

# TAPES, SEALANTS AND MEMBRANES

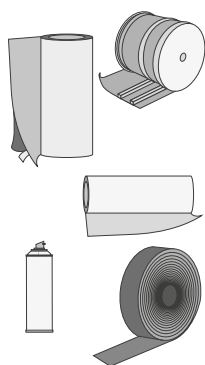
AIRTIGHTNESS, WIND TIGHTNESS  
AND WATERPROOFING



**rothoblaas**

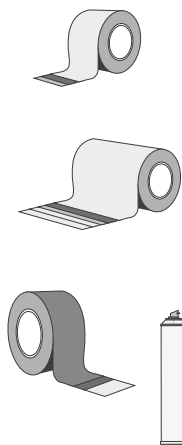
Solutions for Building Technology

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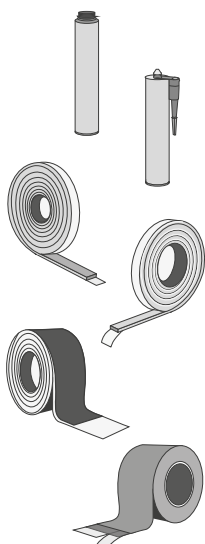
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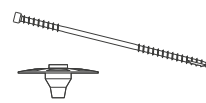
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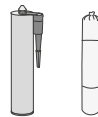
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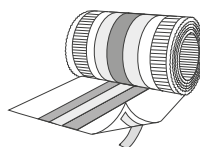
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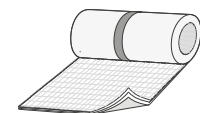
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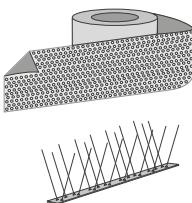
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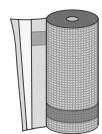
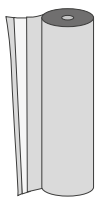
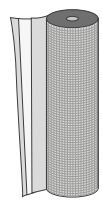
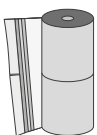
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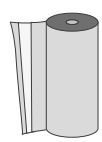
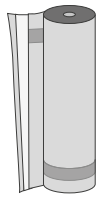
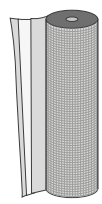
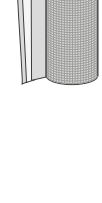
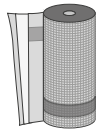
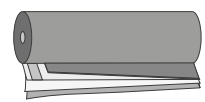


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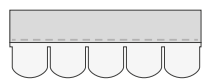
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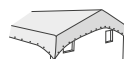
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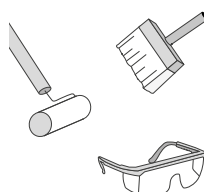
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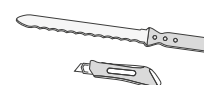
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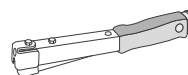
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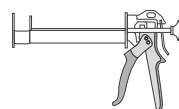
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# RESEARCH & DEVELOPMENT

## LABORATORY TESTING AND EXPERIMENTAL CAMPAIGNS

### ROTHOBLAAS LABORATORY

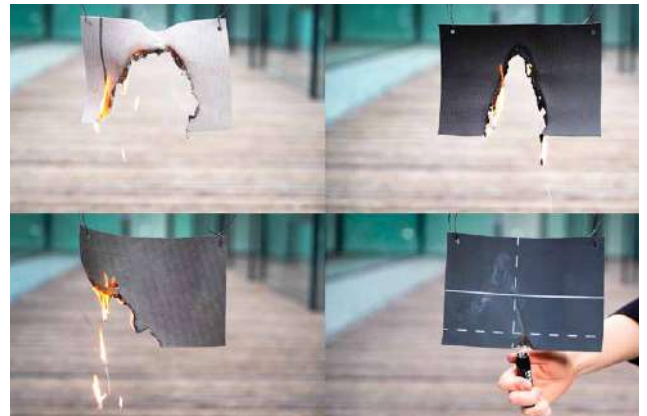
Our innovative laboratory is located within our headquarters and it allows us to test our products. We have all the necessary equipment to test our solutions under the most extreme conditions: high-temperature test ovens, UV-accelerated ageing test chambers, low-temperature test chambers, abrasimeters and outdoor spaces for weathering.



With the Martindale test we investigate our membranes wear, tear and pilling resistance. With ovens and low-temperature chambers we test the behaviour of our products when exposed to extreme temperatures.

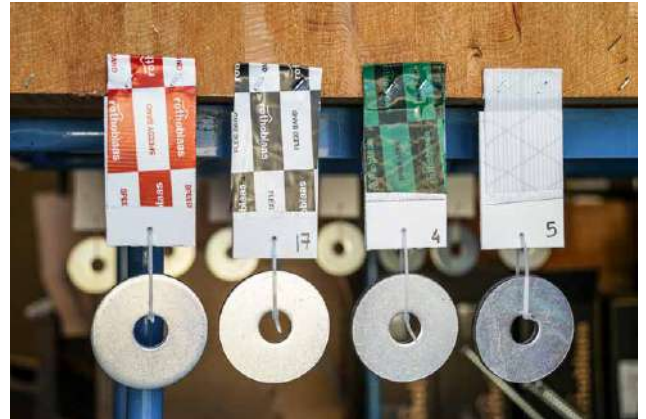


Exposure to outdoor environments makes it possible to test weathering resistance, under the synergistic effect of UV, humidity, heat and rain.



Experimental tests to investigate the water penetration resistance and fire behaviour of the membranes.





Test campaign on the cohesion and adhesion performance of acrylic adhesive tapes on different substrates.



Performance analysis of polyurethane sealing foams.



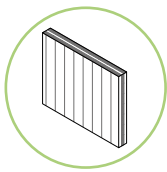
Test campaign to evaluate the adhesion, cohesion and elasticity of different glues and sealants.

# QUALITY BUILDING

Modern construction is increasingly based on the use of quality materials and state-of-the-art building techniques that reduce the energy impact of the building without disregarding housing comfort and aesthetics.

## REDUCING ENERGY CONSUMPTION

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



### MATERIALS

Each material influences the acoustic performance, thermal inertia and thermo-hygrometric regulation of the building



### QUALITY OF ENVIRONMENTS

A healthy place to live has good air quality and protects against humidity, noise, radon gas and pollutants in general



### VENTILATION

If there is no adequate ventilation, indoor air quality tends to deteriorate, as a consequence of the presence and accumulation of pollutants



### THERMAL PERFORMANCE OF THE BUILDING CASING

To avoid energy wastage, the building must be insulated, thermal bridges must be minimised and air and wind tightness must be guaranteed



### LOCATION

The design must be adapted to the climate and location to take into account minimum and maximum temperature, humidity, amount of natural lighting, etc.



### RENEWABLE SOURCES

Give preference to the consumption of primary energy from renewable sources, limiting the use of energy from fossil fuels

## INSPECTION TOOLS

In order to verify and document the real performance of the building, it is possible to carry out some non-destructive analyses that allow the identification and consequently the correction of possible installation errors.

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 lower the value of  $n_{50}$ , the better the energy performance, because there will be less uncontrolled air leakage that worsens the thermal performance of the building.

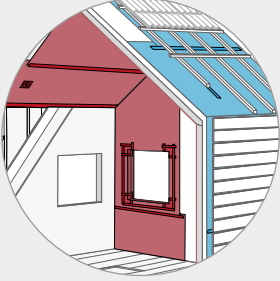
The **thermal imaging camera**, on the other hand, uses infrared radiation to detect, in real time, points with different temperatures and therefore heat losses due to insulation errors, thermal bridges, air leaks and dampness in the walls.



## ATTENTION TO DETAILS

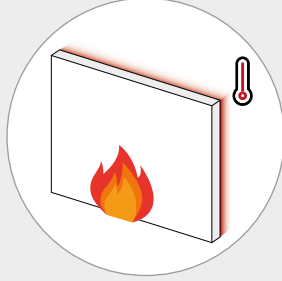
The **durability** of timber structures is closely linked to their correct design and construction.

### AIR AND WIND TIGHTNESS



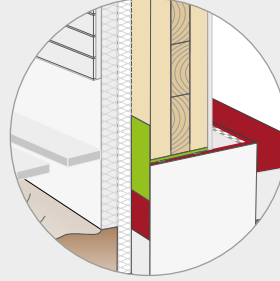
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### STRUCTURES AND FIRE BEHAVIOUR



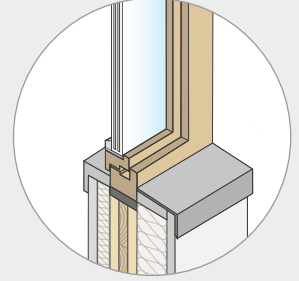
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### CONNECTION TO THE GROUND



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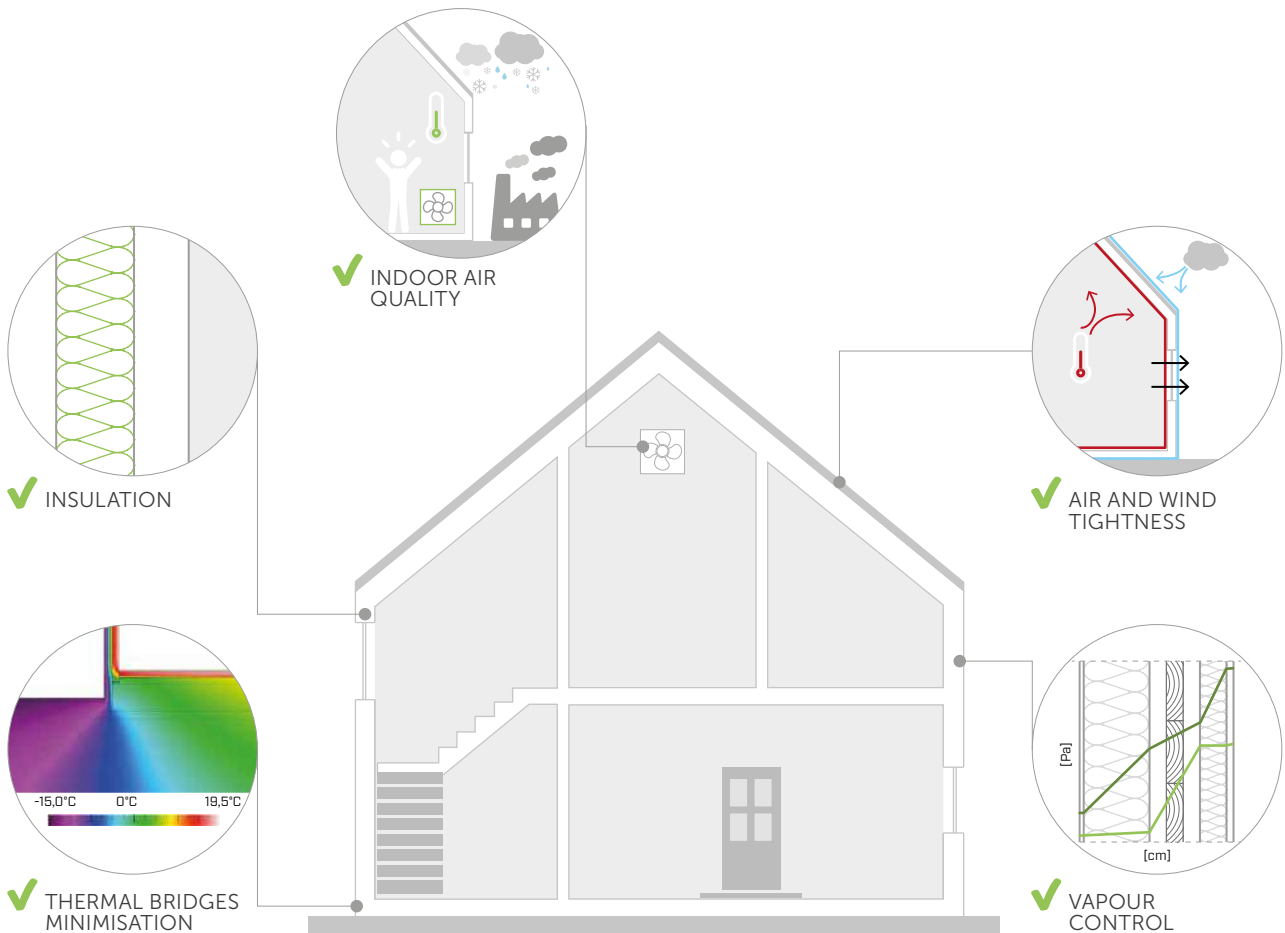
### DOORS, WINDOWS AND STRUCTURE



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## THERMAL PERFORMANCE OF THE BUILDING CASING

To ensure excellent housing comfort and superior performance, a building must meet very strict energy criteria, which can only be achieved through careful design of all construction details.



# 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.

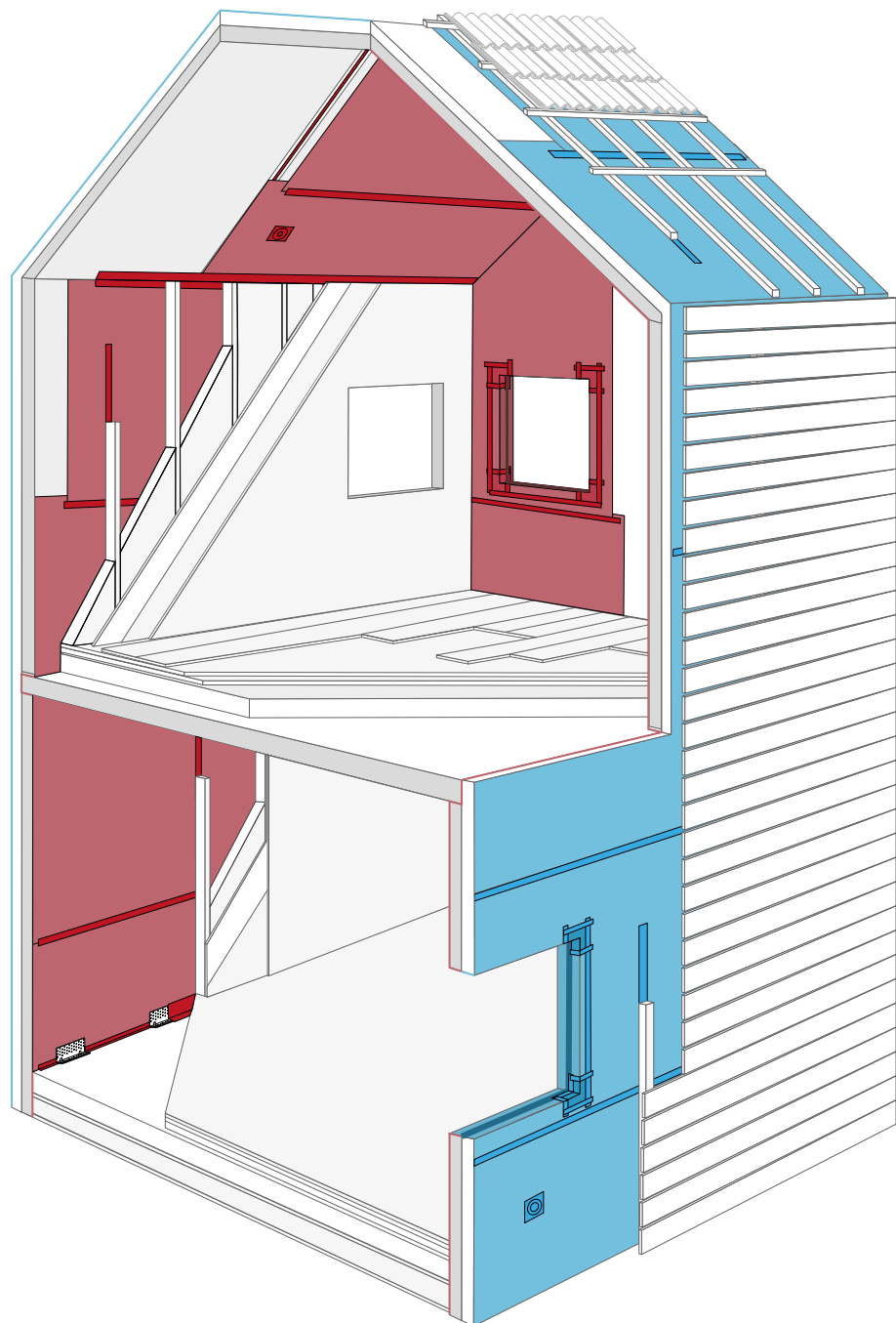
The wind tightness layer does not replace the airtightness layer, but its purpose is to protect the insulation layer from wind, rain and weather, preventing cold air and water from reducing the performance of the insulation layer.

## AIRTIGHTNESS

- ✓ Prevents heat loss in winter
- ✓ Prevents the entry of hot, humid air in summer
- ✓ Optimises the operation of controlled mechanical ventilation
- ✓ Prevents the uncontrolled passage of warm, moist air and the consequent risk of interstitial condensation
- ✓ Avoids discomfort due to draughts
- ✓ Improves acoustic comfort

## WIND TIGHTNESS

- ✓ Ensures the thermal efficiency of the insulation layer
- ✓ Protects the casing and improves the durability of materials
- ✓ Avoids the formation of currents and convective motions within the casing
- ✓ Serves as a temporary protective layer during construction phases
- ✓ Acts as a temporary protective layer in the event of cracks and dislocation of the roof layer or façade cladding





# CLIMATE AND CONSTRUCTION SYSTEMS

In order to ensure optimal performance of the building casing, the processes of heat, vapour, air and wind transport that occur within the different components must be studied and controlled. Usually, in cold climates and during the winter months there are problems with excessive humidity inside buildings due to poor ventilation. The vapour produced in closed rooms penetrates the walls and may condense in contact with cold interstitial layers, beams or cladding. In contrast, in hot and humid climates the source of vapour that leads to mould growth is the outside air. Humidity that is drawn in with the outside air may condense near the interior surfaces, which are cooler with air conditioning.

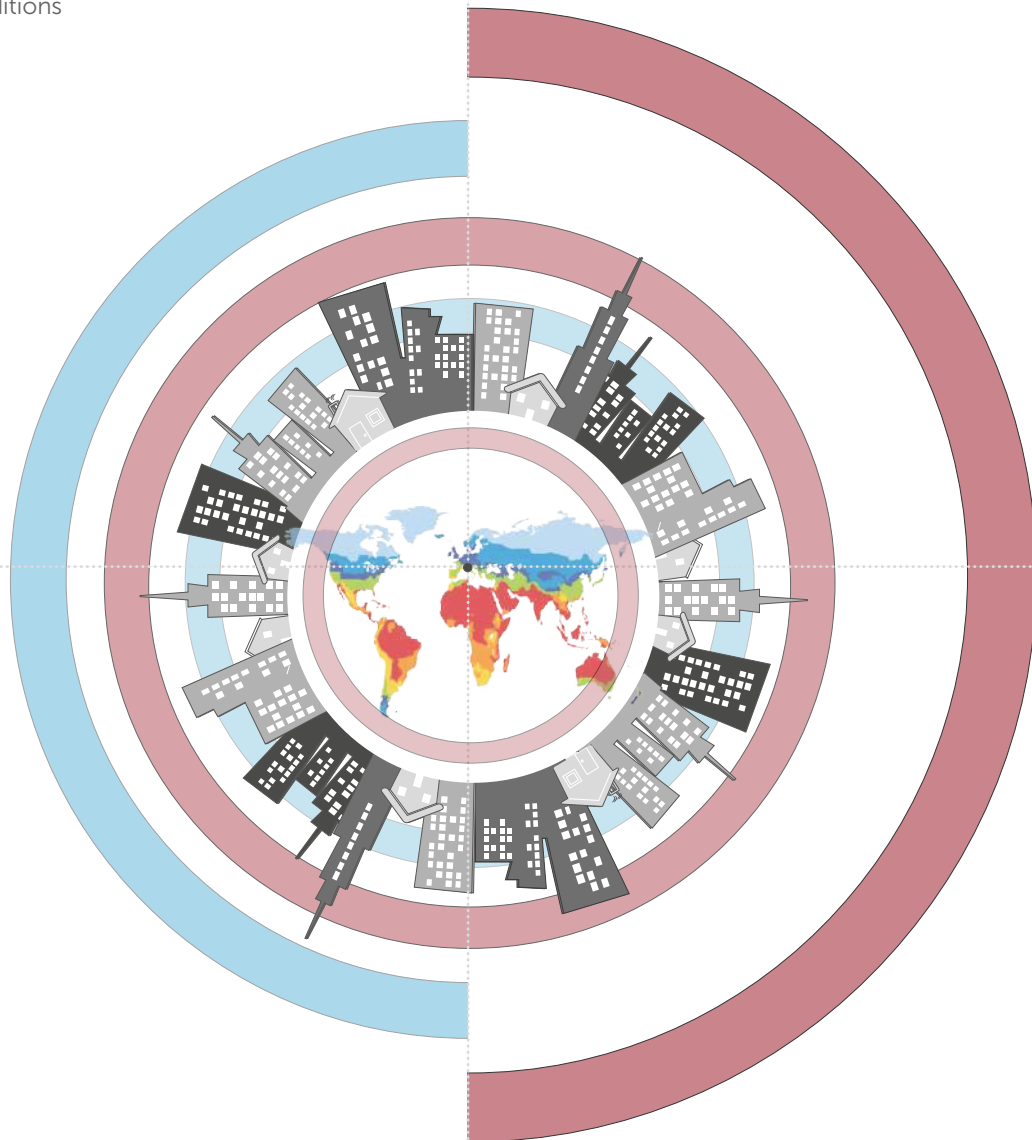
Rothoblaas, in cooperation with other research institutes, has sponsored several projects aimed at studying the behaviour of building solutions exposed to different climatic conditions through laboratory tests and dynamic simulations.

## CASE STUDY ANALYSIS ACCORDING TO PASSIVE STANDARDS

- 4 construction nodes
- 2 climatic conditions

## STUDY ACCORDING TO PASSIVE STANDARD CONSTRUCTION DETAILS

download construction details at [www.rothoblaas.com](http://www.rothoblaas.com)



## FLAT ROOF WITH CLIMA CONTROL

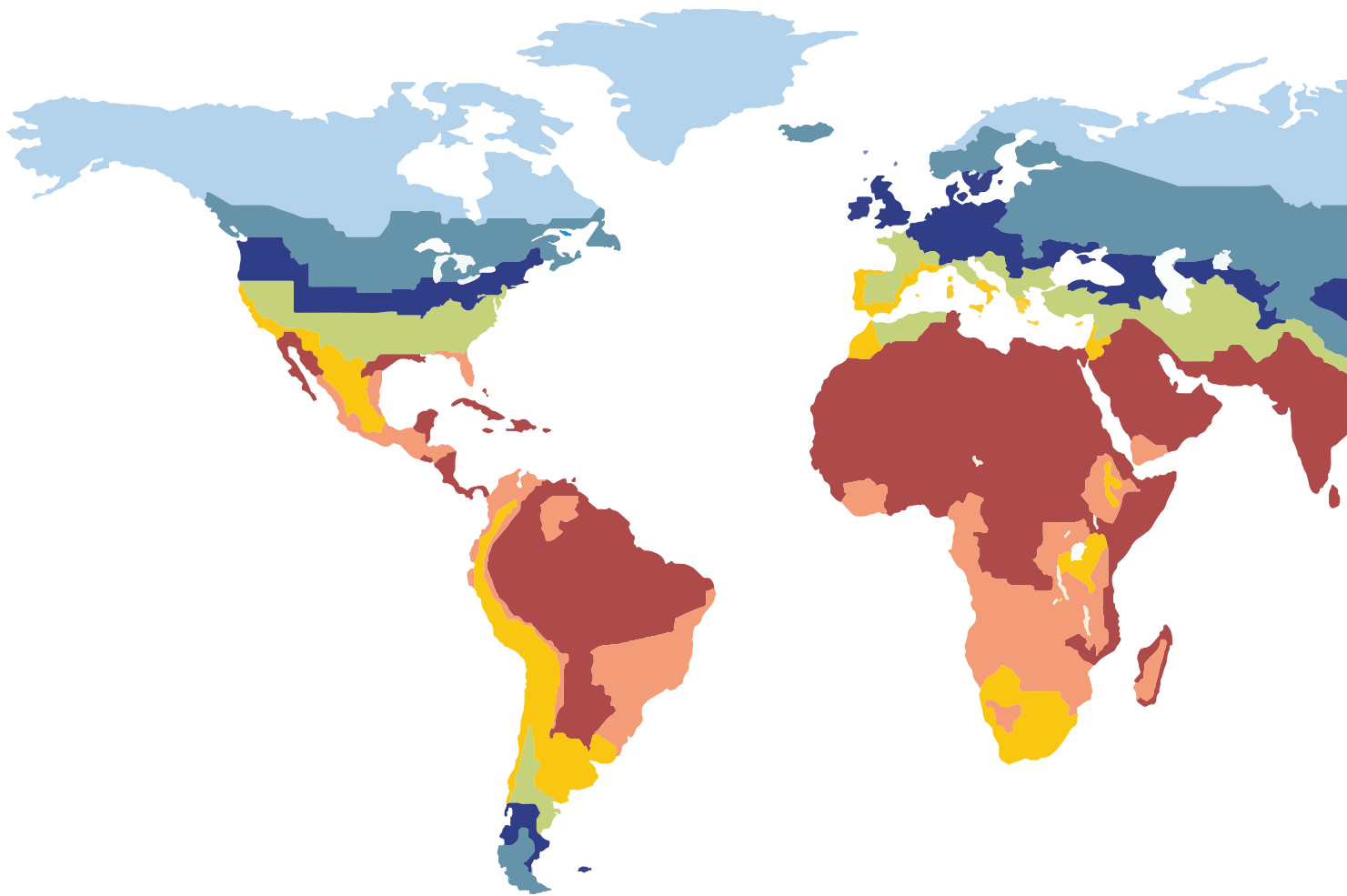
- 2 stratigrafies
- 3 climatic conditions

## WALL WITH CLIMA CONTROL

- 4 stratigrafies
- 2 climatic conditions

# CLIMATE REGIONS AND SOLUTIONS

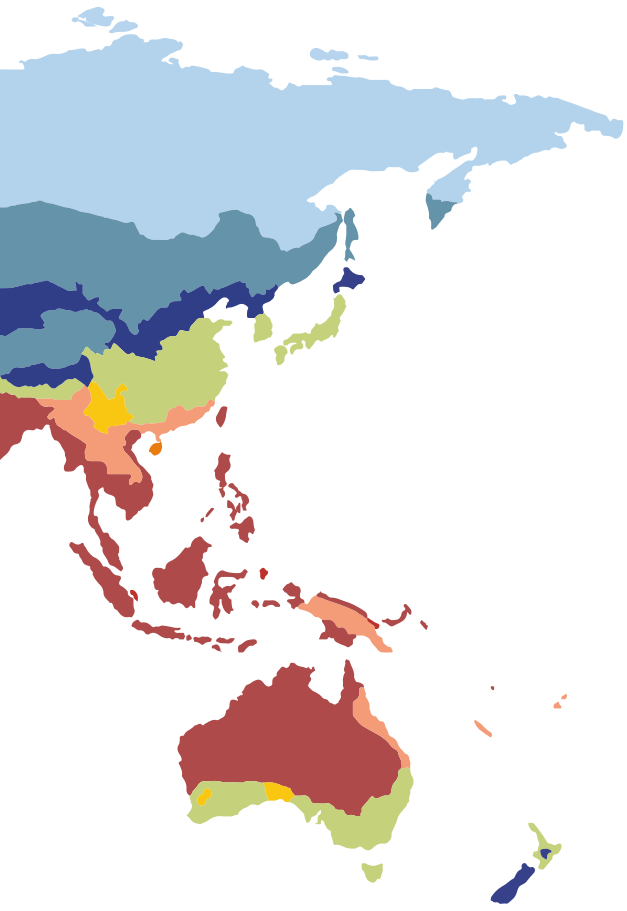
Visit our website [www.rothoblaas.com](http://www.rothoblaas.com) and find the ideal membrane for your climate region and building system! The choice of membranes to be placed inside the building casing is highly dependent on climatic conditions, for example: the vapour flow inside a layers placed in a tropical or torrid climate is the reverse of layers in an arctic or cold climate. With regard to climate regions identified by energy efficiency institutes, the following solutions are recommended. These can vary depending on the building system and the type of technical installations used. Recommended solutions must always be verified by a designer.



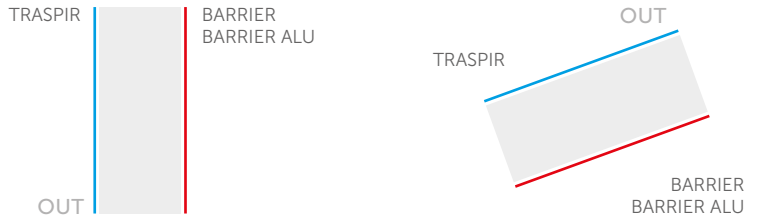
## OUR KEY PRODUCTS IN THE WUFI® SOFTWARE

The WUFI® software is used to conduct thermo-hygrometric simulations in a dynamic state. Designers who use it regularly now have the option of including top-of-the-range Rothoblaas products in the simulation, obtaining highly accurate and reliable results as they are calculated on the real product that will be used to build the structure.

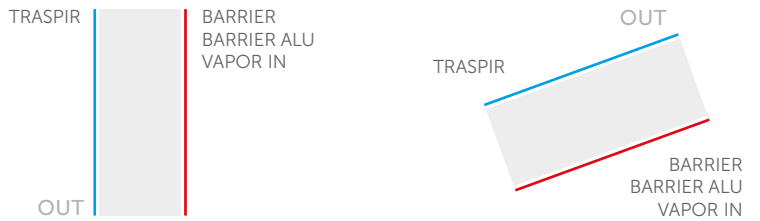




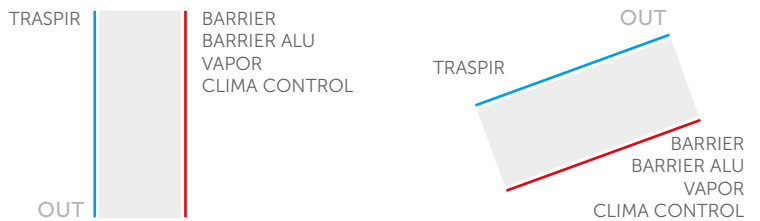
**ARCTIC CLIMATE**



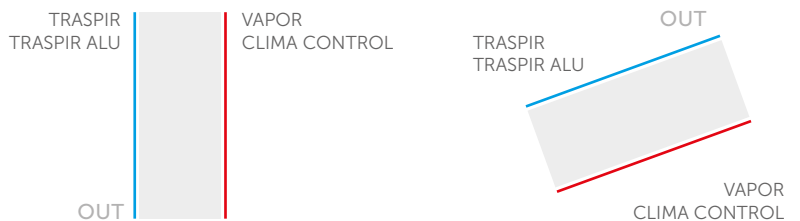
**COLD CLIMATE**



**TEMPERATE COOL CLIMATE**



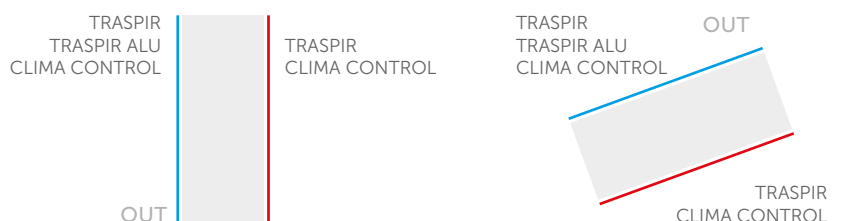
**TEMPERATE WARM CLIMATE**



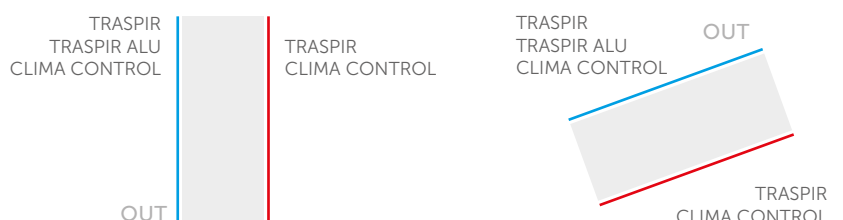
**WARM CLIMATE**



**HOT CLIMATE**



**VERY HOT CLIMATE**

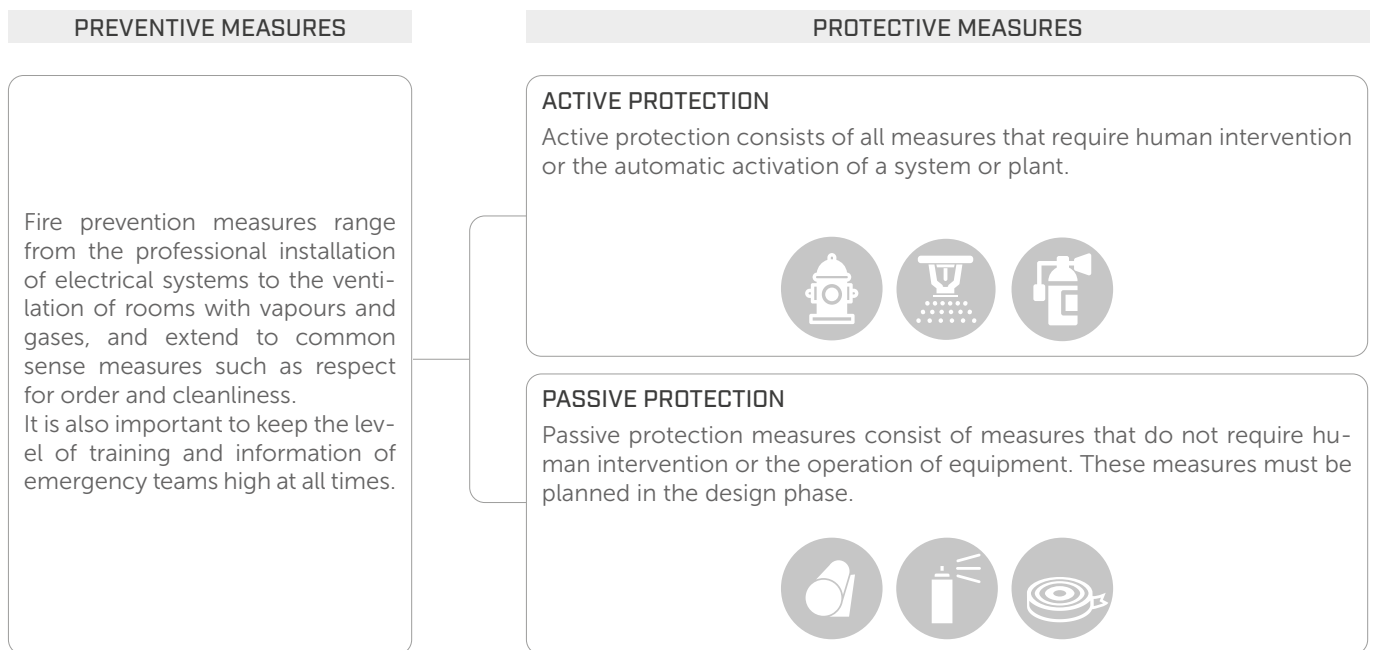


# STRUCTURES AND FIRE BEHAVIOUR

All building typologies have to consider fire safety issues, depending on the regulations in force and the intended use. This was done in order to minimise the causes of fire, ensure the stability of the structure and limit the spread of flames both inwards and towards neighbouring buildings, guaranteeing the safety of the occupants and access for rescue teams.

## WHAT IS FIRE PREVENTION

Fire prevention is the discipline that studies and puts into practice all measures aimed at preventing, reporting and reducing the probability of fire, or in any case limiting its negative effects on people and the environment. There are two types of fire prevention measures: active and passive protection.



## THE FIRE DESIGN STEPS









## REACTION TO FIRE

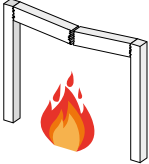
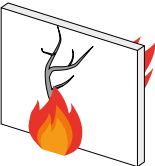
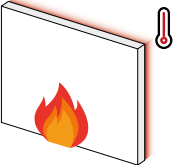
The reaction to fire class is an indicator that provides an assessment of whether or not the material contributes to fire. Different material behaviours correspond to different classes, ranging from non-combustible products to extremely flammable materials.

European classification according to EN 13501-1

	<b>class A1</b>	non-combustible products
⋮	<b>classes A2, B, C, D, E</b>	combustible products, as their participation in the fire increases
	<b>class F</b>	indicates materials with Non-Determined Performance (NDP) or that do not reach Class E
	<b>s1, s2, s3</b>	are the three values indicating the optical density of smoke
	<b>d0, d1, d2</b>	are the three values indicating the danger of dripping

## FIRE RESISTANCE

Fire resistance indicates the ability of a building element to maintain structural stability during a fire condition for a given period of time, while retaining the ability to compartmentalise smoke and hot gases generated by combustion. The primary purpose of fire resistance is to ensure the load-bearing capacity of the structure under fire conditions. The characteristics that must be maintained during the action of fire are indicated by three letters:

	<b>R</b> <b>load bearing</b>	ability of the building element to maintain structural stability under the action of fire
	<b>E</b> <b>tightness</b>	ability of the construction element not to let flames, vapours and hot gases pass through to the side not exposed to fire
	<b>I</b> <b>thermal insulation</b>	ability of the construction element to limit heat transmission to the side not exposed to fire

The fire resistance rating is expressed in minutes, during which resistance under the action of flames must be ensured: 15, 20, 30, 45, 60, 90, 120, 180, 240 and 360 minutes. The indication of minutes follows the abbreviation REI (e.g. REI120). In the case of non-load-bearing structures, where the load-bearing capacity is not significant, the R factor can be omitted and the minutes can be expressed as EI (e.g. EI90).



SUBSCRIBE



Discover the different flame reactions of our products! Watch the video on our YouTube channel



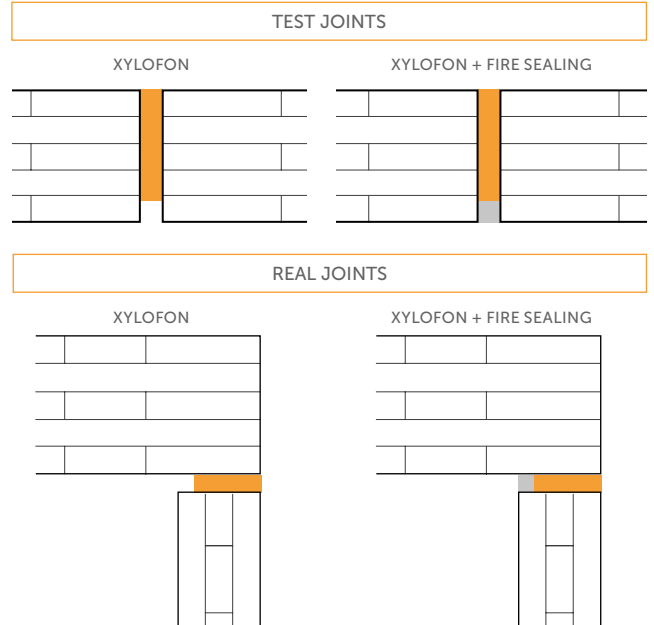
# FIRE TEST

Awareness of fire design is increasingly growing. We have carried out many tests over the years to increase our know-how in this area and will continue to do so in the future.

## SOME INVESTIGATIONS CARRIED OUT

### XYLOFON AND FIRE

We tested different setups using XYLOFON and FIRE SEALING to understand how the behaviour of certain joints changes when subjected to the action of flames and to obtain EI values related to the joints.



### FRONT BAND UV 210

We have tested many of our products and assigned each of them a fire class according to EU and non-EU standards.



### FULL-SCALE TESTING

In cooperation with RISE - Research Institutes of Sweden, we carried out full-scale tests to determine the EI value of some of the most common joints in timber construction.


































## FUTURE PROJECTS

Our next research projects will focus on studying the fire behaviour of the most common nodes in the world of timber construction in order to determine their REI value. Our aim is to study them from every point of view, taking into account both the static aspects and the airtightness, to understand how the response of the joint changes during a fire in relation to the elements present.

Keep following us on our channels to keep up to date with developments.

# FIRE SOLUTIONS

PRODUCT	DESCRIPTION		PAGE	
FRONT BAND UV 210	UNIVERSAL SINGLE-SIDED TAPE, HIGHLY RESISTANT TO UV RAYS		98	
FIRE FOAM	HIGH FIRE-RESISTANT SEALING FOAM	 	118	
FIRE SEALING ACRYLIC	HIGH FIRE-RESISTANT ACRYLIC SEALANT	 	122	
FIRE SEALING SILICONE	HIGH FIRE-RESISTANT SILICONE SEALANT	 	124	
FIRE STRIPE	INTUMESCENT THERMO-INFLATABLE FLEXIBLE GASKET		130	
BARRIER ALU NET SD1500	REFLECTIVE VAPOUR BARRIER Sd > 1500 m		214	
BARRIER ALU FIRE A2 SD2500	REFLECTIVE AIR VAPOUR BARRIER FIRE REACTION CLASS A2-s1,d0		216	
TRASPIR EVO UV 115	HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS		254	
TRASPIR EVO 160	HIGHLY BREATHABLE MONOLITHIC MEMBRANE	 	262	
TRASPIR FELT EVO UV 210	BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS		269	
TRASPIR EVO UV 210	HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS	 	270	
TRASPIR EVO 300	HIGHLY BREATHABLE MONOLITHIC MEMBRANE		282	
TRASPIR ALU FIRE A2 430	REFLECTIVE HIGHLY BREATHABLE MEMBRANE		292	





# TAPES AND SEALANTS

















## TAPES AND SEALANTS

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# NODES AND FIELD OF APPLICATION

		ALU BAND	DOUBLE BAND	SEAL BAND   SEAL SQUARE	EASY BAND	SPEEDY BAND	FLEXI BAND	FLEXI BAND UV	FACADE BAND UV	SOLID BAND	SMART BAND	PLASTER BAND	PLASTER BAND LITE	FRONT BAND UV 210	TERRA BAND	EXPAND BAND	WINDOW BAND	FRAME BAND	MEMBRANE GLUE	ECO GLUE	SUPERB GLUE	OUTSIDE GLUE	
	internal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		external		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	
STRUCTURAL NODES		foundation - wall																					
		wall - wall			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
		slab - wall			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
		beam - wall			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		girder - beam			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DOORS/WINDOWS		door / wall frame - wall			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		skylight			✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
		under-girder sealing								✓	✓	✓											
SEALINGS		sealing nail point													✓								
		sealing membranes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					✓	✓	✓	✓	
		sealing by compression														✓	✓	✓					
		sealing that can be plastered										✓	✓										
		sealing of technical installations and passages	✓		✓	✓		✓	✓	✓		✓	✓							✓	✓	✓	✓
		chimneys and vents	✓		✓	✓		✓	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓	✓

	START BAND	LEVEL BAND	GROUND BAND	RADON FLOOR	TERMI FLOOR	BYTUM BAND	PROTECT	BYTUM SPRAY	BYTUM LIQUID	FLUID MEMBRANE	CONSTRUCTION SEALING	TIE BEAM STRIPE	EASY FOAM	HERMETIC FOAM	FIRE FOAM	MS SEAL	FIRE SEALING A	FIRE SEALING S	NAIL PLASTER   GEMINI	NAIL BAND	BUTYL BAND	FIRE STRIPE	SUPRA BAND	ALU BUTYL BAND	BLACK BAND	MANICA PLASTER	MANICA FLEX	MANICA POST	TUBE STOPPER	ALPHA
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													✓	✓				
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	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			
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						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓
	✓		✓				✓																			✓				
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	✓	✓									✓	✓	✓	✓	✓				✓	✓	✓	✓	✓							
						✓	✓						✓	✓	✓	✓	✓	✓								✓				
						✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓				✓		✓		✓	✓	✓	✓	✓
						✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓					✓		✓	✓	✓	✓	✓	✓

# SUPPORTS

	ALU BAND	DOUBLE BAND	SEAL BAND   SEAL SQUARE	EASY BAND	SPEEDY BAND	FLEXI BAND	FLEXI BAND UV	FACADE BAND UV	SOLID BAND	SMART BAND	PLASTER BAND	PLASTER BAND LITE	FRONT BAND UV 210	TERRA BAND	EXPAND BAND	WINDOW BAND	FRAME BAND
membrane with top PP layer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
membrane with top PE layer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
membrane with top PA layer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
membrane with top acrylate layer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
bituminous membrane	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
membrane with top aluminised layer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
timber	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
rough OSB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
sanded OSB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
plaster, concrete and bricks	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
plasterboard and plaster fibre	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
metal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
timber fibre insulation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
mineral wool insulation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
polystyrene	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PVC and plexiglass	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●





# BUTYL PRODUCTS

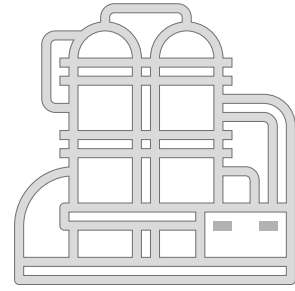
## WHAT THEY ARE MADE OF AND WHERE THEY COME FROM

Butyl products are made from compounds of butyl rubber, a high-quality synthetic material with excellent elastic, thermal and durability properties.

The butyl product is a synthetic material obtained through a polymerisation reaction of molecules (monomers) from oil refining.

Rothblaas offers: BUTYL BAND, SUPRA BAND, PROTECT, BLACK BAND, TERRA BAND UV, ALU BUTYL BAND, NAIL BAND, MANICA PLASTER, OUTSIDE GLUE, ALU FLASH CONNECT, SOFT FLASH CONNECT, MANICA ROLL.

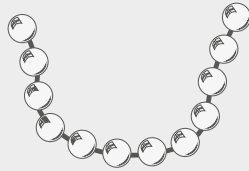
REFINING TOWER



MONOMER



MONOMERS  
+ CHEMICAL REACTION

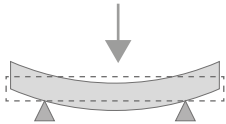


POLYMER

Polymerisation is a chemical reaction which, starting from small simple molecules (monomers), produces a much longer so-called "polymer chain" consisting of identical molecules repeated in sequence. In this way it is possible to create materials with the desired properties.

## PROPERTIES

Butyl is a material specially synthesised to achieve specific properties. It is particularly suitable for many applications in the construction industry, where adhesion, ageing resistance, stability at high temperatures and flexibility at low temperatures are key requirements. **For these reasons, a butyl product is preferable to a bituminous product.**



### FLEXIBILITY

the chemical structure of these products makes them very flexible



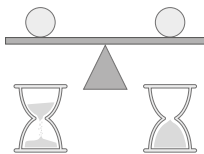
### HARDNESS

butyl products are specially designed for the desired application and do not require the addition of mineral fillers



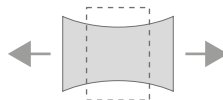
### RESISTANCE TO UV

this type of product is scarcely affected by ultraviolet radiation



### AGEING

butyl compounds are very stable over time



### ELASTICITY

butyl compounds are intrinsically elastic



### THERMAL STABILITY

butyl products are stable over a very wide temperature range: -30 +90°C

# BITUMINOUS PRODUCTS

## WHAT THEY ARE MADE OF AND WHERE THEY COME FROM

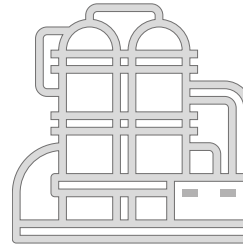
Bitumen is a mixture of different substances, which is particularly suitable for combining with other materials to improve their mechanical and thermal properties.

Bitumen itself is a solid black mass which, in the case of tapes and membranes, is mixed with inorganic fillers (calcium carbonate and silica) and polymers to obtain a mix, possibly also adhesive, with the desired properties.

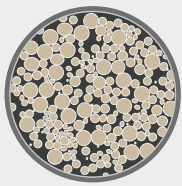
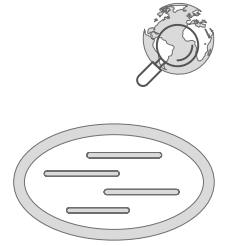
Bitumen has two origins: a natural and an artificial one. What is used industrially is artificial bitumen.

**Rothoblaas offers: BYTUM 400, BYTUM 750, BYTUM 1100, BYTUM 1500, BYTUM 2000, BYTUM BASE 2500, BYTUM SLATE 3500, SHINGLE, GROUND BAND, BYTUM BAND, BYTUM LIQUID, BYTUM SPRAY.**

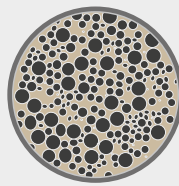
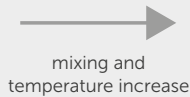
REFINING TOWER



NATURAL ASPHALT LAKE



BITUMEN + OILS + POLYMERS  
+ MINERAL FILLERS

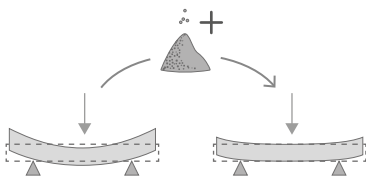


BITUMINOUS  
COMPOUND

Bituminous products are a mixture of different ingredients. Although bitumen is the major component, the final properties are more similar to those of the polymer (present in smaller quantities in the bituminous compound). A bit like mayonnaise, which is mostly made of oil but whose consistency is more like that of eggs, which are present in a smaller proportion. This is possible thanks to a special production process.

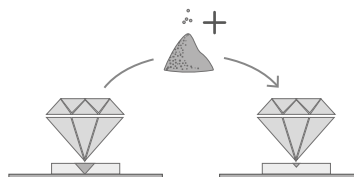
## PROPERTIES

The properties of bituminous products depend on the presence of each "ingredient". The complex composition of bitumen influences its stability over time.



### FLEXIBILITY

bitumen is very flexible; however, the presence of the mineral filler reduces its flexibility



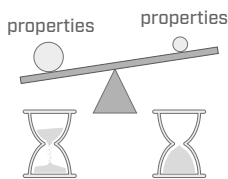
### HARDNESS

the hardness of the product is mainly due to the mineral fillers



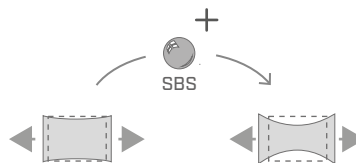
### UV RESISTANCE

the mineral part of the mixture protects it from ultraviolet radiation. Stone chips can cover the surface, protecting it



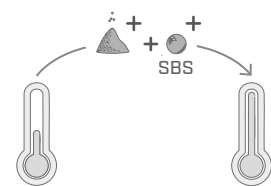
### AGEING

bituminous products are more prone to ageing, which reduces its properties, and over time the oils in the bitumen tend to migrate



### ELASTICITY

bitumen is a material with poor mechanical properties. For this reason it is modified by adding polymers such as SBS (styrene-butadiene-styrene)



### THERMAL STABILITY

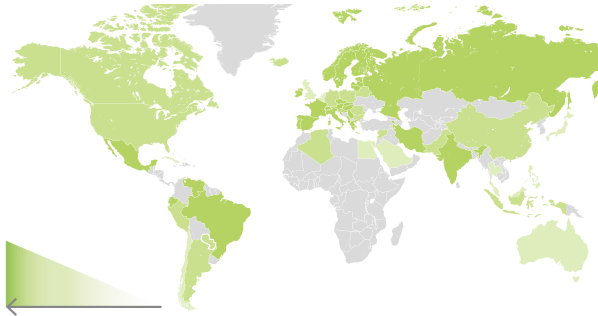
bitumen appears as a solid over a very narrow temperature range. The thermal stability range may vary depending on the ingredients added

# RADON, AN UNWANTED HOUSE GUEST



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



high low

### CONCENTRATION

Map provided for illustrative purposes only. Always check for updates.

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.

## WHERE IS IT FOUND?



EARTH



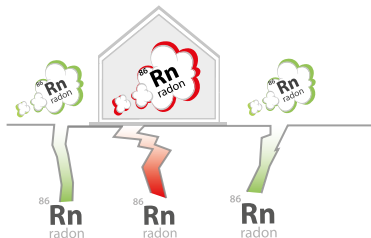
ROCK



WATER

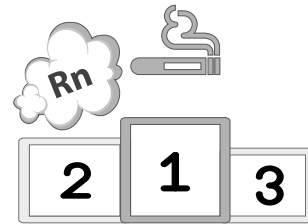
This gas is found in the subsoil, in rock and in water. In the same way that it moves through the ground, it can pass through construction materials and enter the house. Proper airing out of rooms can be useful to fight accumulation, but is often insufficient.

## 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.

## A VERY DANGEROUS SUBSTANCE



As early as 1988, the World Health Organisation (WHO), through the International Agency for Research on Cancer (IARC), listed radon as a human carcinogen. Inhalation of radon gas increases the risk of health damage, in particular the risk of lung cancer.

## THE IMPORTANCE OF GOOD DESIGN



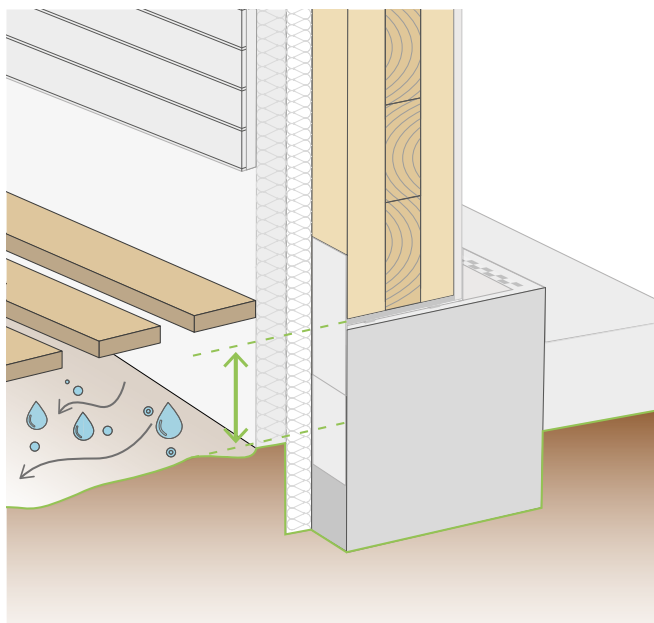
It is possible to minimise the presence of radon in homes through the use of specific sheaths and materials designed to reduce the permeability of the outer structures and foundation of the building. The market offers a number of solutions. There are many solutions on the market, such as RADON FLOOR and GROUND BAND, foundation barriers that prevent radon from reaching indoor environments, eliminating health risks.

# CONNECTION TO THE GROUND

The connection to the ground is undoubtedly one of the most delicate points in a timber construction, which is why it is essential to design and implement this construction detail carefully.

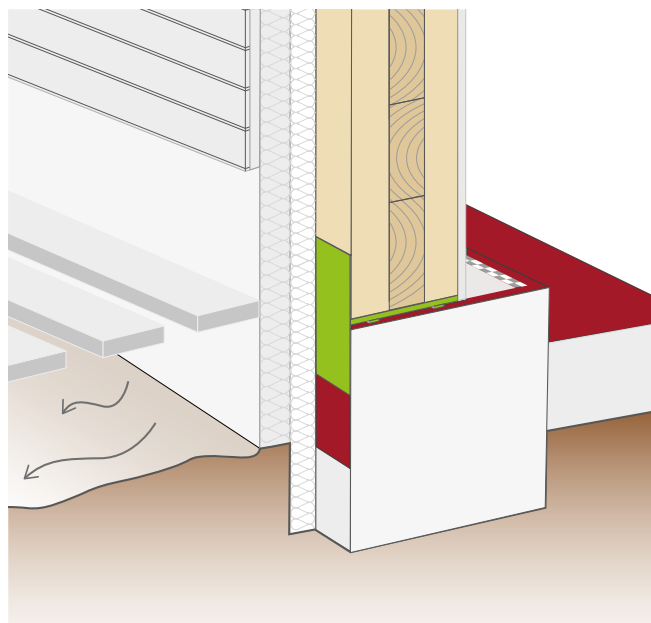
The proposed recommendations refer to the different national standards (DIN 68800-2, ÖNORM B 2320 and FLA guide) that promote passive node protection by ensuring the absence of water and moisture at the base of the building.

## AVOID DIRECT CONTACT



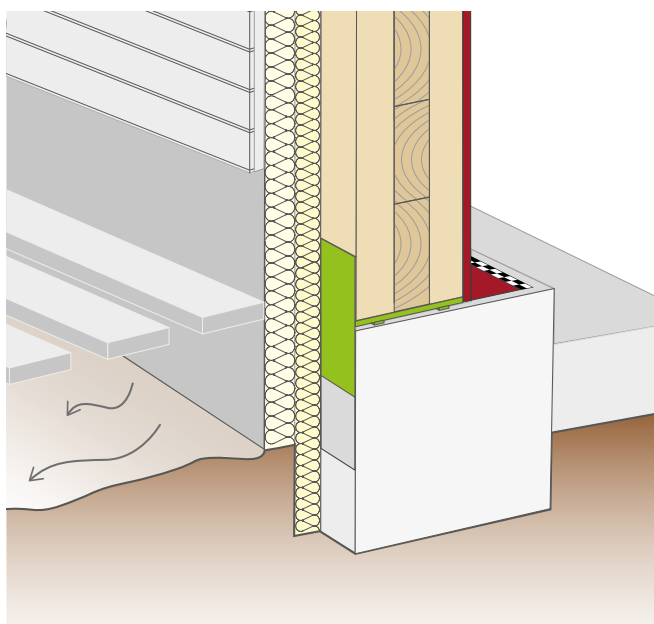
In order to avoid the contact of the base of the building with wet soil, the timber structure must be installed at a higher level than the water drainage.

## AVOID RISING DAMP



In order to prevent the migration of moisture from the concrete to the timber wall, an impermeable barrier must be placed between the concrete and the timber structure.

## AVOID INTERSTITIAL CONDENSATION



It is often one of the coldest points in the building, so it is important to solve the thermal bridge and ensure air tightness.

## THE LAW OF THE 4 D

### DEFLECTION

Rain deflection through design choices that tend to minimise the impact of rainwater on the casing (sloping roofs, eaves, flashings, etc.).

### DRAINAGE

Design a drainage path with the aim of removing water from the building as quickly as possible (draining soil, slope layers, etc.).

### DRYING

In properly designed buildings, water has a chance to evaporate and moisture can escape from the layers.

### DURABLE MATERIALS

At those nodes that are not in line with the other 3 principles, the use of durable materials should be considered in the design.



# GROUND CONNECTION WITH ALU START

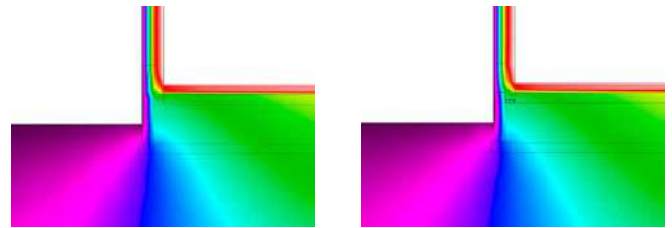
## CALCULATION OF THE THERMAL BRIDGE OF THE GROUND NODE WITH ALU START

With this study, several construction details involving the use of ALU START in the ground node were analysed.

