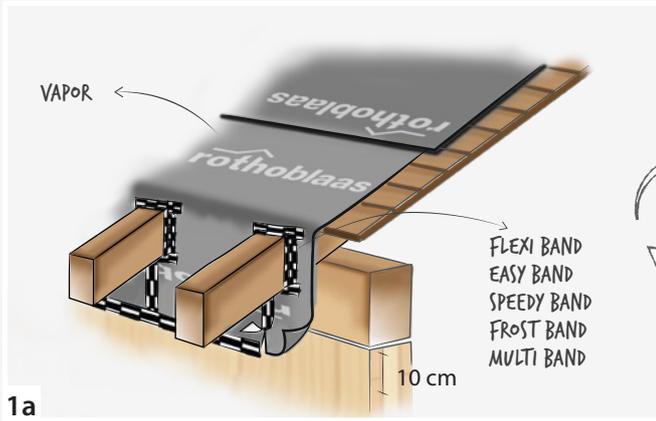
**SYSTEM PASSAGE SEALING - INDIVIDUAL CONDUIT, CIRCULAR SECTION**



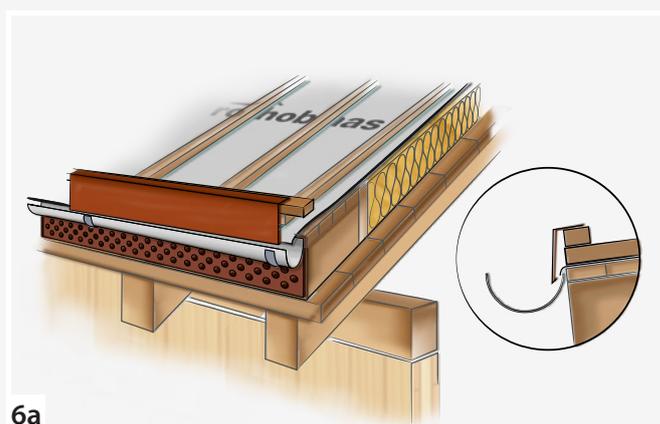
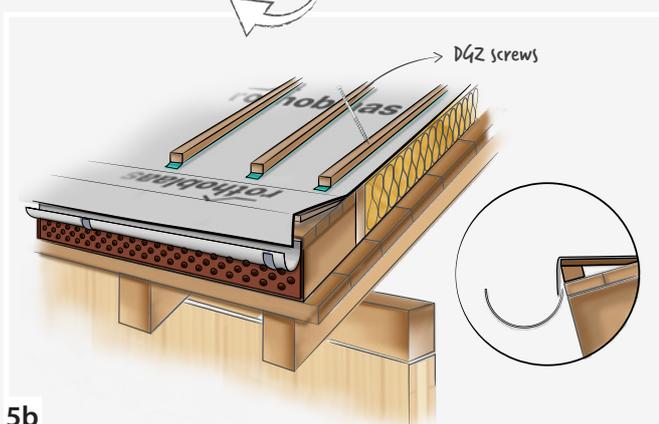
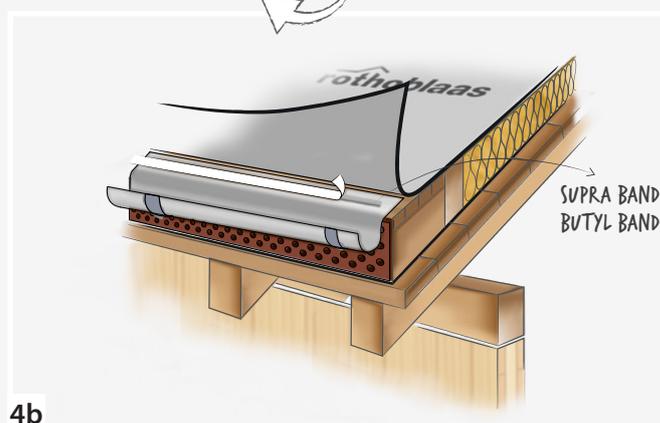
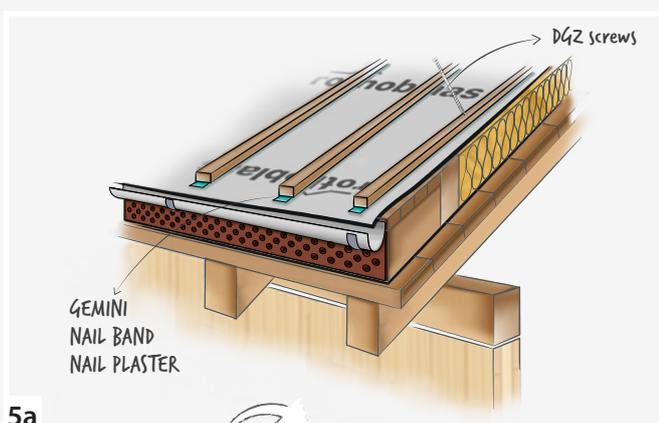
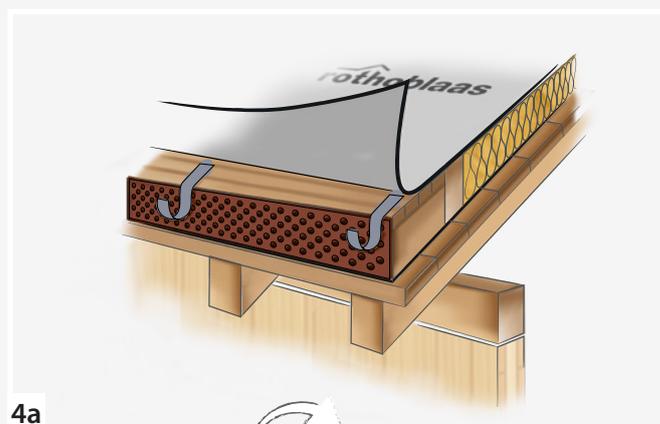
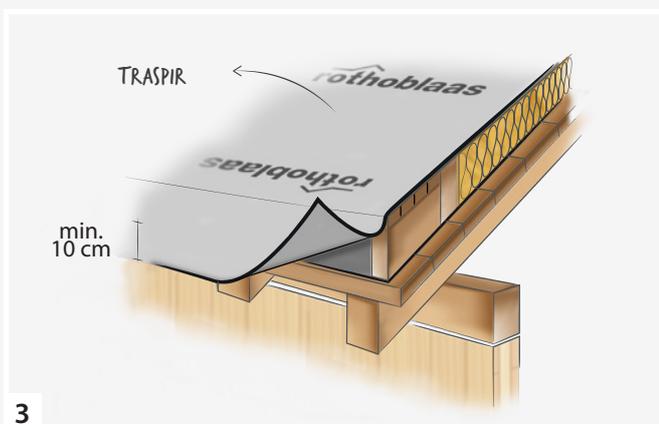
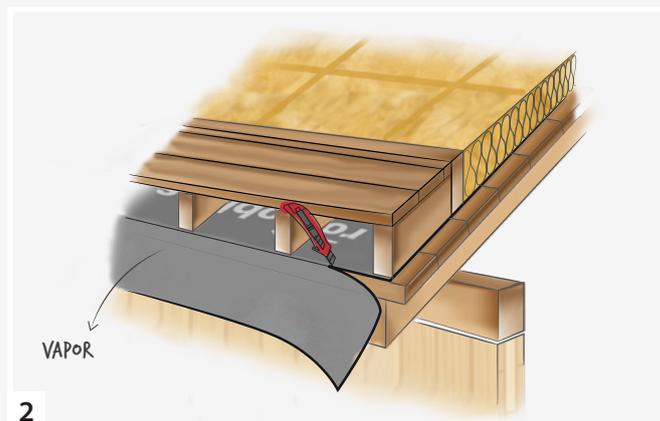
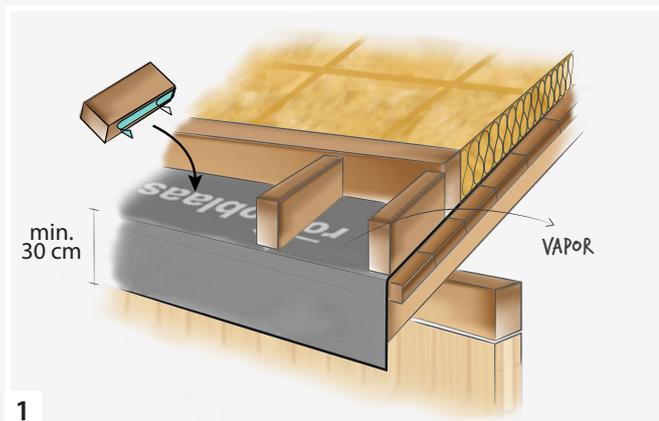
**SYSTEM PASSAGE SEALING - LIGHT WELL/CHIMNEY, RECTANGULAR SECTION**