CLIMATIC AND ENVIRONMENTAL CONDITIONS	INTERNAL
	T = 20°C R.H.= 50% $R_{sj} = 0.13 \text{ m}^2 \text{ W K}^{-1}$

CLIMATIC AND ENVIRONMENTAL CONDITIONS	OUTDOOR
	T = -15°C R.H.= 100% $R_{se} = 0.04 \text{ m}^2 \text{ W K}^{-1}$

The analysis was carried out using a finite element node calculation programme in accordance with ISO 13788:2012.



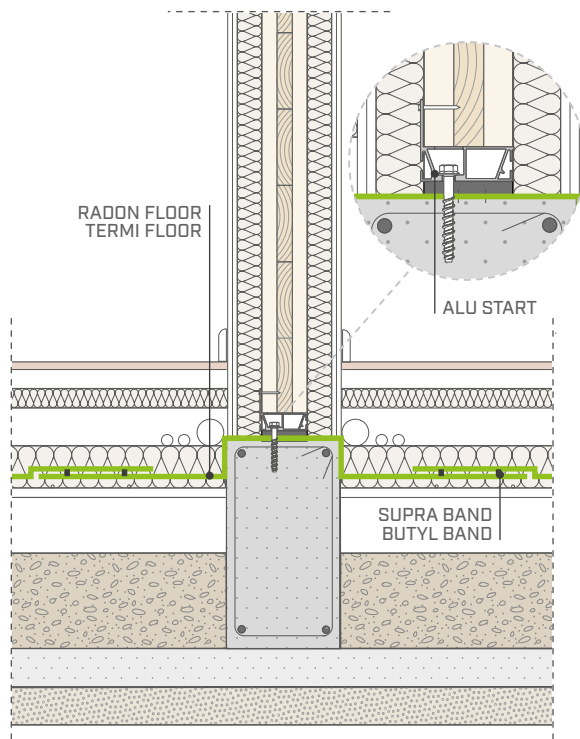
WITHOUT ALU START

WITH ALU START

In this project, different configurations were studied and it was found that the temperature distribution is not significantly affected by the presence of ALU START.

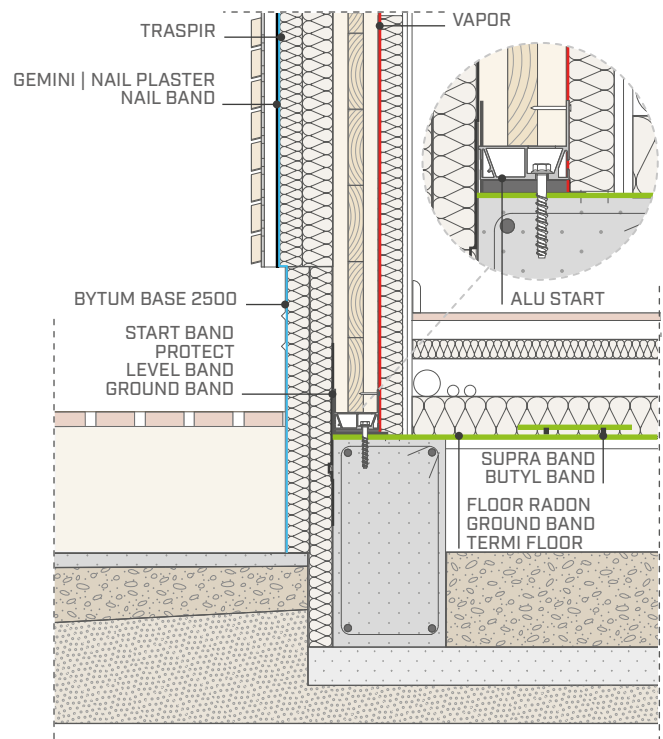
### INTERIOR WALL WITH ALU START

CLT (CROSS LAMINATED TIMBER) WITHOUT FOUNDATION AERATION



### PERIMETER WALL WITH ALU START

CLT (CROSS LAMINATED TIMBER) WITHOUT FOUNDATION AERATION



# SEPARATING ELEMENTS TO MAKE THEM LIVE A LIFE TOGETHER



The ALU START profile eliminates contact between the timber panels and the concrete substructure, providing protection against rising damp and ensuring excellent durability of the building's ground connection. It is the first ground connection system that eliminates hold-downs and shear angles. Made of aluminium alloy, the ALU START system can be used with CLT or timber frame walls.



Scan the QR code and discover the technical features of ALU START



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



**rothoblaas**

Solutions for Building Technology

# START BAND

## WATERPROOFING PROFILE WITH HIGH MECHANICAL RESISTANCE

### ELASTICITY

Thanks to its elasticity, it is extremely easy to install even around corners and it is resistant to perforations or mechanical fastening.

### DURABILITY

It is compatible with bitumen, it does not degrade and it is UV-resistant. It is resistant to walking wear and cold temperatures.



## COMPOSITION


support  
EPDM-based synthetic rubber

## TECHNICAL DATA

Properties	standard	value	USC conversion
Tensile strength	DIN 53504	≥ 6,5 MPa	-
Resistance to tearing	DIN 53504	≥ 25 kN/m	≥ 2.86 lbf/in
Elongation	DIN 53504	≥ 300%	-
Dimensional tolerance	DIN 7715-5	conforming (class P3)	-
Reaction to fire	EN 13501-1	class E	-
Resistance to UV and resistance to ozone	DIN 7864-1	conforming	-
Water vapour resistance factor (μ)	EN 1931	32000	128 MN·s/g
Temperature resistance	-	-30 / +100 °C	-22 / +212 °F

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L		
	[mm]	[mm]	[m]	[in]	[mil]	[ft]		
1	START100	100	0,8	25	3.9	32	82	6
	START150	150	0,8	25	5.9	32	82	4
	START200	200	0,8	25	7.9	32	82	3
	START250	250	0,8	25	9.8	32	82	2
2	STARTA120	120	0,6	20	4.7	24	66	6
	STARTA160	160	0,6	20	6.3	24	66	6



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



CUTTER  
page 328



PRIMER SPRAY  
page 102



HAMMER STAPLER 22  
page 330



### WIDE RANGE, INCLUDING ADHESIVE

Also available in an adhesive version (STAR-TA120 and STARTA160), ideal when applied in combination with ALU START, for an infallible connection to the ground.

### SAFETY

It protects walls and foundation walls against rising damp over time, even at extreme temperatures. Also suitable as a general sealing wall barrier.



# CONNECT BAND

## SEALING WALL BARRIER FOR IRREGULAR SUBSTRATES

### DOUBLE PROTECTION

It protects timber from rising damp and ensures excellent airtightness.

### ADJUSTABLE

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




## TECHNICAL DATA

Properties	standard	value	USC conversion
Tensile strength	DIN 53504	≥ 6,5 MPa	-
Resistance to tearing	DIN 53504	≥ 25 kN/m <sup>2</sup>	1713.04 lbf/ft
Elongation	DIN 53504	≥ 300%	-
Air permeability	EN 12114	α < 0,1 m <sup>3</sup> /(h·m·(daPa) <sup>n</sup>	-
Thermal conductivity (λ)	DIN 52612	0,042 W/m·K	0.02 BTU/h·ft·°F
Reaction to fire	EN 13501-1	class E	-
Resistance to UV and ozone	-	permanent	-
Water vapour resistance factor (μ)	EN 1931	approx. 32000	-
Watertightness	EN 13984	permanent	-
Temperature resistance	-	-30 / +100 °C	-22 / +212 °F
Application temperature	-	+5 / +35 °C	+41 / +95 °F
Storage temperature <sup>(1)</sup>	-	+1 / +25 °C	+33.8 / +77 °F
Solvents	-	no	-
VOC emissions	-	< 1 µg/m <sup>3</sup>	-

<sup>(1)</sup>Store the product in a dry, covered location.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
CONNECT100	100	0,8	25	3.9	32	82	1
CONNECT250	250	0,8	25	9.8	32	82	1



### WIDE RANGE

Available in two versions for use with different wall thickness values.

### DURABLE TIGHTNESS

Extremely thermostable and flexible even at low temperatures. Compatible with bitumen and major building materials.

# LEVEL BAND



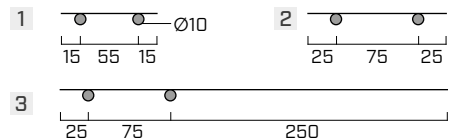
## SEALING WALL BARRIER FOR FOUNDATIONS

### WATERPROOF

It effectively resists humidity due to capillary action, while offering excellent resistance to water, air and wind.

### VERSATILE

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



## TECHNICAL DATA

Properties	standard	value	USC conversion
Maximum tensile force MD/CD	EN 12311-2	≥ 20 / ≥ 20 N/mm <sup>2</sup>	≥ 2.9 / ≥ 2.9 lbf/mil <sup>2</sup>
Elongation MD/CD	EN 12311-2	≥ 550 / ≥ 600 %	-
Resistance to nail tearing MD/CD	EN 12310-1	≥ 120 / ≥ 120 N/mm <sup>2</sup>	≥ 17.4 / ≥ 17.4 lbf/mil <sup>2</sup>
Watertightness	EN 1928	conforming	-
Reaction to fire	EN 13501-1	class E	-
Watertightness after artificial ageing	EN 1296 - EN 1931	conforming	-
Alkaline water vapour resistance	EN 1847 - EN 1931	conforming	-
Impact resistance	EN 12691	> 500 mm	-
Bendability at low temperatures	EN 495-5	-30 °C	-22 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
1 LEVEL085	85	0,17	25	3.4	7	82	10
2 LEVEL125	125	0,17	25	4.9	7	82	2
3 LEVEL350	350	0,17	25	13.8	7	82	2



### ADJUSTABLE

The soft and elastic polyethylene profile allows it to be installed even in complex shapes and angles.

### COST-PERFORMANCE

The choice of materials and optimisation in production results in a solution that offers a good balance between performance and cost.

# GROUND BAND

## SELF-ADHESIVE BITUMINOUS MEMBRANE



EN 13966  
EN 14967  
EN 13707



BITUMEN  
BASED



RADON  
BARRIER

### LOW TEMPERATURES

Can be installed at temperatures from +5 °C to +30 °C thanks to the special elastoplastomeric bituminous mixture. It remains flexible down to -30 °C.

### SELF-SEALING AND SELF-ADHESIVE

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



## COMPOSITION

release liner  
silicone coated paper

glue  
black adhesive bituminous compound

support  
high density cross-laminated PE film

## CODES AND DIMENSIONS

CODE	liner	B	s	L	liner	B	s	L	
	[mm]	[mm]	[mm]	[m]	[in]	[in]	[mil]	[ft]	
GROUND200	30 / 170	200	1,5	20	1.2 / 6.7	7.9	59	66	2
GROUND500	30 / 470	500	1,5	20	1.2 / 18.5	19.7	59	66	1
GROUND1000	500 / 500	1000	1,5	20	19.7 / 19.7	39.4	59	66	1



### PROTECTION AGAINST RADON AND METHANE

The product is tested for protection against radon and methane gas, which are harmful to health in the case of high concentrations in indoor environments.

### PRE-CUT LINER

All versions are supplied with the liner pre-cut to facilitate installation in corners or complex locations, but also over large areas to avoid excessive misalignment of the layers.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Maximum tensile force MD/CD	EN 12311-1	215 / 220 N/50 mm	-
Elongation at break point MD/CD	EN 12311-1	310 / 240%	-
Impact resistance Met.A/Met.B	EN 12691	500 / 1000 mm	19.69 / 39.37 in
Static load resistance Met.A/Met.B	EN 12730	10 / 15 kg	350 / 530 oz
Resistance to tearing MD/CD	EN 12310-1	135 / 135 N	30.35 / 30.35 lbf
Joint separation resistance MD/CD	EN 12316-1	100 N/50 mm	11.42 lbf/in
Maximum tensile force MD/CD	EN 12317-1	300 / 250 N/50 mm	36.54 / 28.55 lbf/in
Initial Tack	ASTM D 2979	3,5 N	0.79 lbf
Adhesion on timber	ASTM D 1000	233 N/50 mm	26.61 lbf/in
Adhesiveness on concrete	ASTM D 1000	165 N/50 mm	18.84 lbf/in
Watertightness	EN 1928	≥ 60 KPa	-
Watertightness after ageing Met.A	EN 1296 / EN 1928	conforming	-
Water vapour resistance factor (μ)	EN 1931	approx. 110000	approx. 825 MN-s/g
Water absorption	ASTM D 570	0,09%	-
Resistance to hydrostatic pressure	DIN 52123	> 6 bar (24 h)	-
Reaction to fire	EN 13501-1	class E	-
Radon permeability	SP Swedish Nat. Testing & Research Institute	5,7·10 <sup>-12</sup> m <sup>2</sup> /s	-
Methane permeability	CSI test method	< 5 cc/m <sup>2</sup> ·24-atm	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Application temperature	-	-4 / +30 °C	+24.8 / +86 °F
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / +104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	8 μg/m <sup>3</sup>	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months. The rolls must be transported and stored in a vertical position. It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun. Waste classification (2014/955/EU): 17 03 02.

## RELATED PRODUCTS



**BYTUM LIQUID**  
page 48



**BLACK BAND**  
page 136



**ROLLER**  
page 326



**HAMMER STAPLER 47**  
page 330



## SAFETY

The special elastoplastomeric bituminous compound and the cross-laminated high-density polyethylene backing film make the product completely waterproof and resistant to punching shear.



## RECOMMENDATIONS FOR INSTALLATION

### WATERPROOFING CLT WALL ON CONCRETE KERB



1 HERON, HERON XL, HERON DGT, COSMOS, CHAMELEON, POWDER

3a BYTUM LIQUID, BYTUM SPRAY, BRUSH

5 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES





8 ROLLER

### WATERPROOFING AND RADON PROTECTION OF FOUNDATIONS



6 ROLLER

# RADON FLOOR



## WATERPROOFING RADON GAS BARRIER FOR FOUNDATIONS



### COMPOSITION

top layer  
low density PE film

reinforcing layer  
polyester reinforcing grid

middle layer  
low density PE film

bottom layer  
low density PE film



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	350 g/m <sup>2</sup>	1.15 oz/ft <sup>2</sup>
Thickness	EN 1849-1	0.4 mm	16 mil
Water vapour transmission (Sd)	EN 1931	232 m	0.015 US perm
Maximum tensile force MD/CD	EN 12311-1	> 450 / 420 N/50mm	51 / 48 lb/in
Elongation MD/CD	EN 12311-1	> 12 / 12 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 300 / 300 N	> 67 / 67 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class F	-
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 875 kg/m <sup>3</sup>	approx. 0.51 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 580000	approx. 1160 MN·s/g
Joint strength	EN 12317-2	> 50 N/50mm	> 5.71 lb/in
Impact resistance	EN 12691	> 200 mm	> 7.87 in
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Resistance to static load	-	200 N	44.96 lbf
Radon permeability	SP Swedish Nat. Testing & Research Institute	< 1x10 <sup>-11</sup> m <sup>2</sup> /s	-
Radon transmittance	SP Swedish Nat. Testing & Research Institute	< 2x10 <sup>-8</sup> m/s	-

Waste classification (2014/955/EU): 17 02 03.

### CODES AND DIMENSIONS

CODE	H	L	A	H	L	A	
	[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
<b>RADON350</b>	2	25	50	7	82	538	42

## RECOMMENDATIONS FOR INSTALLATION



1 SUPRA BAND, BUTYL BAND

3a SUPRA BAND, BUTYL BAND, OUTSIDE GLUE ROLLER

4 MARLIN, CUTTER

5 GROUND BAND

# TERMI FLOOR



## WATERPROOFING ANTI-TERMITE BARRIER FOR FOUNDATIONS



### COMPOSITION


single layer  
low density PE film

### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>	0.49 oz/ft <sup>2</sup>
Thickness	EN 1849-1	0,15 mm	6 mil
Maximum tensile force MD/CD	EN 12311-1	15 / 15 N/50mm	2 / 2 lb/in
Elongation MD/CD	EN 12311-1	350 / 450 %	-
Resistance to nail tearing MD/CD	EN 12310-1	40 / 40 N	9 / 9 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	> 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 1000 kg/m <sup>3</sup>	approx. 0.58 oz/in <sup>3</sup>
Impact resistance	EN 12691	200 mm	7.87 in
Resistance to static load	-	5 N	1.12 lbf
Water vapour resistance:			
- in the presence of alkalis	EN 1847 / EN 12311-2	conforming	-
- after artificial ageing	EN 1296 / EN 1931	conforming	-
Action against termites	FCBA (401/10/222F/d)	> 20 years	-

Waste classification (2014/955/EU): 17 02 04.

### CODES AND DIMENSIONS

CODE	roll	H	L	A	H	L	A	
	[m]	[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TERMI150	1,0 x 12,5	3	25	75	10	82	807	12



RECOMMENDATIONS FOR INSTALLATION



3a SUPRA BAND, BUTYL BAND, OUTSIDE GLUE

3b EASY BAND, SPEEDY BAND, FLEXY BAND, FLEXI BAND UV, PLASTER BAND, MANICA PLASTER

4a OUTSIDE GLUE, SUPRA BAND, BUTYL BAND  
FLY, FLY SOFT

4b PRIMER, PRIMER SPRAY  
ROLLER

# BYTUM BAND

SELF-ADHESIVE BITUMINOUS BAND,  
CAN BE PLASTERED



## CAN BE PLASTERED

Polypropylene means the fabric can be plastered, offering greater versatility.

## COST - PERFORMANCE

The bituminous mixture guarantees good adhesiveness, even on concrete.



## COMPOSITION

**release liner**  
silicone coated paper

**glue**  
black adhesive bituminous compound

**support**  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Maximum tensile force MD/CD	EN 12311-1	140 / 105 N	31.47 / 23.6 lbf
Elongation at break point MD/CD	EN 12311-1	100 / 100 %	-
Adhesion on concrete	ASTM D 1000	2,9 N/mm	16.56 lbf/in
Adhesion of class C2E cementitious glue on TNT	EN 12004 / EN 1348	0,9 N/mm <sup>2</sup>	130.53 lbf/in <sup>2</sup>
Reaction to fire	DIN 4102	class B2	-
Temperature resistance	-	-20 / +80 °C	-4 / +176 °F
Application temperature	-	+5 / +40 °C	+41 / +104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / +104 °F
VOC emissions	ISO 16000	8 µg/m <sup>3</sup>	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.

It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun.

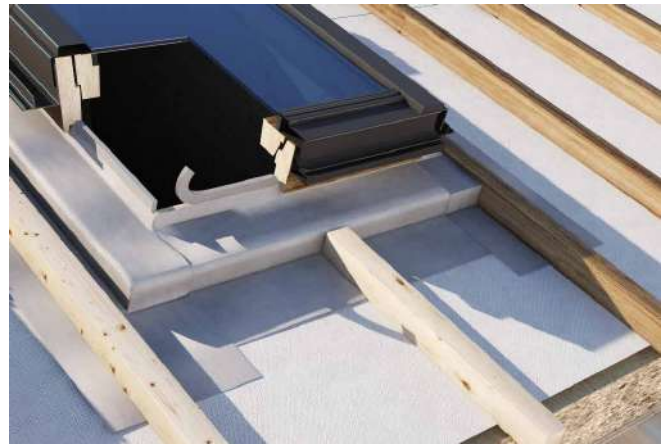
Waste classification (2014/955/EU): 17 03 02.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
BYTBAND240	240	1	15	9.5	39	49	2
BYTBAND370	370	1	15	14.6	39	49	1



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



BYTUM LIQUID  
page 48



BYTUM SPRAY  
page 46



HAMMER STAPLER 22  
page 330



### VERY LOW EMISSIONS

Thanks to the special formulation of the bituminous compound, it guarantees health safety with regard to emissions.

### SAFETY

It protects walls and foundation walls against rising damp over time. Also suitable as a general sealing wall barrier or window/door node waterproofing product.

# PROTECT



## SELF-ADHESIVE BUTYL BAND, IT CAN BE PLASTERED

### BUTYL MIX

The special mix guarantees excellent adhesion and deformation capacities, compensating for the natural movement of the timber.

### LOW TEMPERATURES

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



## COMPOSITION

release liner  
PP film

glue  
grey adhesive butyl compound

support  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Maximum tensile force MD/CD	EN 12311-1	115 / 100 N	25.85 / 22.48 lbf
Elongation at break point MD/CD	EN 12311-1	100 / 100 %	-
Peel adhesion at 180°	ASTM D 1000	20 N/cm	11.42 lbf/in
Initial Tack	ASTM D 2979	8 N	-
Resistance to tearing MD/CD	EN 12310	≥ 130 / ≥ 125 N	≥ 29.23 / ≥ 28.10 lbf
Joint separation resistance MD/CD	EN 12316-1	≥ 20 N/50 mm	≥ 2.28 lbf/in
Maximum tensile force MD/CD	EN 12317-1	≥ 100 / ≥ 75 N/50 mm	≥ 11.42 / ≥ 8.57 lbf/in
Adhesion of class C2E cementitious glue on TNT	EN 12004 / EN 1348	0,9 N/mm <sup>2</sup>	130.53 lbf/in <sup>2</sup>
Vertical sliding	ISO 7390	0 mm	-
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +90 °C	-22 / 194 °F
Watertightness	EN 1928	conforming	-
Water vapour resistance factor (μ)	EN 1931	approx. 26176	approx. 130 MN-s/g
Application temperature	-	0 / +40 °C	+32 / 104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / 104 °F
VOC emissions	ISO 16000	30 μg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.

It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun.

Waste classification (2014/955/EU): 08 04 10

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
PROTECT330	330	1	10	13.0	39	33	2
PROTECT500	500	1	10	19.7	39	33	1


## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



MANICA PLASTER  
page 138

CODE	liner	B	s	L	liner	B	s	L	
	[mm]	[mm]	[mm]	[m]	[in]	[in]	[mil]	[ft]	
MANPLA2080	20 / 80	100	1	20	0.8 / 3.2	3.9	39	66	6
MANPLA20180	20 / 180	200	1	20	0.8 / 7.1	7.9	39	66	2



### ADHESION

The special butyl mix ensures high adhesion even at low temperatures. Durable and thermally stable.

### CAN BE PLASTERED

The non-woven polypropylene fabric means the support can be plastered, offering greater versatility of use.



# BYTUM SPRAY

## BITUMINOUS MEMBRANE SEALANT SPRAY

### DURABLE PROTECTION

The product remains flexible and seals cracks and elements by blocking water and dust infiltration.

### WEATHER RESISTANCE

The special elastomer-modified bituminous formula guarantees a product that after drying resists both weathering and salt corrosion.



## TECHNICAL DATA

Properties	value	USC conversion
Colour	black	-
Time required for complete drying 23 °C / 50% RH	1 - 2 h	-
Yield	4 m <sup>2</sup>	43.06 ft <sup>2</sup>
Application temperature	+5 / +35 °C	+41 / +95 °F
Storage temperature <sup>(1)</sup>	+10 / +30 °C	+50 / +86 °F

<sup>(1)</sup>Store the product in a dry, covered location for no more than 24 months. Check the expiry date on the packaging.

Waste classification (2014/955/EU): 16 05 04.

Aerosol 1. Skin Irrit. 2. STOT SE 3. Aquatic Chronic 2.

## CODES AND DIMENSIONS

CODE	content	content	
	[mL]	[US fl oz]	
BYTS	500	16.90	12



### UNIVERSAL

Suitable for all types of support, it adheres to all types of shapes including roofs, gutters, terraces, skylights, PVC or metal drainpipes.

### FAST INSTALLATION

The product is supplied in a convenient resealable, ready-to-use spray which can be applied without the need for additional tools.

## RECOMMENDATIONS FOR INSTALLATION

### SEALING OF CRACKS AND CROSSING POINTS



1 BYTUM REINFORCEMENT

### FASTENING SYSTEMS WATERPROOFING



# BYTUM LIQUID | REINFORCEMENT

SPREADABLE WATERPROOFING SHEATH | REINFORCING LAYER

CE  
EN 1504-2  
EN 14891  
EN 15814

  
BITUMEN  
BASED



## TECHNICAL DATA

Properties	standard	value	USC conversion
Apparent volume mass of mix	EN 1015-6	1,5 kg/L	-
Maximum application thickness	-	3 mm	118 mil
Variable water vapour transmission (Sd)	EN 1931	5 / 50 m	0.7 / 0.07 US perm
Watertightness	EN 1928	> 500 kPa	-
Elongation MD/CD	EN 12311-1	240 %	-
Elongation with BYTUM REINFORCEMENT	EN 12311-1	80 %	-
Temperature resistance	-	-30 / 80 °C	-22 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	1500 J/(kg·K)	-
Flexibility at low temperatures	EN 1109	-10 °C	14 °F
Application temperature	-	5 / 35 °C	41 / 95 °F
Material yield per 1 mm thickness	-	1,5 kg/m <sup>2</sup>	-
Crack bridging	EN 1602-7	> 2,5 mm	> 98 mil
Crack bridging with BYTUM REINFORCEMENT	EN 1602-7	> 10 mm	> 393 mil
Waiting time for:			
- complete hardening	-	4 days	-
- application of each layer on the previous one	-	24 hours	-
- covering with ceramics or paint	-	4 days	-
Static punching method A / method B	EN 12730	45 / 25 kg	-
Dynamic punching method A / method B	EN 12691	1000 / 1000 mm	-
Class and type	EN 14891	C PI-MC-IR / DM OP	-
Adhesives range for application of ceramic	EN 1015-6	C2 - S1 / S2	-


Waste classification (2014/955/EU): 08 04 16.

## CODES AND DIMENSIONS

### BYTUM LIQUID

CODE	content		
	[kg]	[lb]	
BYTL	10	22	50

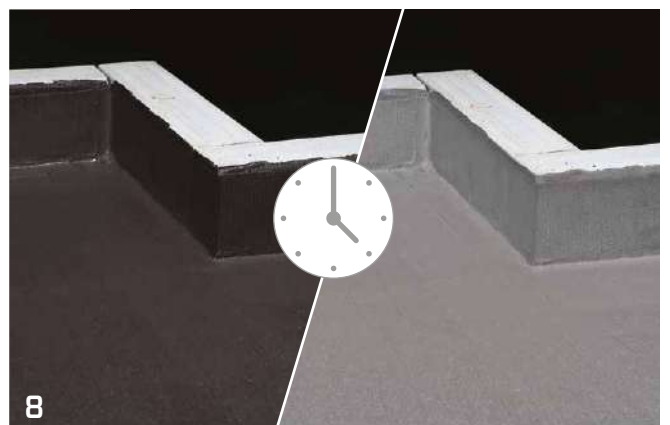
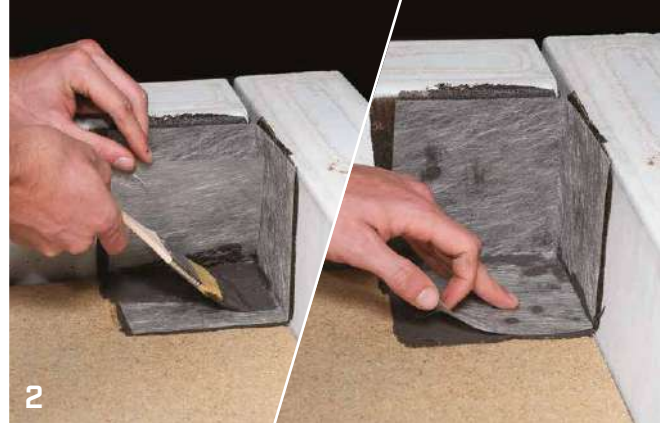
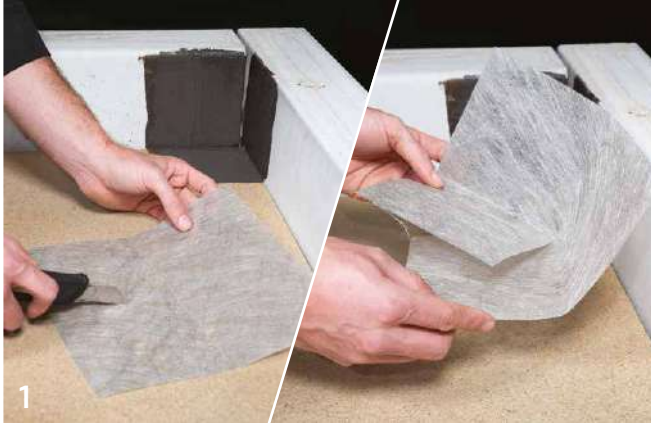
### BYTUM REINFORCEMENT

CODE	H	L	A	H	L	A	
	[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYTR	1	50	50	3	164	538	24



## RECOMMENDATIONS FOR INSTALLATION

### WATERPROOFING OF WALL-TO-CEILING CORNERS



1 MARLIN, CUTTER

3 BRUSH

# FLUID MEMBRANE

CE  
EN 1504-2  
EN 14891

## SYNTHETIC SEALING MEMBRANE FOR BRUSH AND SPRAY APPLICATION

### FLEXIBLE

The synthetic resin mix is elastic and resistant to any movement of the sealed cracks.

### FAST INSTALLATION

It can be applied using a roller, brush or spray with the possibility of inserting a synthetic reinforcing fabric. Removable with hot water.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Colour	-	grey	-
Classification	EN 1504-2	PI-MC-IR <sup>(1)</sup>	-
	EN 14891	DM 01 <sup>(2)</sup>	-
Density at 20 °C	ISO 2811-1	1.45 kg/L	232,52 oz/gal
Surface cross-linking time 23 °C / 50% RH	-	4 h	-
Time required for complete drying 23 °C / 50% RH	-	24 h	-
Dry residue by mass	ISO 3251	65%	-
Dynamic viscosity	EN ISO 3219	48-72 Pa·s	-
Adhesion on concrete by direct traction	EN 1542	> 1 N/mm <sup>2</sup>	145 lbf/in <sup>2</sup>
Watertightness	EN 14891	conforming	-
Liquid water permeability (W)	EN 1062-3	< 0,1 kg/m <sup>2</sup> ·h <sup>0,5</sup>	-
Water vapour transmission (Sd)	ISO 7783	< 5 m	> 0.7 US perm
Carbon dioxide permeability (C)	EN 1062-6	> 50 m	-
Application temperature	-	+5 / +35 °C	+41 / +95 °F
Storage temperature <sup>(3)</sup>	-	≥ +5 °C	≥ +41 °F
VOC content	Dir. 2004/42/EC	0 g/L	-

<sup>(1)</sup>Principles. protection against penetration risks (H,I,C); moisture control (H,C); increasing resistivity by limiting moisture content (H,C). Types. H: Hydrophobic impregnation; I: Impregnation; C: Coating.

<sup>(2)</sup>Water based waterproofing product for liquid application in dispersion with improved crack bridging capability at -5 °C

<sup>(3)</sup>Store the product in a dry, covered location for no more than 24 months. Check the expiry date on the packaging. It is affected by frost. Waste classification (2014/955/EU): 08 04 16.

## CODES AND DIMENSIONS

CODE	content		
	[kg]	[lb]	
FLUIDMEM	10	22	1



## ■ FIELDS OF APPLICATION



### Airless pump specifications

Capacity	≥	3,6 L/min	
Nozzle	≥	0,5 mm	0.02 in
Tube length $\Phi$ 6,5 mm (0.25 in)	≤	30 m	16 ft
Maximum pump pressure	≥	230 bar	



### SAFETY

Resistant to water stagnation on the surface, even when there is no slope. Also suitable for surfaces in industrial areas or in sea areas. Odourless and non-toxic product. Solvent-free.

### ADHERENCE

Thanks to its formulation, the product offers perfect adhesion, is suitable for complex construction details and resists micro-cracks.

# CONSTRUCTION SEALING

## COMPRESSIBLE SEALING GASKET FOR REGULAR JOINTS

### PRACTICAL

It can be applied during construction or during prefabrication for sealing timber-to-timber joints.

### STABLE

Thanks to the solid EPDM mix, it endures over time. It is not affected by chemical attacks.

## COMPOSITION

Extruded compact EPDM




## TECHNICAL DATA

Properties	standard	value	USC conversion
Density	-	0,48 g/cm <sup>3</sup>	0.28 oz/in <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	-31 / +212 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

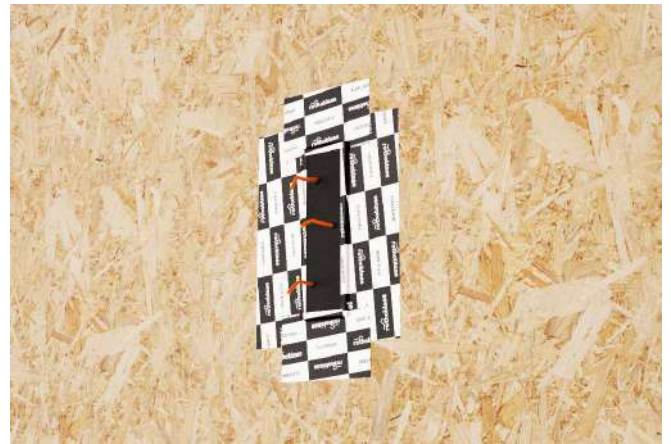
<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
CONSTRU4625	46	3	25	1.8	118	82	3



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



**DOUBLE BAND**  
page 62



**MS SEAL**  
page 120



**HAMMER STAPLER 47**  
page 330



### TESTED RESISTANCE

In Rothoblaas' experimental fire protection project it was tested for an EI value.

### NOISE REDUCTION

The acoustic performance has been tested in the Flanksound Project by Rothoblaas: using it as a wall gasket provides up to 3 dB of noise reduction.



# TIE-BEAM STRIPE

## TIE BEAM SEALING PROFILE

### ADJUSTABLE

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

### WATERPROOFING

Resilient profile to connect tie beam and brickwork/concrete.



## TECHNICAL DATA

Properties	standard	value	USC conversion
SHORE A hardness	EN ISO 868	50	-
Density	ASTM D 297	1,1 g/cm <sup>3</sup>	0.64 oz/in <sup>3</sup>
Compression deformation 22h + 100 °C	EN ISO 815	< 50%	-
Breaking load	EN ISO 37	≥ 9 MPa	-
Elongation at failure	EN ISO 37	≥ 500 %	-
Application temperature	-	-40 / +90 °C	-40 / +194 °F
Temperature resistance	-	-40 / +100 °C	-40 / +212 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
TIEBEAM71	71	9	50	2.8	354	164	1



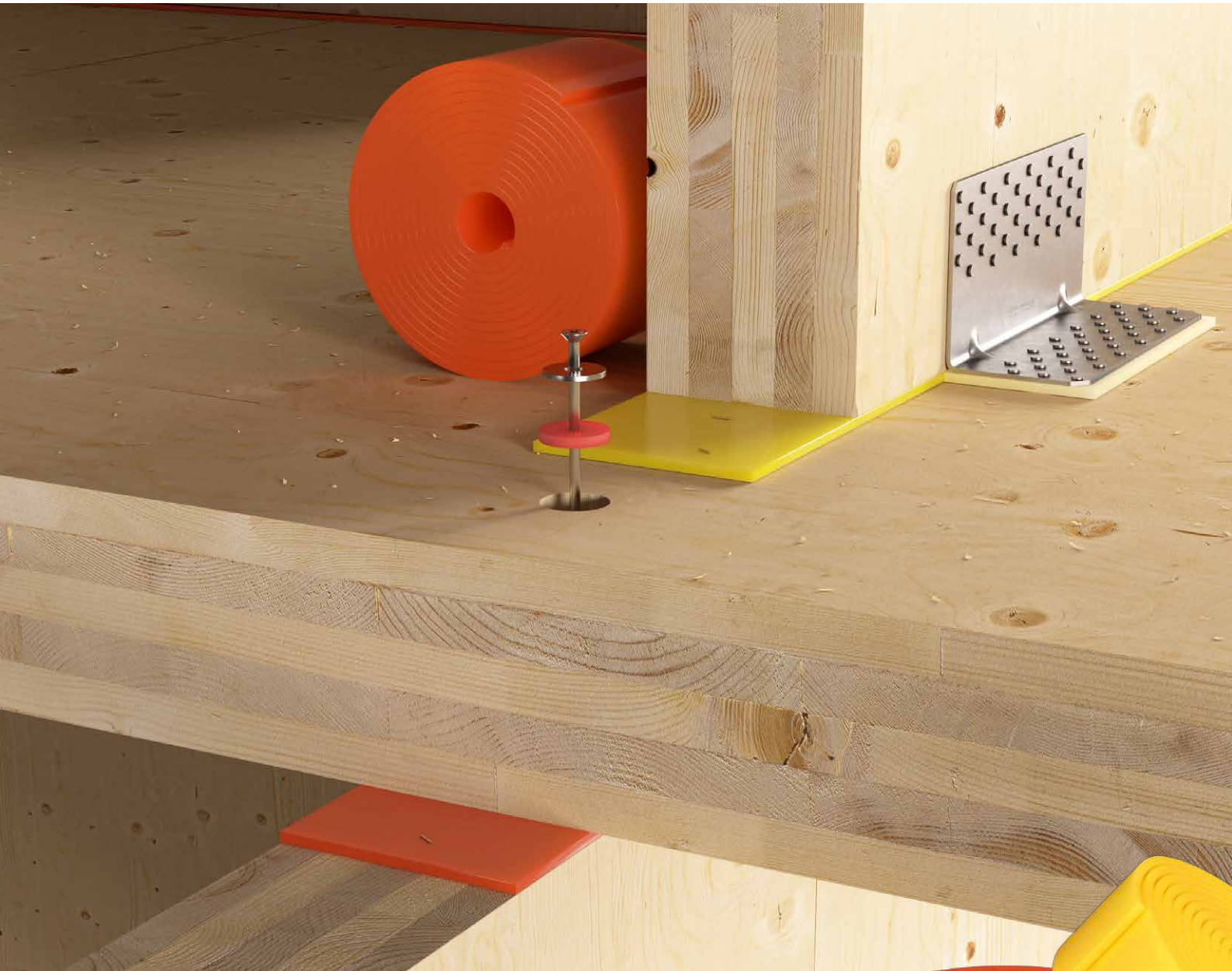
### SMART

The pre-formed profile adapts well to surfaces, ensuring air and water tightness at all times. It can also be used vertically as a seal between walls.

### STRENGTH

Its profile ensures great elasticity and resistance even in the event of perforations and mechanical fastening thanks to the special modified EPDM compound.

# MORE ACOUSTIC COMFORT IN YOUR TIMBER HOUSE



XYLOFON is the very high performance resilient profile that ensures acoustic comfort in timber structures and houses. Made of a polyurethane compound, it is available in 5 versions from 35 to 90 shore, on the basis of the load it has to support. Tested and certified for use as a desolidarisation and mechanical interruption layer between building materials, it reduces the transmission of airborne and structural noise (up to more than 15 dB). Rely on the best performing acoustic profile on the market.

Scan the QR code and discover the technical features of XYLOFON



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

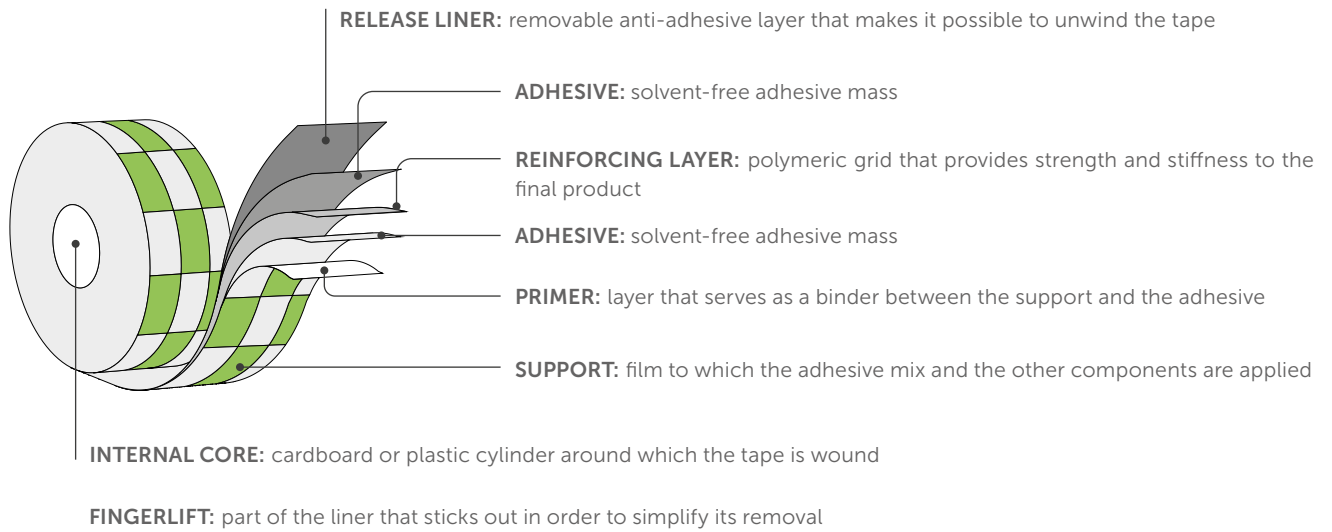


**rothoblaas**

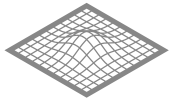
Solutions for Building Technology

# TAPES

## HOW IS THE TAPE MADE?



## 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 TYPE OF GLUE?	PROPERTIES AND FIELD OF APPLICATION
ACRYLIC MIX IN AQUEOUS DISPERSION OR UV-CROSSLINKED	<ul style="list-style-type: none"> <li>• Suitable for smooth surfaces</li> <li>• Thermally stable</li> <li>• UV stable</li> <li>• Elastic</li> </ul>
BUTYL: HIGH PERFORMANCE SYNTHETIC POLYMER	<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>• Thermally stable</li> <li>• Effective at low temperatures</li> </ul>
BITUMEN: SOLVENT-FREE OIL REFINING RESIDUE	<ul style="list-style-type: none"> <li>• Suitable for irregular surfaces</li> <li>• Deformable</li> </ul>

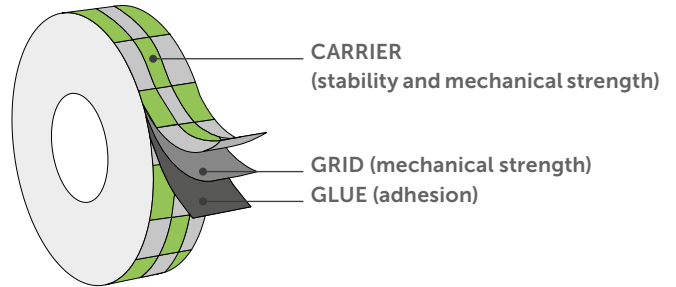
WHAT IS THE MOST APPROPRIATE MATERIAL?	PROPERTIES AND FIELD OF APPLICATION
NON-WOVEN PP FABRIC	<ul style="list-style-type: none"> <li>• Can be plastered</li> <li>• Thermally stable</li> <li>• Flexible</li> </ul>
POLYETHYLENE FILM	<ul style="list-style-type: none"> <li>• Waterproof</li> <li>• Flexible</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>
ALUMINIUM	<ul style="list-style-type: none"> <li>• UV-stable</li> <li>• Thermally stable</li> <li>• Highly protective for the glue</li> <li>• Waterproof</li> <li>• Deformable</li> </ul>

## TAPE ADHESION

The function of the tape is to mechanically join two non-adhesive products together and to seal discontinuities on the surface (cracks, holes, etc.).

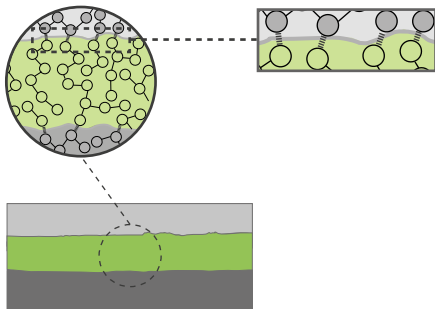
Special acrylic polymers are used in the production of construction tape glue to create *pressure sensitive adhesives (PSA)*: adhesives that are able, when pressure is applied, to exploit the roughness of the surface to ensure adhesion.

The adhesion of a tape is influenced by the material of the surface to which it adheres, with which it establishes a chemical-physical interaction, by the roughness and viscosity of the material itself.



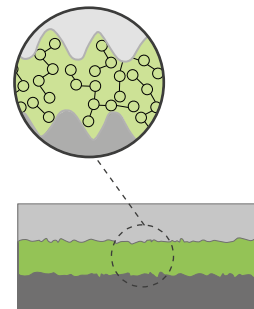
## FACTORS INFLUENCING ADHERENCE

### MATERIAL OF THE SUPPORT



The special chemical composition of the adhesive allows it to establish secondary interactions with the surface, based on a mechanism similar to that which allows a gecko to walk on window glass. This property significantly increases the adhesion of the tape.

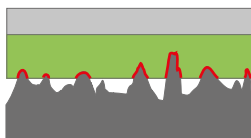
### SUPPORT ROUGHNESS



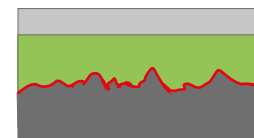
The adhesive is able to exploit the roughness of the surface by penetrating into the microporosity to create adhesion.

### GLUE VISCOSITY

Another decisive aspect for adhesion is the glue viscosity. A very viscous glue will be less adhesive because it penetrates less into the microporosity of the surface. On the contrary, a less viscous glue will be more adhesive because it makes better use of surface roughness to increase the contact area. If the ambient temperature changes, the viscosity and adhesion of the glue will change.



Example of a very viscous glue. The red lines represent the contact area. **Small contact surface.**

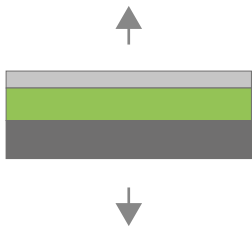


Example of a low viscosity glue. The red line represents the contact area. **Large contact surface.**



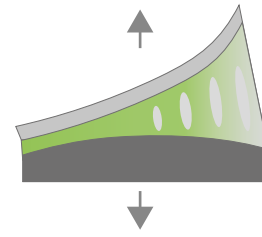
## GLUE

### ADHESION



This is the force exerted between the glue and the surface to which the tape is glued. The adhesion required depends on the application. It is influenced by the support material and roughness.

### COHESION



This is the force acting within the glue, depending on the intensity of the interaction between the glue molecules. It must be high enough to reduce creep.

Honey is an example of a very adhesive and not very cohesive material.



Concrete is an example of a material that is poorly adhesive and very cohesive.

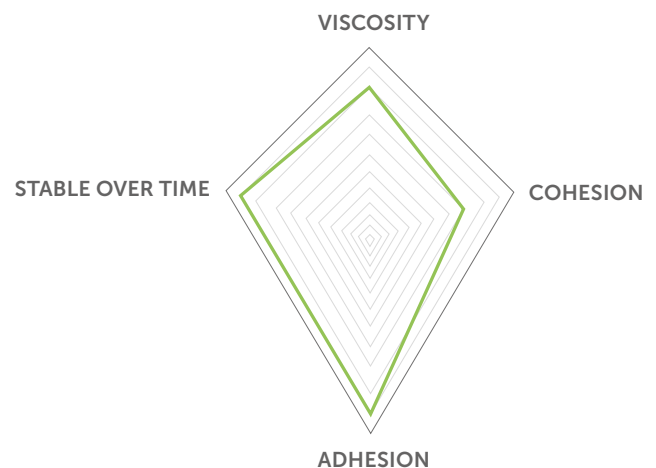


### GLUE PROPERTIES

The adhesive properties of a tape are largely influenced by the glue. A good glue is characterised by:

- ability to quickly penetrate surface microporosities;
- balance of adhesion and cohesion forces;
- ability to maintain properties over time.

A mixture of materials is used to obtain this. Depending on which force prevails, an adhesive or cohesive fracture can be observed.



### ADHESIVE FRACTURE



There is a separation between the two surfaces:  
**glue cohesion > applied force > adhesion**

### COHESIVE FRACTURE



Membrane fracture:  
**adhesive strength and glue cohesion > applied force**

# TAPES AND DURABILITY

## WEATHERING RESISTANCE TEST IN FLORIDA



Florida is the only true subtropical region in the United States and is an internationally recognised site for outdoor weather exposure due to the synergistic effect of:

- presence of strong solar radiation
- prolonged exposure to UV radiation
- high temperatures throughout the year
- heavy rainfall
- high humidity



**1** year of exposure in Florida > **1** year in the rest of the world

At regular intervals we carry out two tests, according to regulations, to check how much the exposure has changed the mechanical properties of the tapes:



EN ISO 29864

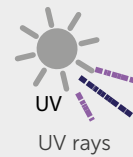


EN ISO 29862

## HOW DOES TAPE DEGRADATION OCCUR?

Every material has its own sources of degradation.

**UV rays, high temperatures, pollution** and **mechanical stresses** affect the durability of the tapes by acting on polymers that compose them.



UV  
UV rays



T°  
temperature



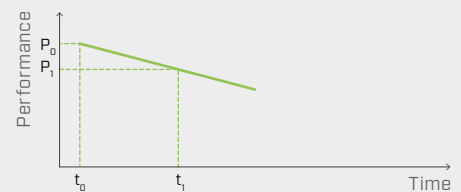
pollution



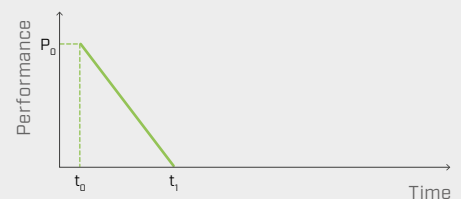
mechanical stress

Each source of degradation listed above has a negative effect on the performance of the material. However, it is the sum of several degradation factors that represents the critical situation of the products durability.

## 1 SOURCE OF DEGRADATION



## SUM OF SEVERAL SOURCES OF DEGRADATION



In the presence of multiple sources of degradation, performance decline occurs faster and more sharply.

# ALU BAND

## REFLECTIVE SINGLE-SIDED ADHESIVE TAPE FOR INDOOR USE

### HEAT-RESISTANT UP TO 130°C

The combination of glue and aluminium carrier makes it possible to achieve very high thermal stability without compromising the glue adhesion and viscosity.

### VERSATILE

Applicable on thermo-hydraulic structures, thanks to the high thermal reflectance and the glue that guarantees excellent adhesion.




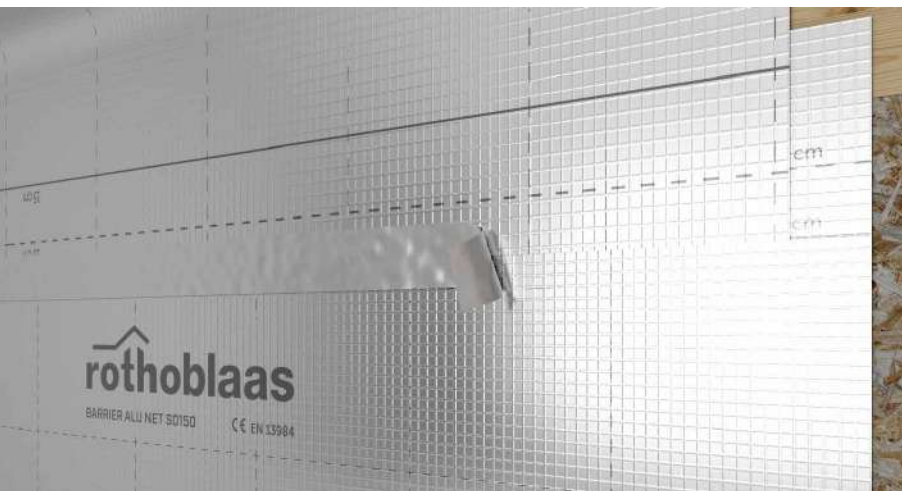
## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	DIN EN 1942	0,06 mm	2.4 mil
Tear strength	DIN EN 14410	> 25 N/cm	> 14.28 lbf/in
Expansion capacity	DIN EN 14410	> 5%	-
Adhesiveness	DIN EN 1939	> 8 N/cm	> 4.57 lbf/in
Water vapour transmission (Sd)	EN 1931	approx. 100 m	approx. 0.035 US perm
Watertightness	-	conforming	-
Reaction to fire	DIN 4102-1 EN 13501	class B1 class E	- -
Temperature resistance	-	-40 / +130 °C	-40 / +266 °F
Application temperature	-	> -10 °C	> +14 °F
Storage temperature <sup>(1)</sup>	-	+15 / +30 °C	+59 / +86 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 17 09 04.

## CODES AND DIMENSIONS

CODE	B	L	B	L	
	[mm]	[m]	[in]	[ft]	
ALUBAND50	50	50	2.0	164	24
ALUBAND75	75	50	3.0	164	24



### VAPOUR BARRIER

The aluminium carrier offers very high vapour protection and watertightness and is therefore ideal in combination with the BARRIER ALU line and in plant engineering applications.

# DOUBLE BAND

## UNIVERSAL DOUBLE-SIDED TAPE

### EXCELLENT ADHESION

The solvent-free acrylic glue mix ensures excellent adhesion on most common supports, even at low temperatures.

### SECURE

In spite of the low thickness, the sealing will be secure thanks to the reinforcing grid.

### COMPOSITION

**release liner**

silicone coated paper

**glue**

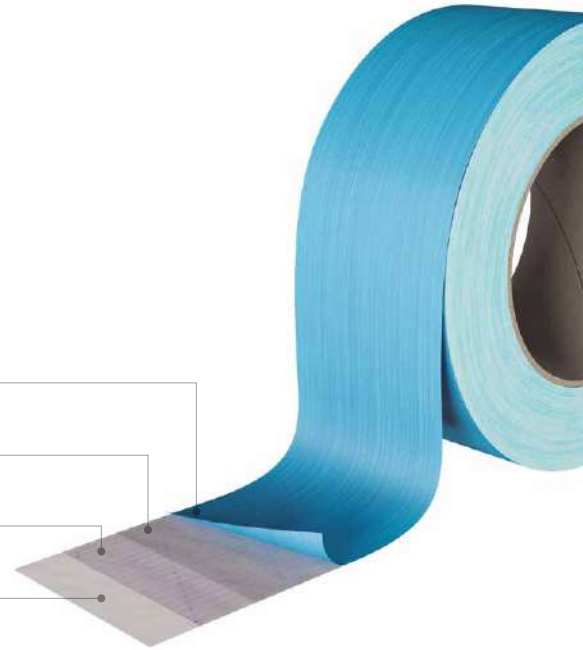
acrylic dispersion without solvents

**reinforcing layer**

polyester reinforcing grid

**glue**

acrylic dispersion without solvents




### TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	DIN EN 1942	0,25 mm	10 mil
Adhesiveness	DIN EN 1939	≥ 25 N/25 mm	≥ 5.71 lbf/in
Temperature resistance	-	-30 / +100 °C	-22 / +212 °F
Application temperature	-	-10 / +40 °C recommended > +5 °C	+14 / +104 °F recommended > +41 °F
Watertightness	-	conforming	-
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a dry, covered location.

Waste classification (2014/955/EU): 08 04 10.

### CODES AND DIMENSIONS

CODE	B	L	B	L	
	[mm]	[m]	[in]	[ft]	
DOUBLE40	40	50	1.6	164	8



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



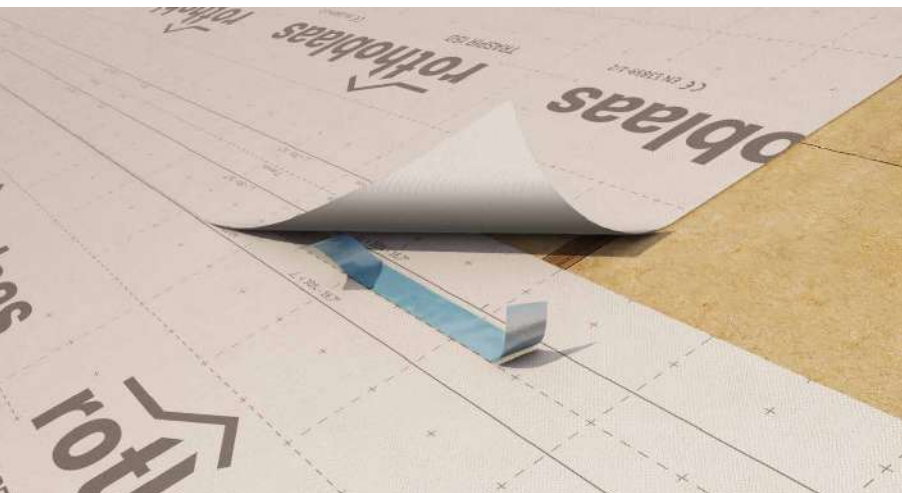
**SUPRA BAND**  
page 132



**ROLLER**  
page 326



**MARLIN**  
page 328



### PERFECT INVISIBLE SEALING

DOUBLE BAND provides a perfect concealed seal and offers weather protection and durability.

### TEMPERATURE RESISTANCE

Thanks to its special formulation, the acrylic glue ensures excellent stability against temperature ranges.



# SEAL BAND | SEAL SQUARE

SINGLE-SIDED TAPE FOR INDOOR USE



## EFFECTIVE

The pre-shapeable carrier allows efficient sealing of concave or convex corners and edges.

## SQUARE VERSION

Ideal for small point seals or holes for the blowing technique, where precision is required.

## COMPOSITION

**support**  
paper reinforced with protective film

**glue**  
acrylic dispersion without solvents

**release liner**  
silicone coated paper



## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	EN 1942	0,33 mm	13 mil
Adhesiveness	EN 1939	35 N/25 mm	8 lbf/in
Water vapour transmission (Sd)	EN ISO 12572	6 m	0.58 US perm
Temperature resistance	-	-40 / +100 °C	-40 / +212 °F
Application temperature	-	-10 / +40 °C	+14 / +104 °F
Storage temperature <sup>(1)</sup>	-	+15 / +25 °C	+59 / +77 °F
VOC emissions	EN 16516	< 5 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-
Ecode	GEV test procedure	EC1 plus	-

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

### SEAL BAND

CODE	liner [mm]	B [mm]	L [m]	liner [in]	B [in]	L [ft]	
SEAL60	60	60	25	2.4	2.4	82	10
SEAL1248	12 / 48	60	25	0.5 / 1.9	2.4	82	10
SEAL3030	30 / 30	60	25	1.2 / 1.2	2.4	82	10

### SEAL SQUARE

CODE	B [mm]	H [mm]	L [m]	B [in]	H [in]	L [ft]	pcs/roll	
SEAL180	180	180	36	7.1	7.1	118	200	1

## ■ FIELDS OF APPLICATION



## ■ PRODUCT RANGE



SEAL60



SEAL1248



SEAL3030



SEAL180



### FAST INSTALLATION

Versions with pre-cut liner are available for quick and easy installation.

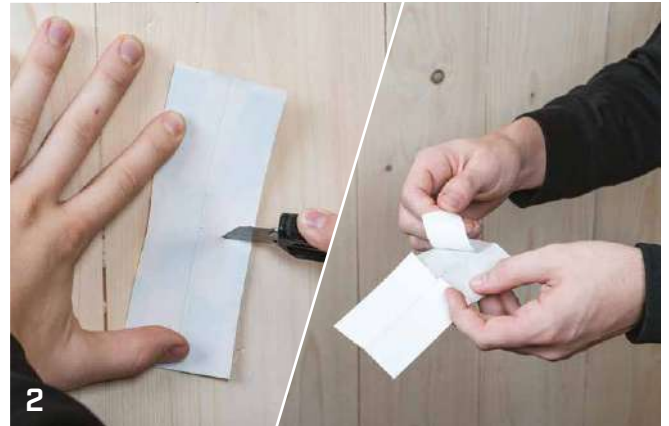
### SECURE

Reinforced paper support, ideal for indoor use; airtightness guaranteed over time.



## RECOMMENDATIONS FOR INSTALLATION

### CORNER DETAIL



2 MARLIN, CUTTER

4 ROLLER

## BEAM SEAL DETAIL



1 MARLIN, CUTTER

3 ROLLER

## WINDOW HOLE SEALING DETAIL



1 MARLIN, CUTTER

4 ROLLER





# EASY BAND

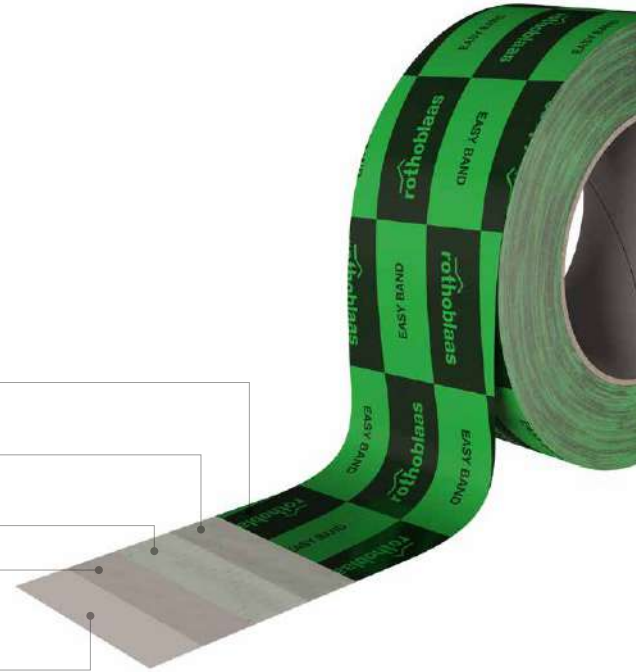
## UNIVERSAL SINGLE-SIDED TAPE

### VERSATILE

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

### INDUSTRIAL USE

Adhesive mix and available versions also designed for prefabrication.



## COMPOSITION

support  
PE film

glue  
acrylic dispersion without solvents

reinforcing layer  
polyester reinforcing grid

glue  
acrylic dispersion without solvents

release liner  
silicone coated paper

## TECHNICAL DATA

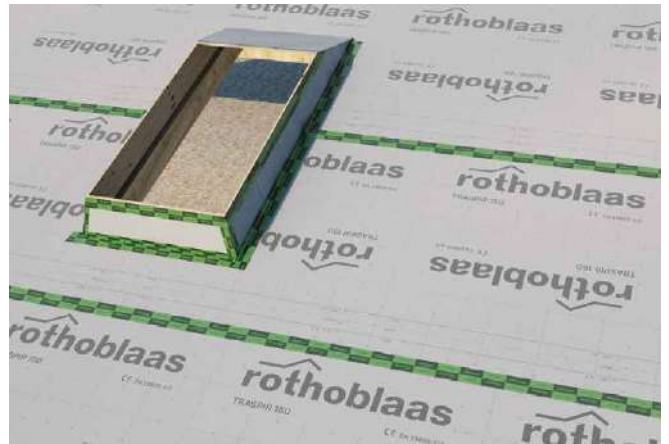
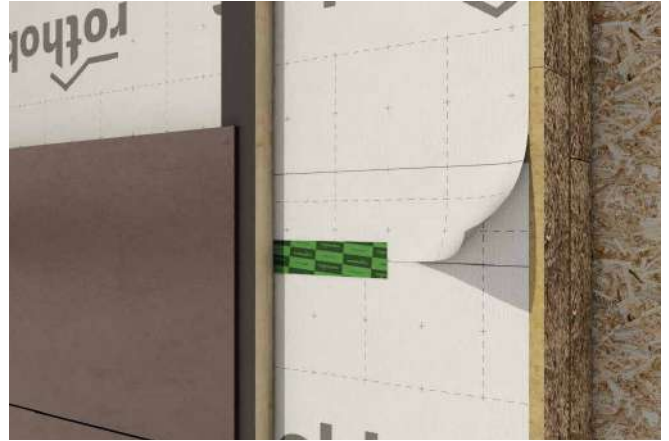
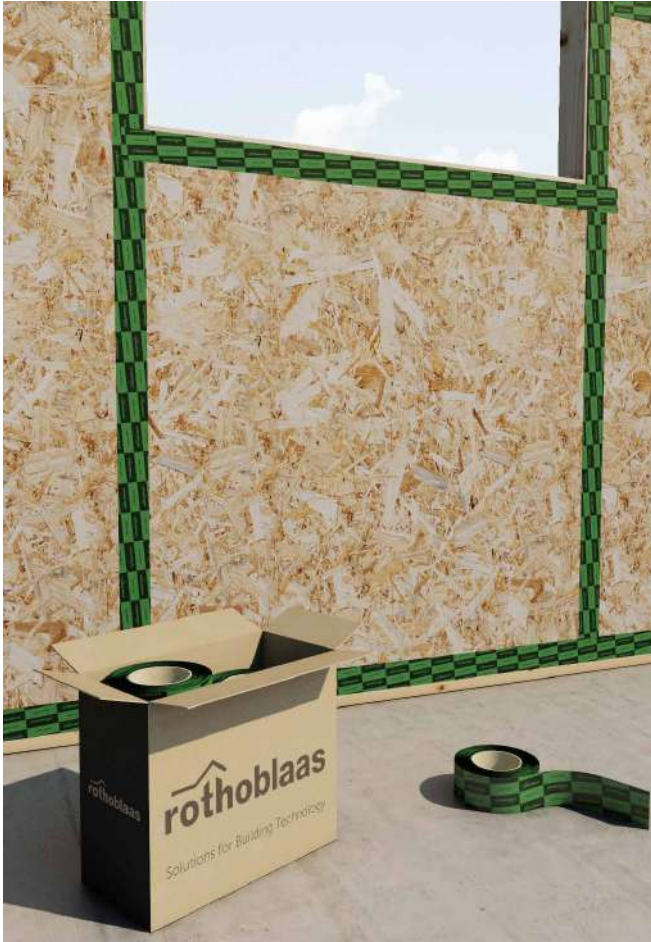
Properties	standard	value	USC conversion
Total thickness	-	0,28 mm	11 mil
Adhesiveness	EN 1939	> 35 N/25 mm	8 lbf/in
Water vapour transmission (Sd)	EN ISO 12572	40 m	0.09 US perm
UV resistance	-	4 months	-
Application temperature	-	-10 / +100 °C	+14 / +212 °F
Temperature resistance	-	-40 / +100 °C	-40 / +212 °F
Storage temperature <sup>(1)</sup>	-	+15 / +25 °C	+59 / +77 °F
Solvents	-	no	-
VOC emissions	EN 16516	55 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-
Ecode	GEV test procedure	EC1 plus	-

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	L	B	L	
	[mm]	[m]	[in]	[ft]	
EASY50	50	25	2.0	82	12
EASY60	60	25	2.4	82	10

## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



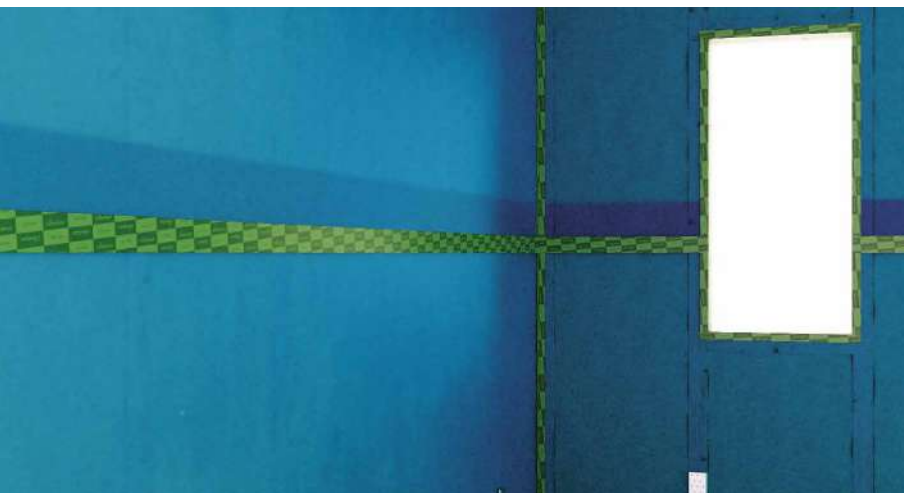
PRIMER SPRAY  
page 102



PRIMER  
page 103



CUTTER  
page 328



## PERFORMANCE COST

The packaging and the mix of glue and carrier made it possible to obtain a very good product at a low cost.

## ALSO FOR WARM CLIMATES

The type of glue, its quantity and the choice of carrier make this tape suitable for sealing on smooth surfaces and at high temperatures, preventing the tape from slipping in all those situations where the glue generally tends to soften.

# SPEEDY BAND



## UNIVERSAL SINGLE-SIDED TAPE WITHOUT RELEASE LINER

### FAST INSTALLATION

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

### SUSTAINABLE

The lack of a release film means less waste to dispose of.

## COMPOSITION

support  
PE film

glue  
solvent-free UV-crosslinked acrylic

reinforcing layer  
polyester reinforcing grid

glue  
solvent-free UV-crosslinked acrylic



## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	AFERA 5006	0,245 mm	10 mil
Adhesiveness on steel	AFERA 5001	≥ 25 N/25 mm	≥ 5.71 lbf/in
Adhesiveness on polyethylene	EN 12316-2	≥ 12,5 N/25 mm	≥ 2.86 lbf/in
Tear strength	EN 12317-2	≥ 90 N/50 mm	≥ 10.28 lbf/in
Water vapour transmission (Sd)	EN 1931	40 m	0.09 US perm
UV resistance	-	6 months	-
Watertightness	-	conforming	-
Application temperature	-	-10 / +30 °C	+14 / +86 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+5 / +30 °C	+41 / +86 °F
Solvents	-	no	-
French VOC classification	ISO 16000	A+	-

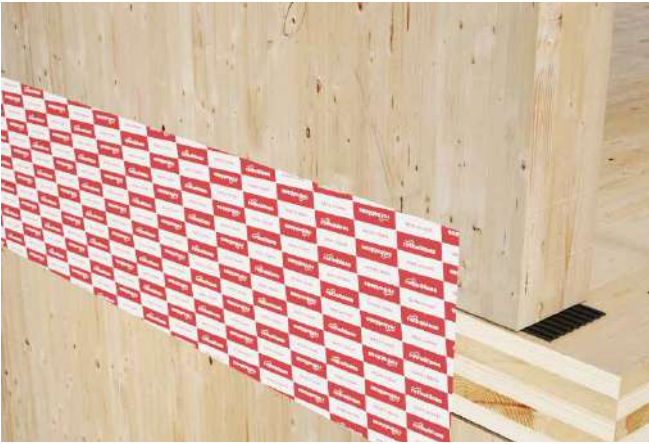
<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	
SPEEDY60	60	25	2.4	82	10
SPEEDY300	300	25	11.8	82	2



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



SPEEDY ROLL  
page 326

## ■ RANGE



SPEEDY60



SPEEDY300



### EASY TEAR

It can be easily torn off thanks to the serrated edges that facilitate directional breaking of the tape without the use of scissors or cutters.

### UNIVERSAL

Speed and good adhesion strength on most common building materials.

# FLEXI BAND

## UNIVERSAL SINGLE-SIDED HIGH-ADHESIVE TAPE



### UNIVERSAL

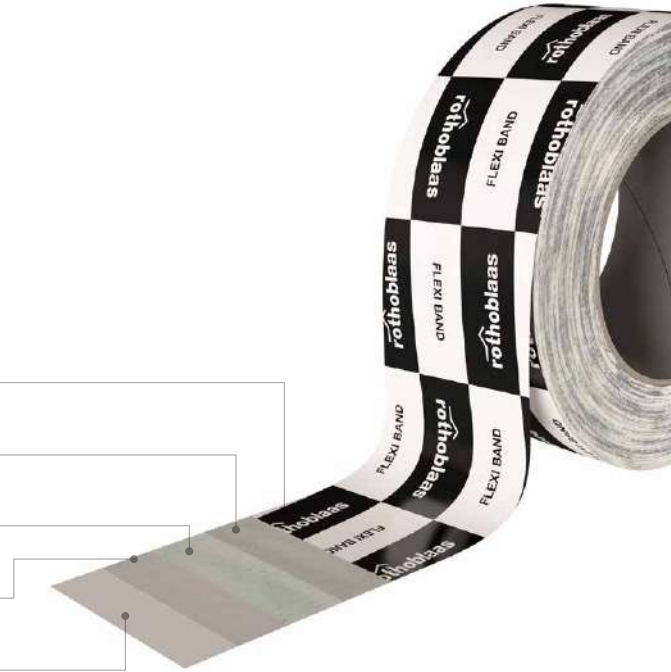
Excellent initial tack and superior adhesion strength on any surface.

### HIGH PERFORMANCE

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

## COMPOSITION

- support  
PE film
- glue  
acrylic dispersion without solvents
- reinforcing layer  
reinforcing polyester grid
- glue  
acrylic dispersion without solvents
- release liner  
silicone coated paper



## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	DIN EN 1942	0,34 mm	13 mil
Tear strength	DIN EN 14410	≥ 50 N/25 mm	≥ 11.42 lbf/in
Expansion capacity	DIN EN 14410	20%	-
Adhesiveness	DIN EN 1939	≥ 30 N/25 mm	≥ 6.85 lbf/in
Water vapour transmission (Sd)	EN 1931	approx. 45 m	-
	ASTM E96 (dry cup)	6,27 ng/(m <sup>2</sup> ·24h)	-
UV resistance		6 months	-
Application temperature		-10 / +40 °C	+14 / +104 °F
Temperature resistance		-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>		+5 / +25 °C	+41 / +77 °F
VOC content		23 µg/m <sup>3</sup>	-
Ecode	GEV test procedure	EC1 plus	-

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	liner	B	L	liner	B	L	
	[mm]	[mm]	[m]	[in]	[in]	[ft]	
FLEXI60	60	60	25	2.4	2.4	82	10
FLEXI100	100	100	25	3.9	3.9	82	6
FLEXI5050	50 / 50	100	25	2.0 / 2.0	3.9	82	6
FLEXI7575	75 / 75	150	25	3.0 / 3.0	5.9	82	4



## ■ FIELDS OF APPLICATION



## ■ PRODUCT RANGE



FLEXI160



FLEXI100



FLEXI5050



FLEXI7575  
fingerlift



### VERY LOW EMISSIONS

Thanks to the special formulation of the acrylic glue, the tape achieves the highest level of safety against harmful emissions.

### ALSO AT LOW TEMPERATURES

The combination of carrier and acrylic dispersion glue is designed for good adhesion even in extremely cold temperatures.

# FLEXI BAND UV

## UNIVERSAL SINGLE-SIDED ADHESIVE TAPE WITH HIGH UV STABILITY AND HEAT RESISTANCE

### UV STABILITY AND AGEING

The special carrier is designed to offer excellent UV stability, while maintaining mechanical and adhesion properties over time due to excellent ageing resistance.

### HEAT-RESISTANT UP TO 120°C

The combination of glue and polypropylene carrier makes it possible to achieve very high thermal stability without compromising the glue adhesion and viscosity.

## COMPOSITION

support	PP film
glue	acrylic dispersion without solvents
reinforcing layer	reinforcing polyester grid
glue	acrylic dispersion without solvents
release liner	silicone coated paper




## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	-	0,33 mm	13 mil
Tear strength	EN ISO 527	70 N/10mm	40 lbf/in
Expansion capacity	EN ISO 527	500%	-
Adhesiveness	EN 1939	> 35 N/25 mm	> 8 lbf/in
Water vapour transmission (Sd)	EN 1931	20 m	0.17 US perm
Water vapour resistance factor (μ)	EN 1931	28500	47.03 MN·s/g
UV resistance	-	12 months	-
Application temperature	-	> -10 °C	> +14 °F
Temperature resistance	-	-40 / +120 °C	-40 / +248 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-
VOC emissions	ISO 16000	130 μg/m <sup>3</sup>	-

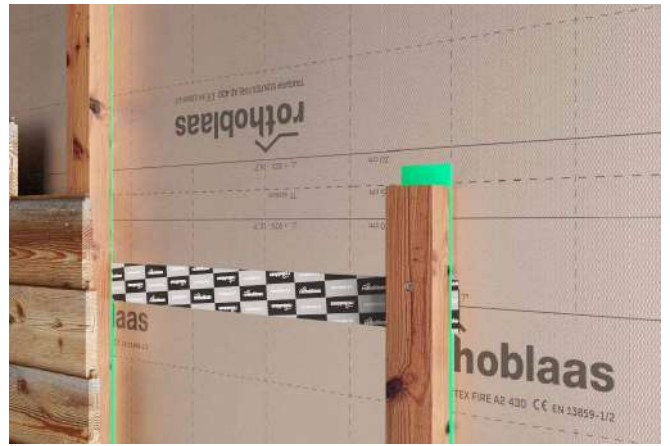
<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	L	B	L	
	[mm]	[m]	[in]	[ft]	
FLEXIU60	60	25	2.4	82	10



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



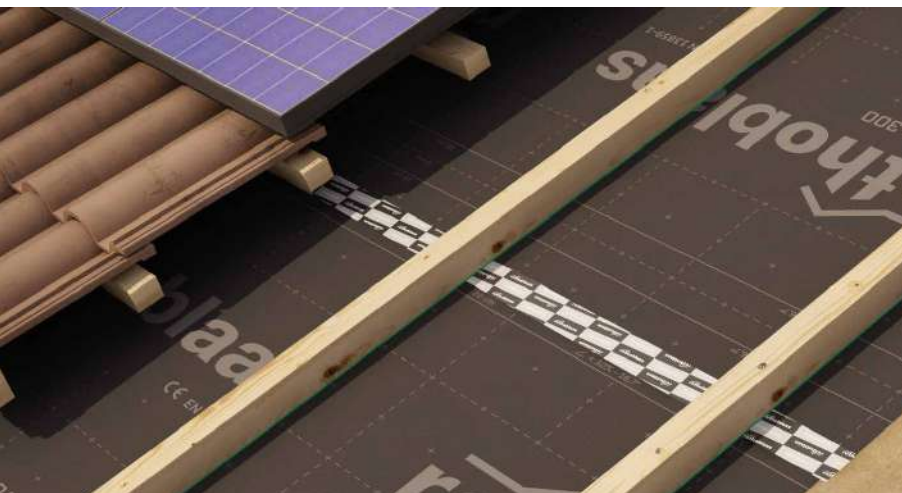
**PRIMER SPRAY**  
page 102



**ROLLER**  
page 326



**CUTTER**  
page 328



### FLEXIBILITY

The carrier is made of a special copolymer mix that ensures high elasticity and deformation capacity for the most difficult details without reducing mechanical strength.

### SPECIAL GLUE

The solvent-free acrylic glue mix ensures excellent adhesion on most common supports. In addition, it is extremely stable at high temperatures so that it does not extend at the tape edges and create problems during transport and installation.

# FACADE BAND UV

## UNIVERSAL SINGLE-SIDED TAPE, RESISTANT TO UV RAYS

### UV STABILITY

Ideal for façade sealing and for overlapping on UV-ray resistant membranes.

### INVISIBLE

Developed for application on TRASPIR for façade and TRASPIR EVO 300 for excellent aesthetic performance.

## COMPOSITION

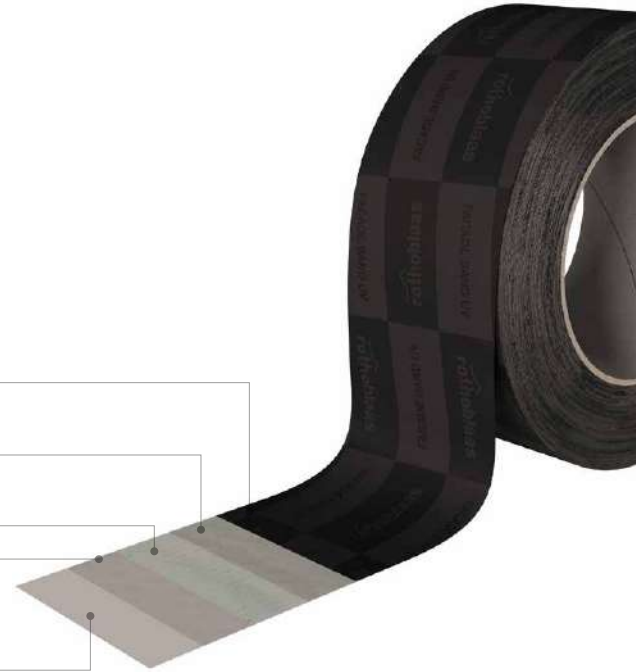
support  
PP film

glue  
acrylic dispersion without solvents

reinforcing layer  
reinforcing polyester grid

glue  
acrylic dispersion without solvents

release liner  
silicone coated paper




## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	EN 1942	0,32 mm	12.6 mil
Tear strength	EN ISO 527	70 N/10 mm	40 lbf/in
Elongation at failure	EN ISO 527	500%	-
Adhesiveness	EN 1939	35 N/25 mm	8 lbf/in
Water vapour transmission (Sd)	EN 1931	20 m	0.17 US perm
Water vapour resistance factor ( $\mu$ )	EN 1931	28500	47.03 MN-s/g
Watertightness	-	conforming	-
UV resistance with joints up to 50 mm wide exposing up to 40% of the surface	-	permanent	-
UV resistance	-	12 months	-
Temperature resistance	-	-40 / +120 °C	-40 / +248 °F
Application temperature	-	> -10 °C	> +14 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
VOC emissions	ISO 16000	130 $\mu\text{g}/\text{m}^3$	-

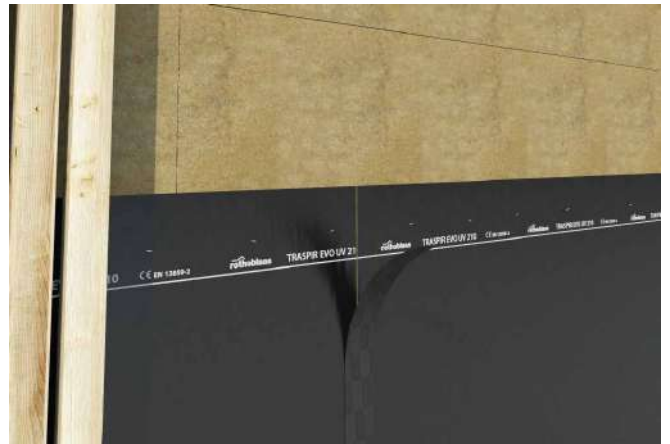
<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	
FACADEUV60	60	25	2.4	82	10



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



TRASPIR EVO UV 115  
page 254



THERMOWASHER  
page 145



DGZ  
page 144



### SAFETY

High adhesion even at high and low temperatures, for a secure, airtight fastening.

### HEAT-RESISTANT UP TO 120°C

The combination of glue and polypropylene carrier makes it possible to achieve very high thermal stability without compromising the glue adhesion and viscosity.

# SOLID BAND

## ROBUST SINGLE-SIDED ADHESIVE TAPE SUITABLE FOR LOW TEMPERATURES

### VERSATILE

It can be supplied with either a pre-cut or full liner, making it suitable for sealing concave or convex parts with great precision.

### EXTREMELY STRONG

The special modified polymer carrier ensures high resistance to mechanical stress without deformation during use.

## COMPOSITION

support  
PP film

glue  
acrylic dispersion without solvents

release liner  
silicone coated paper



## TECHNICAL DATA

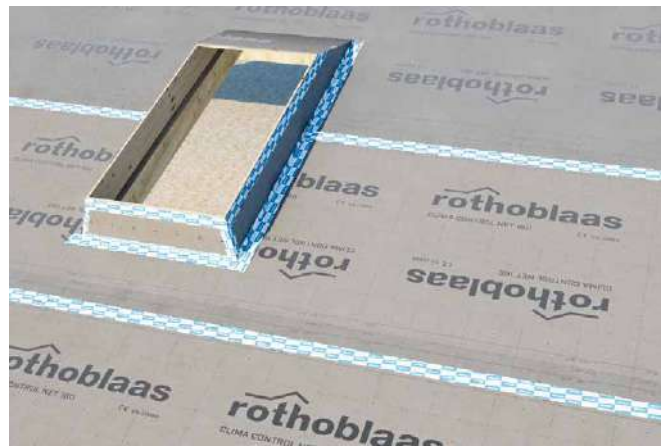
Properties	standard	value	USC conversion
Thickness	-	0,24 mm	9.5 mil
Adhesion to OSB	ASTM D3330	2,6 N/10mm	≥ 1.48 lbf/in
Adhesion to steel	ASTM D3330	2,6 N/10mm	≥ 1.48 lbf/in
Adhesion to vinyl	ASTM D3330	2,6 N/10mm	≥ 1.48 lbf/in
Adhesion to plywood	ASTM D3330	2,6 N/10mm	≥ 1.48 lbf/in
Adhesion to its cladding material	ASTM D3330	2,6 N/10mm	≥ 1.48 lbf/in
Elongation at failure	ASTM D 1000	≥ 400 %	-
Water vapour transmission (Sd)	-	> 18 m	< 0.19 US perm
UV-resistant	-	3 months	-
Tightness in heavy rain	-	conforming	-
Application temperature	-	-18 / +40 °C	-0.4 / +104 °F
Temperature resistance	-	-30 / +80 °C	-22 / +176 °F
Storage temperature	-	+5 / +30 °C	+41 / +86 °F

Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	liner	B	L	liner	B	L	
	[mm]	[mm]	[m]	[in]	[in]	[ft]	
SOLID60	60	60	25	2.4	2.4	82	10
SOLID3030	30 / 30	60	25	1.2 / 1.2	2.4	82	10

## ■ FIELDS OF APPLICATION



## ■ PRODUCT RANGE



SOLID60



SOLID3030



### LOW TEMPERATURES -18°C

It has excellent adhesion at low temperatures without the need for primer or heating.

### PRE-SHAPEABLE

The special mix of the support ensures high workability even in extremely harsh environmental conditions, allowing the pre-cut liner to be pre-bent and removed as desired.



# SMART BAND

## UNIVERSAL SINGLE-SIDED TAPE WITH SEPARABLE LINER

### SPECIAL LINER

The product has a unique separating film which, thanks to a special treatment, can be divided at any point without pre-cutting, thus adapting to any installation requirement.

### FLASHING TAPE

It meets all the requirements to be classified as a tape for sealing external doors or windows, ensuring maximum safety even in case of stagnating water.

## COMPOSITION

#### support

PE special film

#### support

UV-stabilised PE film

#### glue

acrylic dispersion without solvents

#### release liner

PP film with easy splitting




## TECHNICAL DATA

Properties	standard	value	USC conversion
Thickness	-	0,24 mm	9.5 mil
Adhesion to OSB	ASTM D3330	≥ 5 N/10mm	≥ 2.86 lbf/in
Adhesion to steel	ASTM D3330	≥ 12 N/10mm	≥ 6.85 lbf/in
Adhesion to vinyl	ASTM D3330	≥ 5 N/10mm	≥ 2.86 lbf/in
Adhesion to plywood	ASTM D3330	≥ 5 N/10mm	≥ 2.86 lbf/in
Adhesion to its cladding material	ASTM D3330	≥ 10 N/10mm	≥ 5.71.86 lbf/in
Tensile strength	ASTM D 1000	3000 N/mm	17.13 lbf/mil
Elongation at failure	ASTM D 1000	≥ 400 %	-
Water vapour transmission (Sd)	-	> 18 m	< 0.19 US perm
UV-resistant	-	12 months	-
Tightness in heavy rain	-	conforming	-
Application temperature	-	-10 / +40 °C	+14 / +104 °F
Temperature resistance	-	-30 / +80 °C	-22 / +176 °F
Storage temperature	-	+5 / +30 °C	+41 / +86 °F

In order to measure adhesion, it was necessary to avoid stretching by applying another tape to the support.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	L	B	L	
	[mm]	[m]	[in]	[ft]	
SMART60	60	25	2.4	82	10
SMART75	75	25	3.0	82	8
SMART100	100	25	3.9	82	6
SMART150	150	25	5.9	82	4



## ■ FIELDS OF APPLICATION



## ■ PRODUCT RANGE



SMART60



SMART75



SMART100



SMART150



### PUNCTURE RESISTANT

The special composition of the support makes it particularly resistant to tearing and mechanical stress, thanks to its high deformability.

### SMART

The tape is unique and extremely versatile. Thanks to the easy-splitting liner, only a few sizes can be stored to meet any construction requirement.



## RECOMMENDATIONS FOR INSTALLATION

### WINDOW HOLE SEALING



3 MARLIN, CUTTER

5 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES





# PLASTER BAND

SPECIAL HIGH-ADHESION TAPE,  
CAN BE ALSO PLASTERED

## EXCELLENT ADHESIVENESS

Its excellent adhesiveness makes it ideal for application on most surfaces, even at low temperatures.

## CAN BE PLASTERED

Thanks to its special composition, it controls the flow of vapour perfectly and also guarantees a perfect airtightness.

## COMPOSITION

support

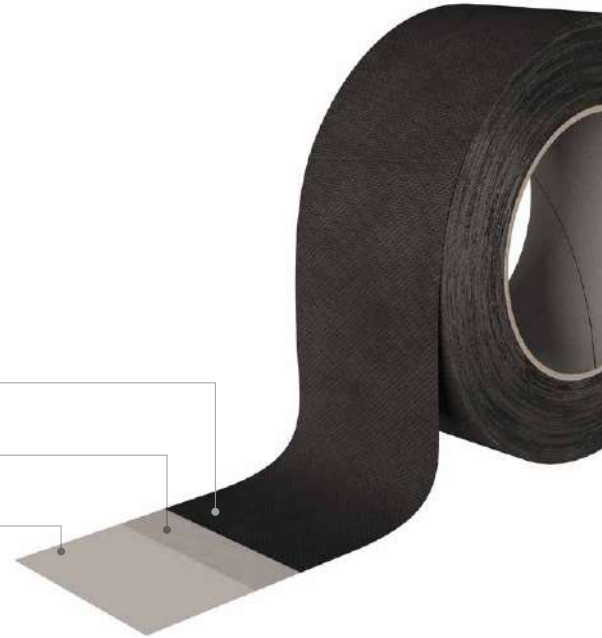
breathable 2-layer PP membrane

adhesive

acrylic dispersion without solvents


release liner

silicone coated paper




## CODES AND DIMENSIONS


### PLASTER BAND

CODE	liner [mm]	B [mm]	t [mm]	T [mm]	L [m]	liner [in]	B [in]	L [ft]	
1 PLASTER60	60	60	-	60	25	2.4	2.4	82	10

### PLASTER BAND IN

CODE	liner [mm]	B [mm]	t [mm]	T [mm]	L [m]	liner [in]	B [in]	L [ft]	
2 PLASTIN1560	15 / 60	75	-	75	25	0.6 / 2.4	3.0	82	5
2 PLASTIN1585	15 / 85	100	-	100	25	0.6 / 3.4	4.0	82	4
2 PLASTIN15135	15 / 135	150	-	150	25	0.6 / 5.3	5.9	82	2
3 PLASTIN7520	75	75	20	75	25	3.0	3.0	82	5
3 PLASTIN10020	100	100	20	100	25	3.9	3.9	82	4
3 PLASTIN15020	150	150	20	150	25	5.9	5.9	82	2

### PLASTER BAND OUT

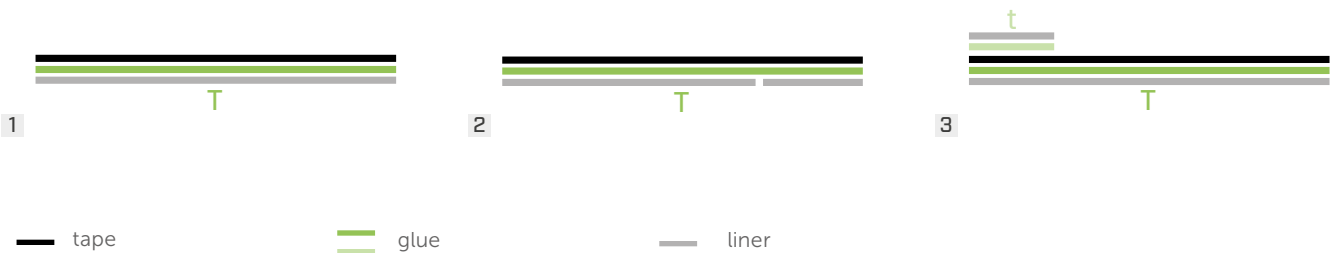
CODE	liner [mm]	B [mm]	t [mm]	T [mm]	L [m]	liner [in]	B [in]	L [ft]	
2 PLASTOUT1560	15 / 60	75	-	75	25	0.6 / 2.4	3.0	82	5
2 PLASTOUT1585	15 / 88	100	-	100	25	0.6 / 3.4	4.0	82	4
2 PLASTOUT15135	15 / 135	150	-	150	25	0.6 / 5.3	5.9	82	2
2 PLASTOUT15185	15 / 185	200	-	200	25	0.6 / 7.3	7.9	82	2
3 PLASTOUT7520	75	75	20	75	25	3.0	3.0	82	5
3 PLASTOUT10020	100	100	20	100	25	3.9	3.9	82	4
3 PLASTOUT15020	150	150	20	150	25	5.9	5.9	82	2
3 PLASTOUT20020	200	200	20	200	25	7.9	7.9	82	2



## ■ FIELDS OF APPLICATION



## ■ RANGE



### RESISTANT SEPARATION FILM

The PP liner allows the tape to be applied even in tight spaces and corners, avoiding the risk of the tape breaking when it is removed.

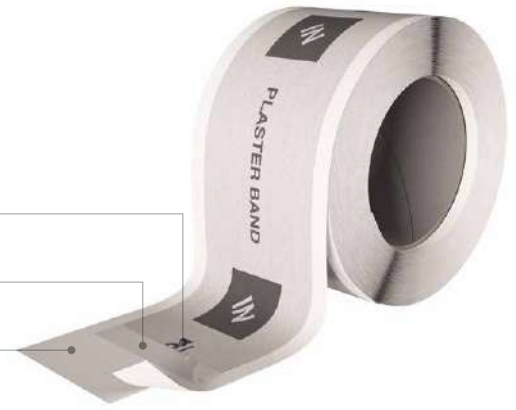
### EASY INSTALLATION AND AESTHETIC PERFORMANCE

The pre-cut liner allows for precise and fast application with a high level of aesthetics and the possibility of perfectly concealing the tape behind claddings or plaster.

# PLASTER BAND IN

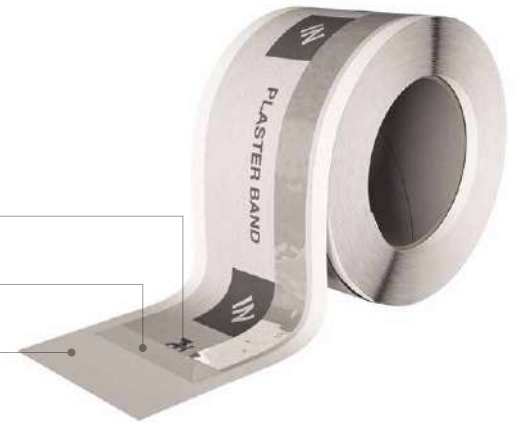
## COMPOSITION

- support  
2-layer PP vapour control membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
easy-release PP film



## COMPOSITION

- support  
2-layer PP vapour control membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
easy-release PP film



## TECHNICAL DATA

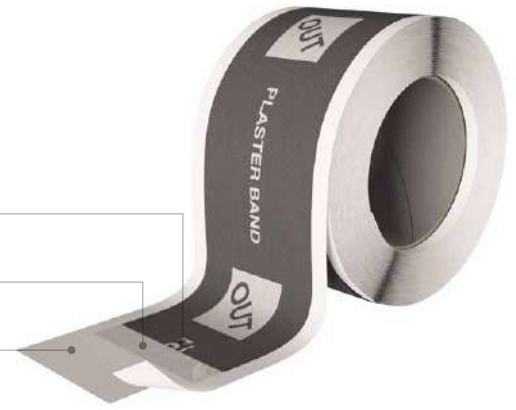
Properties	standard	value	USC conversion
Total thickness	DIN 53855	0,5 mm	20 mil
Mass per unit area	EN 1848-2	300 g/m <sup>2</sup>	113.9 oz/ft <sup>2</sup>
Water vapour transmission (Sd)	EN 1931	> 10 m	< 0.35 US perm
Maximum tensile force MD/CD	EN 12311-1	115 / 75 N/50 mm	13.13/8.57 lbf/in
Elongation MD/CD	EN 12311-1	75 / 80%	-
Watertightness	EN 13984	W1	-
Tightness in heavy rain	EN 1027	≥ 1050 Pa	-
Air permeability	EN 1026	≤ 0,1 m <sup>3</sup> /(h·m·(daPa) <sup>2/3</sup>	-
UV-resistant	-	3 months	-
Reaction to fire	EN 13501-1	class E	-
Application temperature	-	> +5 °C	> +41 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-
Ecode	GEV test method	EC1 plus	-

<sup>(1)</sup>Store the product in a dry, covered location for no more than 24 months.  
Waste classification (2014/955/EU): 08 04 10.

# PLASTER BAND OUT

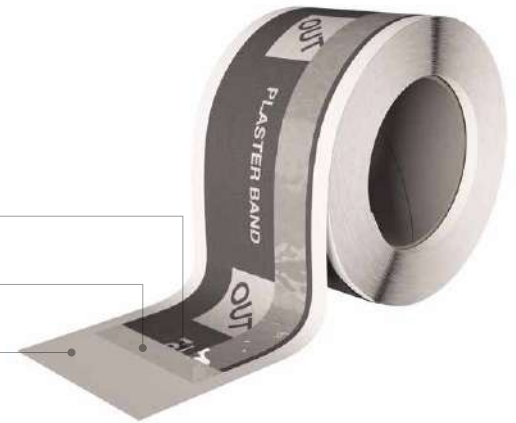
## COMPOSITION

- support  
breathable 2-layer PP membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
easy-release PP film



## COMPOSITION

- support  
breathable 2-layer PP membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
easy-release PP film

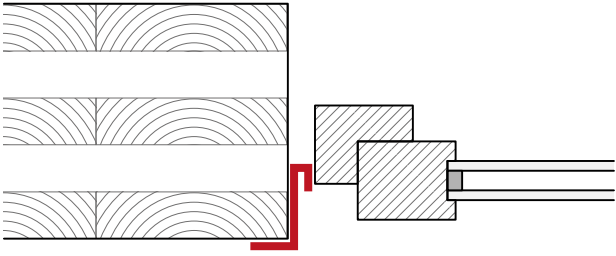


## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	DIN 53855	0,7 mm	28 mil
Mass per unit area	EN 1848-2	360 g/m <sup>2</sup>	-
Water vapour transmission (Sd)	EN 1931	< 1 m	> 3.5 US perm
Maximum tensile force MD/CD	EN 12311-1	290 / 190 N/50 mm	-
Elongation MD/CD	EN 12311-1	75 / 135%	-
Watertightness	EN 13984	W1	-
Tightness in heavy rain	EN 1027	≥ 1050 Pa	-
Air permeability	EN 1026	≤ 0,1 m <sup>3</sup> /(h·m·(daPa) <sup>2/3</sup>	-
UV-resistant	-	12 months	-
Reaction to fire	EN 13501-1	class E	-
Application temperature	-	> -10 °C	> +14 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-
Ecode	GEV test method	EC1 plus	-

<sup>(1)</sup>Store the product in a dry, covered location for no more than 24 months.  
Waste classification (2014/955/EU): 08 04 10.

RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND IN  
APPLICATION OF THE TAPE BEFORE INSTALLATION OF THE WINDOW/DOOR FRAME

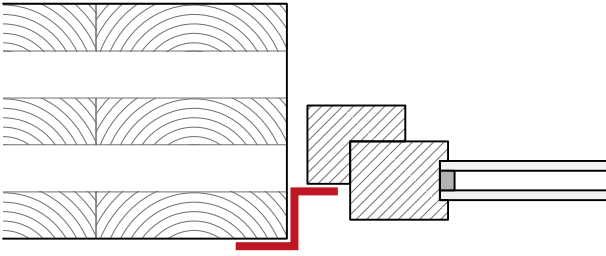


7 ROLLER



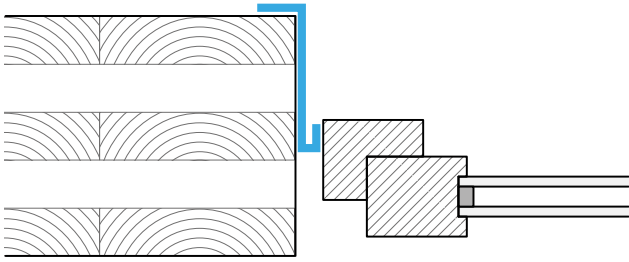
## RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND IN

SEALING WITH WINDOW/DOOR ALREADY INSTALLED



## RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND OUT

APPLICATION OF THE TAPE BEFORE INSTALLATION OF THE WINDOW/DOOR FRAME

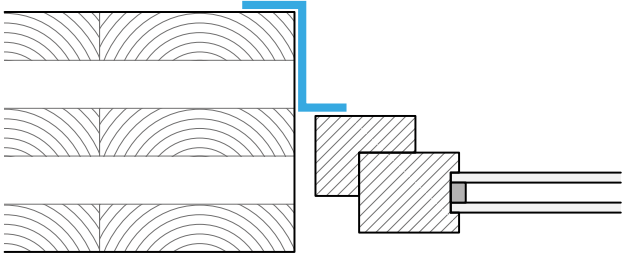


4 EXPAND BAND, WINDOW BAND, FRAME BAND



## RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND OUT

SEALING WITH WINDOW/DOOR ALREADY INSTALLED



7 ROLLER

# PLASTER BAND LITE

TAPE WITH ADHESIVE MOUNTING STRIP,  
CAN BE PLASTERED

## COMPLETE RANGE

Available in several variants to ensure tightness on every installation surface. Also suitable for high thickness values of insulation or cladding due to its width of up to 200 mm.


## STEAM FLOW REGULATION

Available in two airtight versions for indoor and outdoor use. Indoor it acts as a vapour control layer, outdoor as a breathable layer.



## CODES AND DIMENSIONS

### PLASTER BAND LITE IN


CODE	B [mm]	t [mm]	T [mm]	L [m]	B [in]	L [ft]	
PLAIN7520	75	20	-	25	3.0	82	5
PLAIN10020	100	20	-	25	3.9	82	4
PLAIN15020	150	20	-	25	5.9	82	2
PLAIN20020	200	20	-	25	7.9	82	2

Versions without glue are also available on request.

### PLASTER BAND LITE IN WITH PLASTER GRID

CODE	B [mm]	t [mm]	T [mm]	L [m]	B [in]	L [ft]	
PLAINN7020	130 (70 + N)	20	-	30	5.1 (2.8 + N)	98	1
PLAINN12020	180 (120 + N)	20	-	30	7.1 (4.7 + N)	98	1

### PLASTER BAND LITE OUT

CODE	B [mm]	t [mm]	T [mm]	L [m]	B [in]	L [ft]	
PLAOUT7520	75	20	-	25	3.0	82	5
PLAOUT10020	100	20	-	25	3.9	82	4
PLAOUT15020	150	20	-	25	5.9	82	2
PLAOUT20020	200	20	-	25	7.9	82	2

Versions without glue are also available on request.



## ■ FIELDS OF APPLICATION



## ■ RANGE



— tape

— glue

— liner

.... grid



### COST-PERFORMANCE

The packaging and the mix of glue and carrier made it possible to obtain a very good product at a low cost.

### CAN BE PLASTERED

Technical fabric ideal for application under plaster. Also available in a version with a plaster grid for indoor use.

# PLASTER BAND LITE IN

## COMPOSITION

- support  
3-layer PP vapour control membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
PP film



## COMPOSITION

- plaster grid
- support  
3-layer PP vapour control membrane
- adhesive  
acrylic dispersion without solvents
- release liner  
PP film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Thickness	-	0,5 mm	20 mil
Water vapour transmission (Sd)	EN ISO 12572	≥ 10 m	≤ 0.35 US perm
Maximum tensile force MD/CD	EN 12311-1	115 / 75 N/50 mm	13.13 / 8.57 lbf/in
Elongation at break point MD/CD	EN 12311-1	≥ 40 / ≥ 70%	-
Watertightness	EN 1928	conforming	-
UV-resistant	-	3 months	-
Application temperature	-	+5 / +35 °C	+41 / +95 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+1 / +25 °C	+33.8 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

# PLASTER BAND LITE OUT

## COMPOSITION

support  
breathable three-layer PP membrane

adhesive  
acrylic dispersion without solvents

release liner  
easy-release PP film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Thickness	-	0,5 mm	20 mil
Water vapour transmission (Sd)	EN ISO 12572	≤ 1 m	≥ 3.5 US perm
Tensile strength	EN 12311-1	290 / 190 N/50 mm	33 / 22 lbf/in
Elongation at failure	EN 12311-1	≥ 40 / ≥ 70%	-
Watertightness	EN 1928	conforming	-
UV-resistant	-	3 months	-
Application temperature	-	+5 / +35 °C	+41 / +95 °F
Temperature resistance	-	-40 / +80 °C	-40 / +176 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.



### BREATHABLE

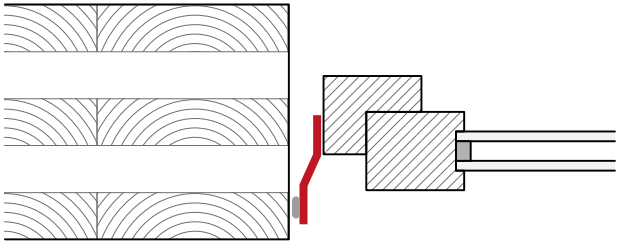
The product is made of a breathable membrane with the addition of an adhesive band. This also makes the product airtight and watertight.

### TECHNICAL FABRIC

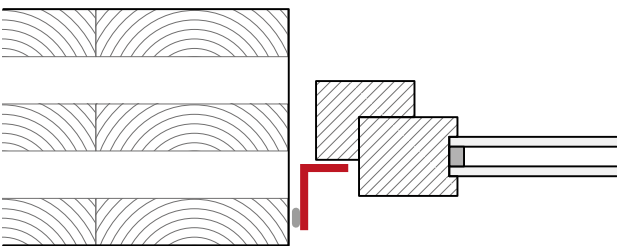
The surface is designed for places which need subsequent smoothing with plaster.

## RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND LITE IN

### APPLICATION OF THE TAPE BEFORE INSTALLATION OF THE WINDOW/DOOR FRAME



### SEALING WITH WINDOW/DOOR ALREADY INSTALLED

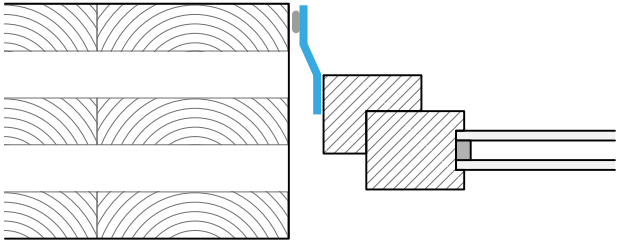


3 SUPERB GLUE, MEMBRANE GLUE, ECO GLUE



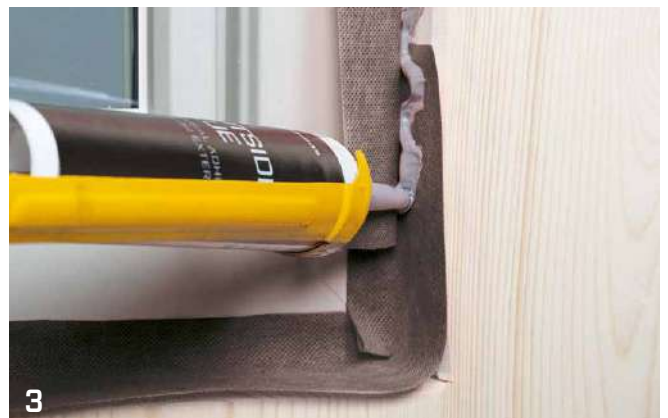
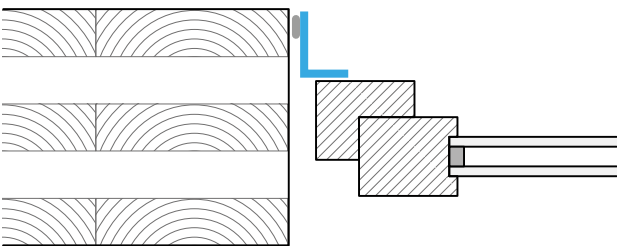
## RECOMMENDATIONS FOR INSTALLATION | PLASTER BAND LITE OUT

### APPLICATION OF THE TAPE BEFORE INSTALLATION OF THE WINDOW/DOOR FRAME



3 OUTSIDE GLUE

### SEALING WITH WINDOW/DOOR ALREADY INSTALLED



3 OUTSIDE GLUE

# FRONT BAND UV 210

UNIVERSAL SINGLE-SIDED TAPE,  
HIGHLY RESISTANT TO UV RAYS



## AESTHETICS

Support made of monolithic TRASPIR EVO UV 210 membrane for excellent aesthetic performance even when applied with TRASPIR EVO 300.

## REACTION TO FIRE B-s1,d0

Self-extinguishing tape that does not spread the flame in case of fire, contributing to the passive protection of the structure.

## COMPOSITION

support  
TRASPIR EVO UV 210

glue  
acrylic dispersion without solvents

release liner  
PP film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Total thickness	DIN EN 1942	0,6 mm	24 mil
Tear strength	DIN EN 14410	≥ 100 N/25 mm	≥ 22.84 lbf/in
Expansion capacity	DIN EN 14410	20%	-
Adhesiveness	DIN EN 1939	≥ 30 N/25 mm	≥ 6.85 lbf/in
Water vapour transmission (Sd)	EN 1931	0,1 m	35 US perm
UV resistance with joints up to 50 mm wide exposing up to 40% of the surface	-	permanent	-
Reaction to fire	EN 13501-1	class B-s1,d0	-
Watertightness	-	conforming	-
Temperature resistance	-	-30 / +100 °C	-22 / +212 °F
Application temperature	-	+5 / +40 °C	+41 / +104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a dry, covered location.

Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	
FRONTUV75	75	20	3.0	66	8

## ■ FIELDS OF APPLICATION



## ■ FIRE PROTECTION



TRASPIR EVO UV 210  
page 270



FIRE FOAM  
page 118



FIRE SEALING  
page 122 -124



### FIRE PROTECTION

The combination with TRASPIR EVO UV 210 or TRASPIR EVO 300 offers the first B-s1,d0 tested system available on the market.

### HEAT-RESISTANT UP TO 100°C

The product carrier is made from a new generation monolithic membrane, ensuring high levels of thermal and UV stability.

# TERRA BAND UV

## BUTYL ADHESIVE TAPE



### DECKS AND FACADES

Ideal for protecting joists from water and UV rays. Can be used for both patios and façades, protecting and extending the life of the wooden joists.

### PERMANENT UV STABILITY

The aluminised support guarantees unlimited resistance to UV radiation that can penetrate between open joints of patios and façades.

## COMPOSITION

#### support

UV-stable anthracite-coloured reinforced aluminium film

#### glue

grey adhesive butyl compound

#### release liner

PE film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Initial Tack	ASTM D 2979	8 N	1.8 lbf
Adhesion on steel at 180°	ASTM D 1000	20 N/cm	11.42 lbf/in
Vertical sliding	ISO 7390	0 mm	-
Maximum tensile force MD/CD	EN 12311-1	185 / 200 N/50 mm	21.13 / 22.84 lbf/in
Elongation at break point MD/CD	EN 12311-1	10 / 20 %	-
Water vapour resistance factor ( $\mu$ )	UNI EN 1931	2720000	10880 MN-s/g
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +90 °C	-22 / 194 °F
Application temperature	-	0 / +40 °C	+32 / 104 °F
Watertightness	-	conforming	-
UV-resistant	-	permanent	-
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / 104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	30 $\mu\text{g}/\text{m}^3$	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.

Waste classification (2014/955/EU): 08 04 99.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
TERRAUV75	75	0,8	10	3.0	31	33	8
TERRAUV100	100	0,8	10	3.9	31	33	6
TERRAUV200	200	0,8	10	7.9	31	33	4
TERRAUV400	400	0,8	10	15.8	31	33	2



## ■ FIELDS OF APPLICATION



## ■ PRODUCT RANGE



TERRAUV75



TERRAUV100



TERRAUV200



TERRAUV400



### SELF-SEALING AND SHAPEABLE

Soft and easily workable tape. The mix closes over the perforations and remains perfectly watertight.

### SPECIAL BUTYL MIX

The modified butyl formulation allows excellent durability even when subjected to thermal and UV stress.

# PRIMER SPRAY

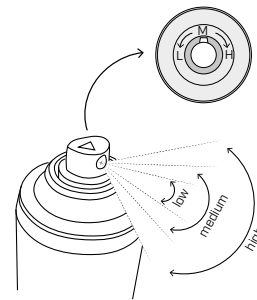
## UNIVERSAL SPRAY PRIMER FOR ACRYLIC ADHESIVE TAPES

### 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.



## TECHNICAL DATA

Properties	value	USC conversion
Composition	mix of thermoplastic adhesive and solvent	-
Colour	light amber	-
Time required for drying (20 °C / 50 %RH)	1-2 minutes	-
Application temperature (cartridge)	+15 / +25°C	+59 / +77 °F
Application temperature (support and ambient)	+15 / +25°C	+59 / +77 °F
Temperature resistance once dried	-10 / +100°C	+14 / +212 °F
Solvents	yes	-
French VOC classification	A+	-
VOC content	82% / 585 g/L	-
Transport temperature	+5 / +50°C	+41 / +122 °F
Storage temperature <sup>(1)</sup>	+15 / +35 °C	+59 / +95 °F
Storage time <sup>(2)</sup>	up to 12 months	-

<sup>(1)</sup>Store the product in a dry, covered location. <sup>(2)</sup>Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 16 05 04.

Aerosol 1 - H222, H229.

## CODES AND DIMENSIONS

CODE	content		
	[mL]	[US fl oz]	
PRIMERSPRAY	750	25.36	12



### FAST INSTALLATION

It allows even the roughest and most fibrous surfaces to be smoothed to accommodate the application of taping or sealants.

### ADJUSTABLE

Adjustable nozzle for a more precise application adapted to each situation. Simply turn the nozzle to increase or decrease the spray area.

# PRIMER



## UNIVERSAL PRIMER FOR ACRYLIC ADHESIVE TAPES

### UNOBTRUSIVE

Transparent, thanks to the solvent - free acrylic dispersion mixture.

### PRACTICAL

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



## TECHNICAL DATA


Properties	value	USC conversion
Composition	acrylic dispersion without solvents	-
Density EN 542 +20 °C	approx. 1,02 g/cm <sup>3</sup>	0.59 oz/in <sup>3</sup>
Viscosity	approx. 1700 mPa·s	-
Time required for complete drying (20 °C / 50 %RH)	approx. 15 min	-
Application temperature (cartridge)	+5 / +30 °C	+41 / +86 °F
Application temperature (ambient and support)	-10 / +30 °C	+14 / +86 °F
Temperature resistance once dried	-30 / +80 °C	-22 / +176 °F
French VOC classification	A+	-
Ecode (GEV test procedure)	EC1+	-
VOC content	0% - 0 g/L	-
Transport temperature	-26 / +35 °C	-14.8 / +95 °F
Storage temperature <sup>(1)</sup>	+15 / +25 °C	+59 / +77 °F

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months. Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 08 04 16.

EUH208 Contains CAS 55965-84-9 (3:1), CAS 2634-33-5. May produce an allergic reaction; EUH210 Safety data sheet available on request.

## CODES AND DIMENSIONS

CODE	content	yield	content	yield	
	[mL]	[mL/m <sup>2</sup> ]	[US fl oz]	[US fl oz/ft <sup>2</sup> ]	
PRIMER	1000	100 / 200	33.81	0.32 / 0.63	6



### PACKAGING

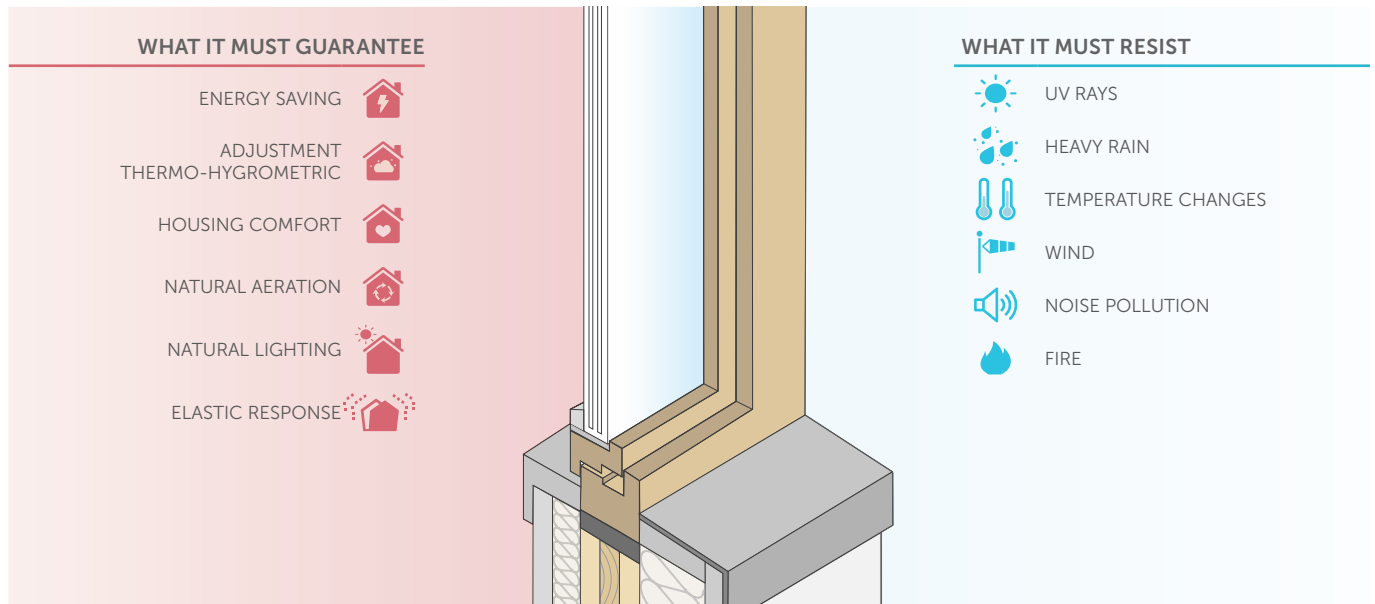
The new packaging allows immediate installation without the need for additional tools.