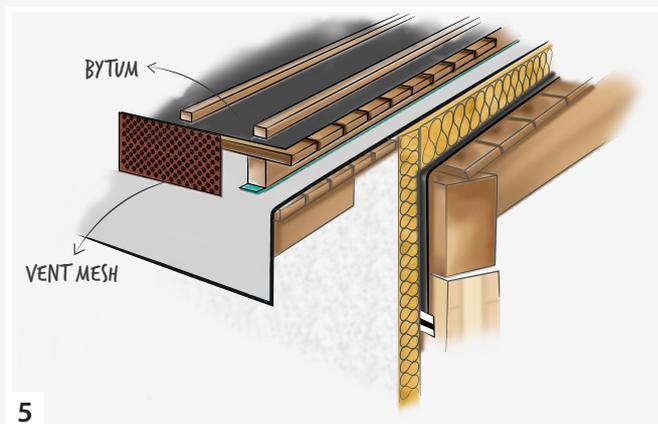
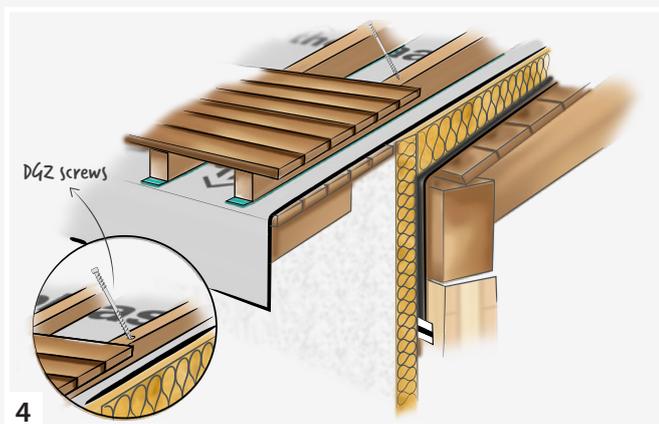
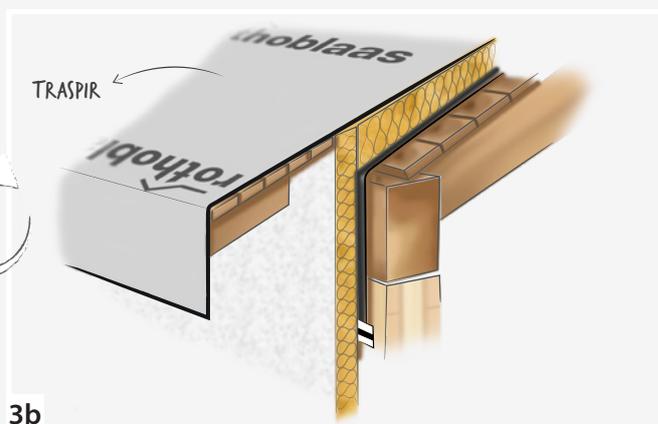
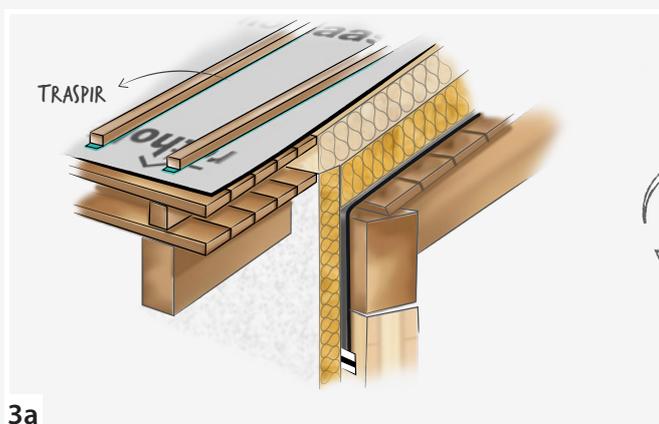
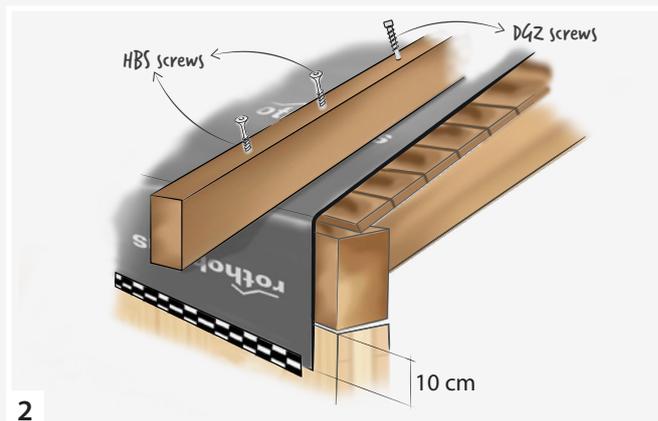
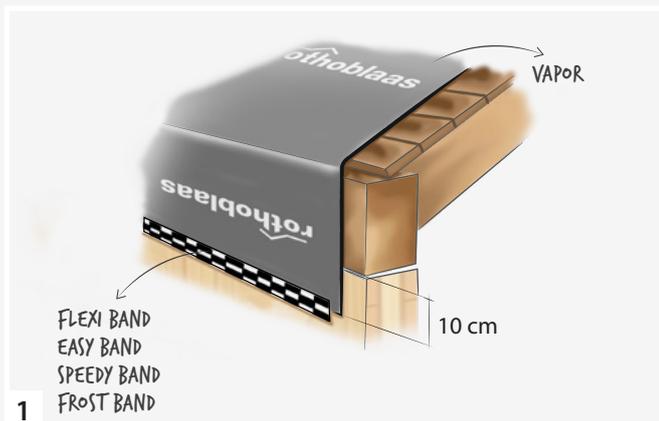
SIMPLE ROOF - TYPE A