### RE-CLOSABLE

The cap seals the package hermetically, ensuring longer product life and preventing accidental spillage during transport.

# DOORS, WINDOWS AND STRUCTURE

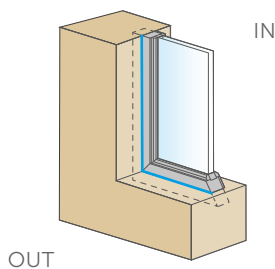
To ensure its effectiveness, a window/door must always be installed taking into account the principle of continuity of the wind and air tightness levels (see introduction on page 8). An improperly installed high-performance window or door frame will compromise the overall performance of the system and will not meet the needs of the end user.



## THREE LEVELS OF PROTECTION

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

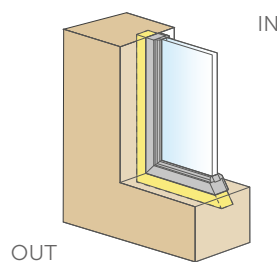
### WIND TIGHTNESS LEVEL



**The most external level must guarantee protection against weather.** If not properly treated, it can lead to problems of infiltration and accumulation of stagnant water at the bottom of the window hole.

Rothoblaas offers: START BAND, PROTECT, BYTUM BAND, FLEXI BAND, FLEXI BAND UV, FACADE BAND UV, SOLID BAND, SMART BAND, PLASTER BAND, PLASTER BAND LITE, MANICA PLASTER, TERRA BAND, ALU BUTYL BAND, BLACK BAND, MS SEAL

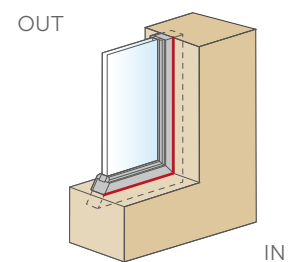
### THERMAL AND ACOUSTIC INSULATION LEVEL



**The intermediate level must guarantee thermal-acoustic performance and mechanical fixing.** When choosing products, bear in mind that a good anti-noise solution is not always thermally effective.

Rothoblaas offers: EXPAND BAND, WINDOW BAND, FRAME BAND, EASY FOAM, HERMETIC FOAM, FIRE FOAM

### AIRTIGHTNESS LEVEL



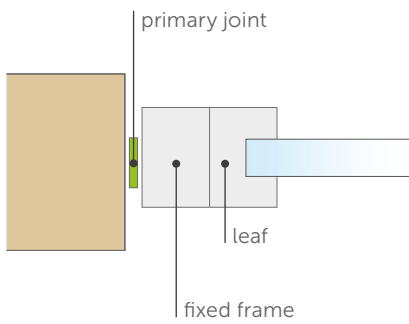
**The most internal level must be airtight.** Its function is to prevent the passage of vapour laden air, which could create condensation in the joints and mould on the surface.

Rothoblaas offers: SEAL BAND, FLEXI BAND, SOLID BAND, SMART BAND, PLASTER BAND, PLASTER BAND LITE, MANICA PLASTER, BLACK BAND, MS SEAL

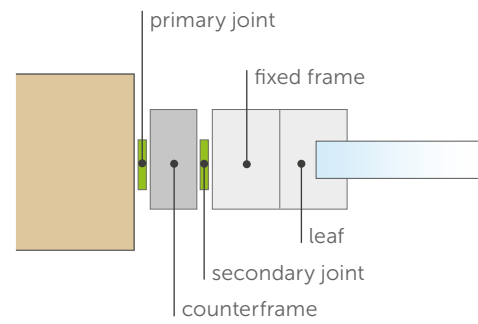


## PRIMARY JOINT AND SECONDARY JOINT

### INSTALLATION WITHOUT COUNTERFRAME

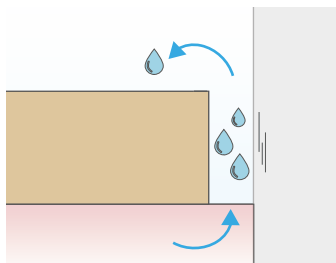


### INSTALLATION WITH COUNTERFRAME

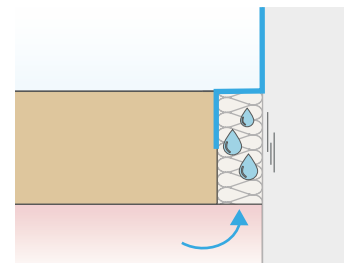


The **PRIMARY JOINT** is the first installation node between the structure and the counterframe. The **SECONDARY JOINT** is the junction between the counterframe and the frame.

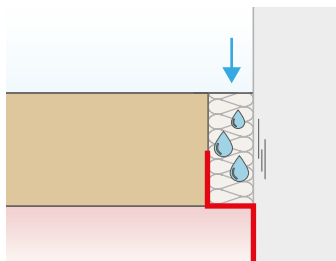
### CORRECT DESIGN OF THE INSTALLATION JOINT



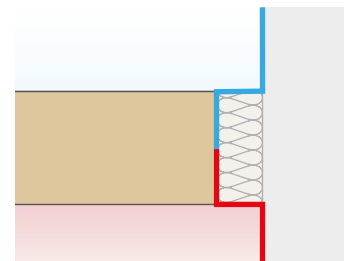
If the design or installation does not adequately take care of any of the three levels, there is a high probability of condensation and water infiltration into the structure.



The inner protection level is not sealed, but the outer level is sealed: there is a high risk of humidity-laden internal air penetrating the joints and forming condensation in the intermediate level.

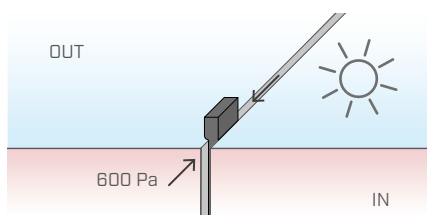


The inner protection level is sealed, the outer level is not: the joint is not effectively protected against wind and rain from outside.

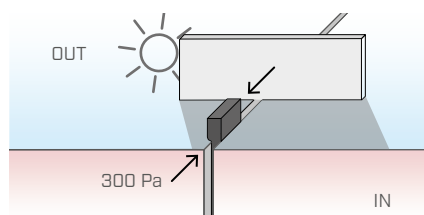


The three levels of protection are correctly designed and executed: the joint performs perfectly from an acoustic and thermo-hygrometric point of view.

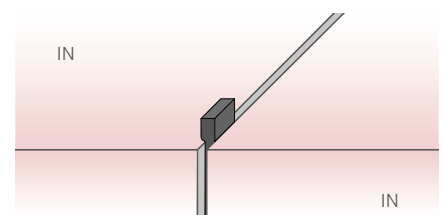
### FOCUS: THERMAL AND ACOUSTIC INSULATION LEVEL



**BG1:** in accordance with DIN 18542, BG1 tapes are suitable for outdoor use even when exposed to UV light and are watertight under a pressure of at least 600 Pa.



**BG2:** according to DIN 18542, BG2 tapes are suitable for outdoor use if not directly exposed to UV light; they guarantee watertightness under a pressure of at least 300 Pa.



**BGR:** according to DIN 18542, BGR tapes are not suitable for outdoor use and are impermeable to air and water vapour.

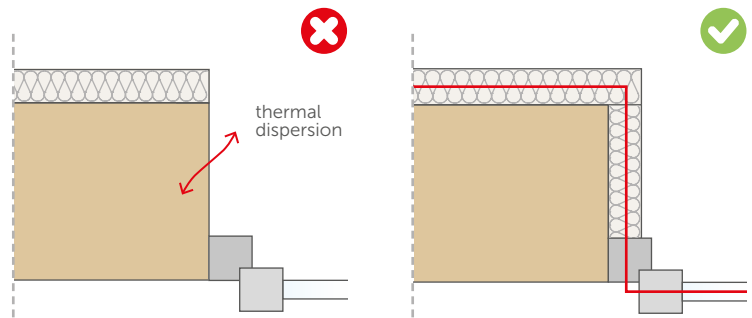
## THE WINDOW AND DOOR INSTALLATION PLAN AND ITS EFFECTS

Several factors determine this aspect: ranging from the building tradition of the place where the structure is built, the client's habits, the type of construction chosen. However, it is important to consider that the choice of window/door frame installation plan has an impact on the temperature trend in the construction node, and therefore on the general effectiveness of the installation. Continuity with the insulating layer that may be present in the layers of the wall should be searched for.

### INTERNAL FLUSH INSTALLATION

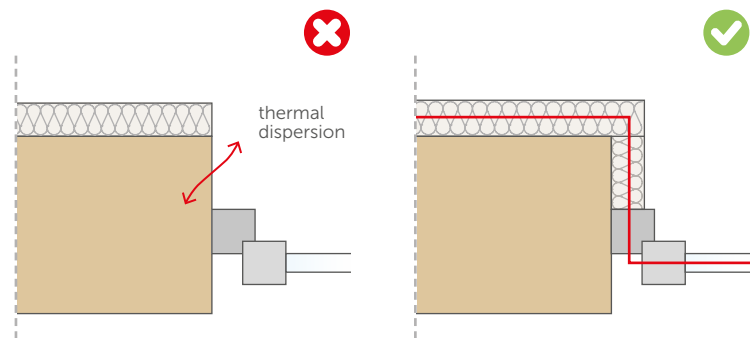
Some traditional local systems prefer it because it allows the full opening of the window/door. However, this is not an optimal solution from a thermal point of view, as the window/door is moved inwards and the risk of low internal surface temperatures is greater.

In order to avoid thermal bridges in buildings with external insulation, it is recommended that the side walls of the window hole are also insulated to join them to the external insulation.



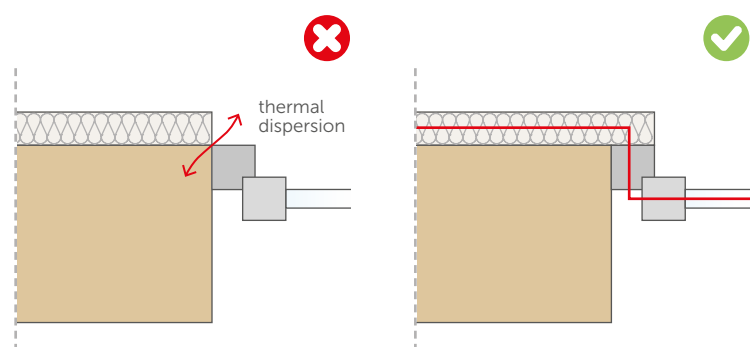
### CENTRAL FLUSH INSTALLATION

It is the most common in traditional building systems. It is advisable to also insulate the side walls of the window hole in order to join them to the external insulation and avoid thermal bridges. For frame structures with an insulated gap, this solution is also suitable. The mechanical connection of the window/door is made directly to the load-bearing structure of the building.



### EXTERNAL FLUSH INSTALLATION

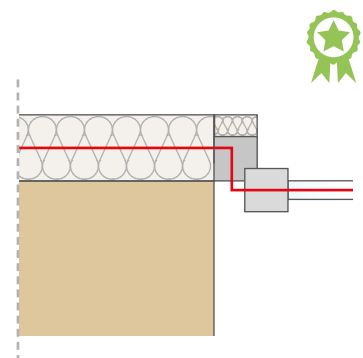
The external insulation must cover the fixed frame of the window/door and the subframe, if present, ensuring excellent internal surface temperatures. The mechanical connection of the window/door is made directly to the load-bearing structure of the building.



### INSTALLATION IN THE INSULATION LAYER

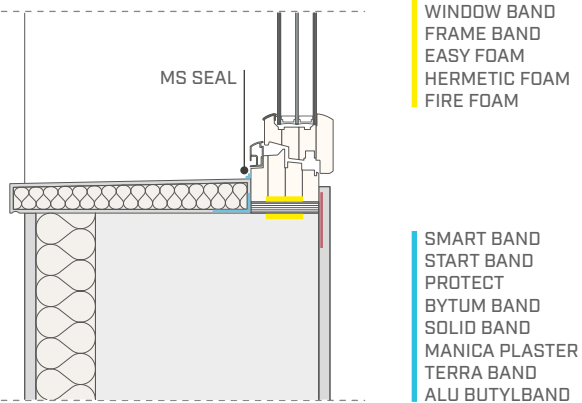
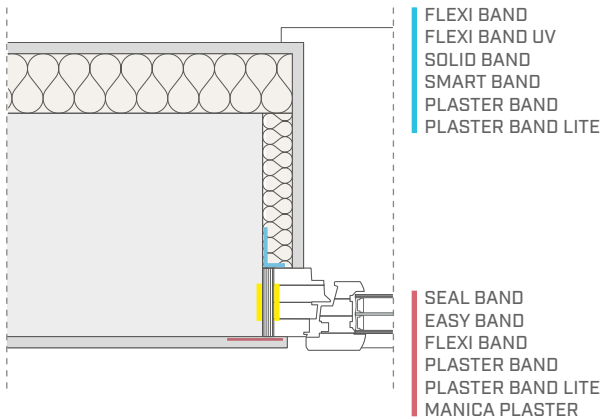
This solution is adopted in the most high-performance constructions. It allows the reduction of the linear thermal bridge value. It requires more care when installing the window/door and greater insulation thickness.

The mechanical connection of the window/door to the structure can be made by means of a timber counterframe suitably shaped in L or Z or by means of metal brackets. This is the configuration that allows to design the isothermal lines in the best possible way to avoid any thermal bridges.



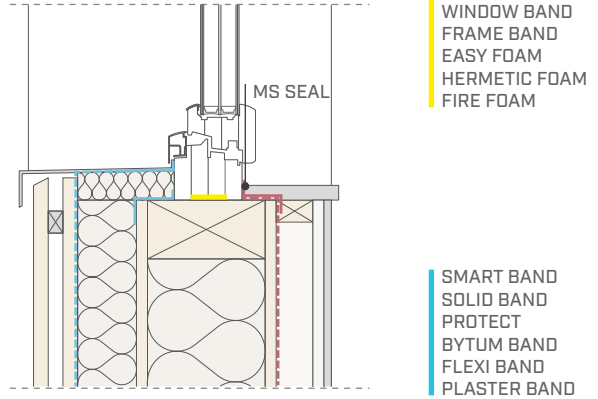
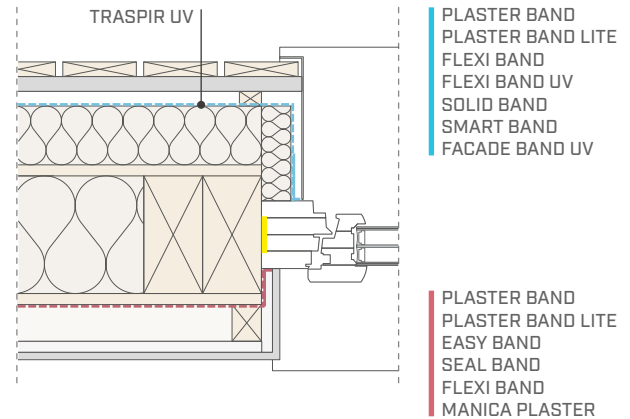
## MASONRY STRUCTURE

### INSTALLATION WITH FLUSH COUNTERFRAME



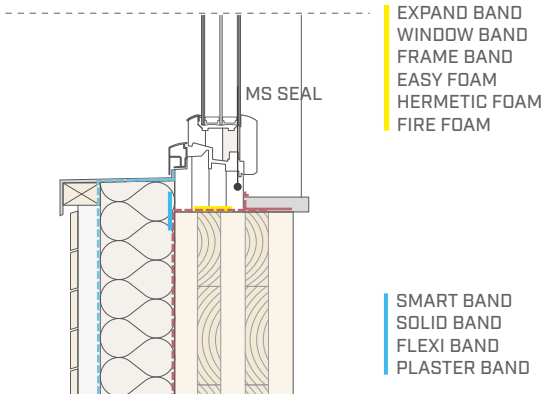
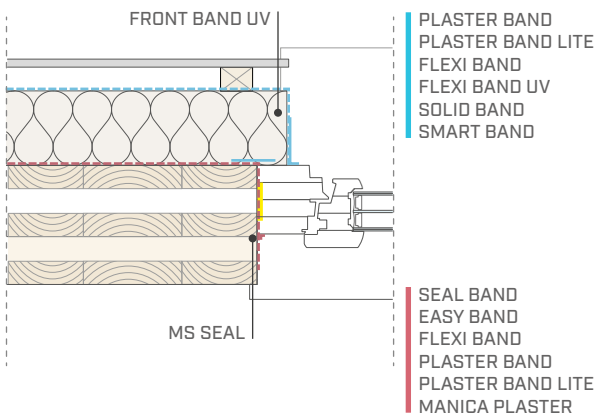
## TIMBER FRAME STRUCTURE

### INSTALLATION WITHOUT CENTRAL COUNTERFRAME



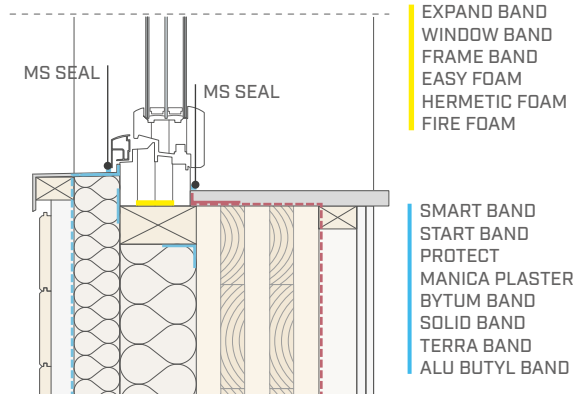
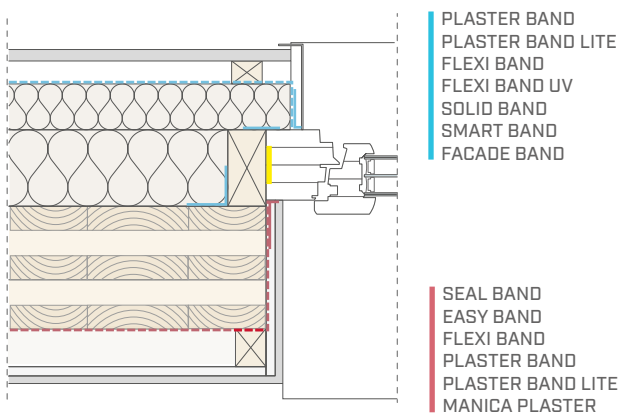
## CLT STRUCTURE

### INSTALLATION WITHOUT COUNTERFRAME FLUSH WITH THE OUTSIDE



## CLT STRUCTURE

### INSTALLATION WITH COUNTERFRAME



# EXPAND BAND

## SELF-EXPANDING SEALING TAPE

D  
DIN 18542  
BG 1

### PERMANENT ELASTIC EXPANSION

The tape self-expansion remains elastic and unchanged over time, providing protection from water, dust and wind.

### SAFETY

The modified polyurethane foam has passed the most stringent tests on harmful emissions, ensuring safe installation even indoors.

## COMPOSITION

### EXPAND BAND

elastic polyurethane foam with additives

release liner  
silicone coated paper


### EXPAND BAND EVO

elastic polyurethane foam with special film additives



## CODES AND DIMENSIONS

### EXPAND BAND

CODE	B			s			L			
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[in]	[mil]	[ft]	
EXPAND1014	10	1	4	13	0.4	39	157	43	48	
EXPAND1514	15	1	4	13	0.6	39	157	43	32	
EXPAND1549	15	4	9	8	0.6	157	354	26	32	
EXPAND15615	15	6	15	6	0.6	236	591	20	32	
EXPAND20920	20	9	20	4	0.8	354	787	13	24	
EXPAND40615	40	6	15	8	1.6	236	591	26	12	
EXPAND60615	60	6	15	8	2.4	236	591	26	8	

### EXPAND BAND EVO

CODE	B			s			L			
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[in]	[mil]	[ft]	
EXPANDEVO1014	10	1	4	20	0.4	39	157	66	48	

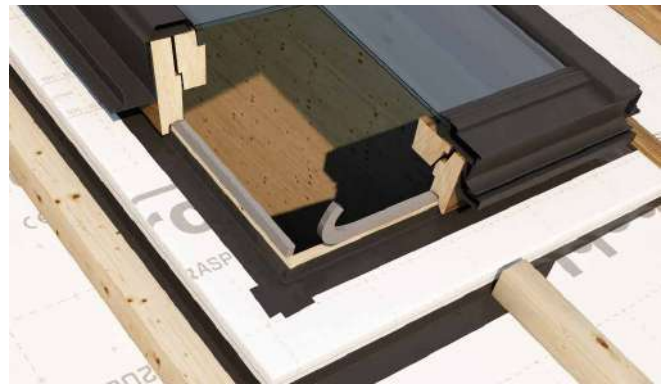
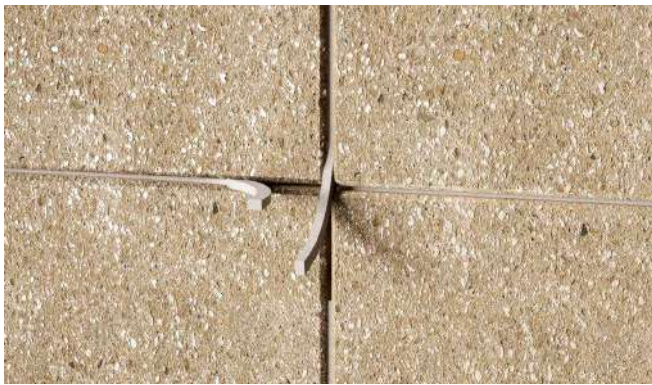


## TECHNICAL DATA

Properties	standard	value	USC conversion
Classification	DIN 18542	BG 1	-
Airtightness	EN 12114	$\alpha \leq 1,0 \text{ m}^3/(\text{h}\cdot\text{m}\cdot(\text{daPa})^n)$	-
Tightness in heavy rain	EN 1027	$\geq 750 \text{ Pa}$	-
Resistance to UV and weathering	DIN 18542	compliant with class BG 1	-
Compatibility with other building materials	DIN 18542	compliant with class BG 1	-
Water vapour transmission (Sd)	EN ISO 12572	$< 0,5 \text{ m}$	-
Reaction to fire	DIN 4102-1	class B1	-
Thermal conductivity ( $\lambda$ )	EN 12667	$\leq 0,043 \text{ W}/(\text{m}\cdot\text{K})$	$\leq 0.025 \text{ BTU}/\text{h}\cdot\text{ft}\cdot^\circ\text{F}$
Temperature resistance	-	$-30 / +90 \text{ }^\circ\text{C}$	$-22 / +194 \text{ }^\circ\text{F}$
Application temperature	-	$\geq +5 \text{ }^\circ\text{C}$	$\geq +41 \text{ }^\circ\text{F}$
Storage temperature <sup>(1)</sup>	-	$+1 / +20 \text{ }^\circ\text{C}$	$+33.8 / +68 \text{ }^\circ\text{F}$

<sup>(1)</sup>Store the product in a dry, covered location for no more than 24 months.  
Waste classification (2014/955/EU): 17 02 03.

## FIELDS OF APPLICATION



## RELATED PRODUCTS



CUTTER  
page 328



WINBAG  
page 326



KOMPRI CLAMP  
page 329



### EVO VERSION

The EVO version not only reduces waste and installation time because it has no separating layer, but also has a special film that keeps its shape without self-expanding as long as it is rolled up.

### SAFE PACKAGING

Supplied with a plastic core to prevent water and moisture absorption during construction, which could cause unwanted swelling.

# WINDOW BAND

## SELF-EXPANDING SEALING TAPE FOR WINDOWS/DOORS

D  
DIN 18542  
BG 1

### TRIPLE PROTECTION

It seals the joints of doors and windows from air and heavy rain while maintaining the thermal-acoustic properties over the entire depth.

### SELF-EXPANDING

Seals cracks between 6 and 15 mm, adjusting to the surface, and also ensures air and water tightness, serving as a vapour control layer.

## COMPOSITION

elastic polyurethane foam with additives



## TECHNICAL DATA

Properties	standard	value	USC conversion
Classification	DIN 18542	BG 1	-
Airtightness	EN 12114	$\alpha \leq 1.0 \text{ m}^3/(\text{h}\cdot\text{m}\cdot(\text{daPa})^n)$	-
Tightness in heavy rain	EN 1027	$\geq 600 \text{ Pa}$	-
Resistance to UV and weathering	DIN 18542	compliant with class BG 1	-
Compatibility with other building materials	DIN 18542	compliant with class BG 1	-
Water vapour resistance factor ( $\mu$ )	EN ISO 12572	$< 100$	-
Vapour pressure gradient	-	externally permeable	-
Reaction to fire	DIN 4102-1	class B1	-
Acoustic insulation of the joint	-	59 dB	-
Thermal conductivity ( $\lambda$ )	EN 12667	$\leq 0.043 \text{ W}/(\text{m}\cdot\text{K})$	$\leq 0.025 \text{ BTU}/\text{h}\cdot\text{ft}\cdot^\circ\text{F}$
Temperature resistance	-	$-30 / +90 \text{ }^\circ\text{C}$	$-22 / +194 \text{ }^\circ\text{F}$
Application temperature	-	$\geq +5 \text{ }^\circ\text{C}$	$\geq +41 \text{ }^\circ\text{F}$
Storage temperature <sup>(1)</sup>	-	$+1 / +20 \text{ }^\circ\text{C}$	$+33.8 / +68 \text{ }^\circ\text{F}$

<sup>(1)</sup>Store the product in a cool, dry place for no more than 24 months.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE	B			s			L			
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[in]	[mil]	[ft]	
WINDOW54615	54	6	15	15	2.1	236	591	49	7	
WINDOW74615	74	6	15	15	2.9	236	591	49	5	

## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



CUTTER  
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KOMPRI CLAMP  
page 329



### FAST INSTALLATION

The advantage of this is that it saves a considerable amount of time during assembly. With just one product it is possible to seal the three layers without the need for additional products.

### PERFORMING BG1

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





# FRAME BAND

## SELF-EXPANDING SEALING TAPE FOR WINDOWS/DOORS

### HERMETIC

Airtight and watertight, it interrupts possible acoustic bridges in the structure-window joint.

### PRACTICAL

Thanks to the adhesive strip, application is easy and precise without the need for further glue.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Classification	DIN 18542	BG 1	-
Air permeability (α)	EN 12114	0 m <sup>3</sup> /(h·m·(daPa) <sup>n</sup> )	-
Thermal conductivity (λ)	EN 12667	≤ 0,048 W/(m·K)	0.028 BTU/h·ft·°F
Water vapour transmission (Sd)	EN ISO 12572	indoor: 25 m outdoor: 0,5 m	-
Resistance to heavy rain	EN 1027	≥ 1050 Pa	-
Compatibility with other building materials	DIN 18542	compliant with class BG 1	-
Resistance to UV and weathering	DIN 18542	compliant with class BG 1	-
Reaction to fire class	DIN 4102-1	class B1	-
Acoustic insulation of joints R <sub>S,w</sub> (ift)	EN ISO 10140-1 EN ISO 10140-2 EN ISO 717-1	18 mm: ≥ 63 (-2;-5) dB	-
Temperature resistance		-30 / +80 °C	-22 / +176 °F
Application temperature		≥ +5 °C	≥ +41 °F
Storage temperature <sup>(1)</sup>		+5 / +20 °C	+41 / +68 °F
Emicode	GEV test procedure	EC1 plus	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 17 02 03.

## CODES AND DIMENSIONS

CODE											
	B	s		s <sub>max</sub>	L	B	s			s <sub>max</sub>	L
	[mm]	[mm]		[mm]	[m]	[in]	[mil]		[mil]	[ft]	
FRAME2054	54	2	12	20	30	2.1	79	472	787	98	7
FRAME2074	74	2	12	20	30	2.9	79	472	787	98	5



### PROFESSIONAL INSTALLATION

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

### VERSATILE

It effectively seals any type of crack between 2 and 10 mm, resisting heavy rain.



# FASTENING FOR WINDOWS AND DOORS: SAFETY AND RELIABILITY



Discover the wide range of fastening systems specifically designed for window/door installation, such as SHS small head screws also available in stainless steel versions, MBS screws for direct fixing to masonry and WKR reinforced angle brackets. It ensures the appropriate fastening to your windows and doors.



Scan the QR code and find out the characteristics of the MBS and SHS screws in the "Screws and connectors for timber" catalogue



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Solutions for Building Technology

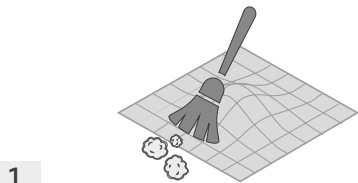
# SEAL WITH FOAM

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

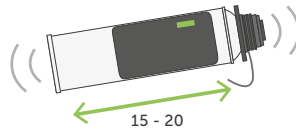
The biggest advantage offered by foam is its ability to penetrate inside the opening, ceiling, hollow space, or hole, and in general in all situations in which a sheet of material cannot be used.

**Note** It is always advisable to have the correct Personal Protective Equipment (PPE) and to consult the technical data sheet and safety data sheet before starting the application.



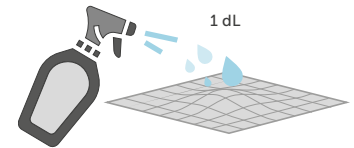
1.

The substrates must be resistant, clean, free of oil and grease, dust and dirt in general. Foam expands; fasten the support materials to prevent deformation and movement.



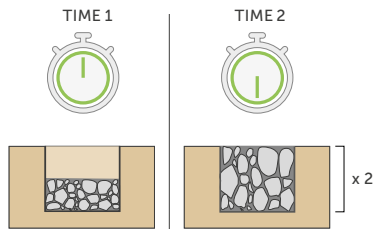
2.

Shake the can energetically at least 15-20 times before using, keeping it horizontal and repeating this operation after the processing intervals, if any.



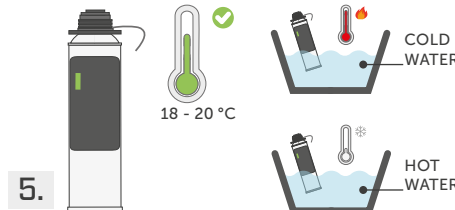
3.

To be able to form a uniform cell structure, it is important to moisten the surfaces. When more than one layer of foam is required, spray the surface of each layer before proceeding with the next one. We recommend about 1 dl of water each can.



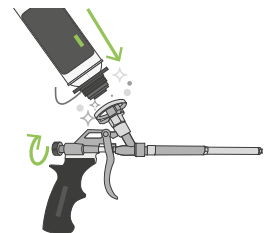
4.

Caution: do not fill the entire cavity because foam is self-expanding and increases its volume before it fully hardens. So, considering post expansion, apply only the necessary amount.



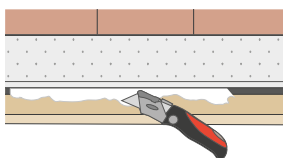
5.

For optimal performance work at an ambient temperature of approximately +20°. Tip: Immerse the can in warm or cool water to raise or lower the temperature of the mix.



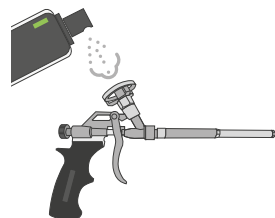
6.

Before inserting the can in the gun (CODE FLYFOAM), check that there is no foam residue from the last use. The guns are equipped with a specific valve that regulates the extrusion pressure, to dose the foam precisely.



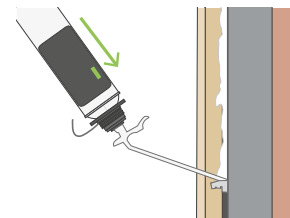
7.

Any surplus hardened foam can be cut off with a cutter or sanded down with sandpaper. All our foams can be cut.



8.

After use, carefully eliminate all foam residue from the gun. If it hardens inside, it could become unusable. The cleaner (CODE FLYCLEAN) is effective until the foam has hardened, after which the residues can only be removed mechanically.



9.

In addition to the traditional foams to be used with a foam gun, a manual foam (COD. EASYFOAMMAN) that requires no professional equipment for application and can be applied using the nozzle provided is also available.

# EASY FOAM

## GENERAL PURPOSE FOAM SEALANT



### VERY LOW EMISSIONS

Compatibility for indoor use tested and certified by EC1 plus.

### CONTROLLED EXPANSION

The special formula limits the foam post expansion, so that it does not create excessive pressure on the glued elements.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Film formation time 23 °C / 50% RH	-	9 - 13 min	-
Cutting time 23 °C / 50% RH	-	20 - 40 min	-
Time required for complete hardening	-	60 min	-
Thermal conductivity (λ)	EN 12667	0,030 - 0,035 W/(m·K)	0.017 - 0.02 BTU/h·ft·°F
Reaction to fire	DIN 4102-1	class B3	-
Temperature resistance once hardened	-	-40 / +90 °C	-40 / +194 °F
Application temperature (cartridge)	-	+15 / +30 °C	+59 / +86 °F
Application temperature (ambient and support)	-	+5 / +35 °C	+41 / +95 °F
Emicode	GEV test procedure	EC1 plus	-
French VOC classification	ISO 16000	A+	-
VOC content	-	19,4% / 191,2 g/L	-
Transport temperature	-	0 / +35 °C	+32 / +95 °F
Storage temperature <sup>(1)</sup>	-	+15 / +25 °C	+59 / +77 °F

<sup>(1)</sup>Store the product in a vertical position in a dry, covered location for no more than 18 months. Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 16 05 04

Aerosol 1. Acute Tox. 4. Acute Tox. 4. Skin Irrit. 2. Eye Irrit. 2. Resp. Sens. 1. Skin Sens. 1. Carc. 2. STOT SE 3. STOT RE 2. Lact. Aquatic Acute 1. Aquatic Chronic 1.

## CODES AND DIMENSIONS

CODE	content	yield	content	yield	cartridge	version	
	[mL]	[L]	[US fl oz]	[US gal]			
1 EASYFOAM	750	40	25.36	10.57	aluminium	gun	12
2 EASYFOAMMAN	750	25	25.36	6.60	aluminium	manual	12



### PRICE-QUALITY RATIO

It represents a good compromise between performance, elasticity and price, guaranteeing adhesion and tightness.

### COMPLETE RANGE

Available in manual or gun versions, both of which can be trimmed after drying.

# HERMETIC FOAM

## HIGH PERFORMING SOUNDPROOFING SEALING FOAM



### CERTIFIED NOISE REDUCTION

Up to 63 dB noise reduction, certified by the IFT Rosenheim institution (ISO 10140-1).

### AIRTIGHT EVEN AFTER TRIMMING

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



## TECHNICAL DATA

Properties	standard	value	USC conversion
Composition	-	Single component PU	-
Colour	-	white	-
Film formation time 23 °C / 50% RH	-	6 - 10 min	-
Cutting time 23 °C / 50% RH	-	20 - 40 min	-
Time required for complete hardening 23 °C / 50% RH	-	60 min	-
Thermal conductivity (λ)	FEICA TM1020/ EN 12667	0,030 - 0,035 W/(m·K)	0.017 - 0.02 BTU/h-ft·°F
Acoustic insulation of joints R <sub>S,w</sub> (ift)	EN ISO 10140-1	10 mm: ≥ 63 (-1;-5) dB	-
	EN ISO 10140-2 EN ISO 717-1	20 mm: ≥ 62 (-1;-5) dB	-
Water vapour resistance factor (μ)	EN 12086	36	-
Reaction to fire	DIN 4102-1	class B3	-
	EN 13501-1	class F	-
Temperature resistance once hardened	-	-40 / +90 °C	-40 / +194 °F
Application temperature (cartridge, environment and support)	-	+5 / +35 °C	+41 / +95 °F
Emicode	GEV test procedure	EC1 plus	-
French VOC classification	ISO 16000	A+	-
VOC content	-	17,0 % - 173,3 g/L	-
Transport temperature	-	0 / +35 °C	+32 / +95 °F
Storage temperature <sup>(1)</sup>	-	+15 / +25 °C	+59 / +77 °F
Storage time <sup>(2)</sup>	-	12 months	-

<sup>(1)</sup>Store the product in a vertical position in a dry, covered location.

<sup>(2)</sup>Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 16 05 04.

Aerosol 1. Acute Tox. 4.Acute Tox. 4.Skin Irrit. 2. Eye Irrit. 2.Resp. Sens. 1. Skin Sens. 1. Carc. 2. STOT SE 3. STOT RE 2

## CODES AND DIMENSIONS

CODE	content [mL]	yield [L]	content [US fl oz]	yield [US gal]	cartridge	
HERFOAM	750	40	25.36	10.57	aluminium	12

CODE	content [mL]	yield [L]	content [US fl oz]	yield [US gal]	cartridge	
HERFOAMB2	750	32	25.36	8.45	aluminium	12



## TECHNICAL DATA

Properties	standard	value	USC conversion
Composition	-	Single component PU	-
Colour	-	white	-
Density	-	15-20 kg/m <sup>3</sup>	-
Film formation time 20°C / 65% RH	-	6-8 min	-
Cutting time 23 °C / 50% RH	-	15-20 min	-
Reaction to fire	EN 13501-1 DIN 4102-1	class E class B2	- -
Temperature resistance once hardened	-	-40 / +80 °C	-40 / +176 °F
Application temperature (cartridge)	-	+5 / +35 °C	+41 / +95 °F
Application temperature (ambient)	-	+5 / +35 °C	+41 / +95 °F
Application temperature (support)	-	+5 / +35 °C	+41 / +95 °F
Storage temperature <sup>(1)</sup>	-	+15 / +25 °C	+59 / +77 °F
Storage time <sup>(2)</sup>	-	12 months	-

<sup>(1)</sup>Store the product in a vertical position in a dry, covered location.

<sup>(2)</sup>Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 16 05 04.

## FIELDS OF APPLICATION



## RELATED PRODUCTS



FLY FOAM  
page 333



FOAM CLEANER  
page 333



CUTTER  
page 328



### EMICODE EC1 PLUS

Its low VOC content and very low emissions also make this foam perfect for indoor use.

### HIGH ELASTICITY

Thanks to its the composition, it remains elastic and deformable over time, compensating for the movements of the wood and differential deformation of the building materials.

# FIRE FOAM

## HIGH FIRE-RESISTANT SEALING FOAM



### FIRE RESISTANCE EI 240

Tested in the event of fire to provide protection against combustion fumes and heat for up to 240 minutes.

### ETA CERTIFICATE

The only ETA tested and certified foam for fire protection and sealing of linear joints and cracks.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Composition	-	Single component PU	-
Colour	-	pink	-
Post expansion	-	90 - 120 %	-
Film formation time 20 °C / 65% RH	FEICA TM1014	≤ 10 min	-
Cutting time 23 °C / 50% RH	-	≤ 40 min	-
Time required for complete hardening 23 °C / 50% RH	-	24 h	-
Thermal conductivity (λ)	-	0,036 W/(m·K)	0.02 BTU/h·ft·°F
Dimensional stability	-	≤ 3 %	-
Reaction to fire	DIN 4102-1	class B1	-
	EN 13501-1	class B-s1 ,d0	-
Fire resistance rating <sup>(1)</sup>	EN 13501-2	EI240	-
Temperature resistance once hardened	-	-30 / +80 °C	+50 / +176 °F
Application temperature (ambient)	-	+10 / +30 °C	+50 / +86 °F
Application temperature (support)	-	+10 / +30 °C	+50 / +86 °F
Application temperature (cartridge)	-	+10 / +30 °C	+50 / +86 °F
French VOC classification	-	A+	-
VOC content	-	0,12% - 158 g/L	-
Transport temperature	-	-20 °C / +30 °C	-4 / +86 °F
Storage temperature <sup>(2)</sup>	-	+5 °C / +30 °C	+41 / +86 °F
Storage time <sup>(3)</sup>	-	up to 18 months	-

<sup>(1)</sup>For 10 mm and 20 mm wide joints.

<sup>(2)</sup>Store the product in a vertical position in a dry, covered location.

<sup>(3)</sup>Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 16 05 04.

Aerosol 1. Resp. Sens. 1. Carc. 2. STOT RE 2. Acute Tox. 4. Skin Irrit. 2. Eye Irrit. 2. Skin Sens. 1. STOT SE 3

## CODES AND DIMENSIONS

CODE	content	yield	content	yield	cartridge	
	[mL]	[L]	[US fl oz]	[US gal]		
FIREFOAM	750	42	25.36	11.1	aluminium	12

## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



FLY FOAM  
page 333



FOAM CLEANER  
page 333



FIRE SEALANT  
page 122 -124



## MAXIMUM PERFORMANCE

Its uniform cell structure, dimensional stability and mechanical properties make it the ideal product for insulating, sealing and filling in all cases where high fire protection requirements are required.

# MS SEAL



## MS POLYMER HIGH ELASTICITY SEALANT

### IT CAN BE PAINTED

It can be overpainted with water-based paints commonly used in construction.

### SECURE

MS POLYMER, pure, single-component, with no shrinkage. It offers an alternative to ensure airtightness in the case of visible sealing.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Classification	EN 15651-1	F-EXT/INT-CC <sup>(1)</sup>	-
Specific weight	-	1,5 kg/dm <sup>3</sup>	0.87 oz/in <sup>3</sup>
Surface cross-linking time 20 °C / 50% RH	-	approx. 20 min	-
Hardening speed 20 °C / 50 %RH	-	2,5 mm/24 h	0.1 in/24 h
Shore A hardness	DIN 53505	25	-
Elongation at failure	ISO 8339	400%	-
Elastic return	ISO 7389	> 70%	-
Application temperature	-	+5 / +35 °C	+41 / +95 °F
French VOC classification	ISO 16000	A+	-
VOC content	ISO 11890-2	9,2 g/L	-
Storage temperature <sup>(2)</sup>	-	+5 / +25 °C	+41 / +77 °F

<sup>(1)</sup> Non-structural sealant for façade elements, for external and internal use, also in areas with cold climates. <sup>(2)</sup> Store the product in a dry and covered place (12 months rigid cartridge/18 months soft cartridge). Check the expiry date on the packaging.

Waste classification (2014/955/EU): 08 04 10.

EUH210 Safety data sheet available on request. EUH208 Contains CAS 1760-24-3. May produce an allergic reaction.

## CODES AND DIMENSIONS

CODE	content	content	version	
	[mL]	[US fl oz]		
MSSEALWHI300	300	10.14	rigid cartridge	24
MSSEALGRE300	300	10.14	rigid cartridge	24
MSSEALWHI600	600	20.29	soft cartridge	12
MSSEALGRE600	600	20.29	soft cartridge	12



## PERFORMANCE

Excellent resistance to ageing and UV rays. Classified as a non-structural sealant for façade elements, for outdoor and indoor use, also in areas with cold climates (type F-EXT-INT-CC) according to EN 15651-1.

## UNIVERSAL

Universal one-component sealant ideal for glueing and sealing the most common building materials.



# IT INCREASES ALADIN STRIPE FIRE RESISTANCE



ALADIN STRIPE is the resilient profile for sound insulation of timber structures and houses. Thanks to the innovative compound in extruded and expanded EPDM to optimise noise reduction based on typical timber structure loads, it ensures absorption up to 4 dB in accordance with the standard EN ISO 140-7. Safety is always a priority: thanks to our wide range of fire-certified profiles, sealants, foams and tapes, you can always be sure of the safety of our solutions.



Scan the QR code and discover the technical features of  
ALADIN STRIPE



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



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Solutions for Building Technology

# FIRE SEALING ACRYLIC

## HIGH FIRE-RESISTANT ACRYLIC SEALANT



### IT CAN BE PAINTED

The sealant can be overpainted with the most common water-based paints and varnishes.

### FIRE SAFETY

It can be used in applications subject to fire protection regulations up to EI 240.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Composition	-	based on acrylic polymers in water dispersion	-
Classification	EN 15651-1	F-INT <sup>(1)</sup>	-
Density	UNI 8490/2	1,70 g/mL	272.61 oz/gal
Yield for 10x10 mm joint	-	5,5 m	18.04 ft
Surface cross-linking time 23 °C	-	approx. 30 min	-
Time required for complete hardening 23 °C / 50 %R	-	approx.10 days	-
Shore A hardness	EN ISO 868	10 approx.	-
Elongation at failure	DIN 53504	700%	-
Reaction to fire	EN 13501-1	class B-s1,d0	-
Fire resistance rating	EN 13501-2	EI240 <sup>(2)</sup>	-
Ecode	GEV test procedure	EC1 plus	-
French VOC classification	ISO 16000	A+	-
VOC content	-	1,6% / 27 g/L	-
Storage temperature <sup>(3)</sup>	-	+5 / +35 °C	+41 / +95 °F
Expiry <sup>(3)</sup>	-	up to 24 months	-

<sup>(1)</sup>Non-structural sealant for façade elements, for indoor use.

<sup>(2)</sup>Valid for tested configurations.

<sup>(3)</sup>Store the product in a dry place and check the expiry date on the cartridge.

Waste classification (2014/955/EU): 08 04 10.

EUH210 Safety data sheet available on request. EUH208 Contains CAS 55965-84-9 (3:1), CAS 2634-33-5. May produce an allergic reaction.

## CODES AND DIMENSIONS

CODE	content [mL]	content [US fl oz]	colour	version	
FIREACR550	550	18.60	white	soft cartridge	20



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



FLY SOFT  
page 332



FIRE FOAM  
page 118



BRUSH  
page 327



### VERSATILE

Good workability, it also adheres to moist supports, does not drip and is easily smoothed.

### EMICODE EC1 PLUS

Certified by GEV in terms of very low emissions of Volatile Organic Compounds.

# FIRE SEALING SILICONE

## HIGH FIRE-RESISTANT SILICONE SEALANT



### SAFETY

For sealing linear joints in fire rated walls and doors, in situations subject to fire regulations.

### FIRE RESISTANCE EI 240 AND CLASS B-s1,d0

Tested protection, designed to offer maximum protection against the passage of flames, smoke or gases.



### TECHNICAL DATA

Properties	standard	value	USC conversion
Composition	-	silicone	-
Classification	EN 15651-1	F-EXT/INT-CC <sup>(1)</sup>	-
Density	ISO 1183-1	1,482 g/mL	237.65 oz/gal
Yield for 10x10 mm joint	-	3,1 m	10.7 ft
Surface cross-linking time 23 °C	-	approx. 80 min	-
Hardening speed 23 °C	-	approx. 2 mm in 24 h	-
Shore A hardness	DIN 53505	approx. 30	-
Elongation at failure	DIN 53504	460%	-
Tensile strength	DIN 53504	0,72 N/mm <sup>2</sup>	104.43 lbf/in <sup>2</sup>
Elastic modulus 100%	DIN 53504	0,38 N/mm <sup>2</sup>	55.11 lbf/in <sup>2</sup>
Reaction to fire	EN 13501-1	class B-s1,d0	-
Fire resistance rating	EN 13501-2	EI 240 <sup>(2)</sup>	-
Acid resistance	-	excellent	-
Bases resistance	-	excellent	-
Ecode	GEV test procedure	EC1	-
French VOC classification	ISO 16000	A+	-
VOC content	-	4,3% / 64 g/L	-
Expiry <sup>(3)</sup>	-	up to 12 months	-

<sup>(1)</sup> Non-structural sealant for façade elements, for external and internal use, also in areas with cold climates.

<sup>(2)</sup> Valid for tested configurations.

<sup>(3)</sup> Store the product in a dry place and check the expiry date on the cartridge.

Waste classification (2014/955/EU): 08 04 09

Eye Dam. 1 . Skin Sens. 1B.

### CODES AND DIMENSIONS

CODE	content [mL]	content [US fl oz]	colour	version	
FIRESILGRE310	310	10.48	grey	rigid cartridge	24
FIRESILIVO310	310	10.48	ivory	rigid cartridge	24



## ■ FIELDS OF APPLICATION

### IVORY



### GREY



## ■ RELATED PRODUCTS



FLY  
page 332



FIRE FOAM  
page 118



FIRE STRIPE  
page 130



### FAÇADE AND EXTREME CLIMATES

Classified, according to EN 15651-1, for indoor and outdoor non-structural uses, it can also be used on façades and in areas with cold climates. High adhesion and high UV resistance.

### SAFETY

For sealing linear joints in fire rated walls and doors, in situations subject to fire regulations.

# NAIL PLASTER | GEMINI

## HIGH-ADHESION NAIL POINT SEALANT TAPE

### HERMETIC

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

### WIDE RANGE

Also available in 5 mm thickness, 70 mm width and double-sided adhesive for more secure sealing.

## COMPOSITION

### NAIL PLASTER

carrier  
PE foam

adhesive  
synthetic rubber

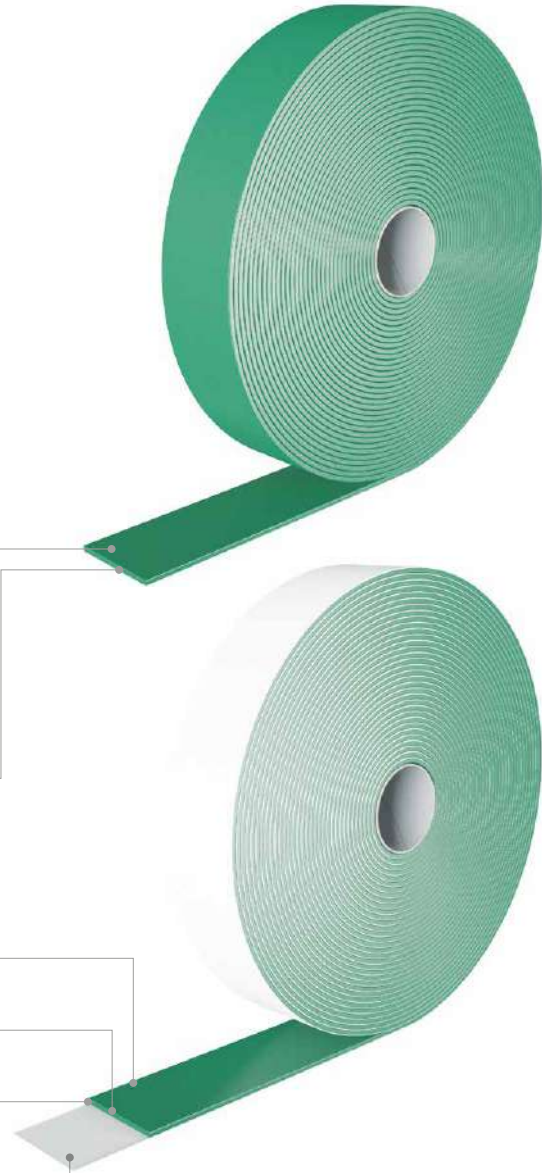
### GEMINI

adhesive  
synthetic rubber

carrier  
PE foam


adhesive  
synthetic rubber


liner  
silicone-impregnated film




## CODES AND DIMENSIONS

### NAIL PLASTER

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	
NAILPLA350	50	3	30	2.0	118	98	10
NAILPLA370	70	3	30	2.8	118	98	7
NAILPLA550	50	5	10	2.0	197	33	6

CODE	B [mm]	H [mm]	s [mm]	B [in]	H [in]	s [mil]	pcs/roll	
NAILPLA35050	50	50	3	2.0	2.0	118	400	6

### GEMINI

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	
GEMINI60	60	3	30	2.4	118	98	8
GEMINI80	80	3	30	3.2	118	98	6

## TECHNICAL DATA

Properties	standard	value	USC conversion
Tensile strength	EN 1939	material failure	
Temperature resistance	-	-30 / +80 °C	-22 / +176 °F
Application temperature	-	≥ +5 °C	≥ +41 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## FIELDS OF APPLICATION



### PRACTICAL

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

### DOUBLE SECURITY

The GEMINI version offers double adhesiveness and guarantees continuous adhesion between the membrane and batten, avoiding water accumulation in drilled points.



# NAIL BAND

## BUTYL NAIL POINT SEALANT TAPE



### SPECIAL BUTYL MIX

Thanks to its modified butyl formulation, it ensures excellent durability even when subjected to thermal stress. Also suitable for installation at low temperatures.

### LOW TEMPERATURES

The butyl ensures excellent adhesion to supports under difficult environmental conditions.

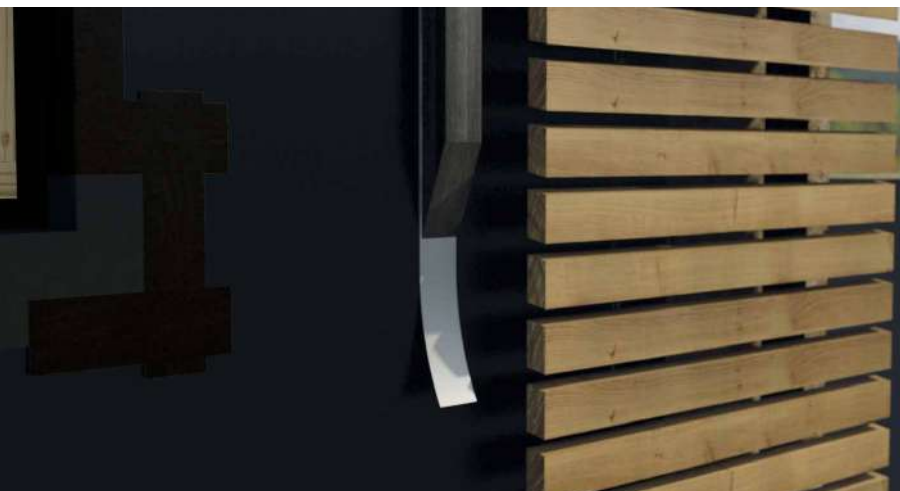
## TECHNICAL DATA

Properties	standard	value	USC conversion
Tensile strength	EN 14410	25 N/25 mm	5.71 lbf/in
Elongation at failure	EN 14410	> 300%	-
90° adhesion force	-	≥ 15 N/25 mm	≥ 3.43 lbf/in
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +80 °C	-22 / +176 °F
Application temperature	-	+5 / +40 °C	+41 / +104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +25 °C	+41 / +77 °F
Solvents	-	no	-

<sup>(1)</sup>Store the product in a dry, covered location.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
NAILBAND50	50	1	15	2.0	39	49	12



### SELF-SEALING

Due to its elasticity, butyl tends to seal around the screw or nail used to fix the battens or elements on which it is installed.

### DURABILITY

The butyl compound ensures excellent durability even under thermal stress, while maintaining elasticity and impermeability over time.



# BUTYL BAND

## DOUBLE-SIDED UNIVERSAL BUTYL TAPE



### STRONG

The polyester grid guarantees consistence and high resistance.

### HERMETIC

Appropriate for watertight seals for timber-to-timber and/or timber-to-concrete joints.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Maximum tensile force MD/CD	EN 12311-1	115 / 140 N/50 mm	13.13 / 16 lbf/in
Elongation at break point MD/CD	EN 12311-1	15 / 15%	-
Adhesion on steel at 180°	ASTM D 1000	35 N/cm	20 lbf/in
Initial Tack	ASTM D 2979	10 N	2.25 lbf
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +130 °C	-22 / +266 °F
Application temperature	-	+5 / +40 °C	+41 / +104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / +104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	30 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
BUTYLBAND1501	15	1	15	0.6	39	49	20
BUTYLBAND1502	15	2	10	0.6	79	33	13



### SPECIAL BUTYL MIX

Thanks to its special modified butyl formulation, it ensures excellent durability even when subjected to thermal stress and UV radiation.

### ADJUSTABLE

Butyl is also perfectly suited for installation in tight spaces and on irregular profiles without resistance.

# FIRE STRIPE

## INTUMESCENT THERMO-INFLATABLE FLEXIBLE GASKET



### INTUMESCENT

It expands under the effect of strong heat. As it expands, it seals the cavity in which it is placed, blocking the passage of flames.

### FIRE PROTECTION

Installable in tight spaces, it is perfect for the fire protection of our concealed fastening systems.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Colour	-	grey	-
Reaction to fire	NF P92-501	M1 - non-flammable	-
Application temperature	-	+5 / +35 °C	+41 / +95 °F
Storage temperature	-	+1 / +25 °C	+33.8 / +77 °F
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
FIRESTRIFE10	10	2	6	0.4	79	20	56



### DURABILITY

The profile has good resistance to UV and thermal stress and is not subject to rotting.

### FAST INSTALLATION

The tape is adhesive, is installed quickly and no support tools are required.

# CONCEALED JOINTS AND FIRE SAFETY



Discover all the concealed joints in the catalogue "Plates and connectors for timber", there is one for every application! A complete range of solutions that can be made even safer and more fire-protected thanks to our comprehensive range of fire certified profiles, sealants, foams and tapes.

Scan the QR code and download our "Plates and connectors for timber" catalogue.



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Solutions for Building Technology

# SUPRA BAND



## UNIVERSAL DOUBLE-SIDED BUTYL TAPE WITH HIGH ADHESIVENESS

### PEERLESS

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

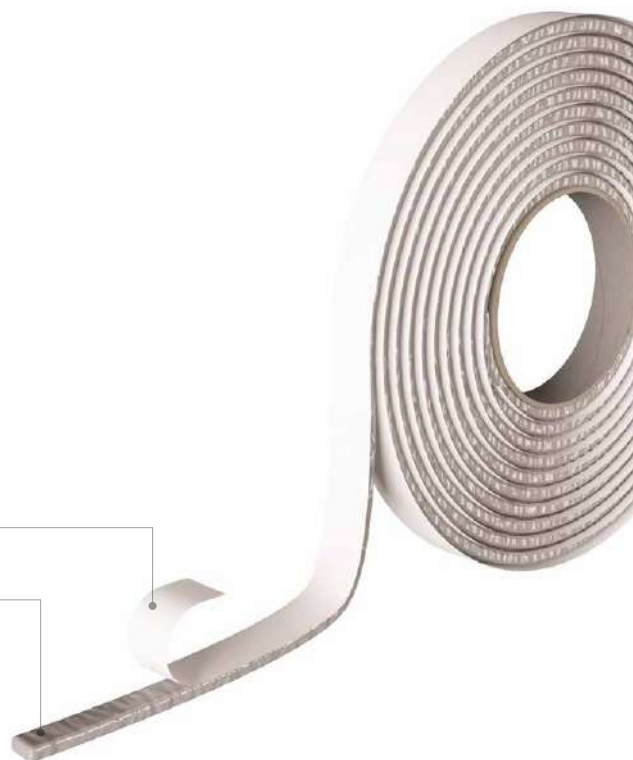
### ELASTIC

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

## COMPOSITION

release liner  
silicone coated paper

glue  
double-sided grey butyl compound



## TECHNICAL DATA

Properties	standard	value	USC conversion
Ageing resistance	-	long duration	-
Initial Tack	ASTM D 2979	6 N	1.35 lbf
Adhesion on steel at 180°	ASTM D 1000	16 N/cm	9.14 lbf/in
Adhesiveness on concrete 180°	-	32 N/cm	18.27 lbf/in
Vertical sliding	ISO 7390	absent	-
Temperature resistance	-	-30 / +90 °C	-22 / 194 °F
Application temperature	-	-5 / +40 °C	+23 / 104 °F
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / 104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	30 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
SUPRA6	6	4	6	0.2	160	20	16
SUPRA10	10	4	6	0.4	160	20	22



## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



**DOUBLE BAND**  
page 62



**OUTSIDE GLUE**  
page 154



**SUPERB GLUE**  
page 150



### SPECIAL BUTYL MIX

The modified butyl formulation of the product allows instant and permanent adhesion to all building materials. In addition, the material is impermeable to water and steam, ensuring a perfect seal.

### FAST INSTALLATION

Its adhesive power also allows the sealing of damp or porous surfaces without the need to apply additional products, saving time and money.

# ALU BUTYL BAND

## REFLECTING BUTYL ADHESIVE TAPE



### BUTYL

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

### UV-STABLE

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

## COMPOSITION

**support**  
reinforced aluminium film

**glue**  
grey adhesive butyl compound

**release liner**  
PE film



## TECHNICAL DATA

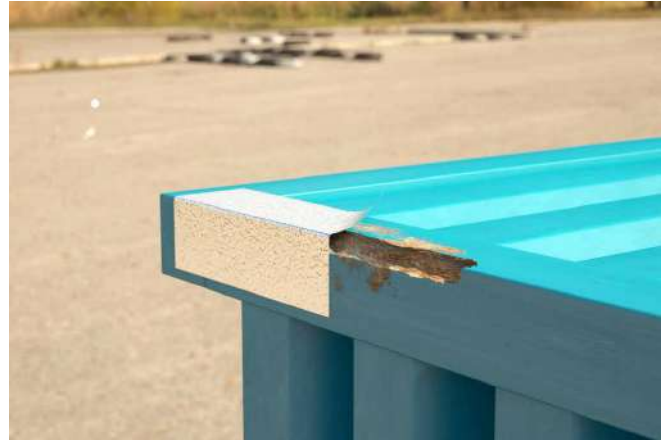
Properties	standard	value	USC conversion
Initial Tack	ASTM D 2979	8 N	1.8 lbf
Adhesion on steel at 180°	ASTM D 1000	20 N/cm	11.42 lbf/in
Vertical sliding	ISO 7390	0 mm	-
Maximum tensile force MD/CD	EN 12311-1	185 / 200 N/50 mm	21.13 / 22.84 lbf/in
Elongation at break point MD/CD	EN 12311-1	10 / 20 %	-
Water vapour resistance factor ( $\mu$ )	UNI EN 1931	2720000	13600 MN·s/g
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +90 °C	-22 / 194 °F
Application temperature	-	0 / +40 °C	+32 / 104 °F
Watertightness	-	conforming	-
UV-resistant	-	permanent	-
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / 104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	30 $\mu\text{g}/\text{m}^3$	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 99.

## CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[mil]	[ft]	
ALUBUTYL75	75	1	10	3.0	39	33	8
ALUBUTYL150	150	1	10	5.9	39	33	4

## ■ FIELDS OF APPLICATION



## ■ RELATED PRODUCTS



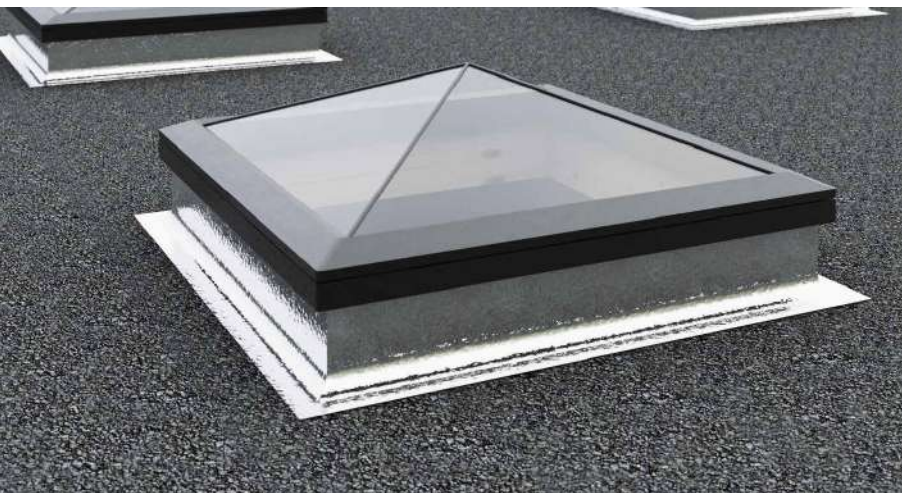
ALU BAND  
page 61



BYTUM SPRAY  
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BYTUM LIQUID  
page 48



### STRONG

Thanks to the reinforced aluminium film, it has outstanding mechanical properties and is tear-resistant.

### VERSATILE

Widely used in building roofing, repair of surface cracks, repair of motor homes, windows, boat seals, glazing and roofing.



# BLACK BAND

## UNIVERSAL SINGLE-SIDED BUTYL TAPE



### EXTRAORDINARY

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

### PRACTICAL

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

## COMPOSITION

support  
high density PE film

glue  
black adhesive butyl compound

release liner  
easy-release PP film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Initial Tack	ASTM D 2979	8 N	1.8 lbf
Adhesion on steel at 180°	ASTM D 1000	20 N/cm	11.42 lbf/in
Maximum tensile force MD/CD	EN 12311-1	20/10 N/50 mm	2.28/1.14 lbf/in
Elongation at break point MD/CD	EN 12311-1	250/300 %	-
Temperature resistance	-	-30 /+90 °C	-22 / 194 °F
Application temperature	-	0 / +40 °C	+32 / 104 °F
Watertightness	-	conforming	-
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / 104 °F
Solvents	-	no	-
VOC emissions	ISO 16000	30 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-

<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	liner	B	s	L	liner	B	s	L	
	[mm]	[mm]	[mm]	[m]	[in]	[in]	[mil]	[ft]	
BLACK50	50	50	2	10	2.0	2.0	79	33	6
BLACK4040	40 / 40	80	2	10	1.6 / 1.6	3.2	79	33	4



## RECOMMENDATIONS FOR INSTALLATION

### SEALING OF TECHNICAL INSTALLATIONS AND PASSAGES



### SEALING OF JOINT IN THE GROUND CONNECTION NODE



### FINGERLIFT AND PRE-CUT LINER

Thanks to the easy-release film, installation is quick. The 80 mm version has a pre-cut liner to facilitate installation in corners or complex locations.

### SPECIAL BUTYL MIX

The product's modified butyl formulation ensures excellent durability even under thermal stress making it suitable for installation even at low temperatures.

# MANICA PLASTER



## ADHESIVE SEALING SLEEVE THAT CAN BE PLASTERED

### CAN BE PLASTERED

The butyl compound is covered with a polypropylene fabric that can be plastered.

### SPECIAL BUTYL MIX

Thanks to its special modified butyl formulation, it ensures excellent durability even when subjected to thermal stress.

## COMPOSITION

- support  
non-woven PP fabric
- glue  
grey adhesive butyl compound
- release liner  
PP film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Initial Tack	ASTM D 2979	8 N	-
Reaction to fire	EN 13501-1	class E	-
Temperature resistance	-	-30 / +90 °C	-22 / +194 °F
Application temperature	-	0 / +40 °C	+32 / +104 °
Storage temperature <sup>(1)</sup>	-	+5 / +40 °C	+41 / +104 °
Solvents	-	no	-
VOC emissions	ISO 16000	30 µg/m <sup>3</sup>	-
French VOC classification	ISO 16000	A+	-

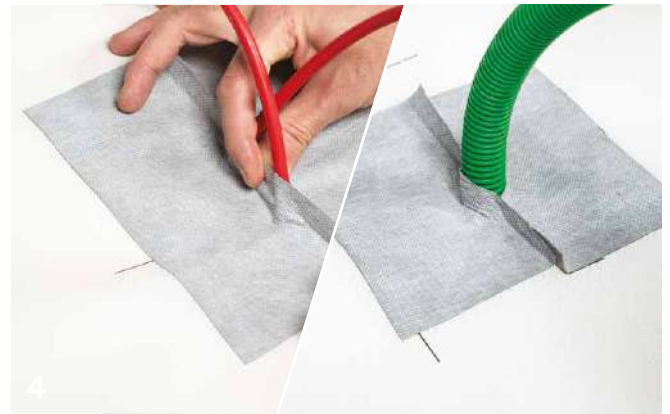
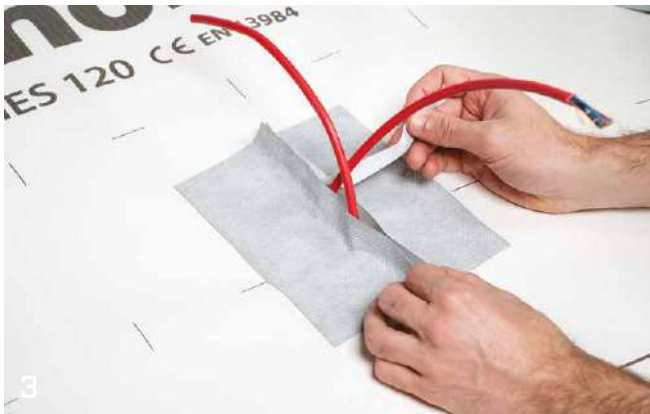
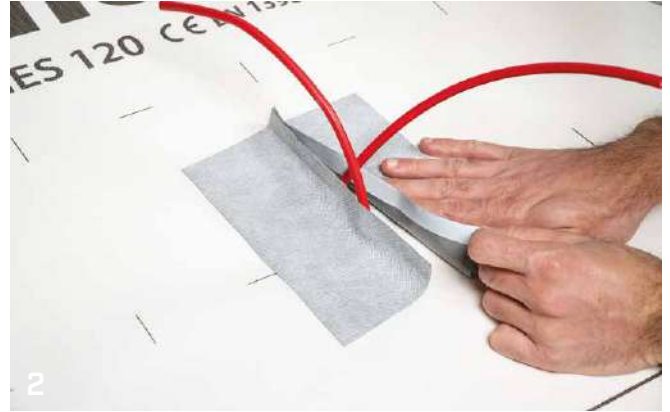
<sup>(1)</sup>Store the product in a cool, dry place for no more than 12 months.  
Waste classification (2014/955/EU): 08 04 10.

## CODES AND DIMENSIONS

CODE	liner	B	s	L	liner	B	s	L	
	[mm]	[mm]	[mm]	[m]	[in]	[in]	[mil]	[ft]	
MANPLA2080	20 / 80	100	1	10	0.8 / 3.2	3.9	39	33	6
MANPLA20180	20 / 180	200	1	10	0.8 / 7.1	7.9	39	33	2

## RECOMMENDATIONS FOR INSTALLATION

### SEALING OF CABLES AND CORRUGATED THROUGH PIPES



### WINDOW NODE - WATERPROOFING BELOW TIE BEAM



### TIME SAVING

Thanks to the pre-cut separating film and the product deformation properties, small cables and irregular elements can be sealed without loss of time or accumulation of bulky material.

### SMART

Thanks to the pre-cut liner, it is suitable for countless applications, for example around the perimeter of beams and through-beams or for sealing windows.



# MANICA FLEX

## SEALING SLEEVE FOR CONDUIT AND CABLE PASSAGE

### COMPLETE RANGE

Available in several variants to ensure tightness in different situations. Available in both sealable TPU and EPDM.

### HERMETIC

Ensures airtightness and watertightness for cables and other pass through elements.

## COMPOSITION

### MANICA FLEX - EPDM

Extruded compact EPDM




### MANICA FLEX - TPU

TPU




## CODES AND DIMENSIONS

### MANICA FLEX - EPDM

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	
MANFEPDM100	100	1	10	3.9	39	33	1
MANFEPDM150	150	1	10	5.9	39	33	1

### MANICA FLEX - TPU

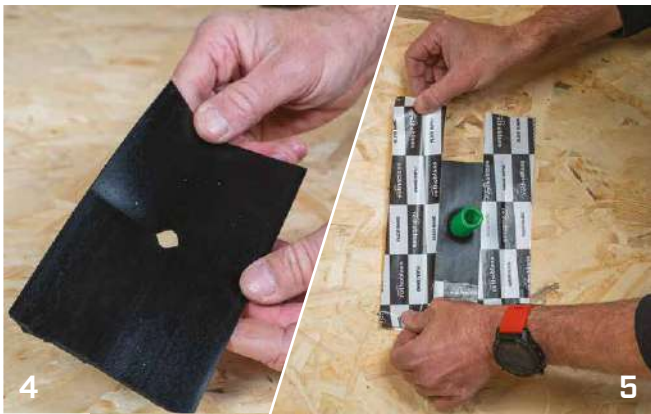
CODE	B [mm]	s [mm]	H [mm]	B [in]	s [mil]	H [in]	
MANFTPU300	300	0,4	300	11.8	16	11.8	10
MANFTPU430	430	0,4	430	16.9	16	16.9	10

Waste classification (2014/955/EU): 17 02 03.

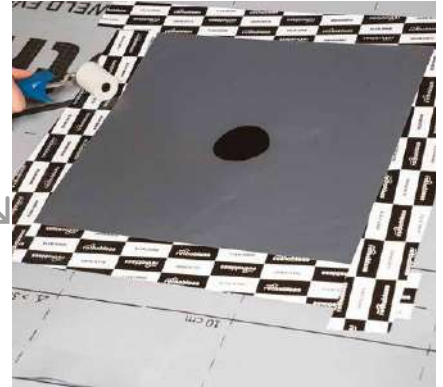


## RECOMMENDATIONS FOR INSTALLATION

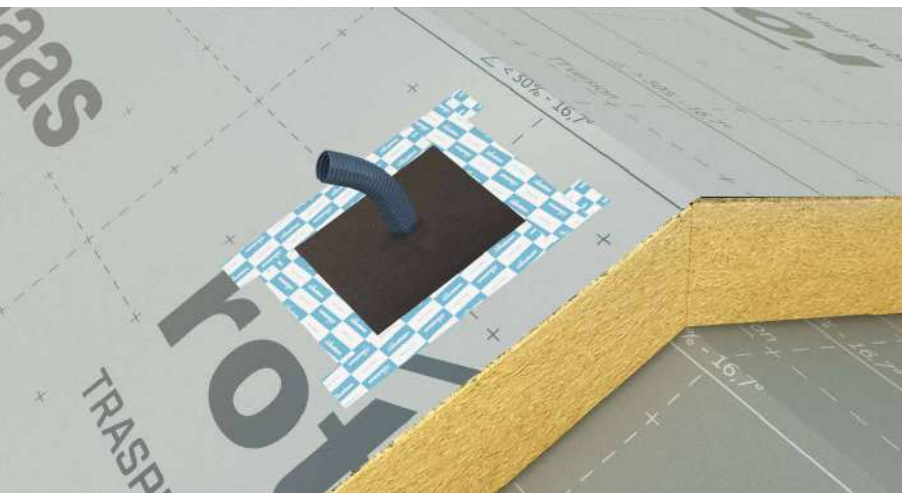
### MANICA FLEX - EPDM: SEALING OF CABLES AND CORRUGATED TUBES THROUGH PIPES



### MANICA FLEX - TPU: SEALING OF A THROUGH PIPE



ROLLER, WELD LIQUID



## FAST INSTALLATION

Both versions can be quickly sealed with a Rothoblaas tape and can be repositioned. The TPU version can be heat or chemically sealed.

## SMART

The EPDM version is supplied in handy rolls, so that you can cut it to the required size without having to order several sizes. In addition, numerous through elements can be sealed with a single sleeve as it can be perforated at several points as required.

# MANICA POST

## ADHESIVE SEALING SLEEVE FOR OUTDOORS



- Aluminium coated for permanent UV stability
- Excellent butyl adhesion
- Resistant to thermal stress



### CODES AND DIMENSIONS

CODE	B [mm]	H [mm]	Ø [mm]	B [in]	H [in]	Ø [in]	colour	
MANPOST1	300	200	25 / 32	11.8	7.9	1.0 / 1.3	brown	5
MANPOST2	300	200	42 / 55	11.8	7.9	1.7 / 2.2	brown	5
MANPOST3	230	230	42 / 55	9.1	9.1	1.7 / 2.2	aluminium	4

Waste classification (2014/955/EU): 17 09 04.

# MANICA LEAD

## LEAD PROFILE WITH EPDM SLEEVE

- Excellent for waterproofing lifeline supports such as TOWER
- It can be used on roofs with different slopes
- Perfectly sealed EPDM sleeve



### CODES AND DIMENSIONS

CODE	s [mm]	B [mm]	L [mm]	Ø [mm]	s [mil]	B [in]	L [in]	Ø [in]	material	
MANEPDM	-	-	-	48	-	-	-	1.9	EPDM	1
MANLEAD	1	310	405	-	39	12.2	15.9	-	lead <sup>(1)</sup>	1

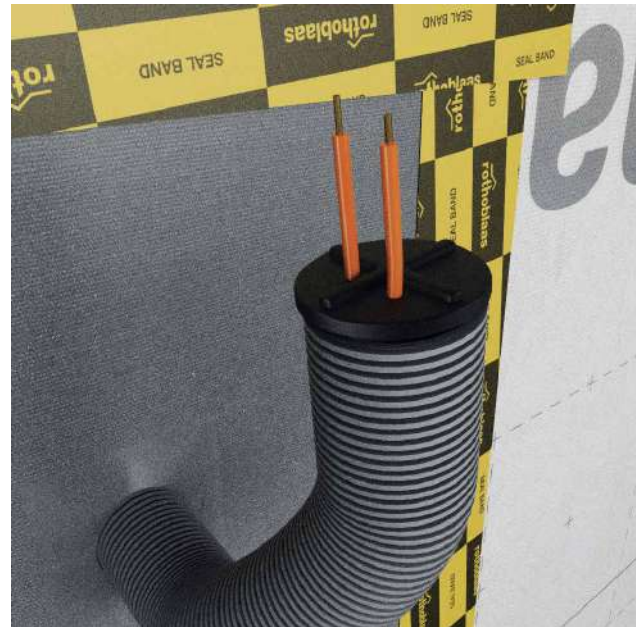
<sup>(1)</sup>Avoid contact with skin, eyes and food. Do not produce and breathe dust.  
Waste classification (2014/955/EU): 17 04 03.




# TUBE STOPPER

## CABLE SEALING PLUGS

- For sealing corrugated pipes
- Quick and easy installation
- No special equipment required
- It can be perforated for cable routing



## CODES AND DIMENSIONS

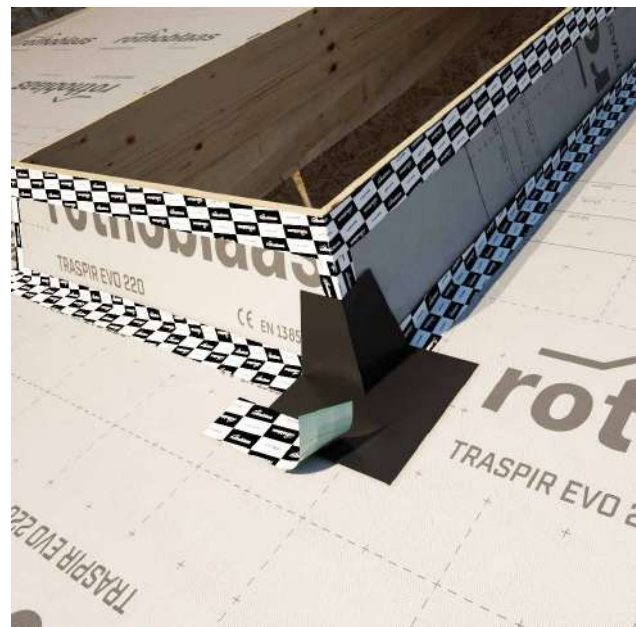
CODE	∅ [mm]	∅ [in]	
TUBESTOP20	20	0.8	20
TUBESTOP25	25	1.0	20
TUBESTOP32	32	1.3	20

Waste classification (2014/955/EU): 17 02 03.

# ALPHA

## PRESHAPED PROFILE FOR SEALING CORNERS

- Reinforces edges and critical points
- Protects against friction wear
- Double version: for concave and convex corners
- It can be used both on walls and roofs



## CODES AND DIMENSIONS

CODE	B [mm]	L [mm]	H [mm]	B [in]	L [in]	H [in]	version	
1 ALPHAIN	160	100	100	6.3	3.9	3.9	internal	10
2 ALPHAOUT	180	180	100	7.1	7.1	3.9	external	10

Waste classification (2014/955/EU): 17 02 03.


# LITE BAND

## ACRYLIC SINGLE-SIDED ADHESIVE TAPE

- Good compromise between versatility and price. Suitable for adhesion to non-woven fabric membranes
- Ideal for sealing and shaping elements to be consolidated with XEPOX resins



### CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	
LITEBAND50	50	50	2.0	164	30

# DGZ



## DOUBLE THREADED SCREW FOR INSULATION



### CODES AND DIMENSIONS

d <sub>1</sub> [mm]	CODE	L [mm]	pcs
7 TX 30	DGZ7220	220	50
	DGZ7260	260	50
	DGZ7300	300	50
	DGZ7340	340	50
	DGZ7380	380	50
9 TX 40	DGZ9240	240	50
	DGZ9280	280	50
	DGZ9320	320	50
	DGZ9360	360	50
	DGZ9400	400	50
	DGZ9440	440	50
	DGZ9480	480	50
	DGZ9520	520	50

Upon request, EVO version is available.

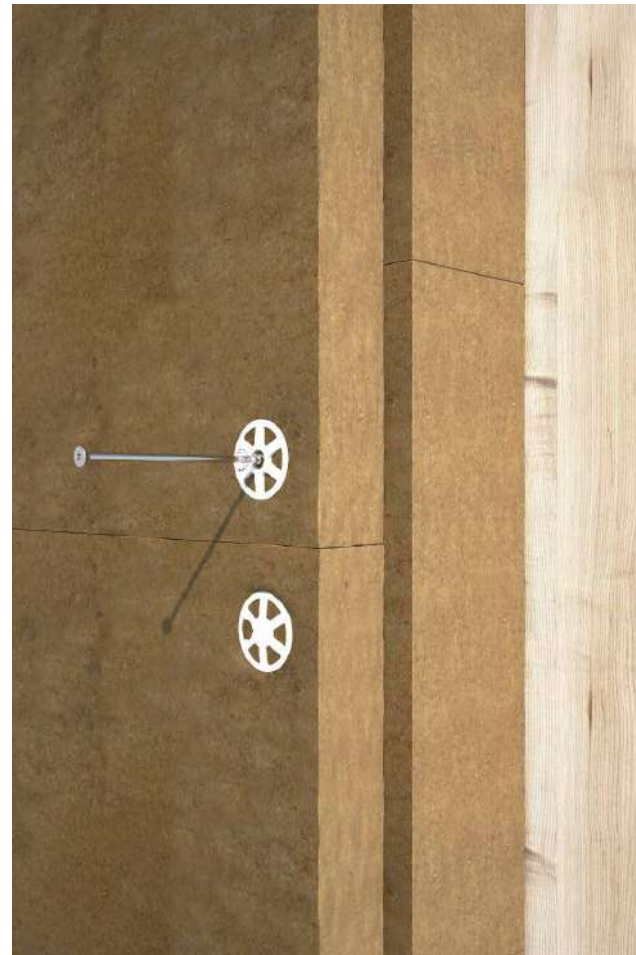




# THERMOWASHER

## WASHER TO FASTEN INSULATION TO TIMBER

- Incorporated hole cover to avoid thermal bridges



### CODES AND DIMENSIONS

CODE	d <sub>SCREW</sub> [mm]	a x b x c [mm]	pcs
THERMO65	6/8	65 x 4 x 20	700

# ISULFIX

## ANCHOR FOR FASTENING INSULATION TO BRICKWORK

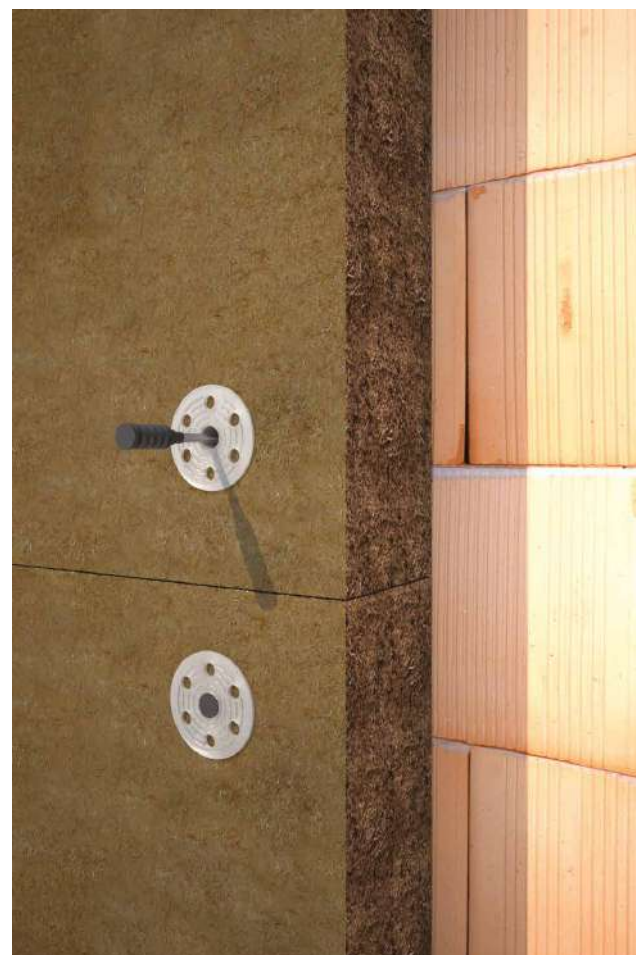


### CODES AND DIMENSIONS

CODE	L [mm]	d <sub>HOLE</sub> [mm]	d <sub>HEAD</sub> [mm]	A [mm]	pcs
ISULFIX8110	110			80	250
ISULFIX8150	150	8	60	120	150
ISULFIX8190	190			160	100

CODE	d <sub>HEAD</sub> [mm]	description	pcs
ISULFIX90	90	additional washer for soft insulation	250

A= maximum fastening thickness



# REACH REGULATION

Registration, Evaluation, Autorisation of Chemicals [CE n. 1907/2006]

It's the European regulation for the management of chemical substances as such or as components of **preparations** (mixtures) and **items** (ref. Art. 3 points 2 and 3). This regulation attributes precise responsibilities to each link of the supply chain regarding the communication and safe use of hazardous substances.


## WHAT'S IT FOR?

REACH aims to ensure a high level of human health and environmental protection. The introduction of REACH requires the collection and communication of complete information on the dangers of certain substances and their safe use within the supply chain (regulation CLP 1272/2008).

The regulation provides for continual updating of the information and control by ECHA (the European Chemicals Agency).

In particular, for users, these concepts translate into:

- **SVHC - Substances Of Very High Concern**  
List of any hazardous substances contained in **items**
- **SDS - Safety Data Sheet**  
Document that contains the information for correct management of every hazardous **mixture**



We have added **REACH compliance** among the **selection parameters for our products and production processes**.

In this way, we can guarantee high quality standards in terms of health and environmental protection.

## REACH COMPLIANCE



### PROJECT

Product design and choice of the most suitable materials.



### PRODUCTION

Start of the production phase with evaluation of the substances used during the entire process.



### REACH COMPLIANCE

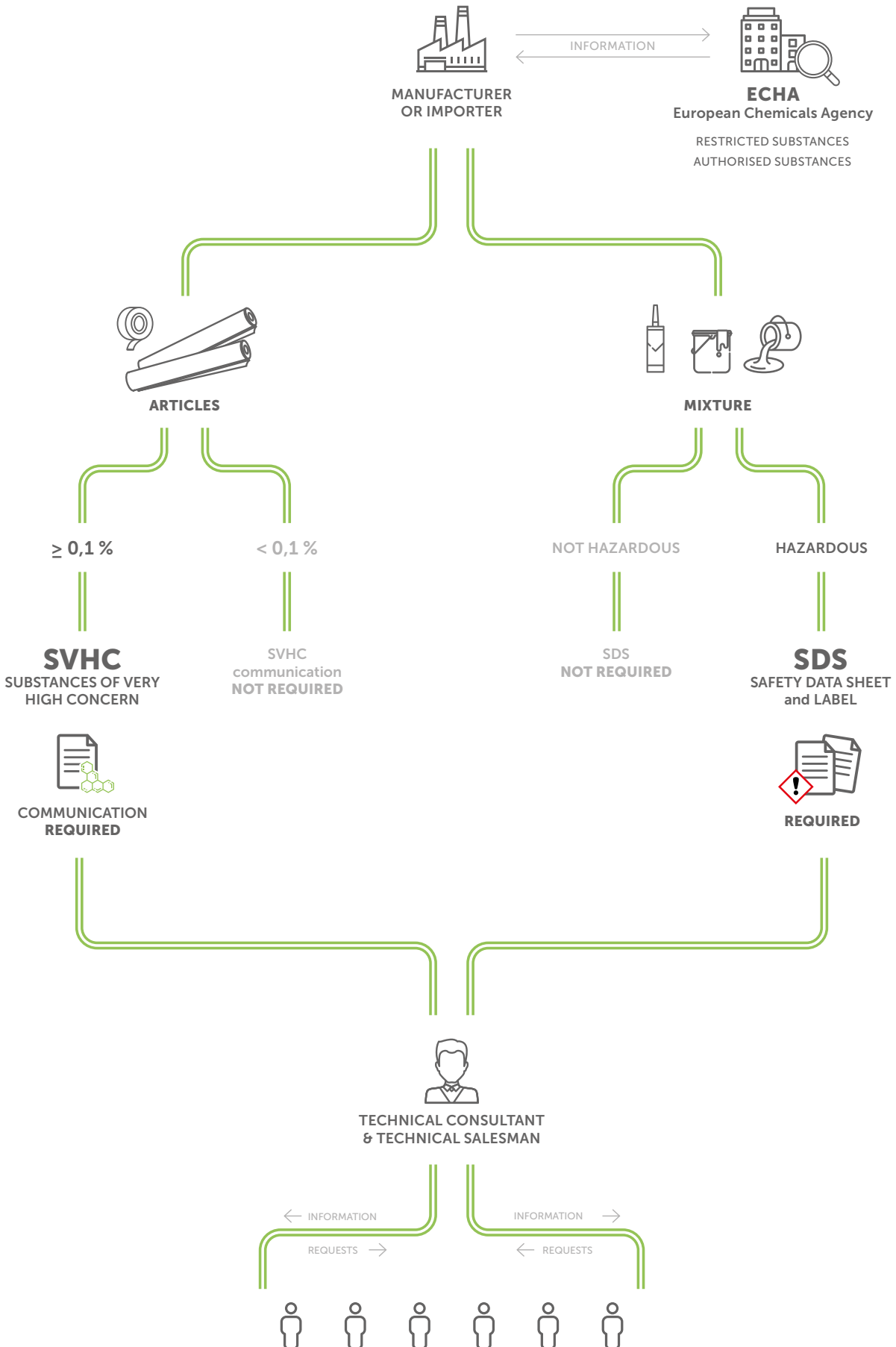
Analysis/screening on samples to verify REACH compliance.



### MARKET

Product meeting the requirements of REACH regulation and Rothblaas quality standards.

# REACH PROCESS



PRODUCTS

REACH REGULATION

MARKET



# MEMBRANE GLUE

## ADHESIVE GLUE FOR SEALING MEMBRANES

### 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.



## TECHNICAL DATA

Properties	value	USC conversion
Colour	black	-
Composition	acrylic without solvents	-
Density ISO 1183	1,05 - 1,10 g/cm <sup>3</sup>	0.60 - 0.64 oz/in <sup>3</sup>
Time required for drying 25 °C / 50 %RH	24 - 72 hours	-
Temperature resistance once hardened	-20 / +80 °C	-4 / 176 °F
Application temperature (cartridge and ambient)	+5 / +40 °C	+41 / 104 °F
Application temperature (support)	-5 / +40 °C	+23 / 104 °F
Ecode (GEV test procedure)	EC1 plus	-
VOC content	0,34% - 5,7 g/L	-
Transport temperature	-20 °C / +35 °C	-4 °F / 95 °F
Storage temperature <sup>(1)</sup>	+5 °C / +25 °C	+41 °F / 77 °F

<sup>(1)</sup>Store the product in a dry, covered location for no more than 12 months. Check the expiry date on the packaging.

Waste classification (2014/955/EU): 08 04 10.

EUH208 Contains CAS 55965-84-9 (3:1), CAS 2634-33-5. May produce an allergic reaction.

## CODES AND DIMENSIONS

CODE	content	yield of the glue line Ø8 mm	content	yield of the glue line Ø8 mm	version	
	[mL]	[m]	[US fl oz]	[ft]		
MEMBRAGLUE310	310	6	10.48	20	rigid cartridge	24
MEMBRAGLUE600	600	11,6	20.29	38	soft cartridge	20



### EMICODE EC1 PLUS

Thanks to the special formulation, the glue achieves the highest level of safety with regard to emissions that are harmful to health.

### QUICK DRYING

It offers a good compromise between adhesion and fast drying of the outer film, allowing application on vertical surfaces without slipping problems.



# ECO GLUE



## ADHESIVE GLUE FOR SEALING MEMBRANES ON BIOLOGICAL BASIS

### ECOLOGICAL

The compound contains approximately 47 % bio-based carbon (according to ASTM 6866), for greater environmental sustainability.

### EMICODE EC1 PLUS

Thanks to the special formulation, it achieves the highest level of safety with regard to emissions that are harmful to health.



## TECHNICAL DATA

Properties	value	USC conversion
Colour (wet/dry)	white cream/beige	-
Density EN 542 +20 °C	approx. 1,15 g/cm <sup>3</sup>	0.67 oz/in <sup>3</sup>
Film formation time	permanently adhesive	-
Time required for drying 20 °C / 50 %RH	36 h	-
Temperature resistance once dried	from -30 °C to +80 °C	from -22 °F to +176 °F
Application temperature (cartridge)	from +5 °C to +30 °C	from +41 °F to +86 °F
Application temperature (ambient and support)	from -5 °C	from 23 °F
Solvents	no	-
Emicode (GEV test procedure)	EC1 plus	-
French VOC classification	A+	-
Transport temperature	- 30 °C to +35 °C	-22 °F / +95 °F
Storage temperature <sup>(1)</sup>	+15 °C to +25 °C	+59 °F / +77 °F

<sup>(1)</sup>Store the product in a cool, dry place for no more than 18 months. Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 08 04 10.

EUH208 Contains CAS 55965-84-9 (3:1), CAS 2634-33-5. May produce an allergic reaction ; EUH210 Safety data sheet available on request

## CODES AND DIMENSIONS

CODE	content	yield of the glue line Ø8 mm	content	yield of the glue line Ø8 mm	version	
	[mL]	[m]	[US fl oz]	[ft]		
ECOGLUE310	310	6,2	10.48	20	rigid cartridge	20
ECOGLUE600	600	11,9	20.29	39	soft cartridge	20



### COMPLETE SYSTEM

Together with VAPOR IN GREEN 200 it creates a more environmentally sustainable airtight layer.

### DURABLE | DIN 4108-11

The glue has passed the artificial ageing test according to DIN 4108-11, which guarantees durability over time.

# SUPERB GLUE



## HIGH ELASTICITY ADHESIVE GLUE FOR SEALING MEMBRANES

### HIGH PERFORMANCE

Adhesion and elasticity stable over time, free of solvents and harmful substances. Storage and use at low temperatures possible.

### MAXIMUM ELASTICITY

Formula designed to ensure elasticity and adhesion even after drying.



## TECHNICAL DATA

Properties	value	USC conversion
Colour (wet)	light blue	-
Colour (dry)	transparent blue	-
Composition	modified acrylate-polymer dispersion	-
Density EN 542 +20 °C	approx. 1,02 g/cm <sup>3</sup>	0.59 oz/in <sup>3</sup>
Yield with strip Ø8 mm (cartridge 310 mL)	6,2 m	20.34 ft
Yield with strip Ø8 mm (cartridge 600 mL)	11,9 m	39.04 ft
Film formation time	permanently adhesive	-
Time required for drying 20 °C / 50 %RH	48 hours	-
Temperature resistance once dried	-30 / +80 °C	-22 / +176 °F
Application temperature (cartridge)	+5 / +30 °C	-13 / +86 °F
Application temperature (ambient)	-5 °C	23 °F
Application temperature (support)	+5 / +30 °C	-13 / +86 °F
Solvents	no	-
Ecode (GEV test procedure)	EC1 plus	-
French VOC classification	A+	-
Transport temperature	-30 °C / +40 °C	-22 °F / +104 °F
Storage temperature <sup>(1)</sup>	+5 °C / +25 °C	+41 °F / +77 °F
Storage time <sup>(2)</sup>	up to 24 months	-

<sup>(1)</sup>Store the product in a dry, covered location.

<sup>(2)</sup>Check the expiry date on the cartridge.

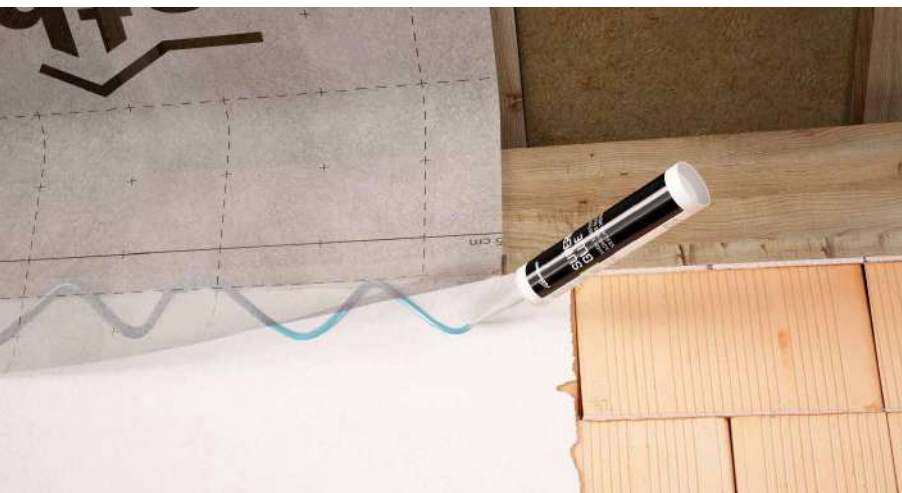
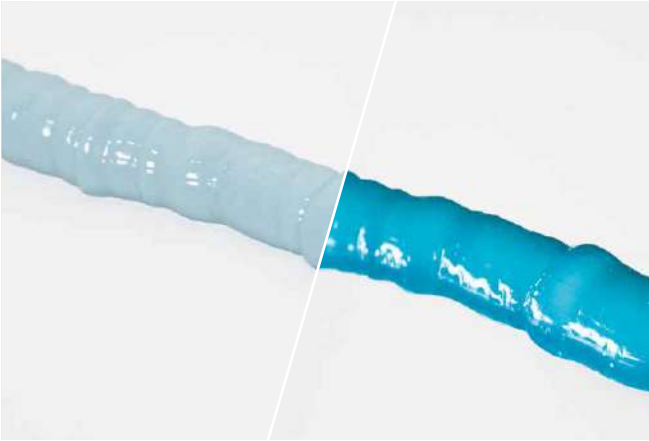
Waste classification (2014/955/EU): 08 04 10.

EUH208 Contains CAS 55965-84-9 (3:1), CAS 2634-33-5. May produce an allergic reaction; EUH210 Safety data sheet available on request.

## CODES AND DIMENSIONS

CODE	content [mL]	content [US fl oz]	version	
SUPERBGLUE310	310	10.48	rigid cartridge	20
SUPERBGLUE600	600	20.29	soft cartridge	20

## GLUE PROPERTIES



### PERMANENT ADHESION | DIN 4108-11

The glue is tested for elastic and durable seals using DIN tests.

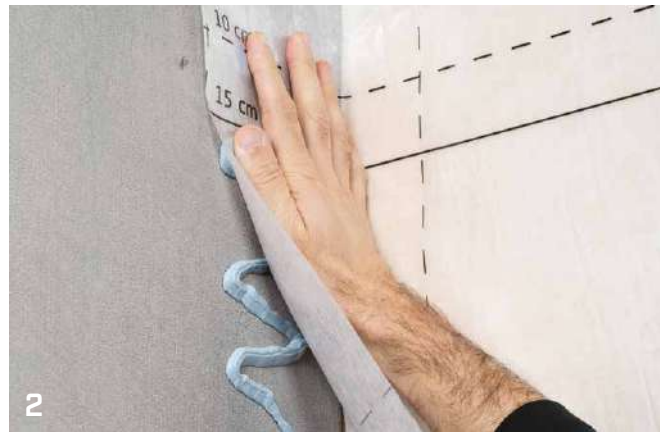
### EMICODE EC1 PLUS

Thanks to the special formulation, it achieves the highest level of safety with regard to emissions that are harmful to health.

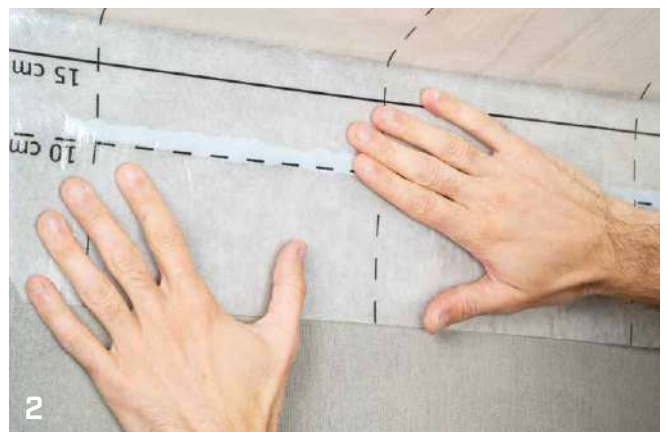


## RECOMMENDATIONS FOR INSTALLATION: INDOOR GLUES

### MEMBRANE CONNECTION TO WALL - CONCRETE



### MEMBRANE CONNECTION TO ROOF - CONCRETE

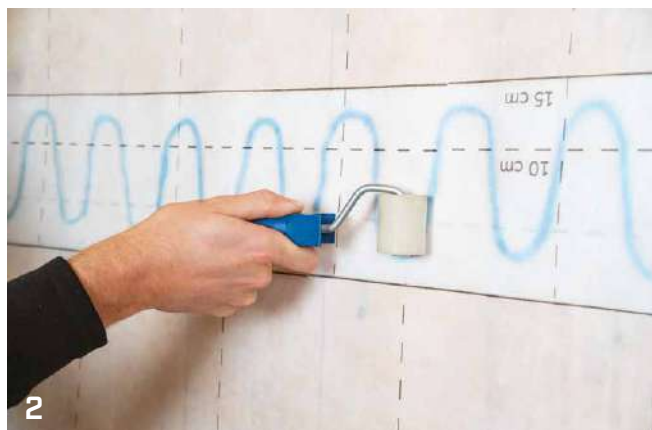
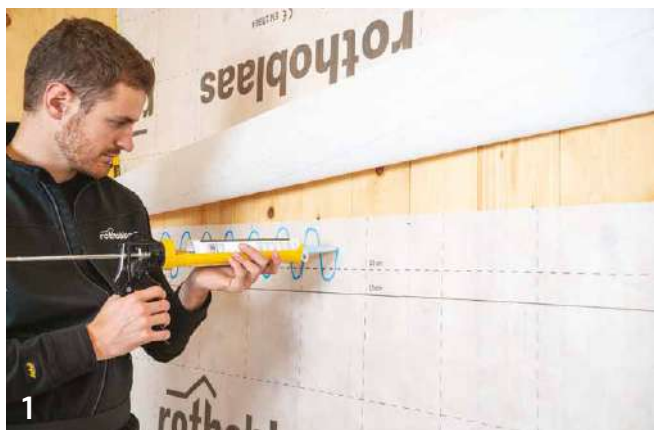


### MEMBRANE CONNECTION TO ROOF - OSB





## MEMBRANE OVERLAP SEALING



## WINDOW HOLE SEALING



1 PLASTER BAND LITE

## MEMBRANE CONNECTION TO WALL - CONCRETE



1 PRIMER, PRIMER SPRAY

# OUTSIDE GLUE

## HIGH ELASTICITY UNIVERSAL ADHESIVE GLUE FOR EXTERNAL USE



### 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.



## TECHNICAL DATA

Properties	value	USC conversion
Colour	grey	-
Composition	butyl rubber	-
Density	1,39 g/mL	222.9 oz/gal
Yield with strip Ø8 mm (cartridge 310 mL)	approx. 6 m	approx. 19.69 ft
Yield with strip Ø8 mm (cartridge 600 mL)	approx. 12 m	approx. 39.37 ft
Film formation time 20 °C / 50 %RH	20 - 30 min	-
Time required for complete hardening 20 °C / 50 %RH	4 - 6 weeks	-
Temperature resistance once hardened	-25 / +70 °C	-13 / +158 °F
Application temperature (cartridge)	+5 / +40 °C	-13 / +158 °F
Application temperature (ambient)	+5 / +40 °C	-13 / +158 °F
Application temperature (support)	+5 / +40 °C	-13 / +158 °F
Watertightness after hardening	conforming	-
Transport temperature	+5 / +30 °C	-13 / +86 °F
Storage temperature <sup>(1)</sup>	+5 / +25 °C	-13 / +77 °F
Storage time <sup>(2)</sup>	up to 12 months	-

<sup>(1)</sup>Store the product in a dry, covered location.

<sup>(2)</sup>Check the expiry date on the cartridge.

Waste classification (2014/955/EU): 08 04 10.

EUH066 Repeated exposure may cause skin dryness or cracking. EUH210 Safety data sheet available on request.

## CODES AND DIMENSIONS

CODE	content [mL]	content [US fl oz]	version	
OUTGLUE310	310	10.48	rigid cartridge	24
OUTGLUE600	600	20.29	soft cartridge	12

## ■ FIELDS OF APPLICATION



### WATER AND UV RESISTANT

The product offers excellent UV stability and is also suitable for sealing in the event of the presence of water during installation without the need for drying time.

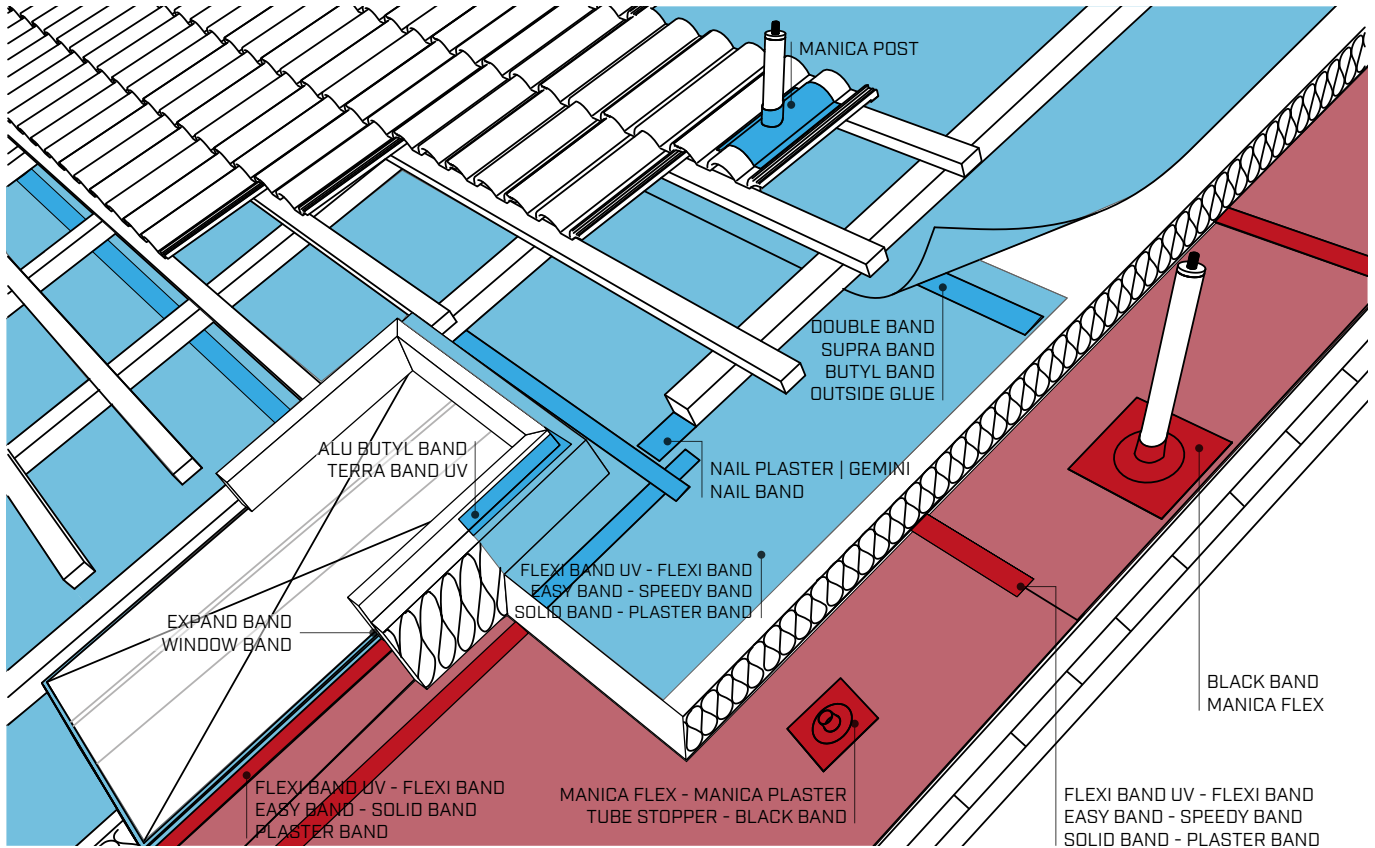
### DURABILITY

The modified butyl mix allows the product to remain elastic over time without altering its hermetic properties, even under high thermal stress.