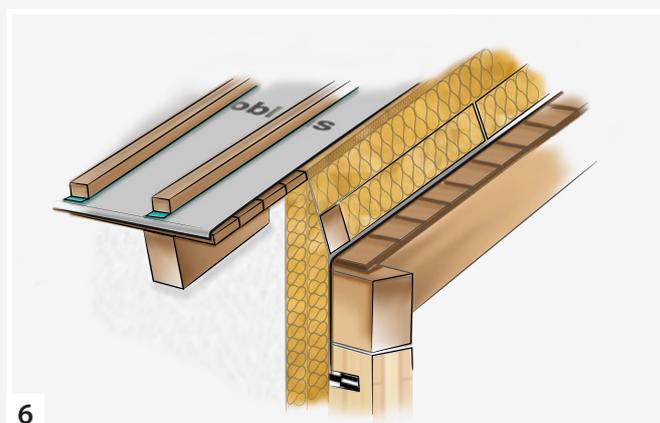
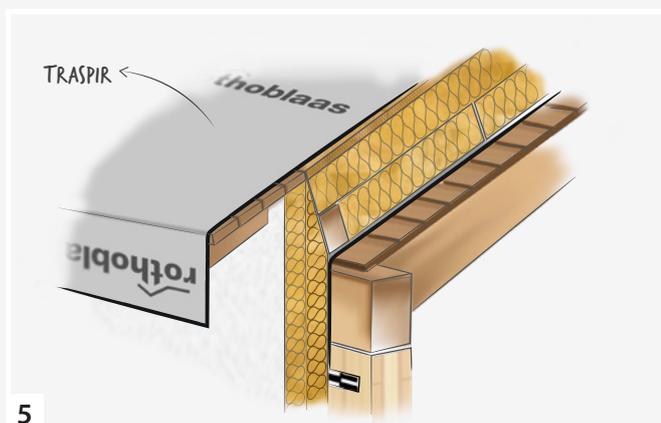
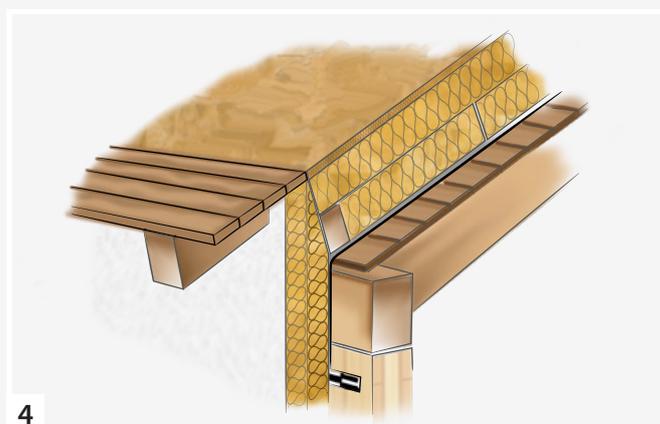
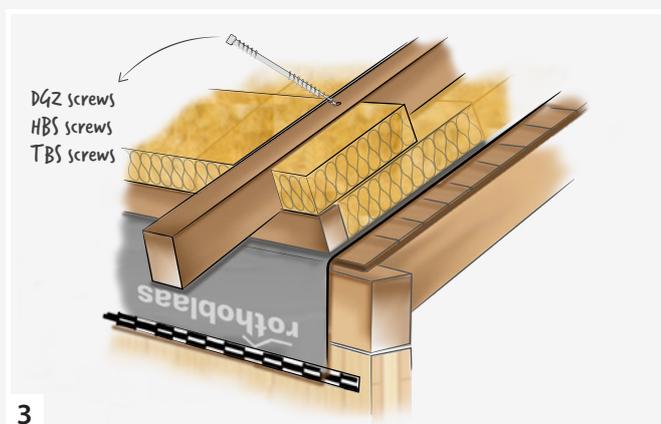
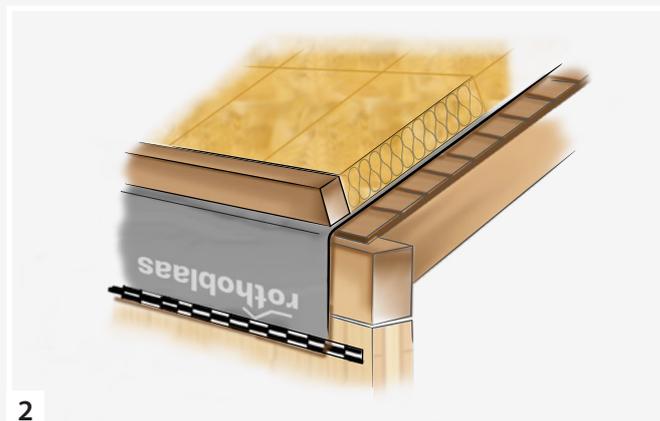
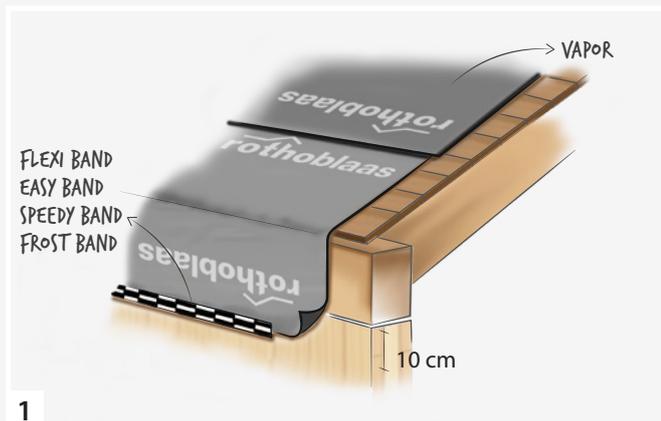
**SIMPLE ROOF - TYPE B**