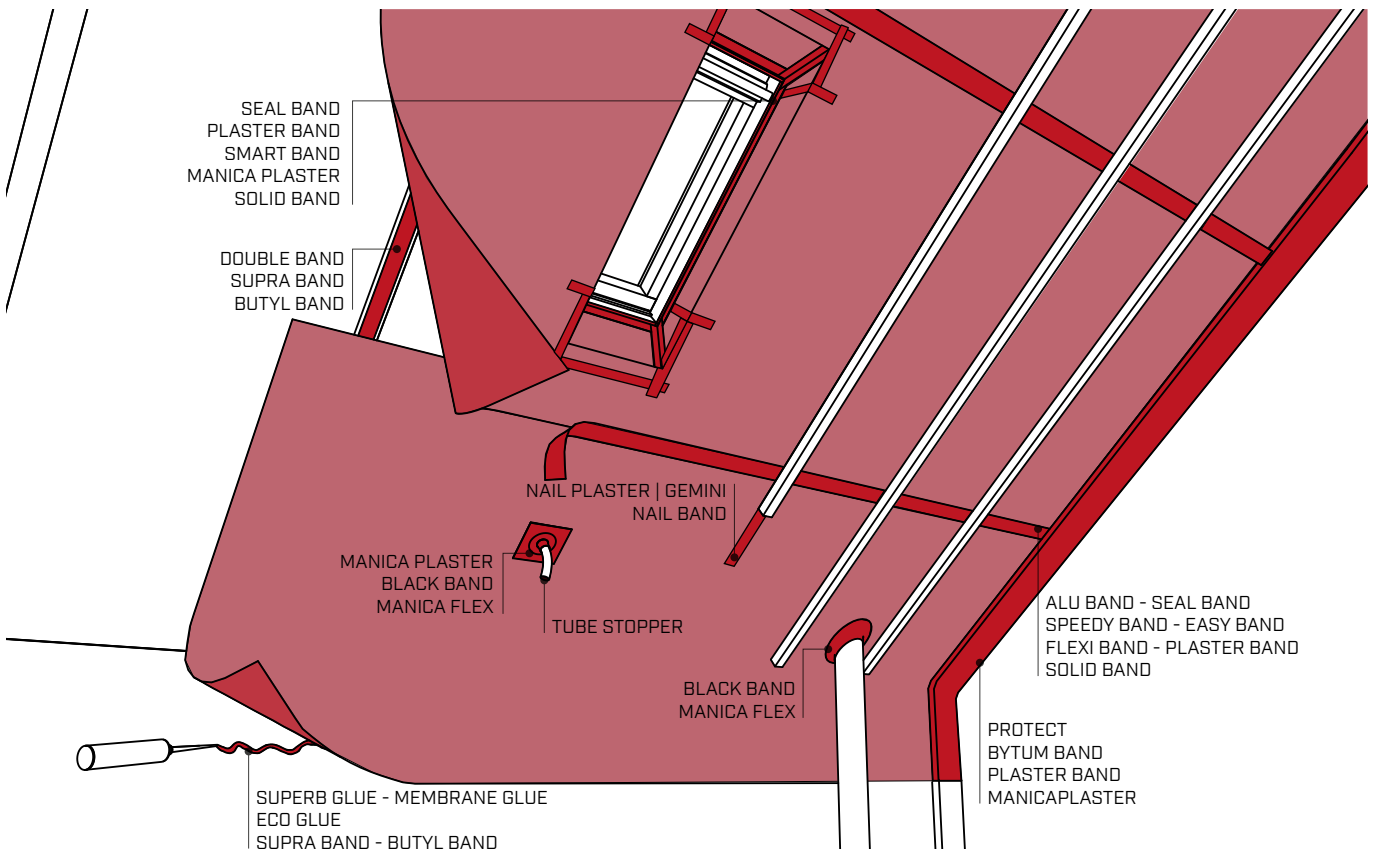


# APPLICATION SETTINGS

## VENTILATED CLT ROOF

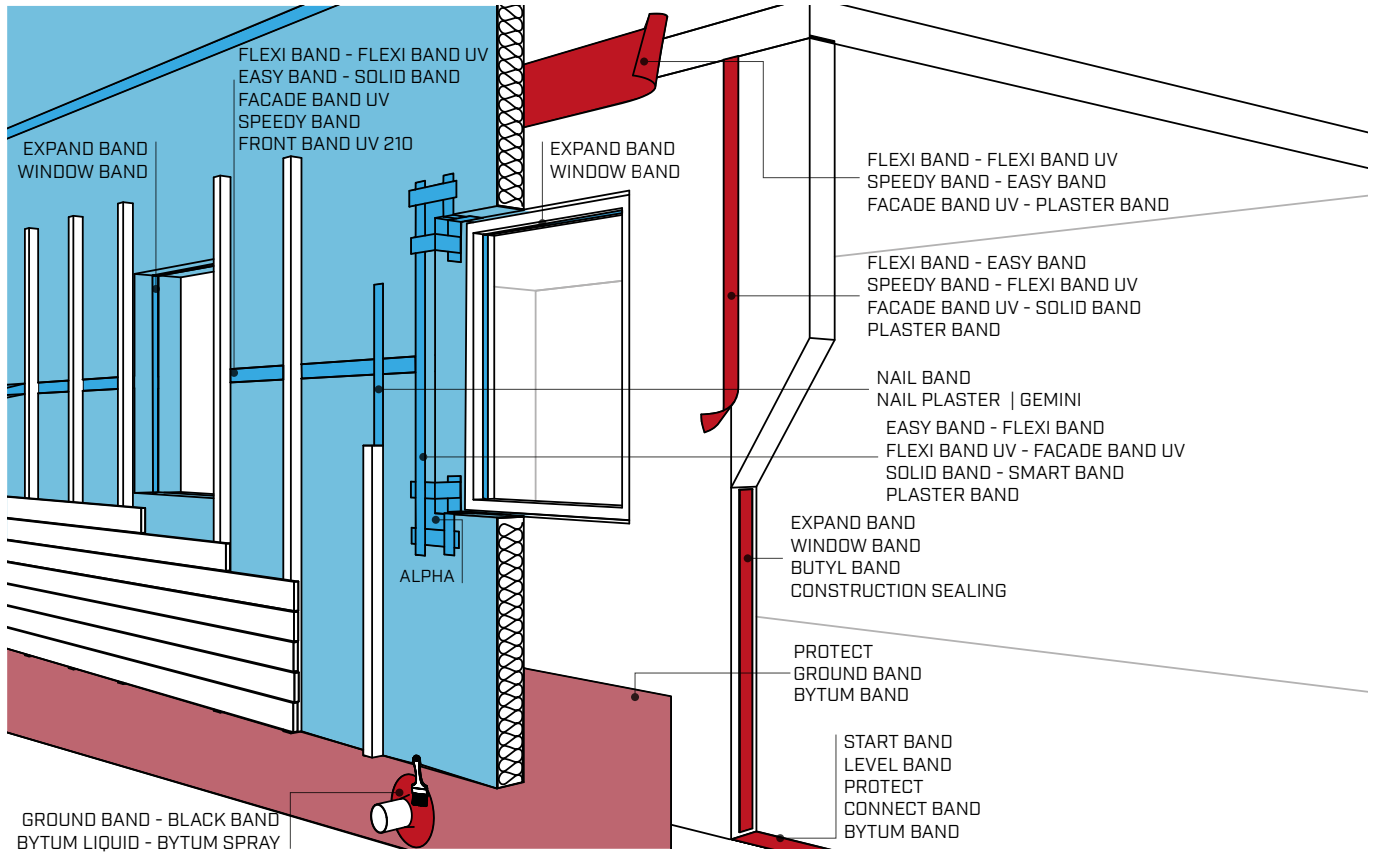


## FRAME ROOF ON MASONRY WALL

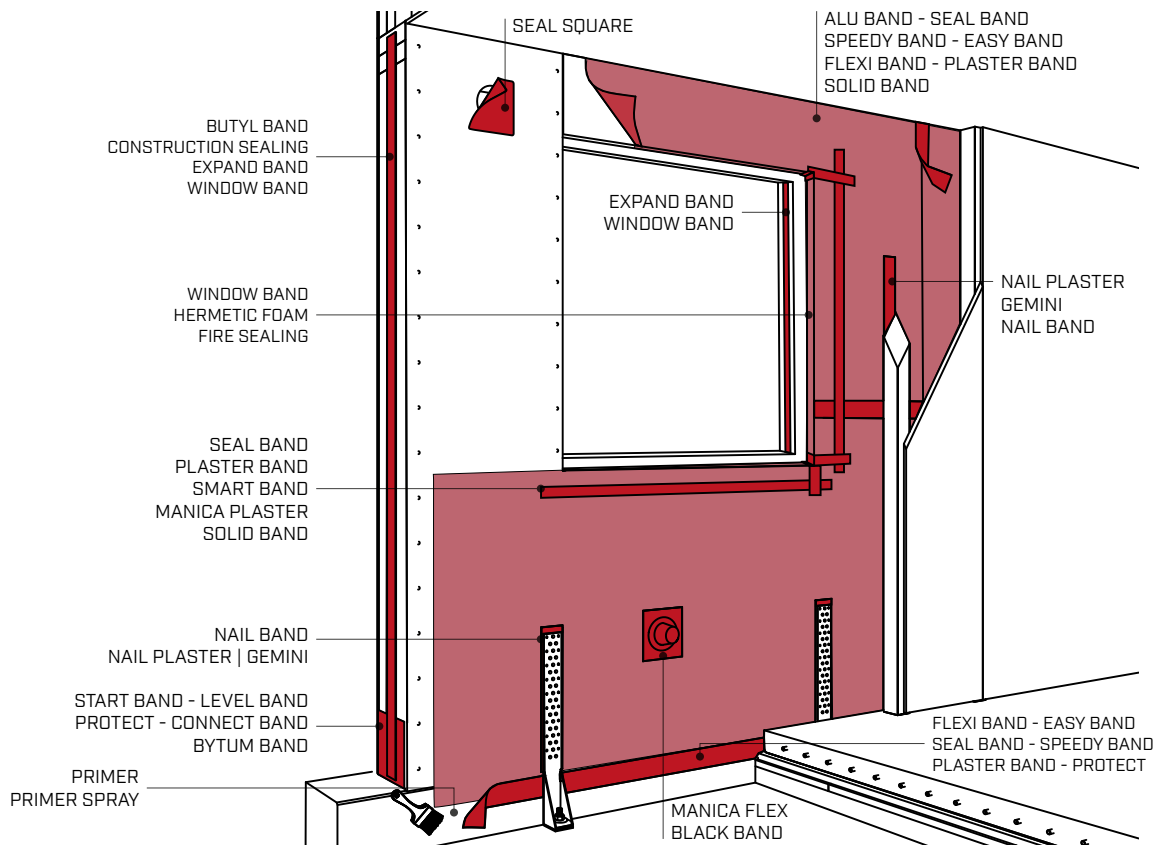




## CLT STRUCTURE WITH VENTILATED WALL

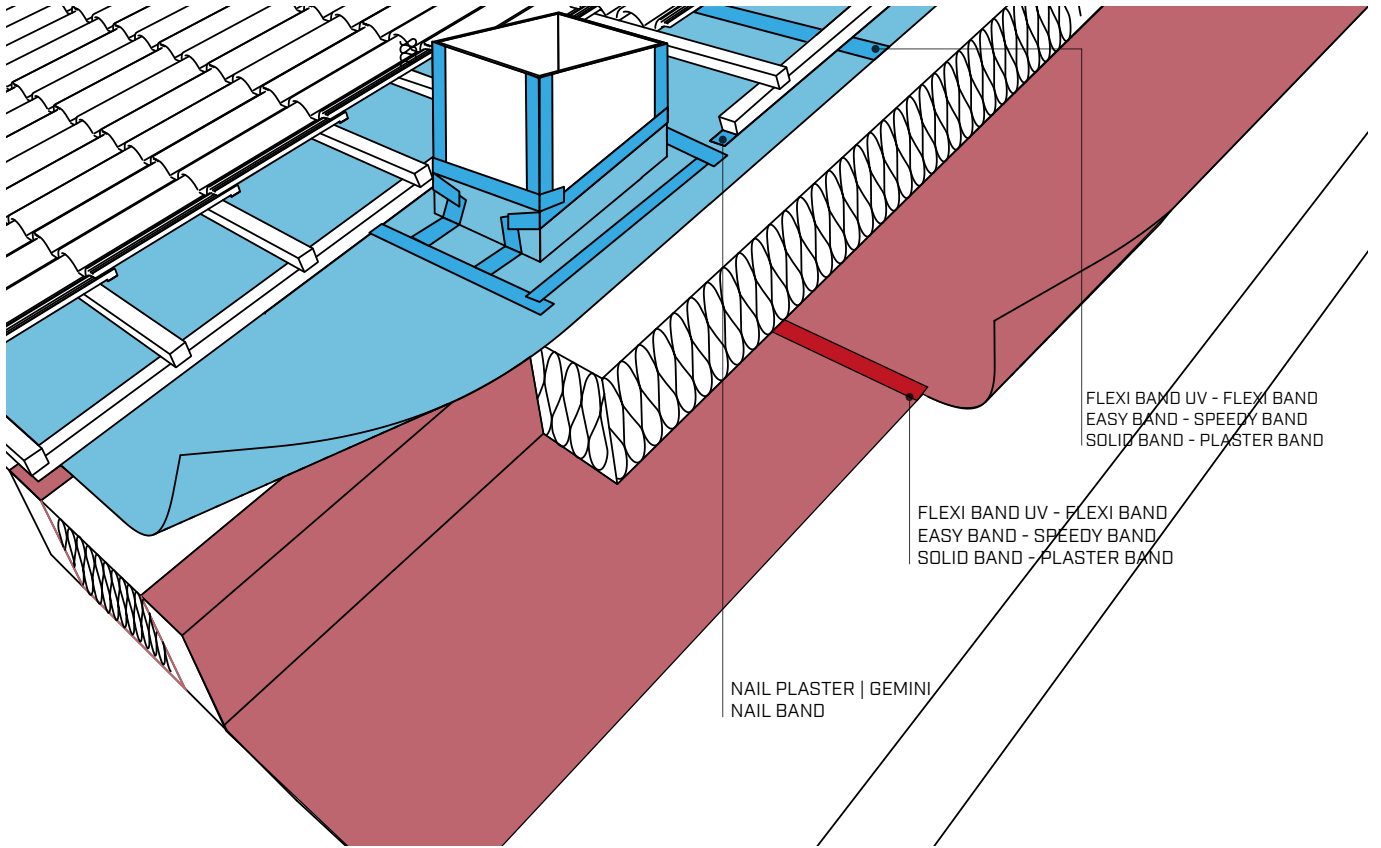


## FRAME WALL WITH WINDOW

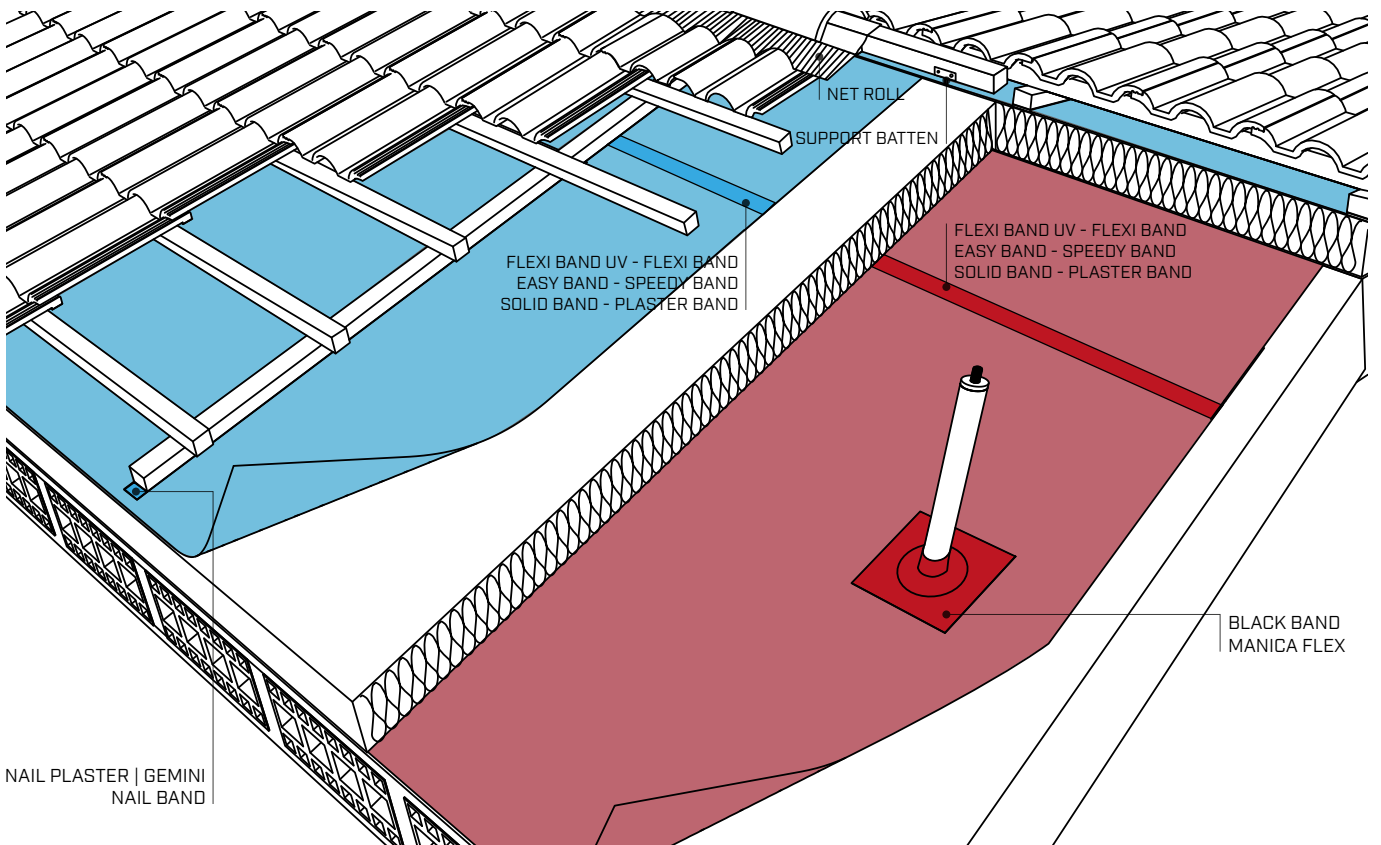


# APPLICATION SETTINGS

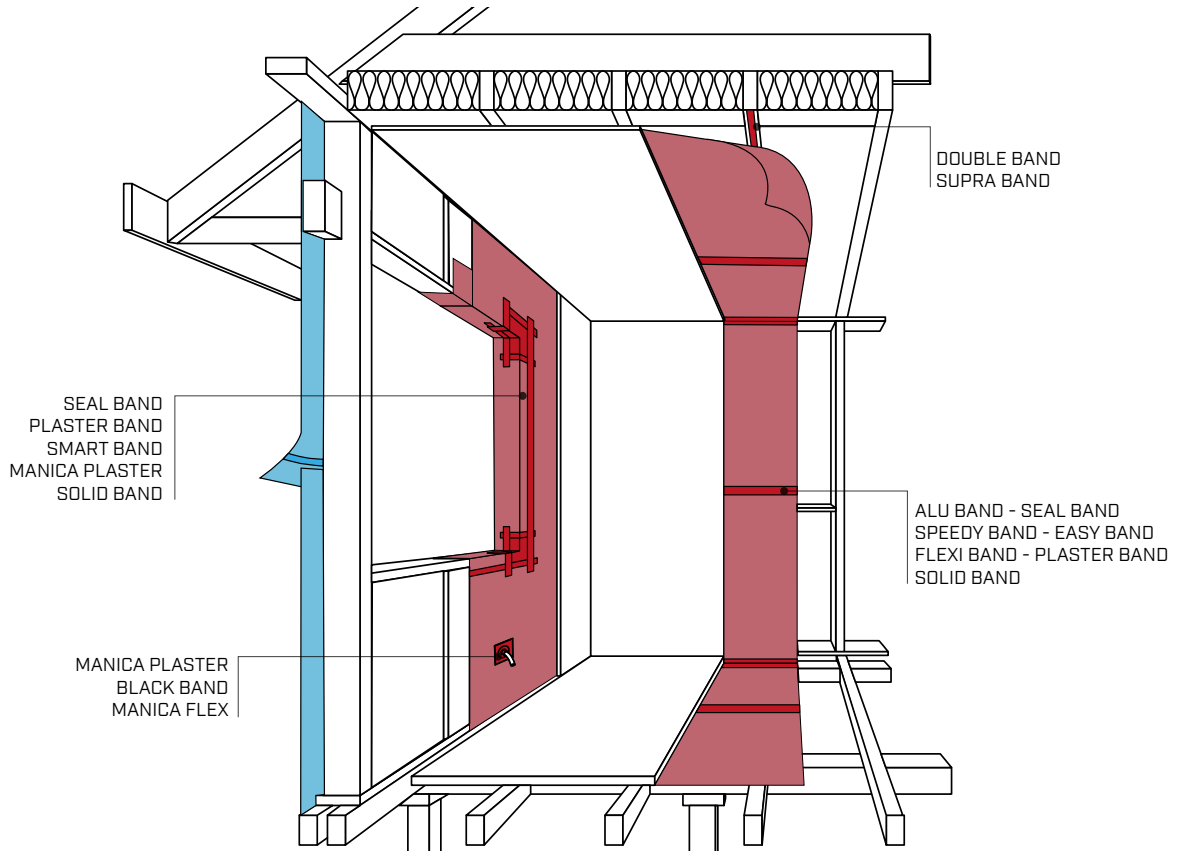
## RECOVERY OF A TIMBER ROOF



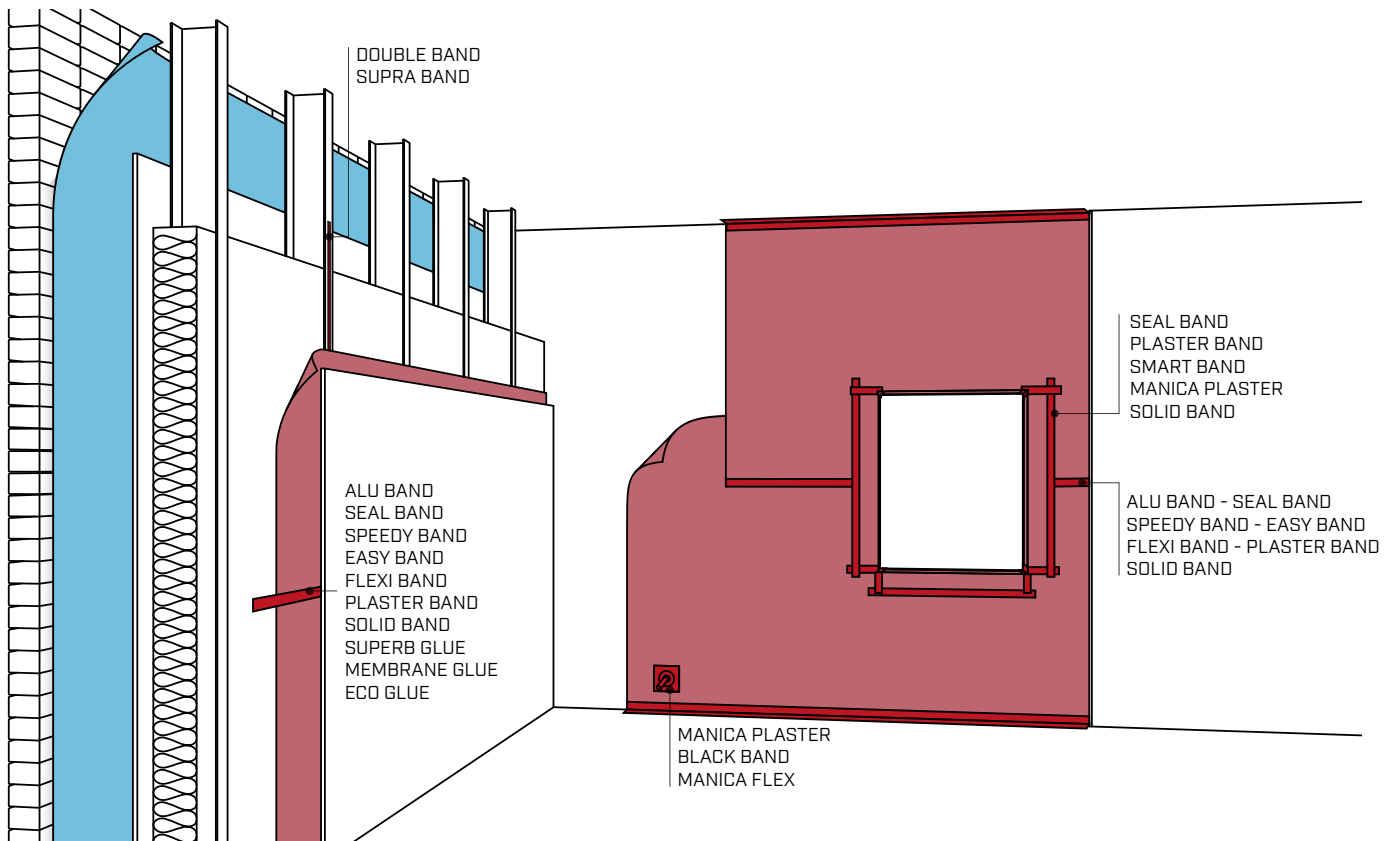
## CONCRETE AND MASONRY ROOF



## TIMBER FRAME STRUCTURE



## STEEL FRAME WITH BRICK CLADDING







# ROOF AND VENTILATION ELEMENTS

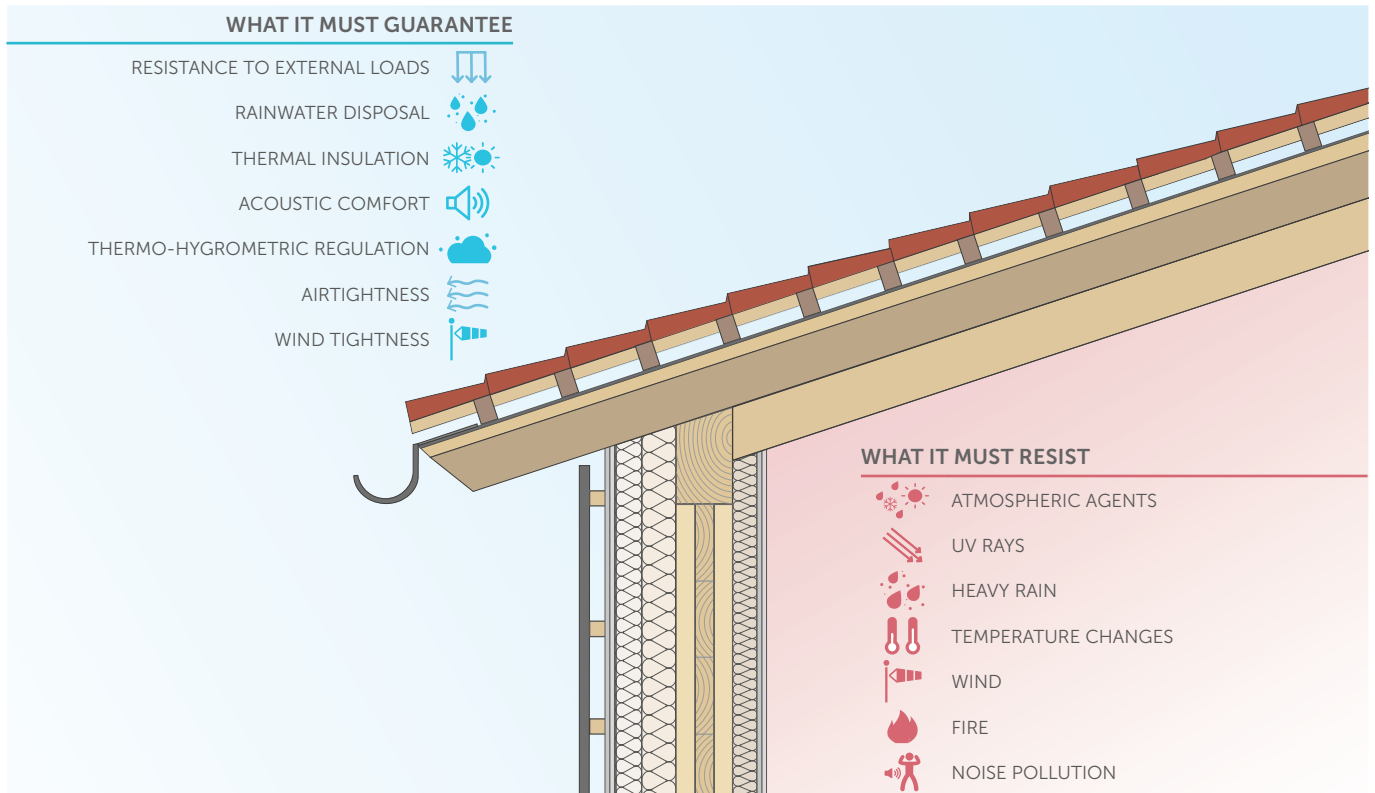
# ROOF AND VENTILATION ELEMENTS

# ROOF AND VENTILATION ELEMENTS

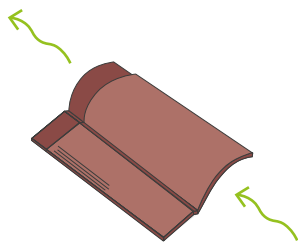
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# VENTILATION AND ROOF

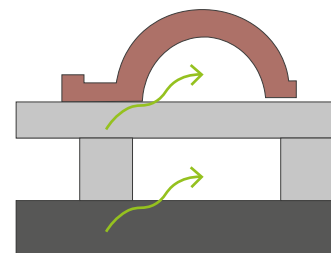
Many factors need to be taken into account when designing and building a safe, healthy and durable roof.



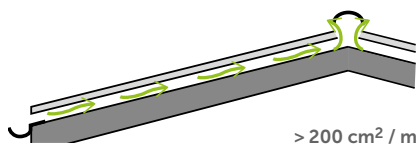
## VENTILATION AND MICRO-VENTILATION



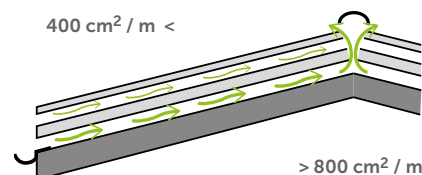
The micro-ventilation created under the tiles is favoured by the geometry of the tile itself. It is sufficient for disposing of excess humidity.



Ventilation under the roof is achieved by means of tile-holder battens and, in addition to disposing of humidity, it ensures the removal of excessive heat accumulated.



For a micro-ventilated roof, it is advisable to ensure a gap with a section of at least 200 cm<sup>2</sup> for each linear metre of pitch.

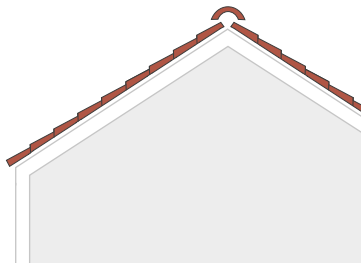


For a ventilated roof, it is advisable to ensure a gap with a section varying from a minimum of 400 cm<sup>2</sup> to a maximum of 800 cm<sup>2</sup> per linear metre of pitch.

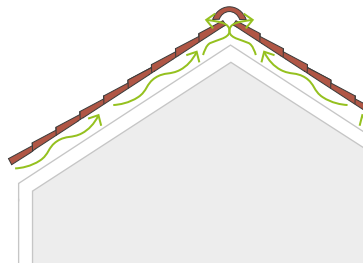


## TYPES OF ROOFS

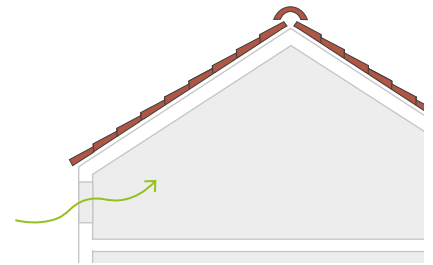
Several factors determine this aspect: the construction tradition of the place where the roof is built, the experience of the builder and the specific requirements of the client.



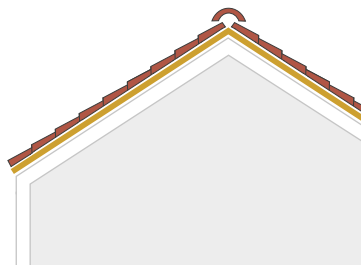
MICRO-VENTILATED  
NON-INSULATED ROOF



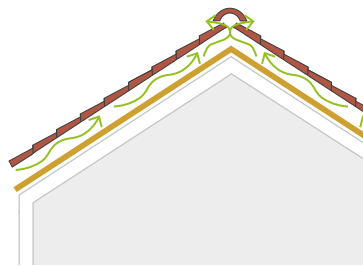
VENTILATED NON-INSULATED ROOF



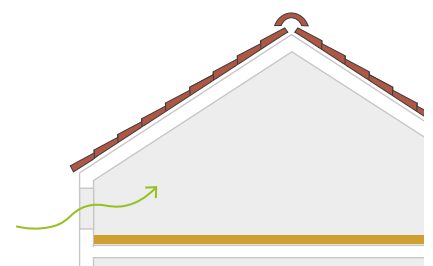
NON-INSULATED ROOF  
VENTILATED UNDER-ROOF



MICRO-VENTILATED INSULATED ROOF

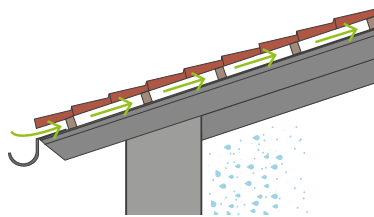


VENTILATED INSULATED ROOF

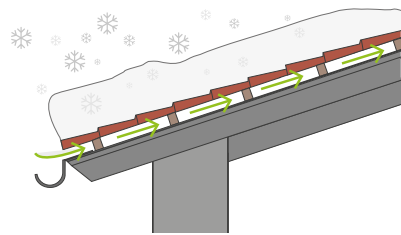


INSULATED ROOF  
VENTILATED UNDER-ROOF

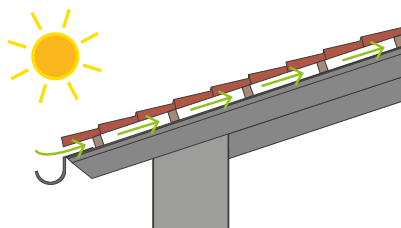
## THE ADVANTAGES OF GOOD VENTILATION



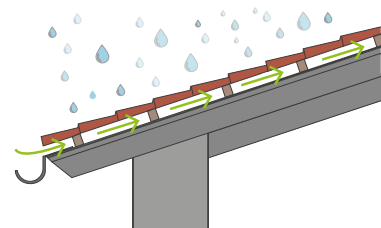
Good ventilation helps the water vapour inside the building envelope to dry, preventing the formation of interstitial condensation at the insulation and of the structure.



In winter, ventilation makes snow that may have accumulated on the roof to melt evenly, preventing it from slipping uncontrollably.



During the warmer months, ventilation removes some of the thermal energy stored under the roof, contributing to improved housing comfort.



The ventilation layer offers additional protection in the event of accidental infiltration, as it creates a second layer of water flow and prevents water from stagnating.

## DESIGN VENTILATION

### WHAT IS THE CHIMNEY EFFECT?

In order for a hot air balloon to fly and overcome the force of gravity, the density of the air inside the envelope must be reduced. How? Warming it up.

The density of confined air will be lower than the density of the outside air and the balloon will tend to rise upwards.

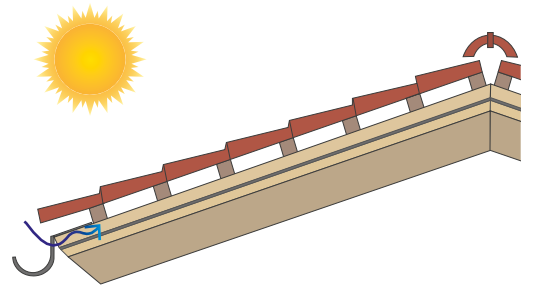
The same phenomenon occurs in ventilated roofs and is known as the "chimney effect".



### HOW VENTILATION TAKES PLACE

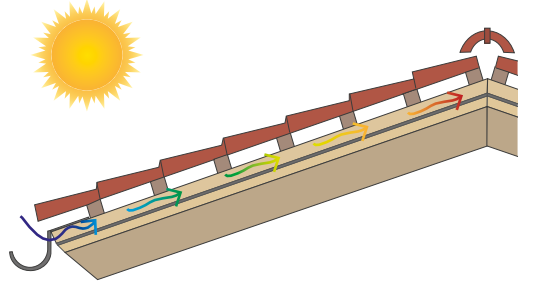
1.

Solar radiation heats the bent tiles. The ventilation chamber underneath acts as an "air cushion", preventing the direct passage of heat to the layers.



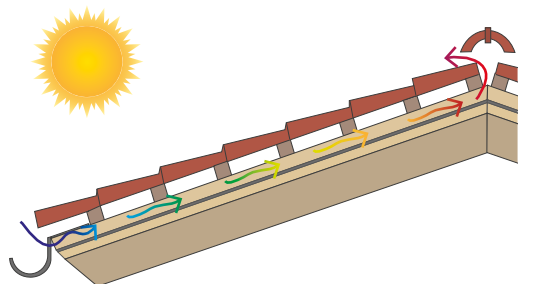
2.

The air heated in the ventilation chamber, which is less dense than unheated air, rises upwards, also driven by the outside air entering through the eaves openings.



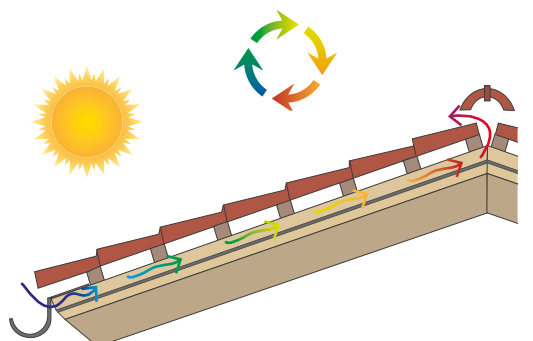
3.

Then air leaves the ridge and mixes with the ambient air. This creates a vacuum inside the air chamber causing it to "empty". The lower pressure inside the chamber causes unheated outside air to be drawn in.



4.

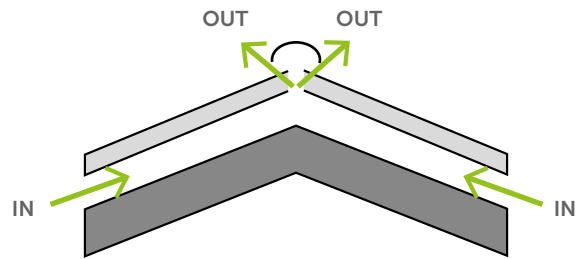
The air coming out of the ridge line creates a vacuum in the air chamber, inducing a draught of unheated outdoor air, which is transported into the ventilation chamber.



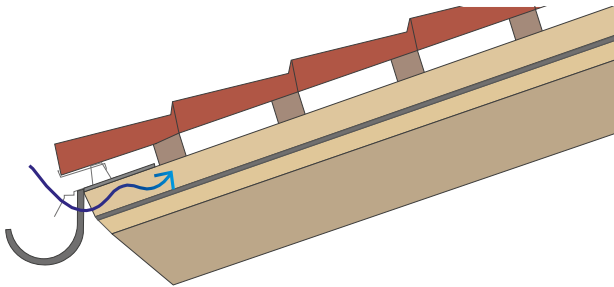
## LOCATION OF OPENINGS

To ensure that the ventilation cycle occurs without interruption it is essential to:

- create a proper air inlet near the gutter;
- ensure proper air outlet at the ridge line.

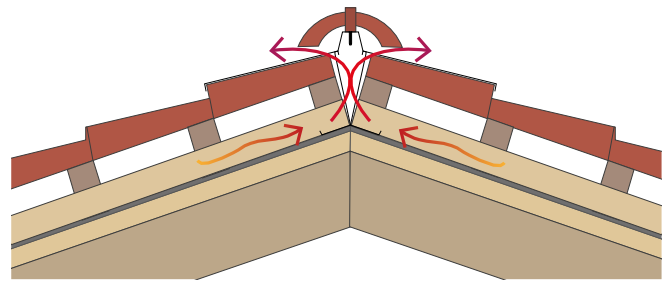


### GUTTER



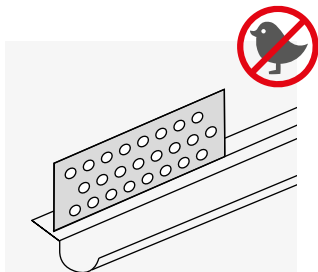
The most effective way to achieve a proper air inlet near the gutter is to use all those products that allow air to enter but protect the roof from intrusion by birds and small animals. The solutions offered by Rothoblaas include the ventilation grilles and eaves bird combs illustrated in this chapter.

### RIDGE LINE

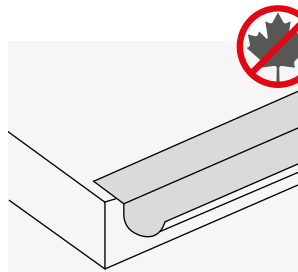


Solutions that allow air to pass through must be used in order to achieve a proper air inlet near the ridge line. Rothoblaas offers rigid or flexible ventilated under-ridges.

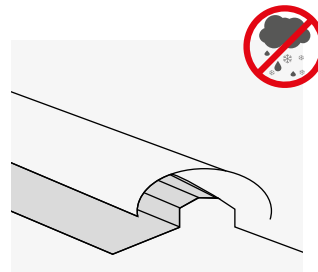
## INSTALLATION AND MAINTENANCE



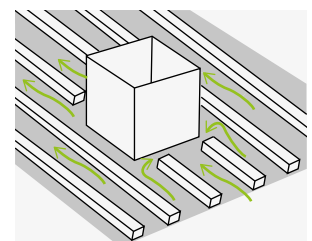
Protect air inlets and outlets from insects and birds, minimising section obstruction.



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



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



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

# RIDGE

## NET ROLL

### FLEXIBLE VENTILATED UNDER-RIDGE

#### FLEXIBLE

The polypropylene ventilation fabric ensures 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.




### TECHNICAL DATA

Properties	value	USC conversion
Air passage	approx. 150 cm <sup>2</sup> /m	7.09 in <sup>2</sup> /ft
Elongation capacity (pleated aluminium strips)	approx. 45 %	-
Butyl tape width	15 mm	0.6 in
Butyl tape thermal resistance	-40 / +90 °C	-40 / +194 °F
Application temperature	+5 / +40 °C	+41 / +104 °F
UV resistance (aluminium straps)	permanent	-
Storage temperature <sup>(1)</sup>	+5 / +30 °C	+41 / +86 °F

<sup>(1)</sup> Keep the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 09 04.

### CODES AND DIMENSIONS

CODE	B	L	B	L	colour	RAL	
	[mm]	[m]	[in]	[ft]			
NETRED310	310	5	12.2	16	brick red	8004	4
NETBRO310	310	5	12.2	16	brown	8019	4
NETBLA310	310	5	12.2	16	black	9005	4
NETRED390	390	5	15.4	16	brick red	8004	4
NETBRO390	390	5	15.4	16	brown	8019	4
NETBLA390	390	5	15.4	16	black	9005	4
NETRED39020	390	20	15.4	66	brick red	8004	1
NETBRO39020	390	20	15.4	66	brown	8019	1
NETBLA39020	390	20	15.4	66	black	9005	1



#### EASY TO SHAPE

Aluminium straps and butyl tape ensure adaptability to the profile of the roof elements.

#### MATERIALS

Aluminium, PP non-woven fabric, butyl tape.



## STANDARD ROLL

### FLEXIBLE VENTILATED UNDER-RIDGE

#### ADJUSTABLE

The polypropylene fabric ensures excellent flexibility during installation and a high aeration surface.

#### COST/PERFORMANCE

The adhesive butyl tape offers excellent adhesion on ridge tiles and tiles.



### CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	colour	RAL	
STANDRED390	390	5	15.4	16	brick red	8004	4
STANDBRO390	390	5	15.4	16	brown	8019	4
STANDANT390	390	5	15.4	16	anthracite	7021	4

Waste classification (2014/955/EU): 17 09 04.

### RECOMMENDATIONS FOR INSTALLATION



# RIDGE

## METAL ROLL

### FLEXIBLE VENTILATED ALUMINIUM UNDER-RIDGE

#### EXCELLENT ADHESION

The special 4 cm wide butyl tape ensures strong and immediate adhesion to various surfaces.

#### DURABILITY

The choice of metal material ensures excellent UV stability even in harsh climate zones.




### TECHNICAL DATA

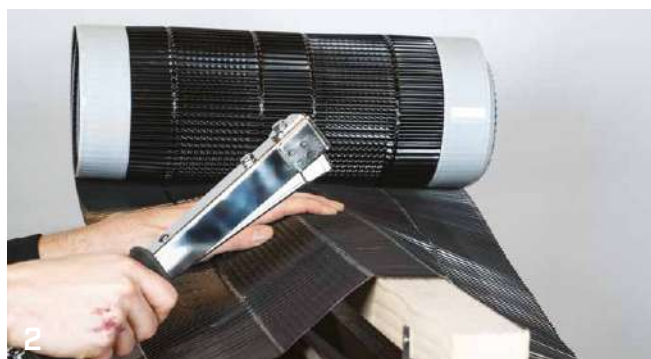
Properties	value	USC conversion
Material	aluminium, butyl	-
Butyl tape width	40 mm	1.57 in
Butyl tape adhesion property	> 19 N/cm	1.68 lb/in
UV resistance	permanent	-
Application temperature	+5 / +30 °C	+41 / +86 °F
Temperature resistance	-30 / +90 °C	-22 / +194 °F
Storage temperature <sup>(1)</sup>	0 / +25 °C	+32 / +77 °F

<sup>(1)</sup> Keep the product in a dry, covered location.  
Waste classification (2014/955/EU): 17 09 04.

### CODES AND DIMENSIONS

CODE	B	L	B	L	colour	RAL	
	[mm]	[m]	[in]	[ft]			
METRED400	400	5	15.8	16	brick red	8004	4
METBRO400	400	5	15.8	16	brown	8017	4
METANT400	400	5	15.8	16	anthracite	7021	4

### RECOMMENDATIONS FOR INSTALLATION





## BRUSH VENT

### RIGID UNDER-RIDGE WITH SIDE BRUSHES

#### FAST INSTALLATION

Thanks to its soft bristles, it adapts easily to the profile of the cover without the need for shaping.

#### PROTECTION

The bristles provide effective protection against the intrusion of water and foreign elements.




### TECHNICAL DATA

Properties	value	USC conversion
Material	PVC	-
Screen length	60 mm	2.36 in
Air passage	≥ 200 cm <sup>2</sup> /m	≥ 9.45 in <sup>2</sup> /ft
UV resistance	permanent	-
Temperature resistance	-20 / +80 °C	-4 / +176 °F

Waste classification (2014/955/EU): 17 02 03.

### CODES AND DIMENSIONS

CODE	B [mm]	H [mm]	L [m]	B [in]	H [in]	L [ft]	colour	RAL	
BRUVENRED175	175	75	1	6.9	3.0	3	brick red	8004	20
BRUVENBRO175	175	75	1	6.9	3.0	3	brown	8019	20
BRUVENBLA175	175	75	1	6.9	3.0	3	black	9005	20

### RECOMMENDATIONS FOR INSTALLATION



# RIDGE

## PEAK VENT AISI 430 RIGID UNDER-RIDGE KIT

### HIGH-PERFORMANCE SOLUTION

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

### PERMANENT UV STABILITY

The robust stainless steel grid and pleated aluminium wings guarantee constant ventilation, stable over time.

430  
AISI



### TECHNICAL DATA


Properties	value	USC conversion
Butyl tape width	20 mm	0.8 in
Air passage	500 cm <sup>2</sup> /m	23.63 in <sup>2</sup> /ft
Butyl thermal resistance	-40 / +90 °C	-40 / +194 °F
Application temperature	+5 / +40 °C	+41 / +104 °F
UV resistance	permanent	-
Water tightness (when installed under tiles)	conforming	-
Storage temperature	+5 / +30 °C	+41 / +86 °F

Waste classification (2014/955/EU): 17 09 04.

For the installation, as many brackets and ventilation elements as linear metres of ridge must be used, with the addition of an initial support bracket. In addition, at least four screws must be provided for each bracket, two for fixing it to the battens and two for fixing the ventilation element to the bracket.

EXAMPLE: if my ridge measures 5 linear metres, I will need 5 ventilation elements + 6 support brackets and 24 self-drilling screws.

### CODES AND DIMENSIONS

CODE	B	L	H	B	L	H	colour	RAL	
	[mm]	[m]	[mm]	[in]	[ft]	[in]			
1 PVENTREDI380	400	1	-	15.8	3	-	brick red	2001	5
1 PVENTBLAI380	400	1	-	15.8	3	-	black	9005	5
2 PVENTPLATE	50	-	230	2.0	-	9.01	steel	-	72
3 PVENTSCREW	Ø 5,5	-	13	Ø 0.2	-	0.5	steel	-	20



### EFFECTIVE

The perforation of the linear element and support brackets ensures perfect ventilation over time, without the need for additional supports.

### MATERIALS

Stainless steel, pre-painted aluminium, butyl tape.



## RECOMMENDATIONS FOR INSTALLATION




## PEAK ONE VENTILATED UNDER-RIDGE FOR SINGLE PITCH

- 2 cm butyl tape
- High quality material
- For ventilation of pitches against a vertical wall



## CODES AND DIMENSIONS

CODE	B <sup>(1)</sup> [mm]	L [m]	B <sup>(1)</sup> [in]	L [ft]	material	colour	RAL	
PEAKONE165	165	1	6.5	3	galvanized metal sheet and aluminium	brown and brick red	8017 and 8004	3

<sup>(1)</sup> Aluminium strap length.

Waste classification (2014/955/EU): 17 04 07.

# RIDGE

## PEAK EASY

### VENTILATED RIGID RIDGE ROLL

#### DURABLE

The choice of metal material ensures excellent UV stability even in harsh climate zones.

#### FAST INSTALLATION

Quick and easy to install, it adapts to any ridge line.




### TECHNICAL DATA

Properties	value	USC conversion
Material	aluminium, butyl	-
Canopy width	160 mm	6.3 in
Butyl tape width	15 mm	0.6 in
Air passage	> 230 cm <sup>2</sup> /m	10.87 in <sup>2</sup> /ft
Strap elongation	40%	-
Butyl thermal resistance	-30 / +80 °C	-22 / +176 °F
Application temperature	+5 / +30 °C	+41 / +86 °F
UV resistance	permanent	-
Water tightness (when installed under tiles)	conforming	-
Storage temperature	0 / +25 °C	+32 / +77 °F

Waste classification (2014/955/EU): 17 09 04.

### CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	colour	RAL	
PEAKEASY400	400	1	15.7	3	brick red	8004	20

### RECOMMENDATIONS FOR INSTALLATION





## PEAK HOOK

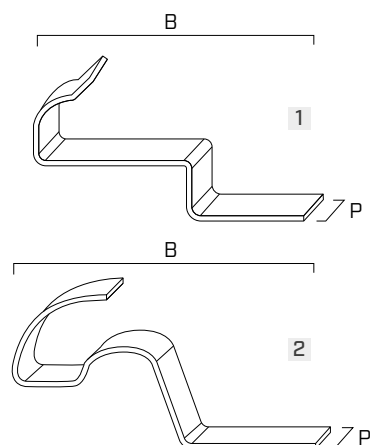
### RIDGE FASTENING HOOK FOR FLAT AND SHAPED TILES

#### FAST DRY INSTALLATION

For installing the ridge without foam or mortar, in accordance with UNI 9460.

#### COMPLETE RANGE

Available in different versions and colours to suit different types of roofs.



### CODES AND DIMENSIONS

CODE	B [mm]	P [mm]	B [in]	P [in]	version	material	colour	RAL	
<b>PUNIRED</b>	115	18	4.5	0.7	universal	aluminium	brick red	8004	50
<b>1 PUNIBRO</b>	115	18	4.5	0.7	universal	aluminium	brown	8017	50
<b>PUNIAN</b>	115	18	4.5	0.7	universal	aluminium	anthracite	7021	50
<b>PCURRED</b>	80	18	3.2	0.7	shaped	aluminium	brick red	8004	50
<b>2 PCURBRO</b>	80	18	3.2	0.7	shaped	aluminium	brown	8017	50
<b>PCURANT</b>	80	18	3.2	0.7	shaped	aluminium	anthracite	7021	50

Waste classification (2014/955/EU): 17 04 02.

### RECOMMENDATIONS FOR INSTALLATION



# RIDGE

## SUPPORT BATTEN METAL BATTEN-HOLDERS

### STABLE AND ADJUSTABLE

The different models are adjustable in height and available in various sizes to ensure the stability of the roof ridge without the need for foam or mortar.

### 4 VERSIONS

Wide range with different fixing and adjustment methods depending on the type of ridge and the thickness to be compensated for by the batten.

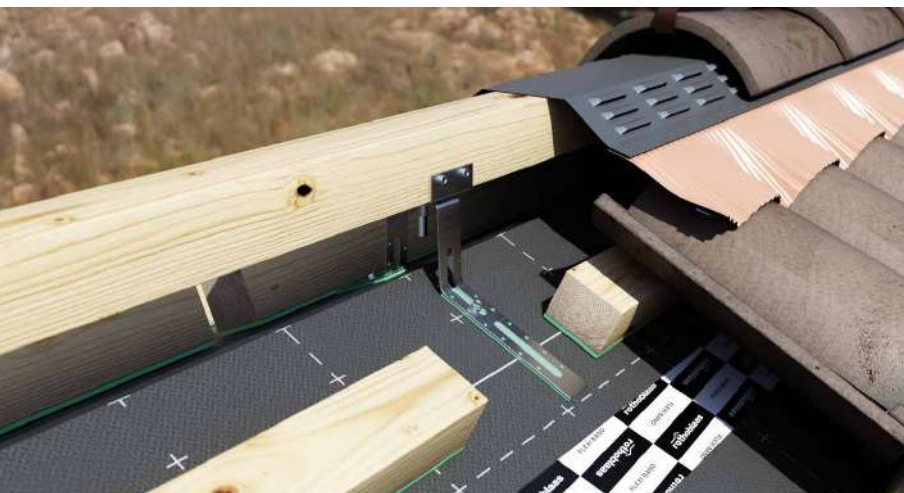


### CODES AND DIMENSIONS

CODE	H <sup>(1)</sup> [mm]	B [mm]	H <sup>(1)</sup> [in]	B [in]	version	material	
1 SUPPORTUNI	210	50	8.3	2.0	universal	DX51D steel	50
2 SUPPORTNAIL	280	50	11.0	2.0	with nail	DX51D steel	50
3 SUPPORTSCREW	260	50	10.2	2.0	with screw	DX51D steel	50
4 SUPPORTLEVEL	210 - 240	50	8.3 - 9.5	2.0	adjustable	DX51D steel	50

<sup>(1)</sup> Total height.

Waste classification (2014/955/EU): 17 04 05.



### VERSATILE

It can be adapted to any type of roof and be fixed on the most common rigid supports such as wood or concrete.

### MATERIAL

Made of steel for perfect durability and weather resistance.



## RECOMMENDATIONS FOR INSTALLATION

### 1 SUPPORTUNI



### 2 SUPPORTNAIL



### 3 SUPPORTSCREW



### 4 SUPPORTLEVEL



# CHIMNEY CONNECTION

## ALU FLASH CONNECT

### ALUMINIUM AND SELF-ADHESIVE BUTYL VERSION



- Butyl adhesive adheres perfectly, creating a durable watertight seal
- It can be cut with a cutter or scissors
- Excellent UV and weather resistance

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	cladding	colour	RAL	
ALURRED300	300	2	5	11.8	79	16.40	aluminium 0,12 mm	brick red	8004	1
ALURBRO300	300	2	5	11.8	79	16.40	aluminium 0,12 mm	brown	8019	1
ALURBLA300	300	2	5	11.8	79	16.40	aluminium 0,12 mm	black	9004	1

Waste classification (2014/955/EU): 17 09 04.

## SOFT FLASH CONNECT

### EPDM AND BUTYL SELF-ADHESIVE VERSION



- Permanent UV stability
- Extremely flexible 3D surface
- It can be modelled by hand without special tools

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	cladding	colour	RAL	
SOFTRED300	300	2,5	5	11.8	98	16.40	EPDM 1,5 mm	brick red	8004	1
SOFTBRO300	300	2,5	5	11.8	98	16.40	EPDM 1,5 mm	brown	8019	1
SOFTBLA300	300	2,5	5	11.8	98	16.40	EPDM 1,5 mm	black	9004	1

Waste classification (2014/955/EU): 17 02 03.

## MANICA ROLL

### SELF-ADHESIVE LEAD AND BUTYL VERSION



- Smooth, perfectly malleable surface
- Permanent UV stability
- Excellent weather resistance

CODE	B [mm]	s [mm]	L [m]	B [in]	s [mil]	L [ft]	cladding	colour	RAL	
MANROLL1	300	1,5	5	11.8	59	16.40	lead 0,5 mm	brick red	8004	1
MANROLL2	300	1,5	5	11.8	59	16.40	lead 0,5 mm	brown	8017	1
MANROLL3	300	1,5	5	11.8	59	16.40	lead 0,5 mm	dark brown	8019	1
MANROLL4	300	1,5	5	11.8	59	16.40	lead 0,5 mm	black	9005	1
MANROLL5	300	1,5	5	11.8	59	16.40	lead 0,5 mm	graphite	7016	1

Avoid contact with skin, eyes and food. Do not produce and breathe dust.

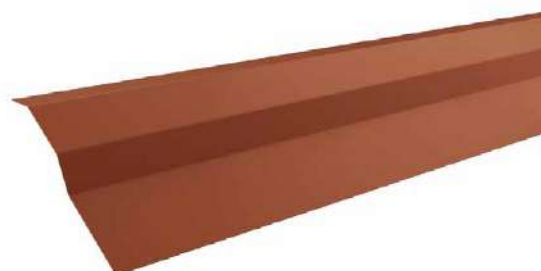


## RECOMMENDATIONS FOR INSTALLATION



## GUTTER FLASHING

- Cold and water resistant
- Resistant to UV rays
- With polyester paint, protected by protective film



CODE	B [mm]	L [m]	B [in]	L [ft]	material	colour	RAL	
GUTRED80 <sup>(1)</sup>	80	2	3.1	7	aluminium	brick red	8004	20
GUTBRO80 <sup>(1)</sup>	80	2	3.1	7	aluminium	brown	8019	20
GUTBLA80 <sup>(1)</sup>	80	2	3.1	7	aluminium	black	9005	20

<sup>(1)</sup>Products available only upon order.  
Waste classification (2014/955/EU): 17 04 02.



### ADJUSTABLE

The special adhesive butyl mix offers strong adherence, even on rough surfaces.

### MATERIAL

Aluminium, EPDM and lead guarantee durability.

# EAVES GUTTER


## VALLEY ALU

### STRENGTHENING ELEMENT FOR VALLEYS

- Quick and easy installation
- Weather resistance



### CODES AND DIMENSIONS

CODE	B [mm]	L [m]	B [in]	L [ft]	colour	RAL	
VALLEYRED500	500	6	19.7	20	brick red	8004	1
VALLEYBRO500	500	6	19.7	20	brown	8017	1

Waste classification (2014/955/EU): 17 04 05.


## GASKET

### GASKET FOR VALLEY

- Made of polyurethane foam
- Self-adhesive, ideal for quick installation
- Adapts to all roof shapes for optimal and permanent watertightness



### CODES AND DIMENSIONS

CODE	B [mm]	H [mm]	L [m]	B [in]	H [in]	L [ft]	colour	RAL	
GASKETANT60	30	60	1	1.2	2.4	3	anthracite	7021	200

Waste classification (2014/955/EU): 17 02 03.



### COMPLETE SYSTEM

The VALLEY ALU and GASKET solution provides excellent and durable protection of the valley.

### MATERIAL

Made of aluminium, it provides safe and durable protection.



# SNOW PROTECTION

## SNOW STOP

### SNOW STOPPER HOOK FOR RIDGE TILES AND TILES

#### STABLE


Stable mechanical fixing prevents accumulated snow falls.

#### COMPLETE RANGE

Available for ridge, Marseille and Portuguese type tiles in different colours.

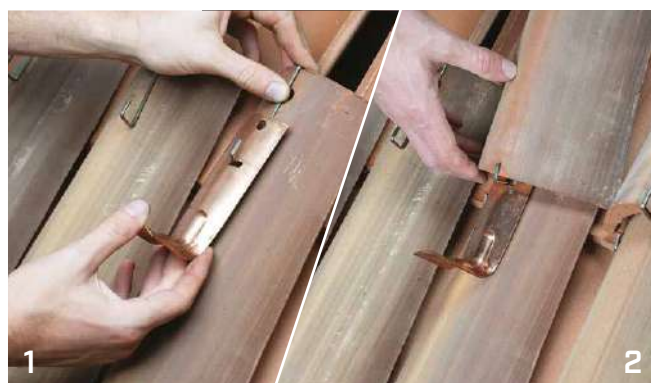


#### CODES AND DIMENSIONS

CODE	H	B	P	H	B	P	version	material	colour	RAL	
	[mm]	[mm]	[mm]	[in]	[in]	[in]					
SSTOPREDUNI	65	300	30	2.6	11.8	1.2	cement and roof tile	pre-painted metal sheet	brick red	8004	40
SSTOPBROUNI	65	300	30	2.6	11.8	1.2	cement and roof tile	pre-painted metal sheet	brown	8017	40
SSTOPREDPOR	65	300	30	2.6	11.8	1.2	Portuguese roof tile	pre-painted metal sheet	brick red	8004	40
SSTOPBROPOR	65	300	30	2.6	11.8	1.2	Portuguese roof tile	pre-painted metal sheet	brown	8017	40
SSTOPREDFLAT	65	280	30	2.6	11.0	1.2	Canadian tile, metal roofing	pre-painted metal sheet	brick red	8004	40
SSTOPBROFLAT	65	280	30	2.6	11.0	1.18	Canadian tile, metal roofing	pre-painted metal sheet	brown	8017	40
SSTOPLBRO	55	130	40	2.17	5.1	1.6	tile	pre-painted metal sheet	brown	8017	200
SSTOPLCOP	55	130	40	2.17	5.1	1.6	tile	stainless steel	copper	-	200

Waste classification (2014/955/EU): 17 04 05.

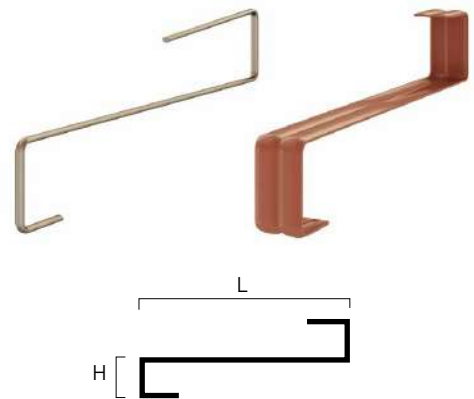
#### RECOMMENDATIONS FOR INSTALLATION




## TILE STOP S

### S PRE-SHAPED HOOKS FOR PLAIN TILES

- Prevents roof from slipping
- Dry installation
- Fast and safe interlocking
- Installation with foam or mortar is avoided in compliance with standard UNI 9460
- Wide range of materials and sizes available



### CODES AND DIMENSIONS

CODE	L [mm]	H [mm]	L [in]	H [in]	material	colour	RAL	
TSSI9016	90	16	3.5	0.6	steel AISI 204	steel	-	100
TSSI9020	90	20	3.5	0.8	steel AISI 204	steel	-	100
TSSI12016	120	16	4.7	0.6	steel AISI 204	steel	-	50
TSSI12020	120	20	4.7	0.8	steel AISI 204	steel	-	50
TSSRED9016	90	16	3.5	0.6	pre-painted metal sheet	Siena red	3009	50
TSSRED9020	90	20	3.5	0.8	pre-painted metal sheet	Siena red	3009	50
TSSRED12016	120	16	4.7	0.6	pre-painted metal sheet	Siena red	3009	50
TSSRED12020	120	20	4.7	0.8	pre-painted metal sheet	Siena red	3009	50
TSSBRO9016	90	16	3.5	0.6	pre-painted metal sheet	brown	8019	50
TSSBRO9020	90	20	3.5	0.8	pre-painted metal sheet	brown	8019	50
TSSCOP9016	90	16	3.5	0.6	stainless steel tape	copper	-	50
TSSCOP9020	90	20	3.5	0.8	stainless steel tape	copper	-	50

Waste classification (2014/955/EU): 17 04 05.

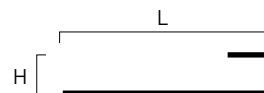
### RECOMMENDATIONS FOR INSTALLATION




## TILE STOP L

### L PRE-SHAPED HOOKS FOR PLAIN TILES

- Dry installation
- Tough and secure hold for the first row of tiles on the pitch
- They can be used as mullion hooks on which the weight of the upper rows of tiles can be unloaded
- Installation with foam or mortar is avoided in compliance with standard UNI 9460
- Wide range of materials and sizes available



### CODES AND DIMENSIONS

CODE	L [mm]	H [mm]	L [in]	H [in]	material	colour	RAL	
TSLI28016	280	16	11.0	0.6	steel AISI 204	steel	-	200
TSLI28020	280	20	11.0	0.8	steel AISI 204	steel	-	200
TSLRED28016	280	16	11.0	0.6	pre-painted metal sheet	Siena red	3009	200
TSLRED28020	280	20	11.0	0.8	pre-painted metal sheet	Siena red	3009	200
TSLBRO28016	280	16	11.0	0.6	pre-painted metal sheet	brown	8019	200
TSLBRO28020	280	20	11.0	0.8	pre-painted metal sheet	brown	8019	200
TSLCOP28016	280	16	11.0	0.6	stainless steel tape	copper	-	200
TSLCOP28020	280	20	11.0	0.8	stainless steel tape	copper	-	200

Waste classification (2014/955/EU): 17 04 05.

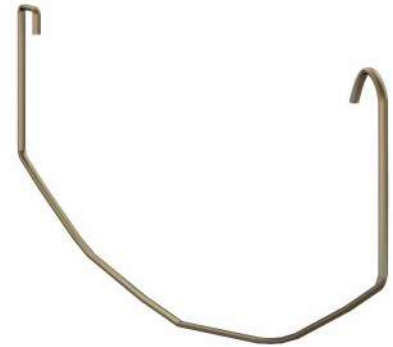
### RECOMMENDATIONS FOR INSTALLATION




## TILE STOP WIND

### PRE-SHAPED BRACING HOOKS FOR TILES

- They prevent tiles from tipping over in the event of wind
- They ensure maximum stability of the roof covering
- Installation with foam or mortar is avoided in compliance with standard UNI 9460



### CODES AND DIMENSIONS

CODE	version	material	colour	
TSWIND	per tile	zinc-plated steel	steel	50

Waste classification (2014/955/EU): 17 04 05.

### RECOMMENDATIONS FOR INSTALLATION






## TILE STOP WIND COPPO

### PRE-SHAPED BRACING HOOKS FOR RIDGE TILES

- They prevent bent tiles from tipping over in the event of wind
- They ensure maximum stability of the roof covering
- Installation with foam or mortar is avoided in compliance with standard UNI 9460

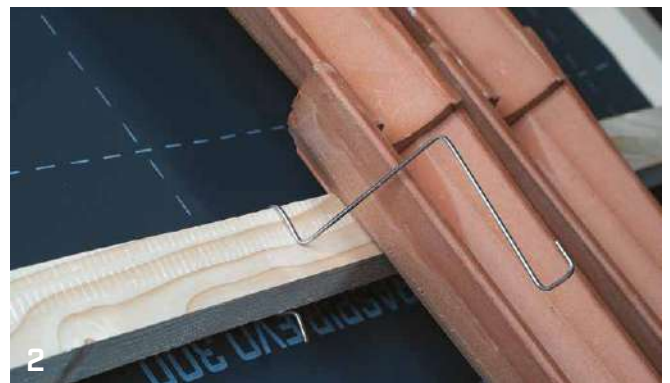


### CODES AND DIMENSIONS

CODE	version	material	colour	
TSWINDC	for tiles without hole	steel AISI 204	steel	200

Waste classification (2014/955/EU): 17 04 05.