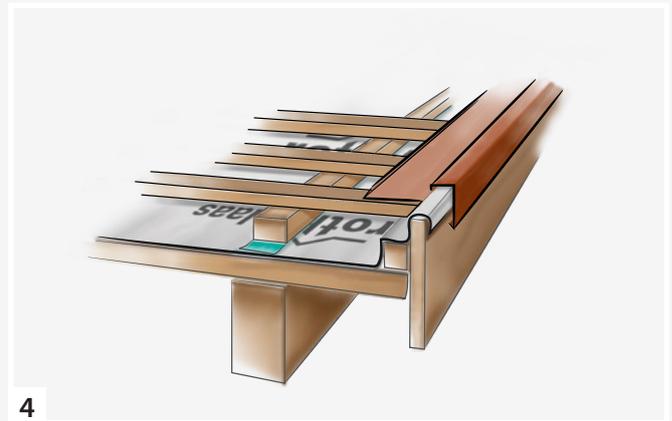
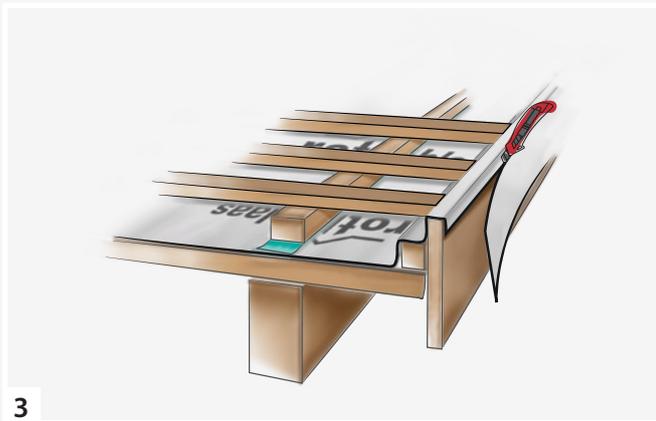
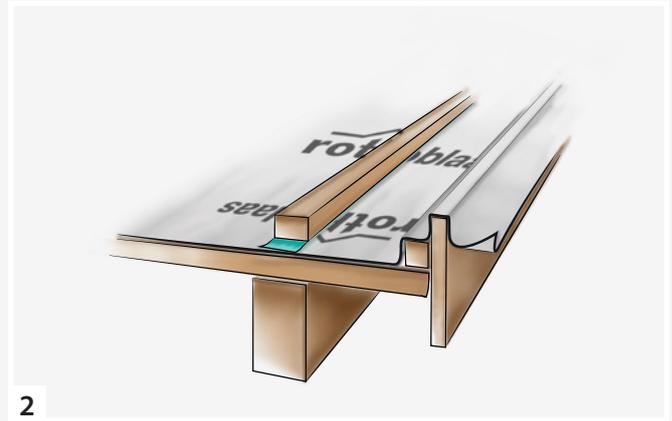
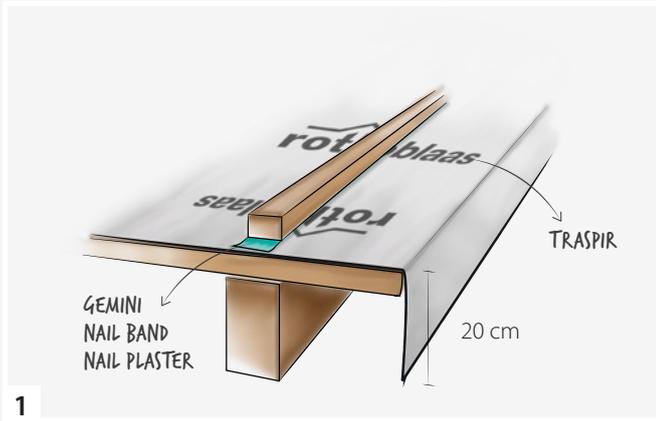
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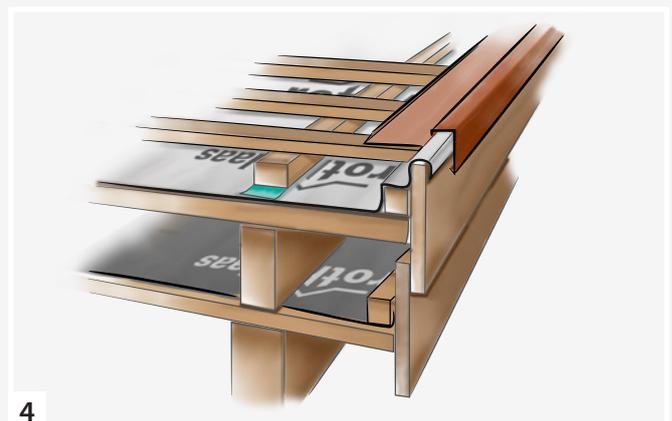
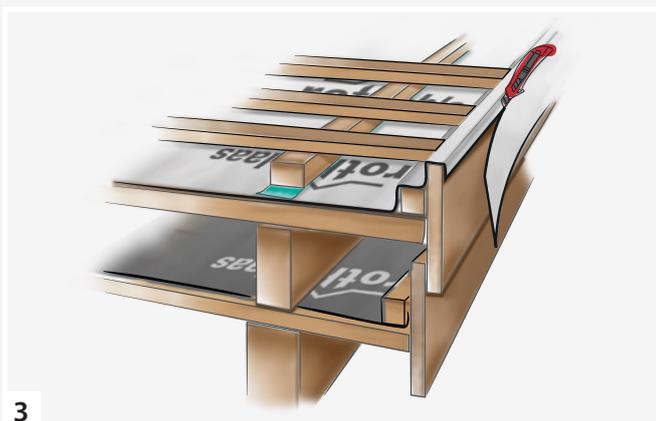
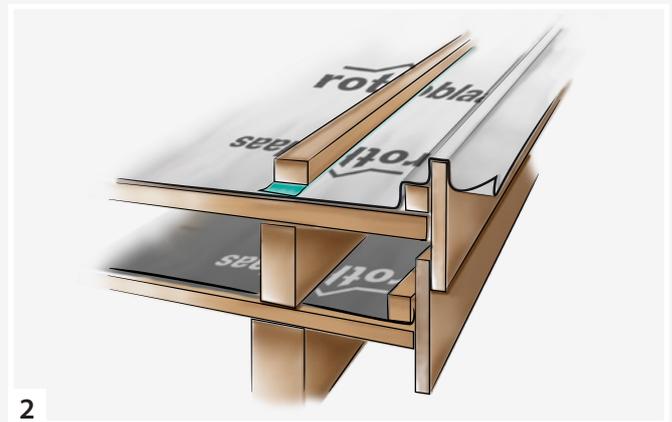
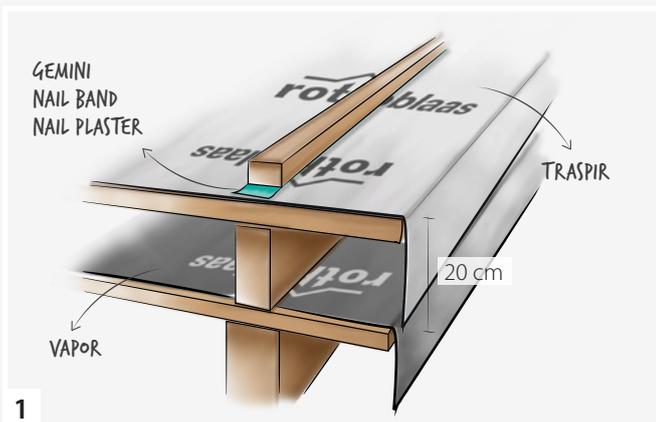
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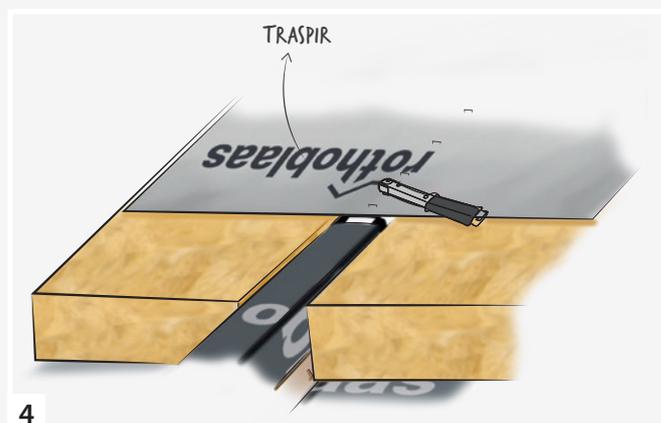
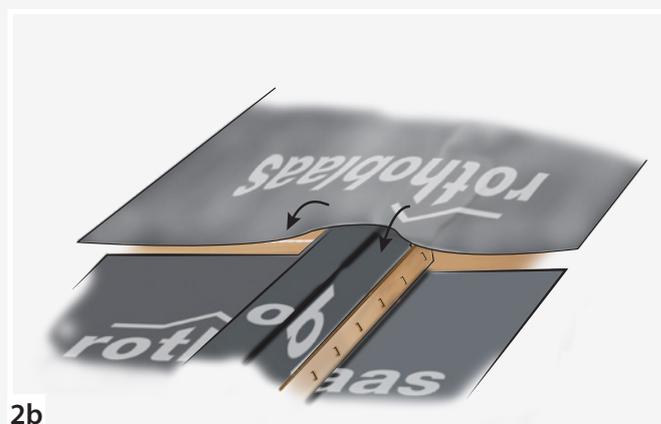
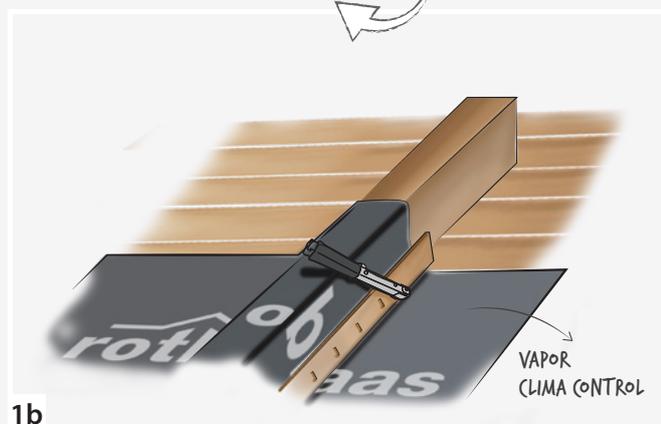
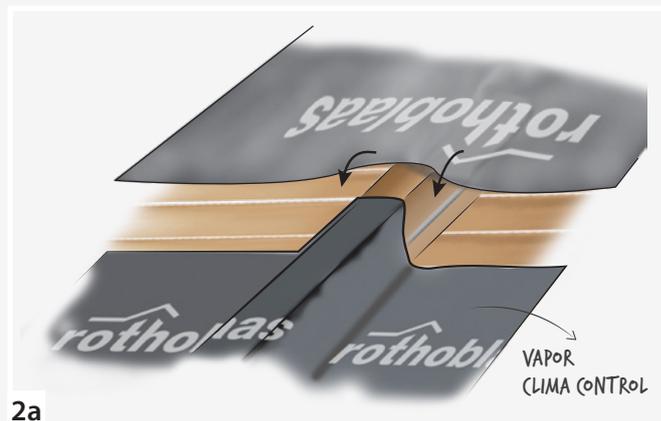
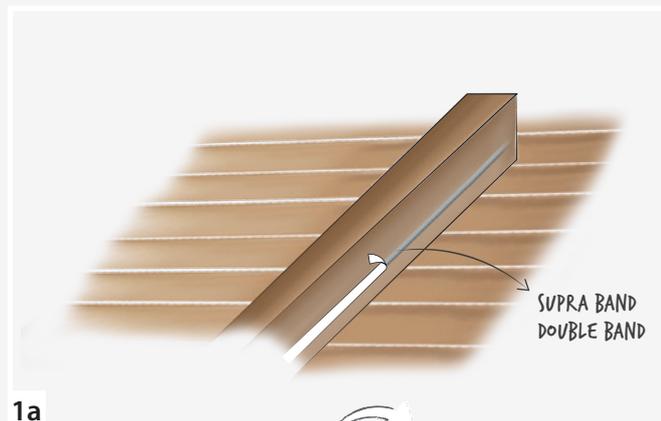
### SIMPLE ROOF - LATERAL CLOSURE