### RECOMMENDATIONS FOR INSTALLATION



# VENTILATION AND PROTECTION


## VENT MESH

### FLEXIBLE VENTILATION GRID

- Available in different heights and materials
- Available in different colour variations
- It prevents the entry of birds and insects allowing continuous ventilation



### CODES AND DIMENSIONS

CODE	H [mm]	L [m]	H [in]	L [ft]	material	colour	RAL	
VENTREDBRO80	80	5	3.2	16	pre-painted metal sheet	brick red / brown	8004/8017	1
VENTREDBLA80	80	5	3.2	16	pre-painted metal sheet	brick red/black	8004/9005	1
VENTCOP80	80	25	3.2	82	aluminium	copper	-	1
VENTREDBRO100	100	5	3.9	16	pre-painted metal sheet	brick red / brown	8004/8017	1
VENTREDBLA100	100	5	3.9	16	pre-painted metal sheet	brick red/black	8004/9005	1
VENTCOP100	100	25	3.9	82	aluminium	copper	-	1
VENTREDBRO120	120	5	4.7	16	pre-painted metal sheet	brick red / brown	8004/8017	1
VENTREDBLA120	120	5	4.7	16	pre-painted metal sheet	brick red/black	8004/9005	1
VENTCOP120	120	25	4.7	82	aluminium	copper	-	1
VENTREDBRO160 <sup>(1)</sup>	160	5	6.3	16	pre-painted metal sheet	brick red / brown	8004/8017	1
VENTREDBLA160 <sup>(1)</sup>	160	5	6.3	16	pre-painted metal sheet	brick red/black	8004/9005	1
VENTCOP160 <sup>(1)</sup>	160	25	6.3	82	aluminium	copper	-	1

<sup>(1)</sup>Products available only upon order.

Waste classification (2014/955/EU): 17 04 02 (aluminium), 17 04 05 (metal sheet).


## VENT GRILLE

### PVC VENTILATION GRID

- Made of extremely weatherproof, impact and UV resistant material
- It protects the air entry section from animals and insects that might obstruct it



### CODES AND DIMENSIONS

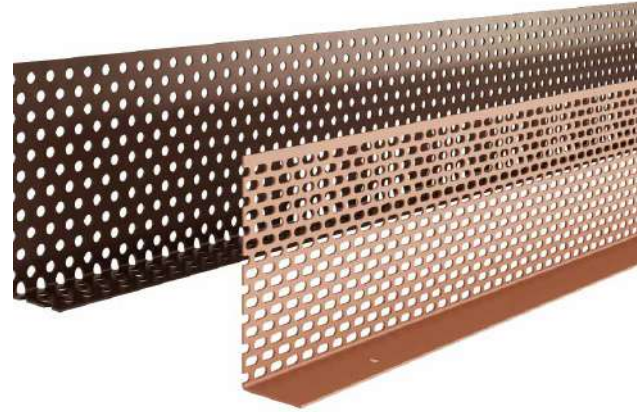
CODE	H [mm]	L [m]	H [in]	L [ft]	material	colour	RAL	
VENTG80R	80	5	3.2	16	PVC	brick red	8004	24
VENTG80B	80	5	3.2	16	PVC	black	9005	24
VENTG100R	100	5	3.9	16	PVC	brick red	8004	24
VENTG100B	100	5	3.9	16	PVC	black	9005	24

Waste classification (2014/955/EU): 17 02 03.


## VENT FOLD

### PRE-BENT GRID FOR VENTILATION

- Large air entry
- Easy installation thanks to the support foot
- Extremely weather resistant



### CODES AND DIMENSIONS

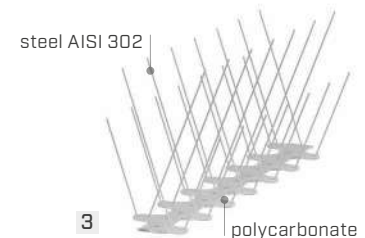
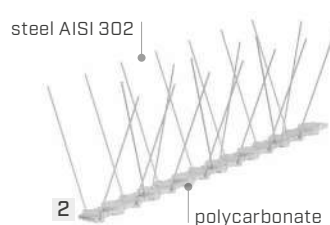
CODE	H [mm]	B [mm]	L [m]	H [in]	B [in]	L [ft]	material	colour	RAL	
VENTFSRED7030	70	30	1,5	2.8	1.2	5	pre-painted metal sheet	brick red	8004	10
VENTFSBRO7030	70	30	1,5	2.8	1.2	5	pre-painted metal sheet	brown	8017	10
VENTFSRED9030	90	30	1,5	3.5	1.2	5	pre-painted metal sheet	brick red	8004	10
VENTFSBRO9030	90	30	1,5	3.5	1.2	5	pre-painted metal sheet	brown	8017	10
VENTFPRED7030	70	30	2,5	2.8	1.2	8	PP	brick red	8004	20
VENTFPBRO7030	70	30	2,5	2.8	1.2	8	PP	brown	8017	20
VENTFPRED9030	90	30	2,5	3.54	1.2	8	PP	brick red	8004	20
VENTFPBRO9030	90	30	2,5	3.54	1.2	8	PP	brown	8017	20

Waste classification (2014/955/EU): 17 02 03 (PP), 17 04 05 (metal sheet).


## BIRD SPIKE

### RIGID BIRD SPIKES

- Element made up of a steel or polycarbonate base with stainless steel spikes fixed to the base to prevent birds from stopping on place



### CODES AND DIMENSIONS

CODE	B [mm]	H [mm]	L [mm]	B [in]	H [in]	L [in]	version	
1 BIRDSPIKE	60	110	1000	2.4	4.33	3280	single	25
2 BIRDSPIKEP1	60	110	335	2.4	4.33	13.19	single	150
3 BIRDSPIKEP2	90	110	335	3.54	4.33	13.19	double	150

Waste classification (2014/955/EU): 17 09 04 (polycarbonate+ steel), 17 04 05 (steel).



# VENTILATION AND PROTECTION

## BIRD COMB

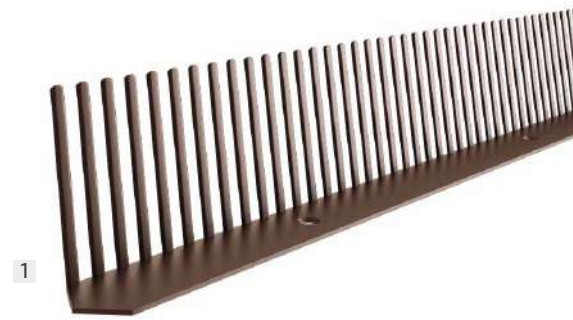
### STANDARD EAVES BIRD COMBS

#### ADJUSTABLE


The flexible polymer compound screens adapt to the profile of the final roof covering.

#### WIDE RANGE

It can be supplied in different colours and heights to meet different application needs. Also available in a version with a raised base to avoid the first eaves batten.



### CODES AND DIMENSIONS

CODE	H [mm]	L [m]	H [in]	L [ft]	version	material	colour	RAL	
BIRDRED60	60	1	2.4	3	without ventilation batten	PP	brick red	8004	200
BIRDBRO60	60	1	2.4	3	without ventilation batten	PP	brown	8019	200
1 BIRDBLA60	60	1	2.4	3	without ventilation batten	PP	black	9005	200
1 BIRDRED100	100	1	3.9	3	without ventilation batten	PP	brick red	8004	300
1 BIRDBRO100	100	1	3.9	3	without ventilation batten	PP	brown	8019	300
1 BIRDBLA100	100	1	3.9	3	without ventilation batten	PP	black	9005	300
2 BIRDRED6025	85	1	3.4	3	with 25 mm ventilation batten	PP	brick red	8004	50
2 BIRDBRO6025	85	1	3.4	3	with 25 mm ventilation batten	PP	brown	8019	50
2 BIRDBLA6025	85	1	3.4	3	with 25 mm ventilation batten	PP	black	9005	50

Waste classification (2014/955/EU): 17 02 03.



#### VERSATILE

It can be used in combination with all types of tiles and ridge tiles, thanks to its ability to adapt to the different shapes of the roof elements.

#### MATERIAL

Made of high quality polypropylene, weather-proof, impact and UV resistant.



# BIRD COMB EVO

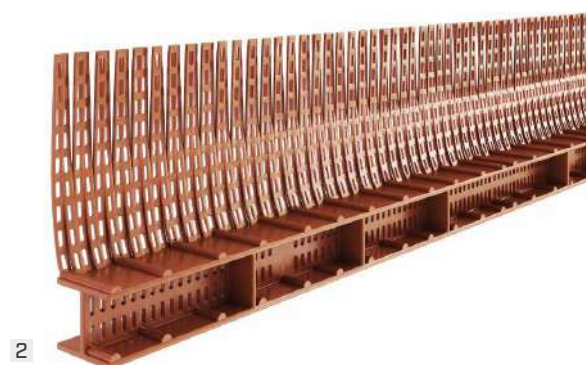
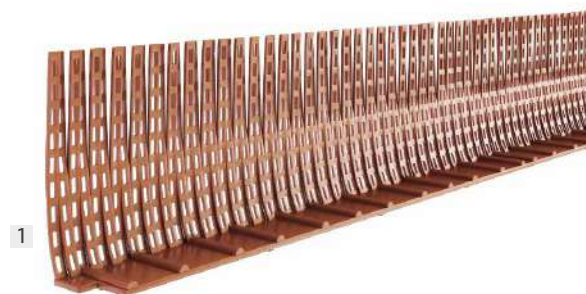
## TWIN ROW EAVES BIRD COMB

### MAXIMUM EFFICIENCY

Advanced eaves bird comb 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	H [mm]	L [m]	H [in]	L [ft]	version	material	colour	RAL	
<b>BIRDERED70</b>	70	1	2.8	3	without ventilation batten	PP	brick red	2001	100
<b>BIRDEBRO70</b>	70	1	2.8	3	without ventilation batten	PP	brown	8019	100
<b>BIRDERED110</b>	110	1	4.3	3	without ventilation batten	PP	brick red	2001	60
<b>BIRDEBRO110</b>	110	1	4.3	3	without ventilation batten	PP	brown	8019	60
<b>BIRDERED7025</b>	90	1	3.5	3	with 25 mm ventilation batten	PP	brick red	2001	35
<b>BIRDERED11025</b>	130	1	5.1	3	with 25 mm ventilation batten	PP	brick red	2001	25

Waste classification (2014/955/EU): 17 02 03.



### STABLE OVER TIME

The polymeric compound ensures good stability over time, guaranteeing the protective function of the ventilation.

### MATERIAL

Made of high quality polypropylene, weather-proof, impact and UV resistant.

# VENTILATION AND PROTECTION

## VENT SHAPE

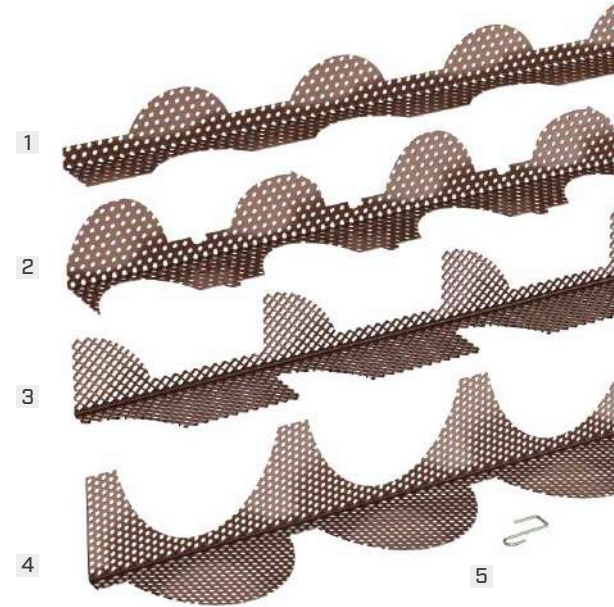
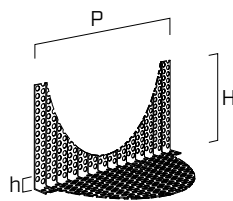
### VENTILATION GRID FOR ROOFS MADE OF TILES OF VARIOUS SHAPE

#### DURABILITY

Made of metal sheet, it is resistant and perfectly weatherproof.

#### FAST INSTALLATION

Pre-bending and shaping during production makes installation immediate, without the need for additional supports.



### CODES AND DIMENSIONS

CODE	H	h	P	L	H	h	P	L	version	material	colour	RAL	
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]					
1 VENTSBRO9015	90	15	195	975	3.5	0.6	7.7	38.4	for ridge tile	perforated metal sheet	brown	8017	10
2 VENTSBRO7519	75	19	200	1000	3.0	0.8	7.9	39.4	for Portuguese roof tiles	expanded metal sheet	brown	8017	10
3 VENTSBRO4520	45	20	300	900	1.8	0.8	11.8	35.4	for concrete French roof tiles	perforated metal sheet	brown	8017	10
4 VENTSBRO7020	70	20	300	900	2.8	0.8	11.8	35.4	for concrete Greek roof tile	perforated metal sheet	brown	8017	10

Other versions and dimensions are available on request.  
Waste classification (2014/955/EU): 17 04 05.

CODE	L	H	L	H	version	material	colour	
	[mm]	[mm]	[in]	[in]				
5 VENTSHOOK	50	20	2.0	0.8	for ridge tile	stainless steel strap	steel	100



#### UV STABILITY

The choice of metal material ensures excellent UV stability even in harsh climate zones.

#### SAFETY

They allow under-tile micro-ventilation, protecting the roof from the entry of leaves and animals.



## RECOMMENDATIONS FOR INSTALLATION




## RAIN TUBE

### TEMPORARY DOWNPIPE FOR CONSTRUCTION SITE PHASES

- It protects building façades during construction or renovation work
- Versatile, easy-to-use solution

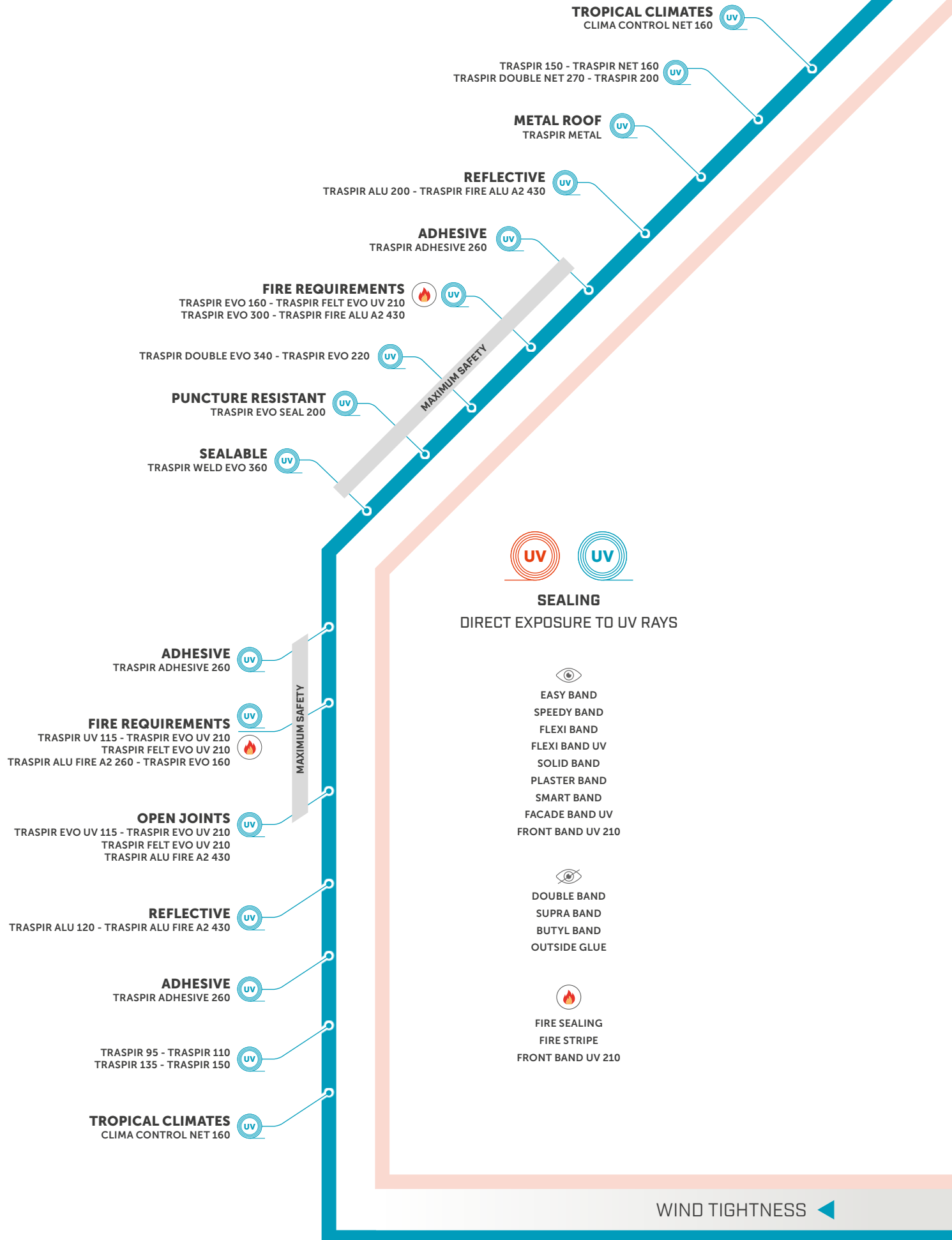


### CODES AND DIMENSIONS

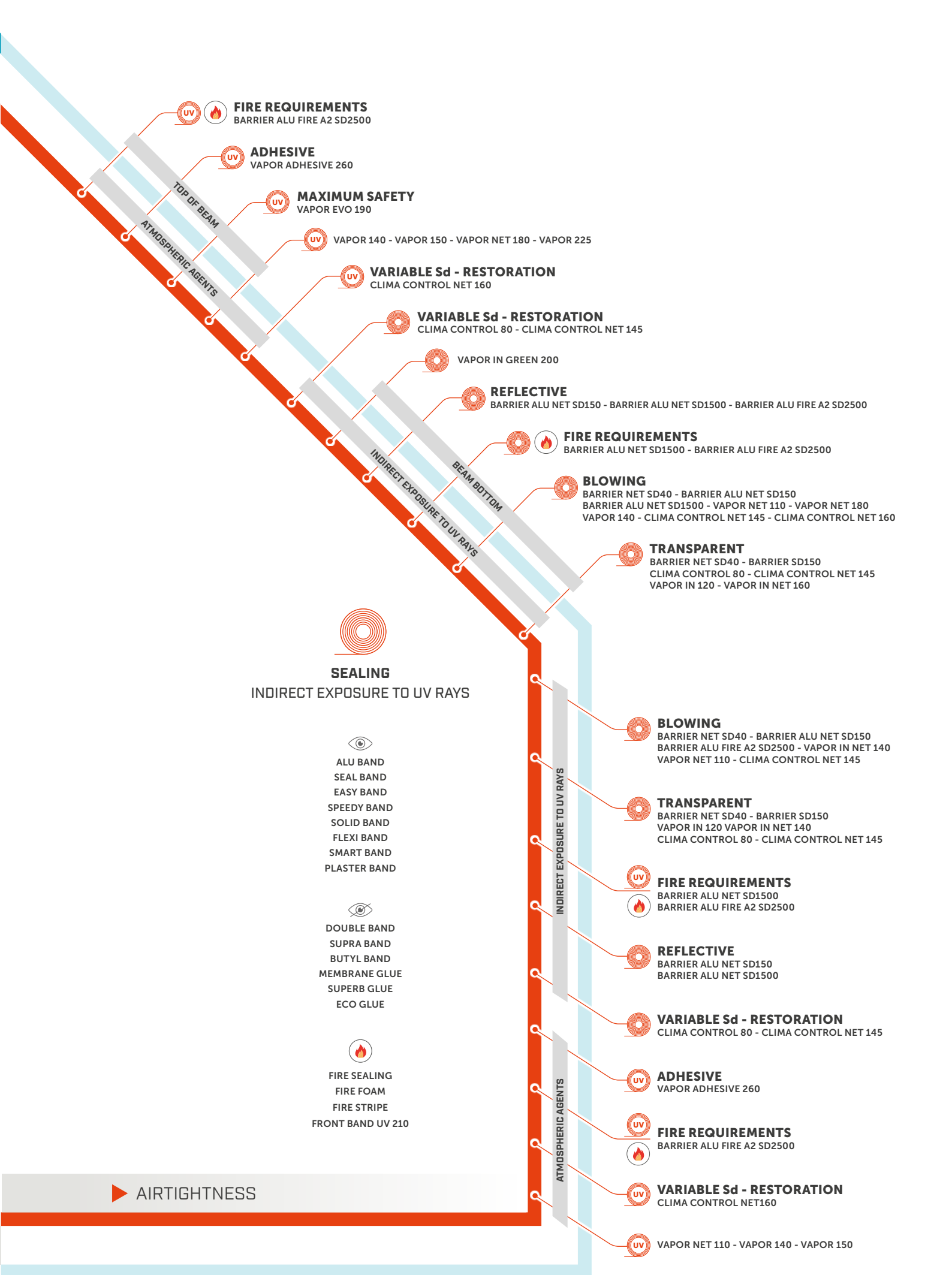
CODE	d [mm]	L [m]	d [in]	L [ft]	material	colour	
RTUBE200	200	200	7.9	656	PVC	transparent	1

Waste classification (2014/955/EU): 17 02 03.

# CHOICE OF PRODUCTS







**FIRE REQUIREMENTS**  
BARRIER ALU FIRE A2 SD2500

**ADHESIVE**  
VAPOR ADHESIVE 260

**MAXIMUM SAFETY**  
VAPOR EVO 190

VAPOR 140 - VAPOR 150 - VAPOR NET 180 - VAPOR 225

**VARIABLE Sd - RESTORATION**  
CLIMA CONTROL NET 160

**VARIABLE Sd - RESTORATION**  
CLIMA CONTROL 80 - CLIMA CONTROL NET 145

VAPOR IN GREEN 200

**REFLECTIVE**  
BARRIER ALU NET SD150 - BARRIER ALU NET SD1500 - BARRIER ALU FIRE A2 SD2500

**FIRE REQUIREMENTS**  
BARRIER ALU NET SD1500 - BARRIER ALU FIRE A2 SD2500

**BLOWING**  
BARRIER NET SD40 - BARRIER ALU NET SD150  
BARRIER ALU NET SD1500 - VAPOR NET 110 - VAPOR NET 180  
VAPOR 140 - CLIMA CONTROL NET 145 - CLIMA CONTROL NET 160

**TRANSPARENT**  
BARRIER NET SD40 - BARRIER SD150  
CLIMA CONTROL 80 - CLIMA CONTROL NET 145  
VAPOR IN 120 - VAPOR IN NET 160



**SEALING**  
INDIRECT EXPOSURE TO UV RAYS



- ALU BAND
- SEAL BAND
- EASY BAND
- SPEEDY BAND
- SOLID BAND
- FLEXI BAND
- SMART BAND
- PLASTER BAND



- DOUBLE BAND
- SUPRA BAND
- BUTYL BAND
- MEMBRANE GLUE
- SUPERB GLUE
- ECO GLUE



- FIRE SEALING
- FIRE FOAM
- FIRE STRIPE
- FRONT BAND UV 210

**BLOWING**  
BARRIER NET SD40 - BARRIER ALU NET SD150  
BARRIER ALU FIRE A2 SD2500 - VAPOR IN NET 140  
VAPOR NET 110 - CLIMA CONTROL NET 145

**TRANSPARENT**  
BARRIER NET SD40 - BARRIER SD150  
VAPOR IN 120 VAPOR IN NET 140  
CLIMA CONTROL 80 - CLIMA CONTROL NET 145

**FIRE REQUIREMENTS**  
BARRIER ALU NET SD1500  
BARRIER ALU FIRE A2 SD2500

**REFLECTIVE**  
BARRIER ALU NET SD150  
BARRIER ALU NET SD1500

**VARIABLE Sd - RESTORATION**  
CLIMA CONTROL 80 - CLIMA CONTROL NET 145

**ADHESIVE**  
VAPOR ADHESIVE 260

**FIRE REQUIREMENTS**  
BARRIER ALU FIRE A2 SD2500

**VARIABLE Sd - RESTORATION**  
CLIMA CONTROL NET160

VAPOR NET 110 - VAPOR 140 - VAPOR 150

**AIRTIGHTNESS**



# MEMBRANES

# BREATHABLE AND VAPOUR CONTROL SCREENS

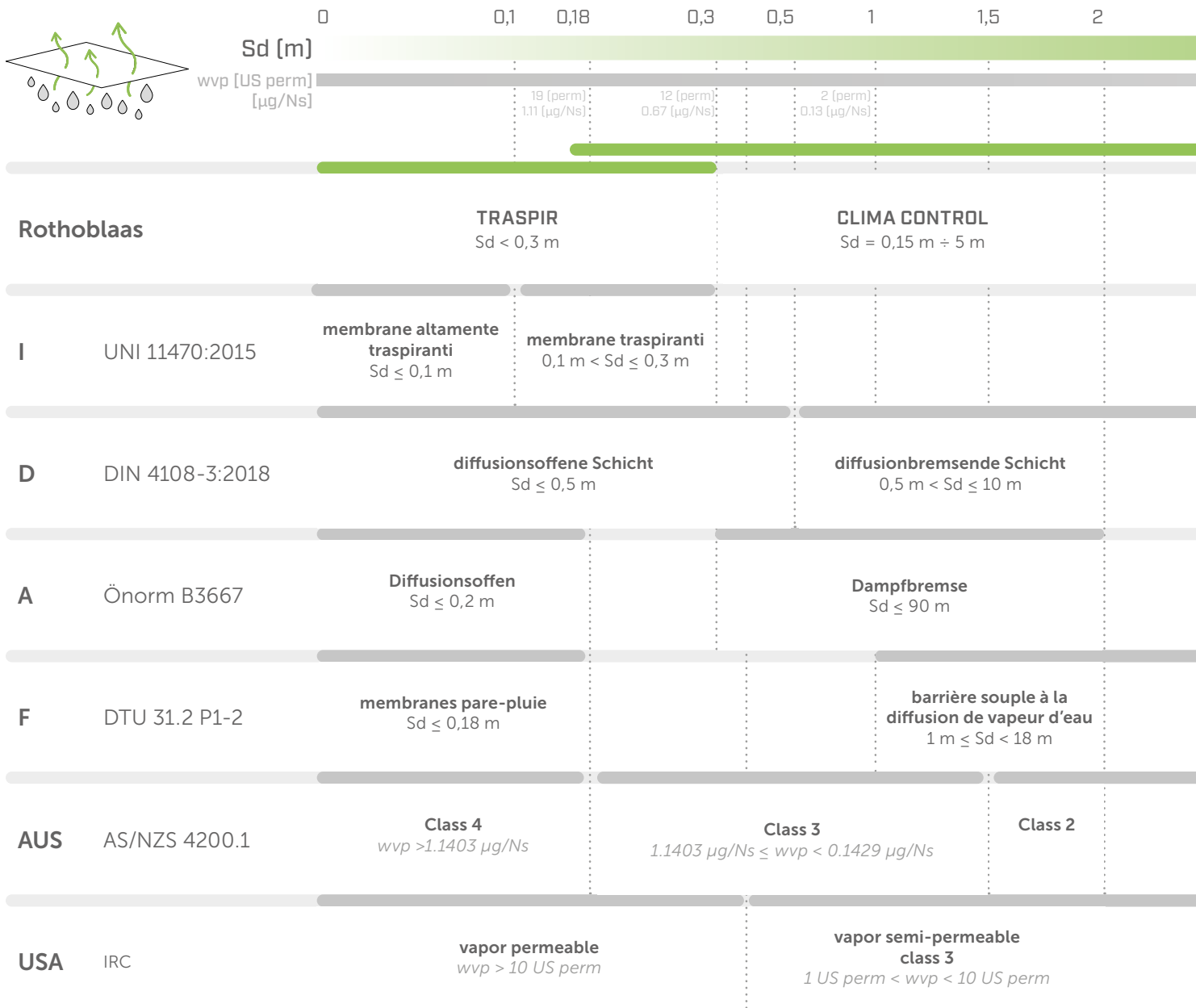
## RESISTANCE TO PENETRATION OF WATER VAPOUR

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 is a measure of the thickness of air that would offer the same resistance as the product or structure in question to the passage of vapour (by diffusion).

Another parameter describing the water vapour diffusion capacity of products is the **water vapour permeability** and can be expressed in US perm,  $\mu\text{g}/\text{Ns}$  and  $\text{g}/\text{m}^224\text{h}$ .

The membranes classification is not defined by a single standard but is determined by different national standards in different ways depending on their  $S_d$  value. For this reason, finding a single definition valid for all countries is not possible.



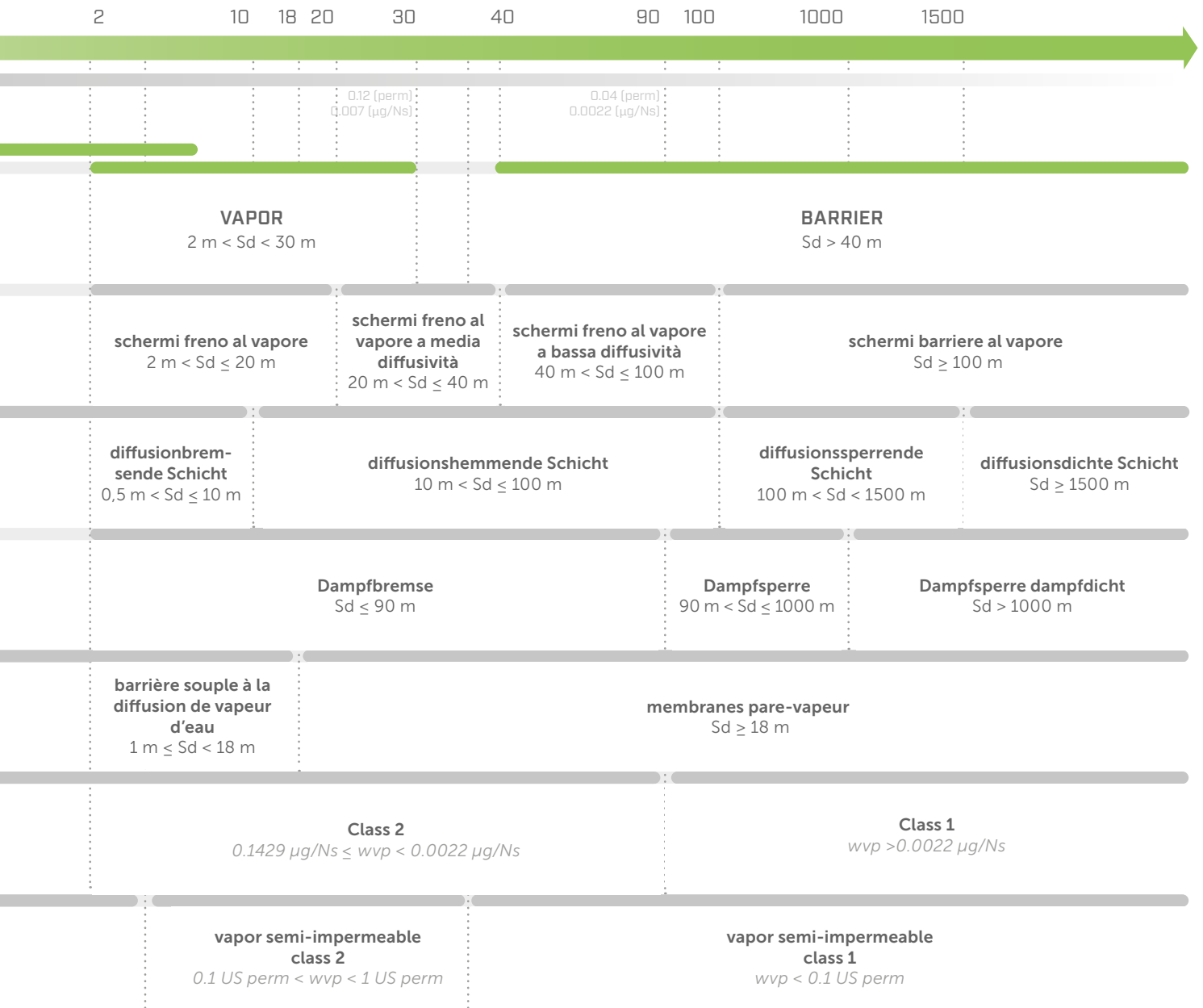


## BREATHABLE AND VAPOUR CONTROL MEMBRANES CLASSIFICATION

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

	AIRTIGHTNESS	WATERTIGHTNESS	RESISTANCE TO WATER VAPOUR
Vapour barriers	●●●	●●●	●●●
Vapour control membranes	●●●	●●●	●●○
Breathable membranes	●●●	●●●	○○○

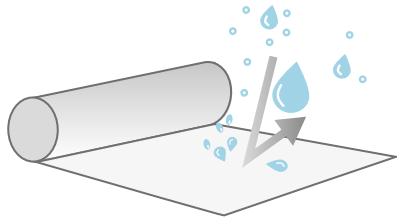
The properties described here, together with other parameters mentioned in the technical data sheets, are regulated by the CE marking protocol for vapour control membranes (EN 13984), underlays for discontinuous roofing (EN 13859-1) and wall underlays (EN 13859-2).



## MEMBRANE PERFORMANCE

The membranes undergo various tests to determine their performance. Based on these, it is possible to choose the most suitable solution for your project.

### WATERTIGHTNESS



Ability of the product to temporarily prevent the passage of water during construction and in case of accidental breakage and dislocation of the roof covering.

Passing this test is not sufficient to make the products suitable to replace the sealing layer and to withstand standing water for long periods.

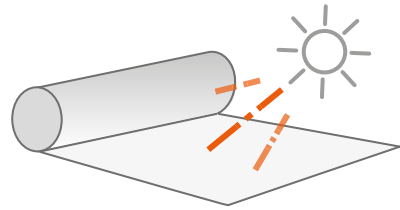
This property indicates resistance to penetration of water. Standard **EN 13859-1/2** establishes the following classification:

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

Standard **EN 13859-1** and **2** establishes a requirement of resistance to 200 mm of static water pressure for 2 hours (classification W1).

**NOTE:** for vapour control membranes and control layers, the word "conforming" is only used when the product meets the most severe requirements of the test indicated above (200 mm static water pressure for 2 hours).

### UV STABILITY AND AGEING



Is the value relative to annual median radiation in the Central Europe zone, formulated based on EN 13859-1/2 (55 MJ/m<sup>2</sup>).

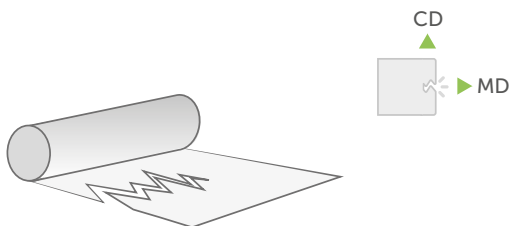
The test method consists of exposing the specimen to continuous UV irradiation at elevated temperature for 336 hours. This corresponds to a total UV radiation exposure of 55 MJ/m<sup>2</sup>.

For walls that do not exclude UV exposure with open joints, artificial ageing by UV must be extended over a period of 5000 hours.

Resistance to water penetration, tensile strength and elongation must be determined after artificial ageing.

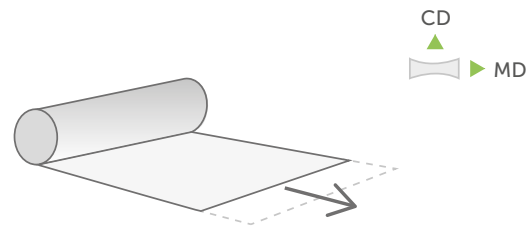
**Note:** actual climatic conditions are variable and depend on the application context, so it is difficult to establish an exact match between artificial ageing tests and actual conditions.

### TENSILE STRENGTH



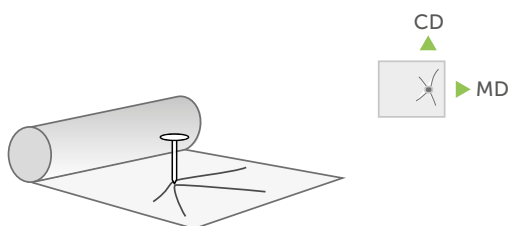
Force exercised both longitudinally and transversally, to determine the maximum load, expressed as N/50 mm.

### ELONGATION



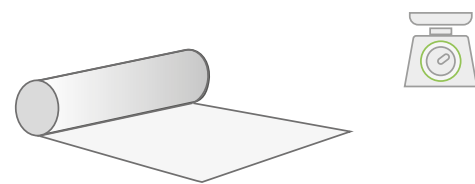
Indicates the maximum elongation percentage the product can suffer before failure.

### RESISTANCE TO NAIL TEARING



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

### MASS PER UNIT AREA



Mass per unit area expressed in g/m<sup>2</sup>. High mass per unit area ensure great mechanical performance and superior abrasion resistance.

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

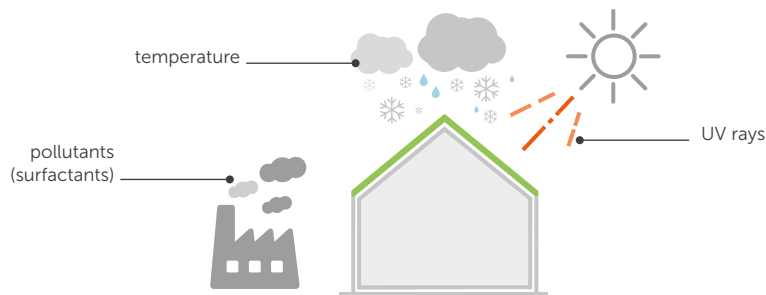
## DURABILITY



The polymers from which the synthetic membranes are made have been specially engineered to perform their function in the product and have excellent properties.

Certain stress causes, such as UV radiation, high temperatures and pollutants, affect these properties.

For example: the mechanical properties of a new membrane and a membrane exposed to ultraviolet (UV) radiation for 6 months are different. This is because UV attacks the chemical structure of certain polymers which, if not adequately protected by UV stabilisers, affect the properties of the finished product.



In order to maintain the properties of the product, it is important to choose it taking into account the conditions it will be exposed to throughout its life, from construction to operation, and to protect it as much as possible (the construction phase is a source of stress and accelerated ageing).

Durability is affected by the sum of these sources of stress: temperature, UV and pollutants.

## CORRELATION BETWEEN EXPERIMENTAL AND ACTUAL RESULTS

The data obtained from the ageing tests are comparative and not absolute data. The relationship between test exposure and outdoor exposure depends on a number of variables, and no matter how sophisticated the accelerated ageing test may be, it is not possible to find a conversion factor: in accelerated ageing tests the test conditions are constant, whereas during real outdoor exposure they are variable. The most that can be expected from accelerated laboratory ageing data is a reliable indication of the relative strength ranking of a material compared to other materials.

In the reality of a construction site, a product tends to be subject to more than one cause of stress and the conditions are unpredictable. Each application context has specific conditions, with effects that are difficult to measure with a standard test.

Therefore, it is important to maintain large safety margins, for example by choosing products with better properties even where not specifically required.

Given highly variable weather and radiation conditions, the value may change based on the country and weather conditions at the time of application.



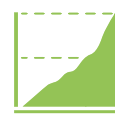
SEASONAL VARIATIONS



PRODUCT ORIENTATION



LATITUDE


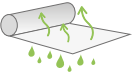
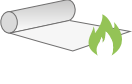






ALTITUDE



YEARLY RANDOM VARIATIONS IN TIME

# MEMBRANES PROPERTIES

		BARRIER					CLIMA CONTROL & VAPOR												
		BARRIER NET SD40	BARRIER SD150	BARRIER ALU NET SD150	BARRIER ALU NET SD1500	BARRIER ALU FIRE A2 SD2500	VAPOR IN 120	VAPOR IN NET 140	VAPOR IN GREEN 200	CLIMA CONTROL 80	CLIMA CONTROL NET 145	CLIMA CONTROL NET 160	VAPOR NET 110	VAPOR 140	VAPOR 150	VAPOR NET 180	VAPOR EVO 190	VAPOR 225	VAPOR ADHESIVE 260
<b>Monolithic/Evo</b>										✓	✓	✓					✓		
<b>Microporous/Standard</b>		✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓
<b>Bituminous</b>																			
Reinforcing grid		✓		✓	✓			✓	✓		✓	✓	✓			✓			
Variable Sd										✓	✓	✓							
Reflective				✓	✓	✓													
Self-adhesive																			✓
Permanent UV stability (see product data sheet)																			
 Mass per unit area [EN 1849]	g/m <sup>2</sup>	110	190	100	200	140	120	140	200	80	145	160	110	140	150	180	190	225	260
	oz/ft <sup>2</sup>	0.36	0.62	0.33	0.66	0.46	0.39	0.46	0.66	0.26	0.48	0.52	0.36	0.46	0.49	0.59	0.62	0.74	0.85
 Water vapour transmission (Sd) [EN 1931]	m	40	145	150	4000	2500	30	30	7	0,15 5	0,15 5	0,5 5	5	10	13	10	5	4	19
	US perm	0.087	0.024	0.023	0.001	0.001	0.140	0.140	0.500	23 0.7	23 0.7	7 0.7	0.70	0.350	0.269	0.350	0.70	0.874	0.184
 Reaction to fire [EN 13501-1]	steel	F	E	E	B-s1,d0	A2-s1,d0	E	E	E	E	E	E	E	F	E	E	E	E	E
 Maximum tensile force MD/CD [EN 12311]	N/50mm	220 190	206 180	230 230	465 495	1362 1349	220 180	390 360	250 170	120 90	440 400	400 270	200 250	230 180	250 200	320 300	480 500	380 300	250 200
	lb/in	25 22	24 21	26 26	53 57	156 154	25 21	45 41	29 19	14 10	50 46	46 31	23 29	26 21	29 23	37 34	55 57	43 34	29 23
 Elongation MD/CD [EN 12311]	%	15 15	480 540	15 10	26 19	2,8 3,8	47 68	18 16	5 5	50 50	15 15	20 20	25 25	35 40	35 40	10 10	65 65	60 80	35 40
 Resistance to nail tearing MD/CD [EN 12310]	N	155 145	147 165	110 110	400 400	150 150	160 205	280 260	100 130	40 40	300 250	240 250	170 170	125 145	130 150	250 290	265 320	225 300	130 150
	lbf	34.8 32.6	33 37.1	24.7 24.7	89.9 89.9	33.7 33.7	36 46.1	62.9 58.5	22.5 29.2	9 9	67.4 56.2	54 56.2	38.2 38.2	28.1 32.6	29.2 33.7	56.2 65.2	59.6 71.9	50.6 67.4	29.2 33.7
	internal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	external					✓						✓	✓	✓	✓	✓	✓	✓	✓
	roof	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	wall	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Waste classification (2014/955/EU)		1702 03	1702 03	1702 03	1709 04	1709 04	1702 03	1702 03	1709 04	1702 03	1702 03	1702 03	1702 03	1702 03	1702 03	1702 03	1702 03	1702 03	1702 03



TRASPIR																			BYTUM									
TRASPIR 95	TRASPIR 110	TRASPIR EVO UV 115	TRASPIR ALU 120	TRASPIR 135	TRASPIR 150	TRASPIR NET 160	TRASPIR EVO 160	TRASPIR 200	TRASPIR ALU 200	TRASPIR EVO SEAL 200	TRASPIR FELT UV 210	TRASPIR EVO UV 210	TRASPIR EVO 220	TRASPIR ADHESIVE 260	TRASPIR DOUBLE NET 270	TRASPIR EVO 300	TRASPIR DOUBLE EVO 340	TRASPIR WELD EVO 360	TRASPIR ALU FIRE A2 430	TRASPIR METAL	BYTUM 400	BYTUM 750	BYTUM 1100	BYTUM 1500	BYTUM 2000	BYTUM BASE 2500	BYTUM SLATE 3500	
		✓					✓				✓	✓	✓			✓	✓	✓										
✓	✓		✓	✓	✓	✓		✓	✓					✓	✓				✓	✓								
																					✓	✓	✓	✓	✓	✓	✓	✓
						✓			✓						✓			✓										
			✓						✓										✓								✓	✓
		✓									✓	✓				✓			✓									✓
95	112	115	120	135	150	160	160	200	200	200	210	210	220	260	270	300	340	360	430	610	400	750	1100	1500	2000	2550	3500	
0.31	0.37	0.38	0.39	0.44	0.49	0.52	0.52	0.66	0.66	0.66	0.69	0.69	0.72	0.85	0.88	0.98	1.11	1.18	1.41	1.67	1.31	2.46	3.60	4.92	6.55	8.36	11.47	
0.02	0.03	0.08	0.1	0.02	0.02	0.02	0.1	0.02	0.045	0.08	0.1	0.04	0.2	0.22	0.035	0.04	0.19	0.2	0.08	0.02	22	38	55	120	120	200	280	
175	117	44	35	175	175	175	35	175	78	44	35	87	17	16	100	87	18	17	44	175	0	0.092	0.064	0.029	0.029	0.017	0.012	
E	E	B-s1,d0	E	E	E	E	B-s1,d2	E	E	E	B-s1,d2	B-s1,d0	E	E	B-s1,d0	E	E	E	A2-s1,d0	E	E	E	E	E	E	E	E	
210	250	150	239	280	350	420	280	360	350	300	380	300	385	315	650	380	605	420	3000	325	500	500	650	600	600	400	400	
120	165	110	204	190	210	420	220	270	225	220	420	200	315	250	800	250	455	490	3200	225	400	400	500	400	400	300	300	
24	29	17	27	32	40	48	32	41	40	34	43	34	44	36	74	43	69	48	343	37	57	57	74	69	69	46	46	
14	19	13	23	22	24	48	25	31	26	25	48	23	36	29	91	29	52	56	365	26	46	46	57	46	46	34	34	
50	50	90	94	70	100	25	50	45	30	50	40	25	65	61	40	25	65	50	6	45	45	45	40	40	35	35		
90	70	90	126	110	125	20	60	85	70	70	55	25	80	66	60	25	80	65	5	70	50	50	50	40	40	35	35	
90	115	130	187	135	190	390	180	230	200	260	220	120	345	255	750	160	415	310	580	185	200	200	230	220	220	120	120	
100	135	170	232	170	225	360	200	270	200	340	210	120	425	260	550	190	500	280	450	195	200	200	230	230	230	120	120	
20.2	25.9	29.2	42	30.3	42.7	88	40.5	51.7	45	58.5	49.5	27	77.6	57.3	168.6	36	93.3	69.7	130.4	41.6	45	45	51.7	49.5	49.5	27	27	
22.5	30.3	38.2	52.2	38.2	50.6	81	45	60.7	45	76.4	47.2	27	95.5	58.5	123.6	42.7	112.4	62.9	101.2	43.8	45	45	51.7	51.7	51.7	27	27	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓			✓		✓	✓								
170205	170205	170205	170904	170205	170205	170205	170205	170205	170205	170205	170904	170205	170205	170205	170205	170205	170205	170205	170904	170205	170302	170302	170302	170302	170302	170302	170302	170302

# CERTIFICATIONS AND COMPLIANCE

## CERTIFICATIONS



### PASSIVE HOUSE

The Passive House Institute, an independent research organisation that has set an internationally recognised standard for energy efficiency in construction, submits tapes and membranes to extremely rigorous tests to prove their effectiveness in terms of performance. Tests are carried out under boundary conditions that reflect reality as closely as possible in order to ensure that the product retains its functionality once installed. In the case of membranes, in particular, overlaps with other adjacent materials are observed.

**CLIMA CONTROL 80, FLEXI BAND, SPEEDY BAND, SEAL BAND**



### SINTEF

The Norwegian SINTEF certification is awarded to waterproofing solutions that successfully pass certain installation and ageing tests: effectiveness, durability and sustainability of the materials are just some of the areas of investigation explored by this independent certification body.

**TRASPIR 110, FLEXI BAND**



### CSTB

The French CSTB (Centre Scientifique et Technique du Bâtiment) issues certificates of conformity known as "Avis Technique", which declare that the requirements imposed by French market regulations for building materials are met. With regard to "Écrans de Sous-Toiture", i.e. waterproofing underlays for roofs, the parameters considered are resistance to the passage of water (E), permeability to water vapour (S) and mechanical resistance of the membrane (T).

**TRASPIR 110, TRASPIR 150, TRASPIR NET 160**



### BBA

BBA (British Board of Agrément) is the independent body that certifies that products and systems conform to British standards after subjecting candidate products to rigorous testing. Specifically, our membranes have been evaluated taking into account various parameters: weather tightness, risk of condensation, resistance to wind loads, strength of the membrane itself and its durability.

**TRASPIR 95, TRASPIR 135, TRASPIR 150**

## NATIONAL TECHNICAL STANDARDS

### I

UNI 11470 "Coperture discontinue - Schermi e membrane traspiranti sintetiche  
Definizione, campo di applicazione e posa in opera"  
Classificazione in funzione della massa areica: classe A, B, C, D  
Classificazione in funzione della resistenza meccanica: classe R1, R2, R3

UNI 11564 "Coperture discontinue - Teli impermeabilizzanti sottotegola bituminosi  
Definizione, campo di applicazione e posa in opera"  
Tipologia di armatura: simbolo C, V, P, R  
Resistenza a trazione: classe SR0, SR1, SR2, SR3 oppure MR0, MR1, MR2  
Flessibilità a freddo: classe A, B, C, D

### A

Önorm B 3667 "Abdichtungsbahnen - Kunststoff-Dampfsperrbahnen - Nationale Umsetzung der ÖNORM EN 13984"  
DB: Dampfbremse, DS: Dampfsperre, DS dd: Dampfsperre dampfdicht

Önorm B 3661 "Abdichtungsbahnen - Unterdeck- und Unterspannbahnen für Dachdeckungen - Nationale Umsetzung der ÖNORM EN 13859-1"  
Unterdeckbahnen: UD Typ I, UD Typ II,  
Unterspannbahnen: US  
Elastomerbitumenbahnen als Unterdeck- und Unterspannbahnen: E-do nsk

### F

DTU 31.2 "Construction de Maisons et Batiments a Ossature en Bois"  
pare-vapeur, Barriere souple a la diffusion de vapeur d'eau (Bs dve), pare pluie  
Écrans souples sous-toiture: caractérise la résistance au passage de l'eau (E1, E2), caractérise la perméance à la vapeur d'eau (Sd1, Sd2, Sd3), caractérise la résistance mécanique (TR1, TR2, TR3)  
Ecrans souples pare-pluie: Entraxe du support (Esc, E450, E600), Jeu entre panneaux de revêtement extérieur (J0, Jf), Durée d'exposition en phase chantier (C1, C2, C3)

### D

ZVDH "Deutsches Dachdeckerhandwerk Regelwerk"  
Dd: Diffusionsdichte Schicht, Ds: Diffusionssperrende Schicht, Dh: Disffusionshemmende Schicht, Db: diffusionsbremsende Schicht, Fv: Feuchtevariabel  
Unterspannbahnen USB: Klasse A, B  
Unterdeckbahnen UDB: Klasse A, B, C

### AUS

AS/NZS 4200.1 "Pliable building membranes and underlays"  
Classification of vapor permeance:  
Vapour Barrier: Class 1 and Class 2  
Vapour Permeable: Class 3 and Class 4

### CH

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

### USA

IRC Water Vapor Retarder Classification  
class 1: vapor impermeable  
class 2: vapor semi-impermeable  
class 3: vapor semi-permeable  
vp: vapor permeable

		A Önorm B4119 Önorm B 3867	CH SIA 232	D ZVDH	F DTU 31.2	I UNI 11470	AUS AS/NZS 4200.1	USA IRC
BARRIER	BARRIER NET SD40	DB	V.v.u.	Dh	pare-vapeur	D/R2	Class 2	Class 1
	BARRIER SD150	DS	V.v.u.	Ds	pare-vapeur	B/R2	Class 1	Class 1
	BARRIER ALU NET SD150	DS	V.v.u.	Ds	pare-vapeur	D/R1	Class 1	Class 1
	BARRIER ALU NET SD1500	DS dd	V.v.u.	Dd	pare-vapeur	A/R3	Class 1	Class 1
	BARRIER ALU FIRE A2 SD2500	DS dd	V.v.u. V.v.o. H > 90mm	Dd	pare-vapeur E1 Sd3 TR3	B/R3	Class 1	Class 1
VAPOR & CLIMA CONTROL	VAPOR IN 120	DB	V.v.u.	Dh	pare-vapeur	D/R1	Class 2	Class 2
	VAPOR IN NET 140	DB	V.v.u.	Dh	pare-vapeur	C/R2	Class 2	Class 2
	VAPOR IN GREEN 200	DB	V.v.u.	Db	Bs dve	A/R1	Class 2	Class 2
	CLIMA CONTROL 80	-	V.v.u.	Fv   DIN 4108-3 DIN 68800-2	Bs dve	D/R1	Class 2 Class 3	Class 2 vp
	CLIMA CONTROL NET 145	-	V.v.u.	Fv   DIN 4108-3 DIN 68800-2	Bs dve	B/R3	Class 2 Class 3	Class 2 vp
	CLIMA CONTROL NET 160	-	V.v.u. V.v.o. H > 90mm	Fv   DIN 4108-3 DIN 68800-2	Bs dve E1 Sd2 TR2	B/R3	Class 2 Class 3	Class 2 Class 3
	VAPOR NET 110	DB	V.v.u. V.v.o. H > 90mm	Db	Bs dve E1 Sd2 TR1	D/R1	Class 2	Class 2
	VAPOR 140	DB	V.v.u. V.v.o. H > 90mm	Db	Bs dve E1 Sd2 TR1	C/R1	Class 2	Class 2
	VAPOR 150	DB	V.v.u. V.v.o. H > 90mm	Dh	Bs dve E1 Sd2 TR1	B/R1	Class 2	Class 2
	VAPOR NET 180	DB	V.v.u. V.v.o. H > 90mm	Db	Bs dve E1 Sd2 TR3	B/R3	Class 2	Class 2
	VAPOR EVO 190	DB	V.v.u. V.v.o. H > 90mm	Db	Bs dve E1 Sd2 TR3	B/R3	Class 2	Class 2
	VAPOR 225	DB	V.v.u. V.v.o. H > 90mm	Db	Bs dve E1 Sd2 TR3	A/R3	Class 2	Class 2
	VAPOR ADHESIVE 260	DB	V.v.u. V.v.o. H > 90mm	Dh	pare-vapeur E1 Sd3 TR1	A/R1	Class 2	Class 2
TRASPIR	TRASPIR 95	-	-	-	-	-	Class 4	vp
	TRASPIR 110	-	UD (fU)	USB-A UDB-B	E1 Sd1 TR1 E450 Jf C2	D/R1	Class 4	vp
	TRASPIR EVO UV 115	-	-	-	E450 JO C3	-	Class 4	vp
	TRASPIR ALU 120	-	-	-	E450 Jf C1	-	Class 4	vp
	TRASPIR 135	-	UD (fU)	USB-A UDB-B	E1 Sd1 TR1 E450 Jf C1	C/R1	Class 4	vp
	TRASPIR 150	UD Typ I	UD (wU)	USB-A UDB-A	E1 Sd1 TR2 E600 Jf C1	B/R2	Class 4	vp
	TRASPIR NET 160	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR3	B/R3	Class 4	vp
	TRASPIR EVO 160	UD Typ I	UD (wU)	USB-A UDB-A	E1 Sd1 TR1 E600 Jf C2	B/R2	Class 4	vp
	TRASPIR 200	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR2	A/R2	Class 4	vp
	TRASPIR ALU 200	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR2	A/R2	Class 4	vp
	TRASPIR EVO SEAL 200	UD Typ I	UD (g)	USB-A UDB-A	E1 Sd1 TR2 E600 Jf C2	A/R3	Class 4	vp
	TRASPIR FELT UV 210	UD Typ I	UD (g)	USB-A UDB-A	E1 Sd1 TR2 E600 JO C3	A/R2	Class 4	vp
	TRASPIR EVO UV 210	-	-	-	E600 JO C3	-	Class 4	vp
	TRASPIR EVO 220	UD Typ II US	UD (g)	USB-A UDB-A	E1 Sd1 TR2 E600 Jf C2	A/R3	Class 3	vp
	TRASPIR ADHESIVE 260	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR2 E600 Jf C1	A/R3	Class 3	vp
	TRASPIR DOUBLE NET 270	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR3	A/R3	Class 4	vp
	TRASPIR EVO 300	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR1 E600 JO C3	A/R2	Class 4	vp
	TRASPIR DOUBLE EVO 340	UD Typ II US	UD (g)	USB-A UDB-A	E1 Sd1 TR3 E600 Jf C2	A/R3	Class 3	vp
	TRASPIR WELD EVO 360	UD Typ II US	UD (g)	USB-A UDB-A	E1 Sd1 TR3	A/R3	Class 3	vp
	TRASPIR ALU FIRE A2 430	UD Typ I US	UD (g)	USB-A UDB-A	E1 Sd1 TR3 E600 JO C3	A/R3	Class 4	vp
TRASPIR METAL	UD Typ I	UD (g)	USB-A UDB-A	E1 Sd1 TR2 E600 Jf C1	A/R2	Class 4	vp	
BYTUM	BYTUM 400	E-d0 nsk	V.v.o. H > 90mm UD (g)	USB-A UDB-A	E1 Sd3 TR2	P SR2 A	Class 2	Class 2
	BYTUM 750	E-d0 nsk	V.v.o. H > 90mm UD (g)	USB-A UDB-A	E1 Sd3 TR2	P SR2 A	Class 2	Class 1
	BYTUM 1100	E-d0 nsk	V.v.o. H > 90mm UD (g)	USB-A UDB-A	E1 Sd3 TR2	P SR3 A	Class 2	Class 1
	BYTUM 1500	E-d0 nsk	V.v.o. H > 90mm UD (g)	USB-A UDB-A	E1 Sd3 TR2	P SR3 A	Class 1	Class 1
	BYTUM 2000	E-d0 nsk	V.v.o. H > 90mm UD (g)	USB-A UDB-A	E1 Sd3 TR2	P SR3 A	Class 1	Class 1
	BYTUM BASE 2500	E-d0 nsk	V.v.o. UD (fU)	USB-B UDB-C	E1 Sd3 TR1	P SR1 A	Class 1	Class 1
	BYTUM SLATE 3500	E-d0 nsk	V.v.o. UD (fU)	USB-B UDB-C	E1 Sd3 TR1	P SR1 A	Class 1	Class 1

# BARRIERS AND STOPS



# BARRIERS AND STOPS

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# BARRIER NET SD40

VAPOUR BARRIER Sd 40 m

110 g/m<sup>2</sup>



## TRANSPARENT

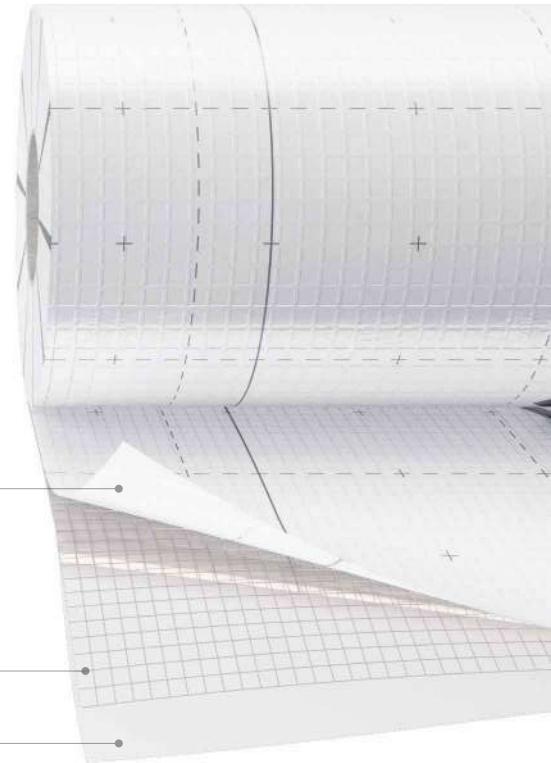
It ensures simple, fast and safe installation.