### DOUBLE ROOF - LATERAL CLOSURE



### OVERLAPPING AROUND BEAM - VAPOR AND CLIMA CONTROL INSTALLATION







# PRODUCTS

## CHAPTER 1 STOPS AND BARRIERS

### BARRIER 40 page 29

BAR40 D32202

### BARRIER 100 page 30

BAR100 D32102

BAR10040 D32108

### BARRIER ALU 150/200 page 31

BARALU200 D34202

BARALU150288 D32109

### CLIMA CONTROL 80 page 32

CLIMA80 D15402

### VAPORVLIES 100 page 34

VV100 D11202

### VAPORVLIES 120 page 35

VV120 D11502

VV12030 D11508

### VAPOR 110 page 36

V110 D11802

### VAPOR 140 page 37

V140 D13302

### VAPOR 150 page 38

V150 D13602

VTT150 D13604

### VAPOR ZENIT EVO 160 page 40

VTTEVO160 D18404

### CLIMA CONTROL 160 page 42

CLIMATT160 D15412

### VAPOR 180 page 44

V180 D14202

VTT180 D14204

### VAPOR 225 page 45

V225 D14602

VTT225 D14604

## CHAPTER 2 BREATHABLE

### TRASPIR 75 page 47

T75 D21102

### TRASPIR EVO 90 page 48

TEVO90B D42402

TEVO9030B D42407

### TRASPIR 110 page 50

T110 D21502

### TRASPIR 115 page 51

T11530 D21808

### TRASPIR 135 page 52

T135 D23302

### TRASPIR SUNTEX 150 page 53

TSUN150 D42632

### TRASPIR 150 page 54

T150 D23502

TTT150 D23504

T15030 D23508

T150R D23602

TTT150R D23604

### TRASPIR 170 page 55

T170 D23802

TTT170 D23804

### TRASPIR EVO 160 page 56

TTTEVO160 D42504

### TRASPIR ZENIT EVO 180 page 58

TTTEVO180 D28304

### TRASPIR 190 page 60

T190 D24202

TTT190 D24204

### TRASPIR 205 page 61

T205 D24402

TTT205 D24404

### TRASPIR EVO 220 page 62

TTTEVO220 D42514

### TRASPIR SUNTEX 200 page 64

TTTSUN200 D42654

### TRASPIR 270 page 65

T270 D24802

TTT270 D24804

### TRASPIR EVO 300 page 66

TTTEVO300 D42524

### TRASPIR EVO 340 page 68

TTEVO340 D24854

### TRASPIR WELD EVO 360 page 70

TEVO360 D42562

TEVO36030 D42568

WELDBOTBRUSH D78420

WELDBRUSH D78422

WELDLIQUID D78421

WELDSTRIPE3000 D78423

WELDPIPE D78424

### TRASPIR METAL page 74

TTMET580 D42786

3DNET D42772

### TRASPIR ZENIT UV 210 page 79

TUV210 D42442

TUV21030 D42448

### TRASPIR EVO UV 210 page 80

TTTUV210 D42454

### TRASPIR COLOR EVO UV page 82

TCUVXXX

TCUVXXX30

TCUVXXXB

TCUVXXX30B

COLORGLUE

## CHAPTER 3 SHEATHS

### BYTUM 400 page 87

BYT400 D36202

### BYTUM 750 page 88

BYTT750 D36404

### BYTUM 1100 page 89

BYT1100 D36602

### BYTUM BASE 3000 page 90

BYTBASE3000 D38424

### BYTUM SLATE 3500 page 91

BYTSGRA3500 D38242

BYTSRED3500 D38244

BYTSGRE3500 D38246

### BYTUM LIQUID page 94

BYTL D38622

### BYTUM REINFORCEMENT page 94

BYTR D38627

### FLOOR RADON page 98

RADON350 D45205

### FLOOR RADON EVO page 100

RADONEVO1200 D45215

### TERMI FLOOR page 102

TERMI75 D45307

TERMI150 D45308

## CHAPTER 4 TAPES AND PROFILES

### FLEXI BAND page 116

FLEXI60 D52114

FLEXI100 D52116

FLEXI7575 D52117

FLEXI5050 D52118

### EASY BAND page 117

EASY50 D52146

EASY60 D52145

### SPEEDY BAND page 118

SPEEDY60 D52124

### FROST BAND page 119

FROST75 D52414

### MULTI BAND page 120

MULTI75 D52314

### SUN BAND page 121

SUN75 D52514

### FACADE BAND UV page 122

FACADEUV60 D52344

### FRONT BAND UV 210 page 123

FRONTUV75 D52334

### SEAL BAND page 124

SEAL60 D52211

SEAL1248 D52212

SEAL3030 D52214

### SEAL SQUARE page 125

SEAL180 D52220

### DOUBLE BAND page 128

DOUBLE40 D52712

### SUPRA BAND page 129

SUPRA6 D63627

SUPRA10 D63628

### ALU BAND page 130

ALUBAND75 D52622

### ALU BUTYL BAND page 131

ALUBUTYL75 D52632

ALUBUTYL150 D52633

### PLASTER BAND IN page 132

PLASTIN1263 D67431

PLASTIN1288 D67432

PLASTIN12138 D67433

PLASTIN12188 D67434

### PLASTER BAND OUT page 133

PLASTOUT1263 D67441

PLASTOUT1288 D67442

PLASTOUT2138 D67443

PLASTOUT2188 D67444

### FRAME BAND page 135

FRAME2054 D67413

FRAME2074 D67416

### KOMPRI BAND page 136

KOMPRI1010 D63512

KOMPRI1015 D63514

KOMPRI2015 D63532

KOMPRI3015 D63552

KOMPRI4520 D63572

### PROTECT page 138

PROTECT330 D67222

PROTECT500 D67225

# PRODUCTS

<b>BYTUM BAND</b>	<b>page 139</b>	<b>OUTSIDE GLUE</b>	<b>page 158</b>	<b>ALU RAPID</b>	<b>page 173</b>	<b>MANICA POST</b>	<b>page 181</b>
BYTBAND240	D67232	OUTGLUE310	D69542	ALURRED150	D71722	MANPOST1	D66423
BYTBAND370	D67233	OUTGLUE600	D69544	ALURRED300	D71742	MANPOST2	D66424
<b>GROUND BAND</b>	<b>page 140</b>	<b>BUTYL BAND</b>	<b>page 159</b>	ALURBRO300	D71744	MANPOST3	D66435
GROUND200	D67253	BUTYLBAND1501	D63414	<b>VALLEY ALU</b>	<b>page 174</b>	<b>TUBE STOPPER</b>	<b>page 182</b>
GROUND500	D67254	BUTYLBAND1502	D63434	VALLEY600	D75262	TUBESTOP20	D66622
GROUND1000	D67242	<b>HERMETIC FOAM</b>	<b>page 161</b>	<b>GASKET</b>	<b>page 174</b>	TUBESTOP25	D66623
GROUND1000H	D67255	HERFOAM	D69202	GASKET	D75268	TUBESTOP32	D66624
<b>BLACK BAND</b>	<b>page 141</b>	<b>SEALING FOAM</b>	<b>page 162</b>	<b>GUTTER</b>	<b>page 175</b>	<b>ALPHA</b>	<b>page 182</b>
BLACK50	D63204	SEAFOAMG	D69204	GUTTER	D75662	ALPHAOUT	D67452
BLACK4040	D63206	<b>TILE FOAM</b>	<b>page 163</b>	<b>SNOW STOP</b>	<b>page 175</b>	ALPHAIN	D67454
<b>CONNECT BAND</b>	<b>page 142</b>	TILEFOAM	D69205	SNOWRED1	D75822	<b>CUTTER</b>	<b>page 183</b>
CONNECT100	D67262	<b>UNIVERSAL GEL</b>	<b>page 164</b>	SNOWBRO1	D75824	CUTTER	
CONNECT250	D67264	UNIGEL	D69602	SNOWRED2	D75842	CUT60	
<b>LEVEL BAND</b>	<b>page 143</b>	<b>FLY SOFT</b>	<b>page 165</b>	SNOWBRO2	D75844	<b>CUTTER SET</b>	<b>page 183</b>
LEVEL125	D67272	FLYSOFT		<b>BIRD COMB EVO</b>	<b>page 176</b>	CUTSET	
LEVEL350	D67274	FLYSOFT2		BIRDERED70	D73222	<b>MARLIN</b>	<b>page 183</b>
<b>TIE-BEAM STRIPE</b>	<b>page 144</b>	FLYSOFT3		BIRDEBRO70	D73224	MARLIN	
TIEBEAM71	D67644	<b>FLY 400/401</b>	<b>page 165</b>	BIRDERED110	D73242	MARBLA	
<b>CONSTRUCTION SEALING</b>	<b>page 145</b>	FLY400		BIRDEBRO110	D73244	<b>BRUSH</b>	<b>page 184</b>
CONSTRU46	D63482	FLY401		BIRDERED7025	D73322	BRS560	
<b>GIPS BAND</b>	<b>page 146</b>	<b>FLY FOAM</b>	<b>page 165</b>	BIRDERED11025	D73342	BRS414	
GIPSBAND50	D67464	FLYFOAM		<b>BIRD COMB</b>	<b>page 177</b>	BRS625	
<b>NAIL BAND</b>	<b>page 147</b>	<b>FOAM CLEANER</b>	<b>page 165</b>	BIRDRED60	D73422	<b>ROLLER</b>	<b>page 184</b>
NAILBAND50	D62102	FLYCLEAN		BIRDBRO60	D73424	RLL40	
<b>NAIL PLASTER</b>	<b>page 148</b>	<b>CHAPTER 6 ACCESSORIES</b>		BIRDRED100	D73442	RLL45	
NAILPLA350	D62202	<b>NET ROLL</b>	<b>page 168</b>	BIRDBRO100	D73444	<b>STAPLER HAMMER</b>	<b>page 184</b>
NAILPLA35050	D62208	NETRED310	D71222	<b>BIRD SPIKE</b>	<b>page 177</b>	HH735347	
NAILPLA550	D63212	NETBRO310	D71224	BIRD SPIKE	D75228	HH735322	
<b>GEMINI</b>	<b>page 149</b>	NETRED390	D71242	<b>VENT MESH</b>	<b>page 177</b>	<b>ISULGUN</b>	<b>page 185</b>
GEMINI80	D62302	NETBRO390	D71244	VENT80	D73602	RTKBS130A	
GEMINI60	D62303	NETRED39020	D71262	VENT100	D73612	RTKBS160A	
<b>CHAPTER 5 SEALANTS</b>		NETBRO39020	D71264	VENT120	D73604	<b>ISULCLIP</b>	<b>page 185</b>
<b>PRIMER</b>	<b>page 154</b>	<b>ORION ROLL</b>	<b>page 169</b>	VENT160	D73606	HH10005226	
PRIMER	D69702	ORIONRED380	D71362	<b>THERMOWASHER</b>	<b>page 178</b>	HH10004901	
<b>PRIMER SPRAY</b>	<b>page 155</b>	ORIONBRO380	D71364	THERM065	D78202	HH10005227	
PRIMERSPRAY	D69703	<b>STANDARD ROLL</b>	<b>page 170</b>	<b>ISULFIX</b>	<b>page 179</b>	HH10005274	
<b>SUPERB GLUE</b>	<b>page 156</b>	STANDRED390	D71272	ISULFIX8110	D78404	HH10005276	
SUPGLUE310	D69532	STANDBRO390	D71274	ISULFIX8150	D78406	HH10005277	
SUPGLUE600	D69534	<b>PEAK HOOK</b>	<b>page 170</b>	ISULFIX8190	D78408	<b>LIZARD</b>	<b>page 185</b>
<b>MEMBRANE GLUE</b>	<b>page 157</b>	PEAKHOOKRED	D75922	ISULFIX90	D78414	LIZARD	
MEMGLUE310	D69522	PEAKHOOKBRO	D75944	<b>MANICA</b>	<b>page 180</b>		
MEMGLUE600	D69524	<b>PEAK VENT</b>	<b>page 171</b>	MANSINGLE1	D66221		
		PEAKVENT380	D71422	MANSINGLE2	D66222		
		<b>SUPPORT</b>	<b>page 172</b>	MANSINGLE3	D66223		
		SUPPORTNAIL	D71501	MANSINGLE4	D66224		
		SUPPORTUNI	D71504	MANSINGLE5	D66225		
				MANSINGLE6	D66226		
				MANMULTI1	D66252		
				<b>MANICA PLASTER</b>	<b>page 181</b>		
				MANPLASTER1	D66352		

# CODES

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ALUBUTYL75	D52632	131	FLYSOFT	FLYSOFT	165	ORIONRED380	D71362	169	TIEBEAM71	D67644	144
ALURBRO300	D71744	173	FLYSOFT2	FLYSOFT2	165	OUTGLUE310	D69542	158	TILEFOAM	D69205	163
ALURRED150	D71722	173	FLYSOFT3	FLYSOFT3	165	OUTGLUE600	D69544	158	TSUN150	D42632	53
ALURRED300	D71742	173	FRAME2054	D67413	135	PEAKHOOKBRO	D75944	170	TTEVO340	D24854	68
BAR100	D32102	30	FRAME2074	D67416	135	PEAKHOOKRED	D75922	170	TTMET580	D42786	74
BAR10040	D32108	30	FRONTUV75	D52334	123	PEAKVENT380	D71422	171	TTT150	D23504	54
BAR40	D32202	29	FROST75	D52414	119	PLASTIN12138	D67433	132	TTT150R	D23604	54
BARALU15028B	D32109	31	GASKET	D75268	174	PLASTIN12188	D67434	132	TTT170	D23804	55
BARALU200	D34202	31	GEMINI60	D62303	149	PLASTIN1263	D67431	132	TTT190	D24204	60
BIRDBRO100	D73444	177	GEMINI80	D62302	149	PLASTIN1288	D67432	132	TTT205	D24404	61
BIRDBRO60	D73424	177	GIPSBAND50	D67464	146	PLASTOUT12138	D67443	133	TTT270	D24804	65
BIRDEBRO110	D73244	176	GROUND1000	D67242	140	PLASTOUT12188	D67444	133	TTTEVO160	D42504	56
BIRDEBRO70	D73224	176	GROUND1000H	D67255	140	PLASTOUT1263	D67441	133	TTTEVO180	D28304	58
BIRDERED110	D73242	176	GROUND200	D67253	140	PLASTOUT1288	D67442	133	TTTEVO220	D42514	62
BIRDERED11025	D73342	176	GROUND500	D67254	140	PRIMER	D69702	154	TTTEVO300	D42524	66
BIRDERED70	D73222	176	GUTTER	D75662	175	PRIMERSPRAY	D69703	155	TTTSUN200	D42654	64
BIRDERED7025	D73322	176	HERFOAM	D69202	161	PROTECT330	D67222	138	TTTUV210	D42454	80
BIRDRED100	D73442	177	HH735322	HH735322	184	PROTECT500	D67225	138	TUBESTOP20	D66622	182
BIRDRED60	D73422	177	HH735347	HH735347	184	RADON350	D45205	98	TUBESTOP25	D66623	182
BIRDSPIKE	D75228	177	ISULFIX8110	D78404	179	RADONEVO1200	D45215	100	TUBESTOP32	D66624	182
BLACK4040	D63206	141	ISULFIX8150	D78406	179	RL40	RL40	184	TUV210	D42442	79
BLACK50	D63204	141	ISULFIX8190	D78408	179	RL45	RL45	184	TUV21030	D42448	79
BRS414	BRS414	184	ISULFIX90	D78414	179	SEAF0AMG	D69204	162	UNIGEL	D69602	164
BRS560	BRS560	184	KOMPRI1010	D63512	136	SEAL1248	D52212	124	V110	D11802	36
BRS625	BRS625	184	KOMPRI1015	D63514	136	SEAL180	D52220	125	V140	D13302	37
BUTYLBAND1501	D63414	159	KOMPRI2015	D63532	136	SEAL3030	D52214	124	V150	D13602	38
BUTYLBAND1502	D63434	159	KOMPRI3015	D63552	136	SEAL60	D52211	124	V180	D14202	44
BYT1100	D36602	89	KOMPRI4520	D63572	136	SNOWBRO1	D75824	175	V225	D14602	45
BYT400	D36202	87	LEVEL125	D67272	143	SNOWBRO2	D75844	175	VALLEY600	D75262	174
BYTBAND240	D67232	139	LEVEL350	D67274	143	SNOWRED1	D75822	175	VENT100	D73612	177
BYTBAND370	D67233	139	LIZARD	LIZARD	185	SNOWRED2	D75842	175	VENT120	D73604	177
BYTBASE3000	D38424	90	MANMULT1	D66252	180	SPEEDY60	D52124	118	VENT160	D73606	177
BYTL	D38622	94	MANPLASTER1	D66352	181	STANDBRO390	D71274	170	VENT80	D73602	177
BYTR	D38627	94	MANPOST1	D66423	181	STANDRED390	D71272	170	VTT150	D13604	38
BYTSGRA3500	D38242	91	MANPOST2	D66424	181	SUN75	D52514	121	VTT180	D14204	44
BYTSGRE3500	D38246	91	MANPOST3	D66435	181	SUPGLUE310	D69532	156	VTT225	D14604	45
BYTSRED3500	D38244	91	MANSINGLE1	D66221	180	SUPGLUE600	D69534	156	VTTEVO160	D18404	40
BYTT750	D36404	88	MANSINGLE2	D66222	180	SUPPORTNAIL	D71504	172	VV100	D11202	34
CLIMA80	D15402	32	MANSINGLE3	D66223	180	SUPPORTUNI	D71501	172	VV120	D11502	35
CLIMATT160	D15412	42	MANSINGLE4	D66224	180	SUPRA10	D63628	129	VV12030	D11508	35
COLORGLUE	D69552	82	MANSINGLE5	D66225	180	SUPRA6	D63627	129	WELDBOTBRUSH	D78420	70
CONNECT100	D67262	142	MANSINGLE6	D66226	180	T110	D21502	50	WELDBRUSH	D78422	70
CONNECT250	D67264	142	MARBLA	MARBLA	183	T11530	D21808	51	WELDLIQUID	D78421	70
CONSTRU46	D63482	145	MARLIN	MARLIN	183	T135	D23302	52	WELDPIPE	D78424	70
CUT60	CUT60	183	MEMGLUE310	D69522	157	T150	D23502	54	WELDSTRIPE300	D78423	70
CUTSET	CUTSET	183	MEMGLUE600	D69524	157	T15030	D23508	54			
CUTTER	CUTTER	183	MULTI75	D52314	120	T150R	D23602	54			
DOUBLE40	D52712	128	NAILBAND50	D62102	147	T170	D23802	55			
EASY50	D52146	117	NAILPLA350	D62202	148	T190	D24202	60			
EASY60	D52145	117	NAILPLA35050	D62208	148	T205	D24402	61			
FACADEUV60	D52344	122	NAILPLA550	D63212	148	T270	D24802	65			
FLEXI100	D52116	116	NETBRO310	D71224	168	T75	D21102	47			
FLEXI5050	D52118	116	NETBRO390	D71244	168	TERMI150	D45308	102			
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# FORMER CODES

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BRS625	BRS625	184	D42562	TEVO360	70	D66622	TUBESTOP20	182	D73222	BIRDRED70	176
CUT60	CUT60	183	D42568	TEVO36030	70	D66623	TUBESTOP25	182	D73224	BIRDEBRO70	176
CUTSET	CUTSET	183	D42632	TSUN150	53	D66624	TUBESTOP32	182	D73242	BIRDRED110	176
CUTTER	CUTTER	183	D42654	TTTUN200	64	D67222	PROTECT330	138	D73244	BIRDEBRO110	176
D11202	VV100	34	D42772	3DNET	74	D67225	PROTECT500	138	D73322	BIRDRED7025	176
D11502	VV120	35	D42786	TTMET580	74	D67232	BYTBAND240	139	D73342	BIRDRED11025	176
D11508	VV12030	35	D45205	RADON350	98	D67233	BYTBAND370	139	D73422	BIRDRED60	177
D11802	V110	36	D45215	RADONEVO1200	100	D67242	GROUND1000	140	D73424	BIRDBRO60	177
D13302	V140	37	D45307	TERMI75	102	D67253	GROUND200	140	D73442	BIRDRED100	177
D13602	V150	38	D45308	TERMI150	102	D67254	GROUND500	140	D73444	BIRDBRO100	177
D13604	VTT150	38	D52114	FLEXI60	116	D67255	GROUND1000H	140	D73602	VENT80	177
D14202	V180	44	D52116	FLEXI100	116	D67262	CONNECT100	142	D73604	VENT120	177
D14204	VTT180	44	D52117	FLEXI7575	116	D67264	CONNECT250	142	D73606	VENT160	177
D14602	V225	45	D52118	FLEXI5050	116	D67272	LEVEL125	143	D73612	VENT100	177
D14604	VTT225	45	D52124	SPEEDY60	118	D67274	LEVEL350	143	D75228	BIRDSPIKE	177
D15402	CLIMA80	32	D52145	EASY60	117	D67413	FRAME2054	135	D75262	VALLEY600	174
D15412	CLIMATT160	42	D52146	EASY50	117	D67416	FRAME2074	135	D75268	GASKET	174
D18404	VTTTEVO160	40	D52211	SEAL60	124	D67431	PLASTIN1263	132	D75662	GUTTER	175
D21102	T75	47	D52212	SEAL1248	124	D67432	PLASTIN1288	132	D75822	SNOWRED1	175
D21502	T110	50	D52214	SEAL3030	124	D67433	PLASTIN12138	132	D75824	SNOWBRO1	175
D21808	T11530	51	D52220	SEAL180	125	D67434	PLASTIN12188	132	D75842	SNOWRED2	175
D23302	T135	52	D52314	MULTI75	120	D67441	PLASTOUT1263	133	D75844	SNOWBRO2	175
D23502	T150	54	D52334	FRONTUV75	123	D67442	PLASTOUT1288	133	D75922	PEAKHOOKRED	170
D23504	TTT150	54	D52344	FACADEUV60	122	D67443	PLASTOUT12138	133	D75944	PEAKHOOKBRO	170
D23508	T15030	54	D52414	FROST75	119	D67444	PLASTOUT12188	133	D78202	THERMO65	178
D23602	T150R	54	D52514	SUN75	121	D67452	ALPHAOUT	182	D78404	ISULFIX8110	179
D23604	TTT150R	54	D52622	ALUBAND75	130	D67454	ALPHAIN	182	D78406	ISULFIX8150	179
D23802	T170	55	D52632	ALUBUTYL75	131	D67464	GIPSBAND50	146	D78408	ISULFIX8190	179
D23804	TTT170	55	D52633	ALUBUTYL150	131	D67644	TIEBEAM71	144	D78414	ISULFIX90	179
D24202	T190	60	D52712	DOUBLE40	128	D69202	HERFOAM	161	D78420	WELDBOTBRUSH	70
D24204	TTT190	60	D62102	NAILBAND50	147	D69204	SEAFOAMG	162	D78421	WELDLIQUID	70
D24402	T205	61	D62202	NAILPLA350	148	D69205	TILEFOAM	163	D78422	WELDBRUSH	70
D24404	TTT205	61	D62208	NAILPLA35050	148	D69522	MEMGLUE310	157	D78423	WELDSTRIPE300	70
D24802	T270	65	D62302	GEMINI80	149	D69524	MEMGLUE600	157	D78424	WELDPIPE	70
D24804	TTT270	65	D62303	GEMINI60	149	D69532	SUPGLUE310	156	FLY400	FLY400	165
D24854	TTEVO340	68	D63204	BLACK50	141	D69534	SUPGLUE600	156	FLY401	FLY401	165
D28304	TTTEVO180	58	D63206	BLACK4040	141	D69542	OUTGLUE310	158	FLYCLEAN	FLYCLEAN	165
D32102	BAR100	30	D63212	NAILPLA550	148	D69544	OUTGLUE600	158	FLYFOAM	FLYFOAM	165
D32108	BAR10040	30	D63414	BUTYLBAND1501	159	D69552	COLORGLUE	82	FLYSOFT	FLYSOFT	165
D32109	BARALU15028B	31	D63434	BUTYLBAND1502	159	D69602	UNIGEL	164	FLYSOFT2	FLYSOFT2	165
D32202	BAR40	29	D63482	CONSTRU46	145	D69702	PRIMER	154	FLYSOFT3	FLYSOFT3	165
D34202	BARALU200	31	D63512	KOMPRI1010	136	D69703	PRIMERSPRAY	155	HH735322	HH735322	184
D36202	BYT400	87	D63514	KOMPRI1015	136	D71222	NETRED310	168	HH735347	HH735347	184
D36404	BYTT750	88	D63532	KOMPRI2015	136	D71224	NETBRO310	168	LIZARD	LIZARD	185
D36602	BYT1100	89	D63552	KOMPRI3015	136	D71242	NETRED390	168	MARBLA	MARBLA	183
D38242	BYTSGRA3500	91	D63572	KOMPRI4520	136	D71244	NETBRO390	168	MARLIN	MARLIN	183
D38244	BYTSRED3500	91	D63627	SUPRA6	129	D71262	NETRED39020	168	RL40	RL40	184
D38246	BYTSGRE3500	91	D63628	SUPRA10	129	D71264	NETBRO39020	168	RL45	RL45	184
D38424	BYTBASE3000	90	D66221	MANSINGLE1	180	D71272	STANDRED390	170			
D38622	BYTL	94	D66222	MANSINGLE2	180	D71274	STANDBRO390	170			
D38627	BYTR	94	D66223	MANSINGLE3	180	D71362	ORIONRED380	169			
D42402	TEVO90B	48	D66224	MANSINGLE4	180	D71364	ORIONBRO380	169			
D42407	TEVO9030B	48	D66225	MANSINGLE5	180	D71422	PEAKVENT380	171			
D42442	TUV210	79	D66226	MANSINGLE6	180	D71501	SUPPORTUNI	172			
D42448	TUV21030	79	D66252	MANMULTI1	180	D71504	SUPPORTNAIL	172			
D42454	TTTUV210	80	D66352	MANPLASTER1	181	D71722	ALURRED150	173			
D42504	TTTEVO160	56	D66423	MANPOST1	181						





# 1

## STOPS AND BARRIERS

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VAPOUR STOP BARRIERS ■ VARIABLE DIFFUSION MEMBRANES  
VAPOUR STOP MEMBRANES

# 2

## BREATHABLE

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BREATHABLE MEMBRANES FOR WALLS AND ROOFS  
BREATHABLE MEMBRANES FOR SHEET METAL ROOFS ■ BREATHABLE MEMBRANES FOR FACADES

# 3

## MEMBRANES

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BITUMINOUS VAPOUR BARRIERS ■ SELF-ADHESIVE BITUMINOUS MEMBRANES  
WATERPROOFING SHEATHS FOR FOUNDATIONS

# 4

## TAPES AND PROFILES

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ACRYLIC TAPES ■ BUTYL TAPES ■ EXPANDING TAPES ■ BITUMINOUS STRIPS  
EPDM PROFILES ■ POLYETHYLENE GASKETS

# 5

## SEALANTS

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UNIVERSAL PRIMERS ■ ADHESIVE GLUES ■ SEALING FOAMS ■ SEALANT GUNS

# 6

## ACCESSORIES

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VENTILATED UNDER-RIDGES ■ RIGID UNDER-RIDGES ■ ROOF ACCESSORIES ■ INSULATION FIXING  
MISC. EQUIPMENT

## INSTALLATION INSTRUCTIONS

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## LEGEND

### CERTIFICATES



CE marking



compliance with national standards



national certifications

### TECHNICAL SUPPORT



Thermal myProject software available at [www.rothoblaas.com](http://www.rothoblaas.com)

### ROLL DIMENSIONS

3,0m

membranes available in 3.0 m roll

4,0m

membranes available in 4.0 m roll

2,8m

membranes available in 2.8 m roll

### APPLICATIONS



external roof



internal roof



external walls



internal walls



external roof and walls



internal roof and walls



external roof, walls and attachment to the ground



internal roof, walls and attachment to the ground



external attachment to the ground



internal attachment to the ground



external roof and attachment to the ground



not for external use

### STORAGE INSTRUCTIONS

All the products found in this catalogue must be stored away from heat sources and direct sunlight.

**rothoblaas**

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