## REINFORCING GRID

Thanks to its composition, it is not affected by mechanical stress or by staples and nails.

## BLOWING

The reinforcement grid offers great resistance to the membrane, even in the event of pressure caused by the insulating material being blown.



## COMPOSITION

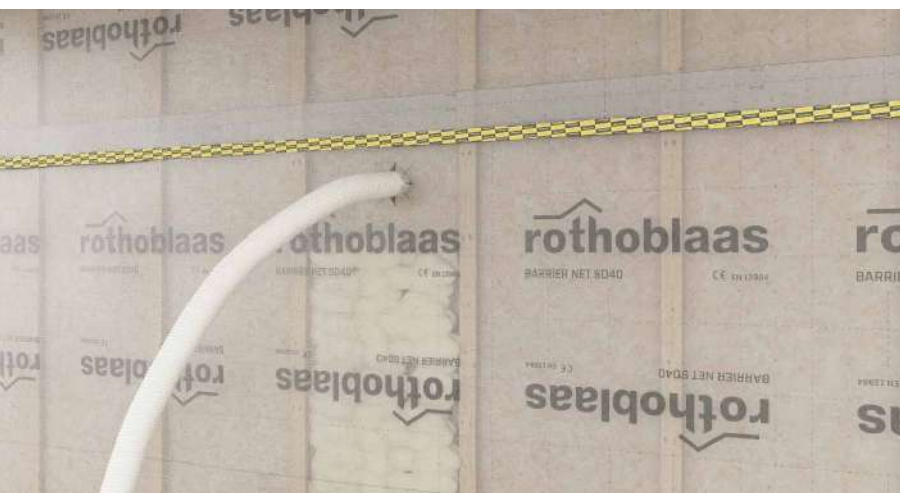
top layer  
PE functional film

middle layer  
PE reinforcing grid

bottom layer  
PE functional film

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BAR40	BARRIER NET SD40	110	-	1,5	50	75	5	164	807	80



## SAFE INSTALLATION

During installation of the insulation layer by means of blowing, mechanical stresses are created which the reinforcement grid can compensate for.

## POLYETHYLENE

Specific material with the function of strongly limiting the passage of vapour from the hot part to the cold part of structures, limiting the condensation problems.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	110 g/m <sup>2</sup>	0.36 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,22 mm	9 mil
Water vapour transmission (Sd)	EN 1931	40 m	0.087 US perm
Maximum tensile force MD/CD	EN 12311-2	> 220 / 190 N/50mm	> 25 / 22 lb/in
Elongation MD/CD	EN 12311-2	15 / 15 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 155 / 145 N	> 35 / 33 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 500 kg/m <sup>3</sup>	approx. 0.29 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 182000	approx. 200 MNs/g
VOC content	-	0 %	-

## RELATED PRODUCTS



SEAL BAND  
page 64



SPEEDY BAND  
page 70



HAND STAPLER  
page 331



### MECHANICAL STRENGTH

The reinforcement grid provides high mechanical resistance to the product, preventing major breakage in case of puncture.

# BARRIER SD150

VAPOUR BARRIER Sd > 145 m

190 g/m<sup>2</sup>



## EXTRALARGE

Also available in a 3,2 m version. Also ideal for waterproofing floors.

## EASY INSTALLATION

Thanks to its transparency, the membrane is immediately installed on the substructure.

## PRE-BENT


The 3.2 m version is rolled up pre-bent during production to optimise storage and save space.

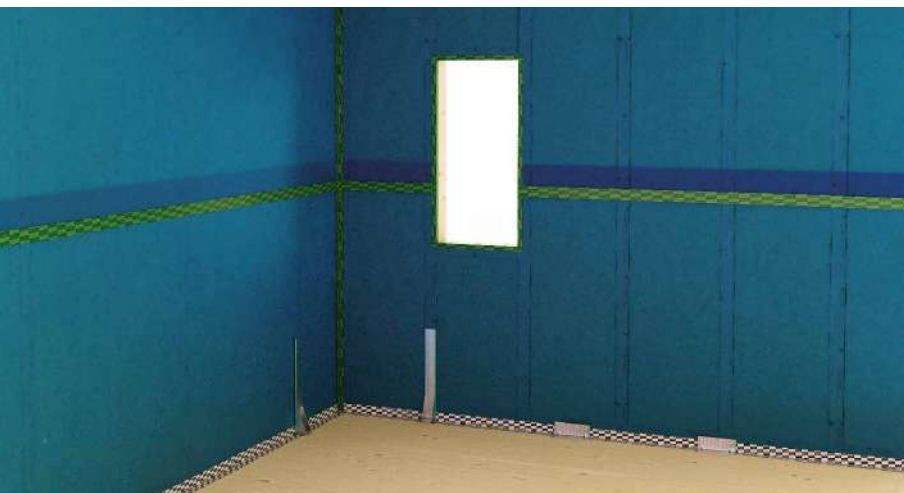


## COMPOSITION

single layer  
PE functional film

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	tape	roll [m]	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BAR150	BARRIER SD150	190	-	1,5 x 25	1,5	25	37,5	5	82	404	52
BAR15032	BARRIER SD150 3,2 m	190	-	1 x 25	3,2	25	80	11	82	861	52



## TRANSPARENT

The transparency of the product makes it easy to identify the strut when it is installed directly on the framed structure.

## VERSATILITY

The extruded polyethyl product offers several possible applications, from temporary protection on the construction site to vapour control within the layers.



## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	190 g/m <sup>2</sup>	0.62 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,2 mm	8 mil
Water vapour transmission (Sd) <sup>(1)</sup>	EN 1931	> 145 m	0.024 US perm
Maximum tensile force MD/CD	EN 12311-2	> 206 / 180 N/50mm	> 24 / 21 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	480 / 540 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 147 / 165 N	> 33 / 37 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,03 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.002 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	conforming	-
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 940 kg/m <sup>3</sup>	approx. 0.54 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 725000	approx. 725 MNs/g
VOC content	-	0 %	-

<sup>(1)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

## RELATED PRODUCTS



**SEAL BAND**  
page 64



**EASY BAND**  
page 68



**HAMMER STAPLER 22**  
page 330



### PREFABRICATION

Thanks to the 3,2 m width, it is possible to join the barrier between the different walls without additional sealing or membrane cut-offs.

# BARRIER NET ADHESIVE 200

## SELF-ADHESIVE VAPOUR BARRIER SCREEN WITH REINFORCEMENT GRID

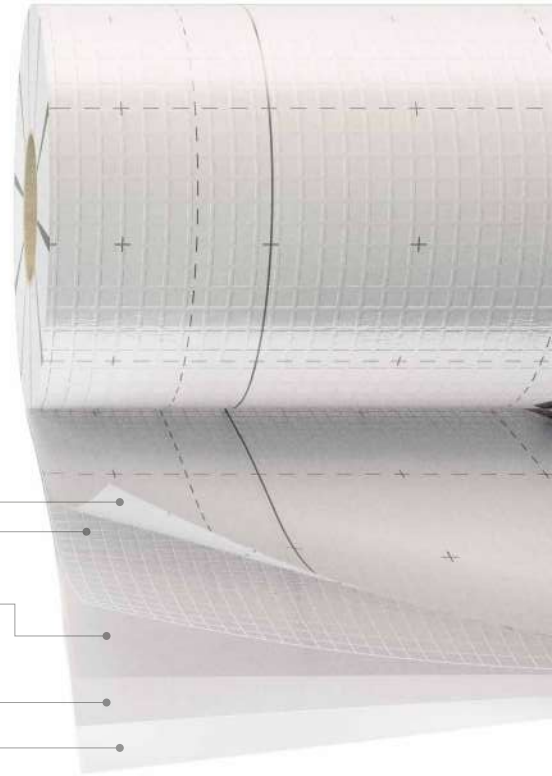


### TRANSPARENT AND SAFE

Quick to install, it can also be used as protection during construction.

### RESISTANT AND NON-SLIP

The reinforcement grid provides high mechanical resistance and reduces the risk of slipping.



## COMPOSITION

top layer  
PE functional film

middle layer  
PE reinforcing grid

bottom layer  
PE functional film

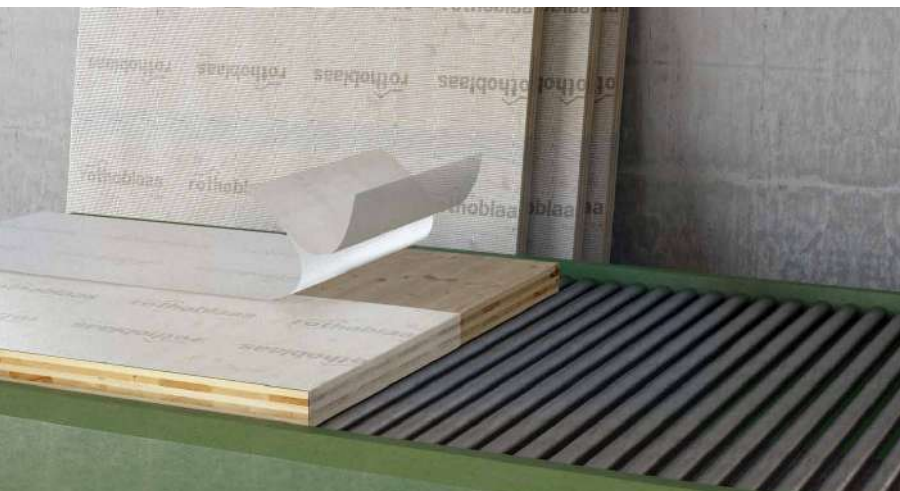
glue  
acrylate dispersion without solvents

release liner  
precut removable plastic film

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	liner [mm]	H	L	A	H	L	A
				[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]
<b>BARA200</b>	BARRIER NET ADHESIVE 200	200	-	1,45	50	72,5	4,8	164	780
<b>BARAS200</b>	BARRIER NET ADHESIVE 200 STRIPE	200	-	0,36	50	18,0	1.18	164	194

Available in different configurations on request. It is possible to customise the mass per unit area of the membrane, the amount of acrylic glue, the size and the pre-cut of the liner. Download the full data sheet at [www.rothoblaas.com](http://www.rothoblaas.com).



### FAST INSTALLATION

The fully self-adhesive surface of the membrane allows fast and safe installation without compromising performance.

### CONSTRUCTION SITE

During construction, it is essential to protect the structure, especially if the architectural design foresees that the wood remains visible in the finished building.

# SIMPLIFY YOUR INSTALLATION WITH OUR SELF-ADHESIVE MEMBRANES



Our range of self-adhesive membranes is constantly expanding. Our BARRIER, BARRIER ALU, VAPOR IN, CLIMA CONTROL, VAPOR, TRASPIR and BYTUM membranes can take on added value in the self-adhesive version: thanks to the glue, they are quick to apply and can be used both as protection during construction and as a functional layer within the layers.

Scan the QR code or visit our website to see what's new!



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

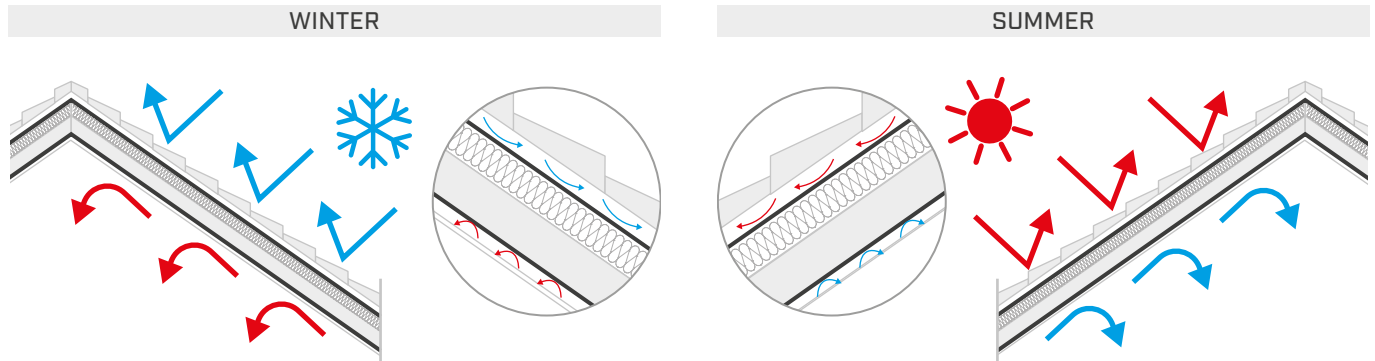


**rothoblaas**

Solutions for Building Technology

# REFLECTIVE MEMBRANES

Reflective membranes offer a benefit in both winter and summer.



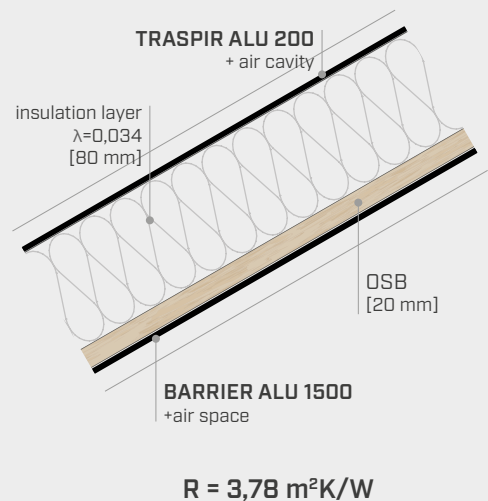
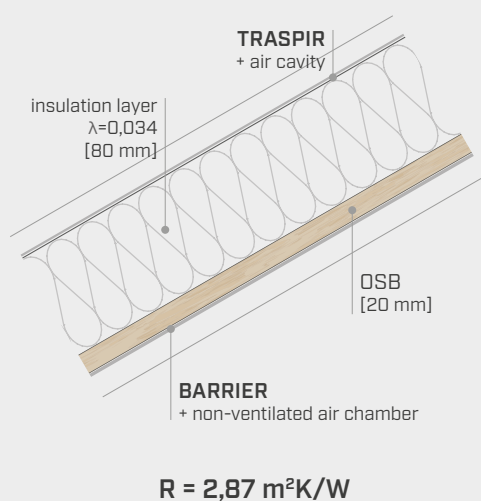
In winter, aluminium finished membranes applied indoor and coupled with an air gap, reflecting heat back into the interior transform the gap into an insulating layer and increase thermal performance.

Reflective membranes on the outdoor side provide a benefit during the hot season because they reflect heat outwards, rejecting incoming heat. Thermal stress affects materials; reducing it through the use of reflective membranes increases the durability of materials in the inner layers.

This is why reflective membranes offer superior thermal insulation, effective material protection and generally increase the performance of the roof.

## CALCULATION EXAMPLE

Example of thermal calculation with and without reflective membranes using the method proposed in ISO 6946.



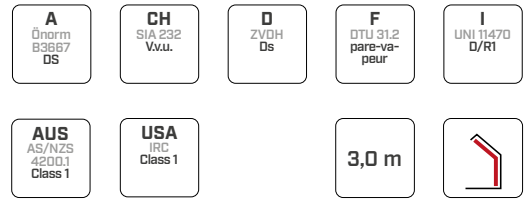
In this calculation example, using reflective membranes results in a 32% increase in the thermal resistance of the layers and an increase in the performance of the panels.



# BARRIER ALU NET SD150

REFLECTIVE VAPOUR BARRIER Sd 150 m

100 g/m<sup>2</sup>



## COMPOSITION

top layer  
functional aluminised PE film

middle layer  
PE reinforcing grid

bottom layer  
PE functional film

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	100 g/m <sup>2</sup>	0.33 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,2 mm	8 mil
Water vapour transmission (Sd)	EN 1931	150 m	0.023 US perm
Maximum tensile force MD/CD	EN 12311-2	> 230 / 230 N/50mm	> 26 / 26 lb/in
Elongation MD/CD	EN 12311-2	15 / 10 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 110 / 110 N	> 25 / 25 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,39 W/(m·K)	0.23 BTU/h-ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 500 kg/m <sup>3</sup>	approx. 0.29 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 7500000	approx. 750 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	approx. 50 %	-
Equivalent thermal resistance with 50 mm air gap (ε <sub>other surface</sub> 0,025-0,88)			
	ISO 6946	R <sub>g,0,025</sub> : 0,799 (m <sup>2</sup> K)/W	4.54 h-ft <sup>2</sup> ·°F/BTU
		R <sub>g,0,88</sub> : 0,304 (m <sup>2</sup> K)/W	1.73 h-ft <sup>2</sup> ·°F/BTU

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	tape	roll [m]	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BARALU150	BARRIER ALU NET SD150	100	-	1,5 x 50	1,5	50	75	5	164	807	80
BARALUTT150	BARRIER ALU NET SD150 TT	100	TT	1,5 x 50	1,5	50	75	5	164	807	80
BARALU15030	BARRIER ALU NET SD150 3,0 m	100	-	3,0 x 50	3	50	150	10	164	1615	45

# BARRIER ALU NET SD1500

REFLECTIVE VAPOUR BARRIER  $S_d > 1500 \text{ m}$

200 g/m<sup>2</sup>



## REINFORCING GRID

Thanks to its composition, the membrane is not affected by mechanical stress or by staples and nails.

## REFLECTIVE

Thanks to its ability to reflect up to 70% of the heat, the membrane improves the thermal performance of the construction panels.

## REACTION TO FIRE B-s1,d0

Self-extinguishing membrane that does not spread the flame in case of fire contributing to the protection of the structure.



## COMPOSITION

top layer  
functional aluminised PE film

middle layer  
PE reinforcing grid

bottom layer  
PE film

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BARALU1500	BARRIER ALU NET SD1500	200	-	1,5	50	75	5	164	807	30



## ENERGY SAVING

The reflectivity of the membrane improves the energy performance of the construction panels as it reflects heat inwards increasing thermal resistance.

## SAFETY

Thanks to its B-s1,d0 fire rating, the membrane is self-extinguishing in the event of contact with an open flame, providing greater safety both during construction and after the building has been completed.

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,15 mm	6 mil
Water vapour transmission (Sd) <sup>(1)</sup>	EN 1931	4000 m	0.001 US perm
Maximum tensile force MD/CD <sup>(2)</sup>	EN 12311-2	465 / 495 N/50mm	46 / 46 lb/in
Elongation MD/CD <sup>(2)</sup>	EN 12311-2	26 / 19 %	-
Resistance to nail tearing MD/CD <sup>(2)</sup>	EN 12310-1	400 / 400 N	67 / 67 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	4 weeks	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
Reaction to fire	EN 13501-1	class B-s1,d0	
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	0 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,39 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 1330 kg/m <sup>3</sup>	approx. 0.77 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 26000000	approx. 20000 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	approx. 70 %	-
Equivalent thermal resistance with 50mm air gap (ε <sub>other</sub> surface 0,025-0,88)			
	ISO 6946	R <sub>g,0,025</sub> : 0,801 (m <sup>2</sup> K)/W	4.56 h·ft <sup>2</sup> ·°F/BTU
		R <sub>g,0,88</sub> : 0,406 (m <sup>2</sup> K)/W	2.30 h·ft <sup>2</sup> ·°F/BTU

<sup>(1)</sup> Sd = 4000 m (- 2500 / + 4000).

<sup>(2)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98



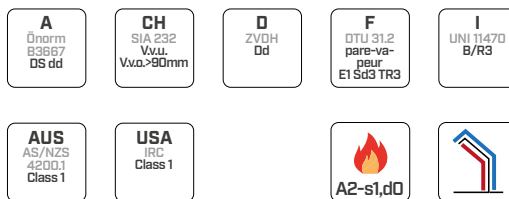
## MECHANICAL STRENGTH

The composition of the product and the reinforcement grid guarantee excellent dimensional stability even when installed on a soft, non-continuous support and therefore with possible mechanical stresses.

# BARRIER ALU FIRE A2 SD2500 140 g/m<sup>2</sup>



REFLECTIVE AIR VAPOUR BARRIER FIRE  
REACTION CLASS A2-s1,d0



## NON-COMBUSTIBLE A2-s1,d0

Product tested according to EN 13501-1 and classified as non-combustible material.

## ENERGY EFFICIENCY

The reflectivity of the membrane improves the energy performance of the construction panels: reflecting heat inwards up to 95% it increases thermal resistance.

## SAFETY

As it is non-combustible, it can also be used in combination with photovoltaic systems or at electrical voltage points.



## COMPOSITION

top layer  
aluminium film

bottom layer  
fibreglass fabric

## CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m <sup>2</sup> ]	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BARALUFIR2500	BARRIER ALU FIRE A2 SD2500	140	-	1,2	50	60	4	164	646	48



## RELIABLE

Thanks to the special aluminium film, it is extremely UV-stable, ageing-resistant and non-combustible, offering protection even on the construction site.

## MECHANICAL STRENGTH AND STABILITY

The combination of aluminium cladding and glass fibre reinforcement ensures high mechanical performance that remains unchanged over time.



## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	140 g/m <sup>2</sup>	0.46 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,1 mm	4 mil
Water vapour transmission (Sd) <sup>(1)</sup>	EN 1931	2500 m	0.001 US perm
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	1362 / 1349 N/50mm	156 / 154 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	2,8 / 3,8 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	150 / 150 N	34 / 34 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class A2-s1,d0	-
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,0001 W/(m·K)	0 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 1000 kg/m <sup>3</sup>	approx. 0.58 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 25000000	approx. 12500 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	95 %	-
Equivalent thermal resistance with 50mm air gap (ε <sub>other surface</sub> 0,025-0,88)	ISO 6946	R <sub>g,0,025</sub> : 0,821 (m <sup>2</sup> K)/W	4.66 h·ft <sup>2</sup> ·°F/BTU
		R <sub>g,0,88</sub> : 0,731 (m <sup>2</sup> K)/W	4.15 h·ft <sup>2</sup> ·°F/BTU
UV stability <sup>(2)</sup>	EN 13859-1/2	9 months	
Exposure to weather <sup>(2)</sup>		16 weeks	

(1) Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

(2) For the correlation between laboratory tests and actual conditions, see page 199.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98



### COMPLETE BARRIER

Maximum resistance to the passage of water vapour. Thanks to its ability to reflect up to 95% of heat, it also improves the thermal performance of the construction panels.

# VAPOR IN 120

## VAPOUR CONTROL MEMBRANE



LCA



EPD



EN 13984



## COMPOSITION

top layer  
vapour control PP film

bottom layer  
non-woven PP fabric



## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	120 g/m <sup>2</sup>	0.39 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0.4 mm	16 mil
Water vapour transmission (Sd)	EN 1931	30 m	0.14 US perm
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	220 / 180 N/50mm	25 / 21 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	47 / 68 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	160 / 205 N	36 / 46 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 290 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 75000	approx. 150 MNs/g
VOC content	-	0 %	-

<sup>(1)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
VV120	VAPOR IN 120	-	1,5	50	75	5	164	807	36
VV12030	VAPOR IN 120 3,0 m	-	3	50	150	10	164	1615	30

# VAPOR IN NET 140

## VAPOUR CONTROL MEMBRANE WITH REINFORCEMENT GRID



### COMPOSITION

top layer  
vapour control PP film

reinforcing layer  
reinforcing PP grid

bottom layer  
non-woven PP fabric

### TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	140 g/m <sup>2</sup>	0.46 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,15 mm	6 mil
Water vapour transmission (Sd)	EN 1931	30 m	0.14 US perm
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	390 / 360 N/50mm	45 / 41 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	18 / 16 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	280 / 260 N	63 / 58 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 933 kg/m <sup>3</sup>	approx. 0.54 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 167000	approx. 150 MNs/g
VOC content	-	0 %	-

<sup>(1)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
VV140	VAPOR IN NET 140	-	1,5	50	75	5	164	807	35

# SUSTAINABILITY

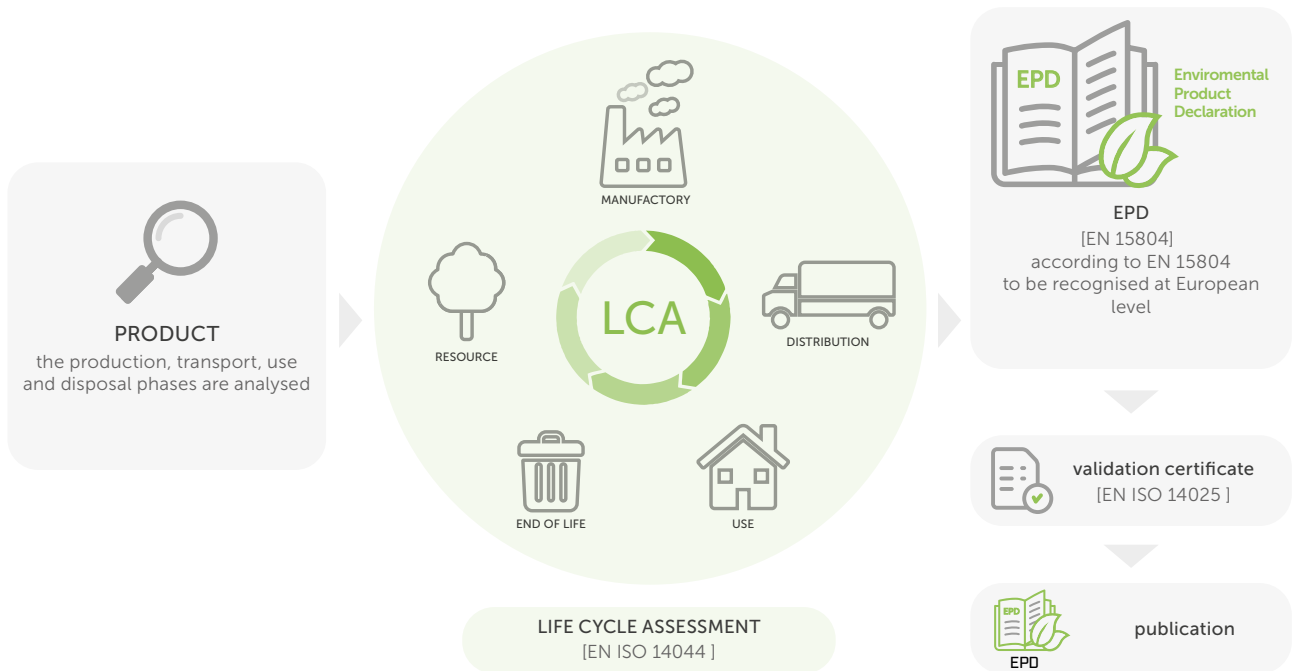


Environmental sustainability is an increasingly central issue in the construction sector and it has been taken into account in our company for a long time.

Although timber construction is in many respects more sustainable than other building systems, an assessment of the impacts linked to the entire life cycle of the products is still necessary in order to make an objective comparison between different building systems.

A suitable tool for this is the **EPD (Environmental Product Declaration)**. This is a type III environmental declaration in accordance with EN ISO 14025 which, based on specific parameters, makes it possible to produce a technical document to use in order to make an objective comparison of the environmental impact of various products.

The EPD is a declaration based on **LCA (Life Cycle Assessment)** for which the study of all aspects related to the production, use and disposal of the product is required.



This is a voluntary initiative, not obligatory by law, which we have decided to implement to know the environmental impact of our products, and to allow the designer to have an accurate idea of the ecological footprint of the building he is designing. It is an ongoing process; over time other products will be added to the 16 products that currently have an EPD value.

## SUSTAINABLE SOLUTION

PRODUCT		PAGE	PRODUCT		PAGE
BARRIER ALU NET SD1500		214	TRASPIR 110		253
VAPOR IN 120		218	TRASPIR EVO UV 115		254
VAPOR IN NET 140		219	TRASPIR NET 160		261
VAPOR IN GREEN 200		221	TRASPIR EVO 160		262
CLIMA CONTROL 80		228	TRASPIR EVO SEAL 200		266
CLIMA CONTROL NET 160		232	TRASPIR EVO UV 210		270
VAPOR 225		240	TRASPIR EVO 220		274
VAPOR EVO 190		238	TRASPIR EVO 300		282
			TRASPIR DOUBLE EVO 340		284
			TRASPIR WELD EVO 360		288



# VAPOR IN GREEN 200

VAPOUR CONTROL MEMBRANE BASED ON NATURAL CELLULOSE



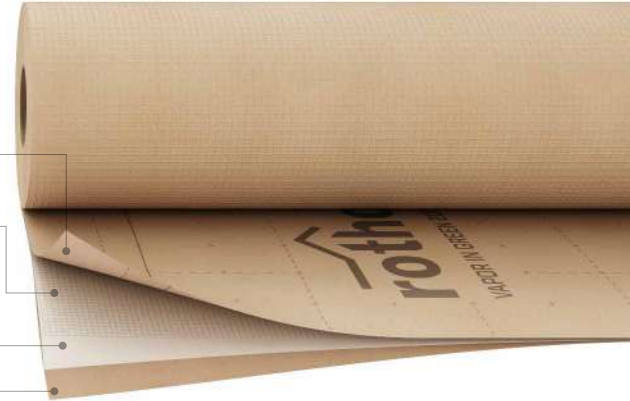
## COMPOSITION

top layer  
kraft paper

reinforcing layer  
reinforcing grid

middle layer  
functional film

bottom layer  
kraft paper



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,35 mm	14 mil
Water vapour transmission (Sd)	EN 1931	7 m	0.5 US perm
Maximum tensile force MD/CD	EN 12311-2	> 250 / 170 N/50mm	> 29 / 19 lb/in
Elongation MD/CD	EN 12311-2	5 / 5 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 100 / 130 N	> 22 / 29 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Indirect exposure to UV rays	-	2 weeks	-
Thermal conductivity (λ)	-	0,13 W/(m·K)	0.08 BTU/h·ft·°F
Specific heat	-	1000 J/(kg·K)	-
Density	-	approx. 570 kg/m <sup>3</sup>	approx. 0.33 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 20000	approx. 35 MNs/g
VOC content	-	0 %	-

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
VVG200	VAPOR IN GREEN 200	-	1,5	50	75	5	164	807	30

# RECOMMENDATIONS FOR INSTALLATION: BARRIER, VAPOR AND CLIMA CONTROL

APPLICATION ON WALL - INTERNAL SIDE



**1** BARRIER NET SD40, BARRIER SD150, BARRIER ALU NET SD150, BARRIER ALU NET SD1500, BARRIER ALU FIRE A2 SD2500, VAPOR IN 120, VAPOR IN NET 140, VAPOR IN GREEN 200, VAPOR NET 110, VAPOR 140, CLIMA CONTROL 80, CLIMA CONTROL NET 145  
HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

**3a** MEMBRANE GLUE, ECO GLUE, SUPERB GLUE  
DOUBLE BAND, SUPRA BAND, BUTYL BAND  
ROLLER, FLY FOAM, FOAM CLEANER

**3b** ALU BAND, SEAL BAND, EASY BAND, SPEEDY BAND, FLEXI BAND, SOLID BAND, PLASTER BAND

**4** PRIMER SPRAY, PRIMER

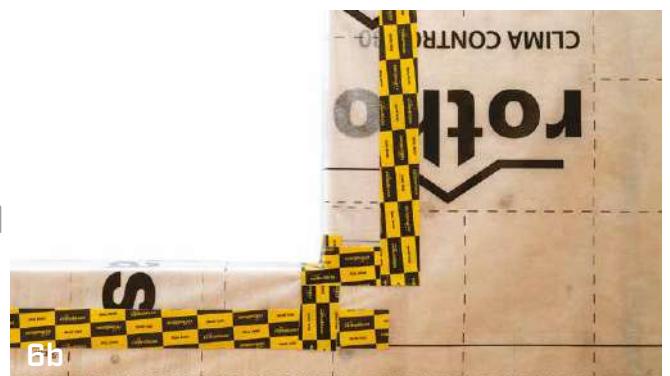
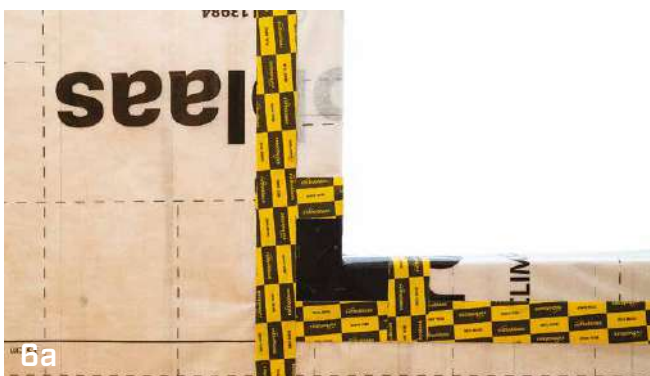
**5** BYTUM BAND, PROTECT, FLEXI BAND, PLASTER BAND

**6** NAIL PLASTER, GEMINI, NAIL BAND, BUTYL BAND



# RECOMMENDATIONS FOR INSTALLATION: BARRIER, VAPOR AND CLIMA CONTROL

APPLICATION ON WINDOW - INTERNAL SIDE



**1** BARRIER NET SD40, BARRIER SD150, BARRIER ALU NET SD150, BARRIER ALU NET SD1500, BARRIER ALU FIRE A2 SD2500, VAPOR IN 120, VAPOR IN NET 140, VAPOR IN GREEN 200, VAPOR NET 110, VAPOR 140, CLIMA CONTROL 80, CLIMA CONTROL NET 145  
HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

**3** MARLIN, CUTTER

**5a** ALPHA

**5b** SEAL BAND, EASY BAND, FLEXI BAND, SOLID BAND, SMART BAND, PLASTER BAND, MANICA PLASTER ROLLER

# RECOMMENDATIONS FOR INSTALLATION: BARRIER, VAPOR AND CLIMA CONTROL

APPLICATION ON ROOF - INTERNAL SIDE



**1a** SUPRA BAND, BUTYL BAND

**1b** DOUBLE BAND, MEMBRANE GLU, ECO GLUE, SUPERB GLUE

**3a** BARRIER NET SD40, BARRIER SD150, BARRIER ALU NET SD150, BARREIR ALU NET SD1500, BARRIER ALU FIRE A2 SD2500, VAPOR IN 120, VAPOR IN NET 140, VAPOR IN GREEN 200, CLIMA CONTROL 80, CLIMA CONTROL NET 145, CLIMA CONTROL NET 160, VAPOR NET 110, VAPOR 140, VAPOR NET 180

**3b** MEMBRANE GLUE, ECO GLUE, SUPERB GLUE  
DOUBLE BAND, SUPRA BAND, BUTYL BAND

**3c** SEAL BAND, EASY BAND, SPEEDY BAND, FLEXI BAND, SOLID BAND, PLASTER BAND, MANICA PLASTER



# RECOMMENDATIONS FOR INSTALLATION: BARRIER, VAPOR AND CLIMA CONTROL

APPLICATION ON ROOF WINDOW - INTERNAL SIDE



1 BARRIER NET SD40, BARRIER SD150, BARRIER ALU NET SD150, BARREIR ALU NET SD1500, BARRIER ALU FIRE A2 SD2500, VAPOR IN 120, VAPOR IN NET 140, VAPOR IN GREEN 200, CLIMA CONTROL 80, CLIMA CONTROL NET 145, CLIMA CONTROL NET 160, VAPOR NET 110, VAPOR 140, VAPOR NET 180 MARLIN, CUTTER

7a SEAL BAND, EASY BAND, FLEXI BAND, SOLID BAND, SMART BAND, PLASTER BAND, MANICA PLASTER  
7b

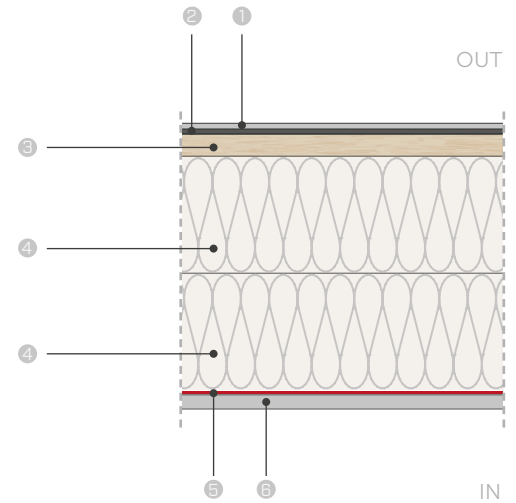
# FLAT ROOF WITH CLIMA CONTROL

## FLAT ROOF DESIGN

Verification of the thermo-hygrometric performance of a flat roof layer incorporating a variable vapour diffusion membrane (CLIMA CONTROL). In particular, the objective is to verify the drying of the layers, following a humidity accumulation phase.

The dimensions of construction panels used for the experimental phase were 1,2 x 1,2 m having the following characteristics:

- ① **BYTUM SLATE 3500** (Sd 280 m)
- ② **BYTUM BASE 2500** (Sd 200 m)
- ③ **OSB panel 20 mm** (Sd 5 m)
- ④ **insulation mineral wool 120 mm** (Sd 0,24 m)
- ⑤ **CLIMA CONTROL** (Sd 0,15-5 m)
- ⑥ **12,5 mm fibre-gypsum board** (Sd 0,05 m)



## LABORATORY TEST

Given the innovative behaviour of the CLIMA CONTROL membrane, an initial measurement phase was carried out in the laboratory to verify the real behaviour of the proposed layers. After a conditioning phase in which the different layers were kept at high humidity (80%), the specimen was installed in the Multifunctional Façade Lab and the test phase was started under dynamic outdoor conditions in which the conditions of a central European summer climate (Munich) were reproduced. Already after 17 days, it was possible to notice the drying process and the decrease of moisture content within the layers.



## SIMULATION WITH SOFTWARE

For the joint assessment of heat, moisture and matter transport in porous building materials. With the data obtained from the laboratory test, it was possible to calibrate the model in order to extend the thermo-hygrometric study in various climates and for a long-term analysis (10 years).

CASES				
①	②	③	④	⑤
MUNICH	BRISBANE (AUSTRALIA)	ABU DHABI	MUNICH + suspended ceiling	without CLIMA CONTROL
✔ NO CONDENSATION	✔ NO CONDENSATION	✔ NO CONDENSATION	✔ NO CONDENSATION	✘ CONDENSATION

## CONCLUSIONS

In all the cases simulated, the layers did not present any problems relating to the formation of condensation, suggesting that the application of the CLIMA CONTROL membrane is valid for preventing the excessive accumulation of humidity, also allowing the layers to dry in summer.

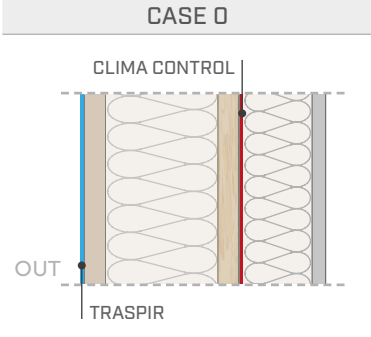
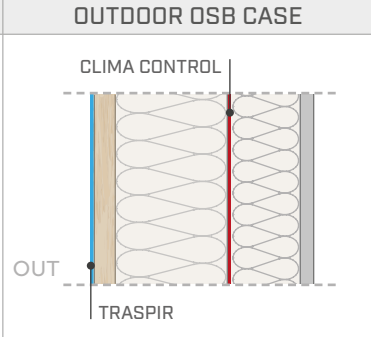
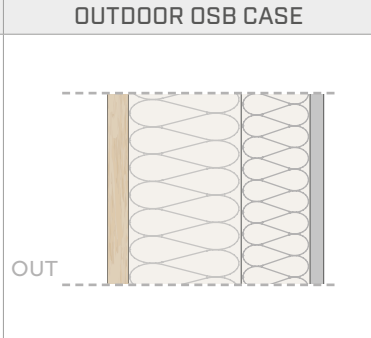
The presence of CLIMA CONTROL is decisive in periodically avoiding winter condensation phenomena towards the outermost layers, as demonstrated by the simulation of a Central European climate in the absence of the membrane.

The analysis of layers for a flat roof requires in-depth knowledge of technical physics and the ability to use specific software. A correct design and analysis of the layers is not easy and each situation requires a precise definition of the boundary conditions and the materials used.

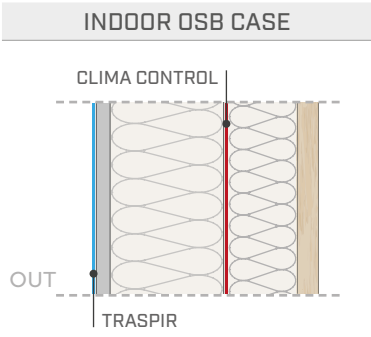
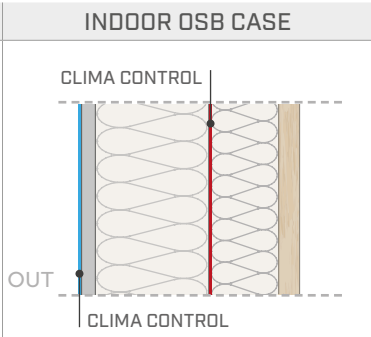
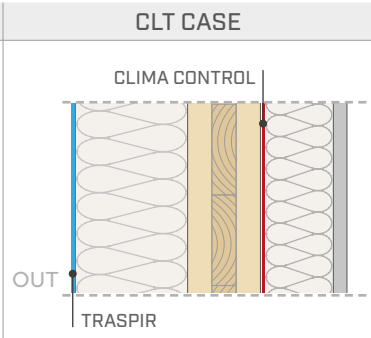
# WALL WITH CLIMA CONTROL

COLD AND HUMID OUTDOOR CLIMATE			HOT AND HUMID OUTDOOR CLIMATE		
WINTER CONDITIONS	INTERNAL	OUTDOOR	SUMMER CONDITIONS	INTERNAL	OUTDOOR
	T = 20°C U.R.= 40%	T = 0°C U.R.= 80%		T = 26°C U.R.= 80%	T = 40°C U.R.= 70%

## SIMULATION WITH SOFTWARE

	CASE 0	OUTDOOR OSB CASE	OUTDOOR OSB CASE
			
SUMMER	✓ NO CONDENSATION	✓ NO CONDENSATION	✓ NO CONDENSATION
WINTER	✓ NO CONDENSATION	✓ NO CONDENSATION	✗ CONDENSATION

	INDOOR OSB CASE	INDOOR OSB CASE	CLT CASE
			
SUMMER	✗ CONDENSATION	✓ NO CONDENSATION	✓ NO CONDENSATION
WINTER	✓ NO CONDENSATION	✓ NO CONDENSATION	✓ NO CONDENSATION

## LABORATORY TEST

In order to recreate the desired boundary conditions, it was decided to use a fictitious climatic chamber built in the laboratory, which is very well insulated both thermally and in terms of vapour diffusion. The specimen formed one side of the craft chamber, which was placed inside a single-zone climatic chamber capable of generating the desired temperature and humidity conditions. Within the fictitious climatic chamber, the desired temperature and humidity conditions were created by means of a thermostat heater and the use of a specially mixed salt solution.



## CONCLUSIONS

When comparing the various outputs, the importance of vapour control and breathable membranes to adequately regulate vapour flows through building packages becomes apparent.

It is also clear that the choice of location and type of membrane depends on the climatic conditions and the materials used.

In order to ensure optimal performance of the building casing, the processes of heat, vapour, air and wind transport that occur within the different components must be studied and controlled to avoid interstitial and surface condensation.



# CLIMA CONTROL 80

## MEMBRANE WITH VARIABLE VAPOUR DIFFUSION



### VARIABLE DIFFUSION

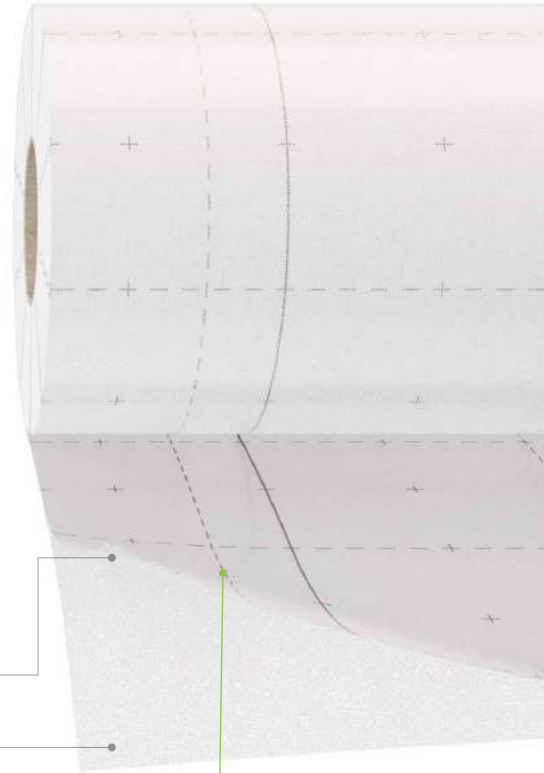
Variable resistance to vapour diffusion: maximum protection for walls and excellent security in insulation.

### TRANSPARENCY

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

### SCIENTIFICALLY TESTED

The product has been researched and tested by external scientific bodies who have also simulated its behaviour in real conditions.



**VARIABLE SD**

## COMPOSITION

top layer  
PA functional film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
CLIMA80	CLIMA CONTROL 80	-	1,5	50	75	5	164	807	81



### EASY INSTALLATION

Ideal for installation directly on the substructure (struts or joists), thanks to its slight transparency.

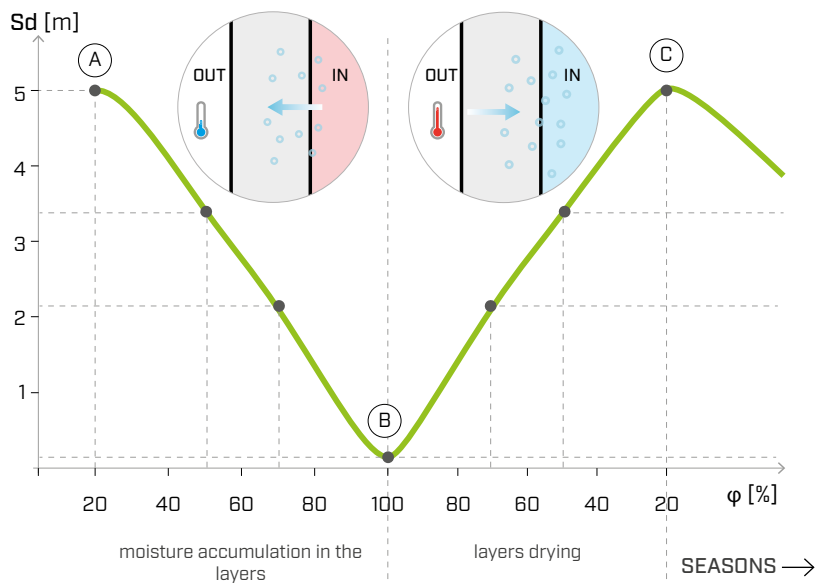
### RETROFIT

Thanks to its ability to adapt vapour diffusion according to the hygrometric conditions of the materials it comes into contact with, it is ideal for energy refurbishment of existing buildings.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	80 g/m <sup>2</sup>	0.26 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,22 mm	9 mil
Variable water vapour transmission (Sd)	EN 1931	0,15 / 5 m	23 / 0.7 US perm
Dry/wet cup water vapour transmission	ASTM E96/ E96M	1.86/10.6 US perm 106/605 ng/(s·m <sup>2</sup> ·Pa)	- -
Maximum tensile force MD/CD	EN 12311-2	> 120 / 90 N/50mm	> 14 / 10 lb/in
Elongation MD/CD	EN 12311-2	50 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 40 / 40 N	9 / 9 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0 cfm/ft <sup>2</sup> at 50Pa
Vapour barrier	ASTM E 2178-13	conforming	-
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 400 kg/m <sup>3</sup>	approx. 0.23 oz/in <sup>3</sup>
Variable water vapour resistance factor (μ)	-	approx. 1000 / 25000	approx. 0.75/25 MNs/g
VOC content	-	0 %	-



- (A) DRY LAYERS : Sd 5 m**  
maximum protection - vapour control layer to limit the passage of vapour in view of the season when moisture accumulates within the layers
- (B) HUMID LAYERS : Sd 0,15 m**  
maximum breathability - breathable membrane to allow drying during the reverse steam diffusion phenomenon
- (C) DRY LAYERS : Sd 5 m**  
maximum protection for the start of a new year and a new cycle



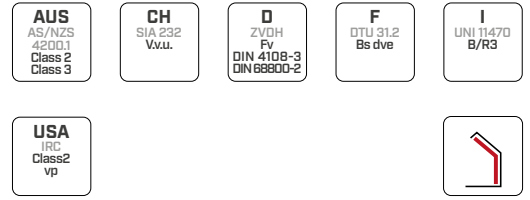
## HYGROMETRIC PROPERTIES

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.

# CLIMA CONTROL NET 145



## MEMBRANE WITH VARIABLE VAPOUR DIFFUSION AND REINFORCEMENT GRID



### ENERGY RECONDITIONING

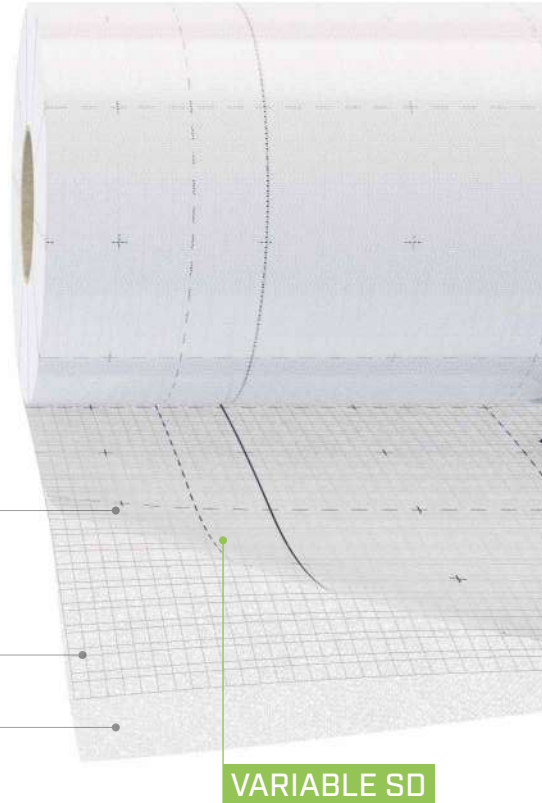
Ideal to increase energy performance for packages and solutions for re-conditioning of existing structures.

### VARIABLE DIFFUSION

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

### BLOWING


The reinforcement grid offers great resistance to the membrane, even in the event of pressure caused by the insulating material being blown.



## COMPOSITION

- top layer  
PA functional film
- reinforcing layer  
PE reinforcing grid
- bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
CLIMA145	CLIMA CONTROL NET 145	-	1,5	50	75	5	164	807	36



### REINFORCING GRID

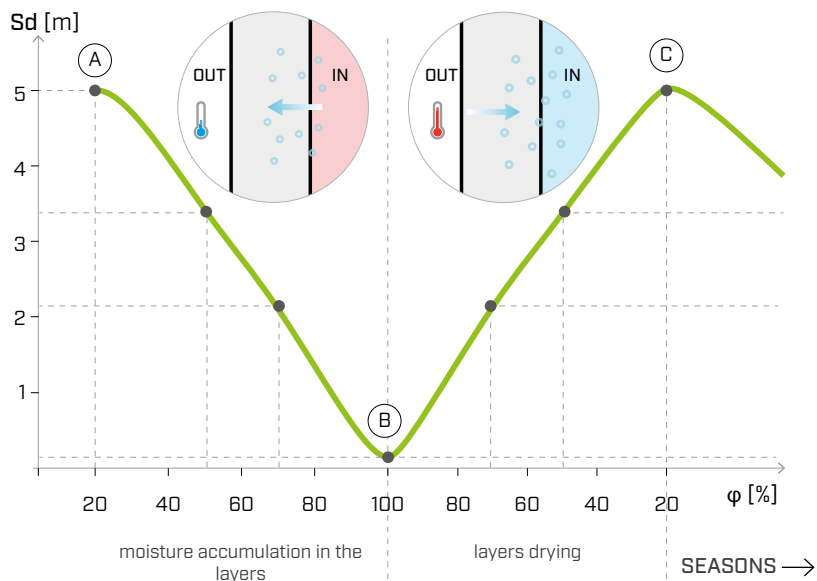
The reinforcement grid ensures excellent dimensional stability even when laid on a soft, non-continuous support and therefore with possible mechanical stresses.

### SAFETY

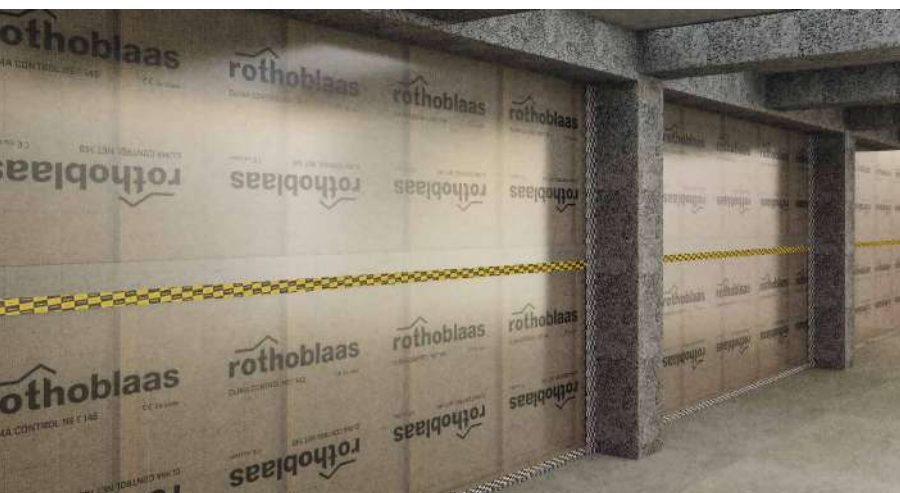
During installation of the insulation layer by means of blowing, mechanical stresses are created which the reinforcement grid can compensate for.

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	145 g/m <sup>2</sup>	0.48 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Variable water vapour transmission (Sd)	EN 1931	0,15 / 5 m	23 / 0.7 US perm
Maximum tensile force MD/CD	EN 12311-2	> 440 / 400 N/50mm	50 / 46 lb/in
Elongation MD/CD	EN 12311-2	> 15 / 15 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 300 / 250 N	67 / 56 lbf
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	approx. 0,2 W/(m K)	0.12 BTU/h-ft <sup>2</sup> °F
Specific heat	-	approx. 1700 J/(kg·K)	-
Density	-	approx. 245 kg/m <sup>3</sup>	approx. 0.14 oz/in <sup>3</sup>
Variable water vapour resistance factor (μ)	-	approx. 250 / 8333	approx. 0.75/25 MNs/g
VOC content	-	0 %	-



- Ⓐ **DRY LAYERS : Sd 5 m**  
maximum protection - vapour control layer to limit the passage of vapour in view of the season when moisture accumulates within the layers
- Ⓑ **HUMID LAYERS : Sd 0,15 m**  
maximum breathability - breathable membrane to allow drying during the reverse steam diffusion phenomenon
- Ⓒ **DRY LAYERS : Sd 5 m**  
maximum protection for the start of a new year and a new cycle



## TRANSPARENCY

Easy to install thanks to the slightly transparent structure, it allows the interception of the underlying structure.

# CLIMA CONTROL NET 160

## MEMBRANE WITH VARIABLE VAPOUR DIFFUSION AND REINFORCEMENT GRID



### VARIABLE DIFFUSION

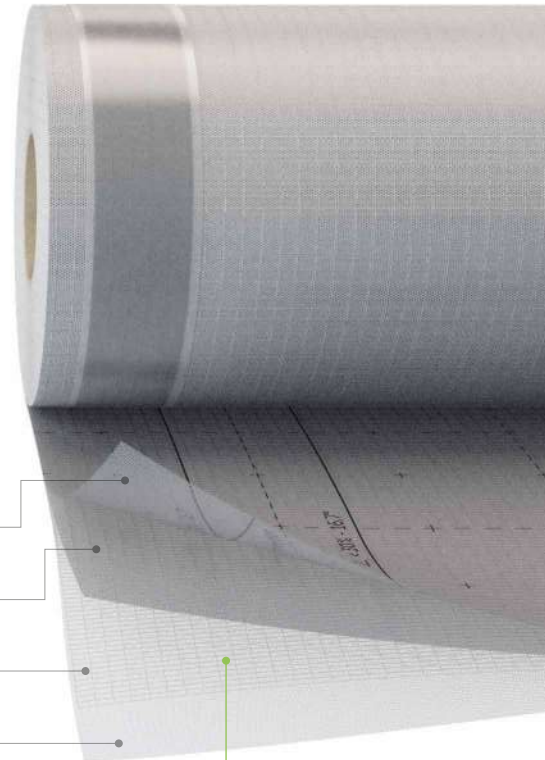
Variable resistance to vapour diffusion: maximum protection for walls and excellent security in insulation.

### ENERGY RECONDITIONING

Ideal to increase energy performance for packages and solutions for re-conditioning of existing structures.

### REINFORCING GRID

Thanks to its composition, the membrane is not affected by mechanical stresses caused by staples, nails or wear caused by walking.



**VARIABLE SD**

## COMPOSITION

- top layer  
non-woven PP fabric
- reinforcing layer  
PE reinforcing grid
- middle layer  
PA functional film
- bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
CLIMATT160	CLIMA CONTROL NET 160 TT	TT	1,5	50	75	5	164	807	25



### WEAR RESISTANCE

During installation on the roof, mechanical stresses are created due to wear from walking, which the reinforcement grid can compensate for.

### SMART

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

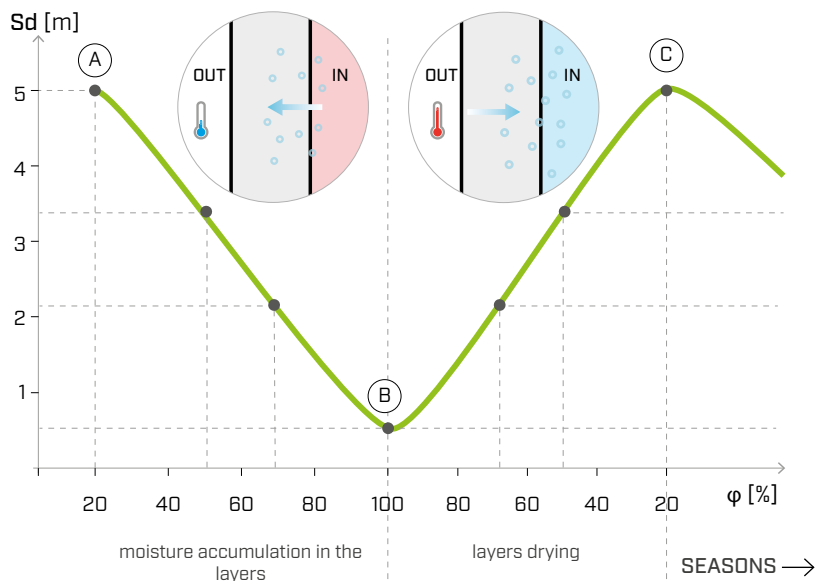


## TECHNICAL DATA

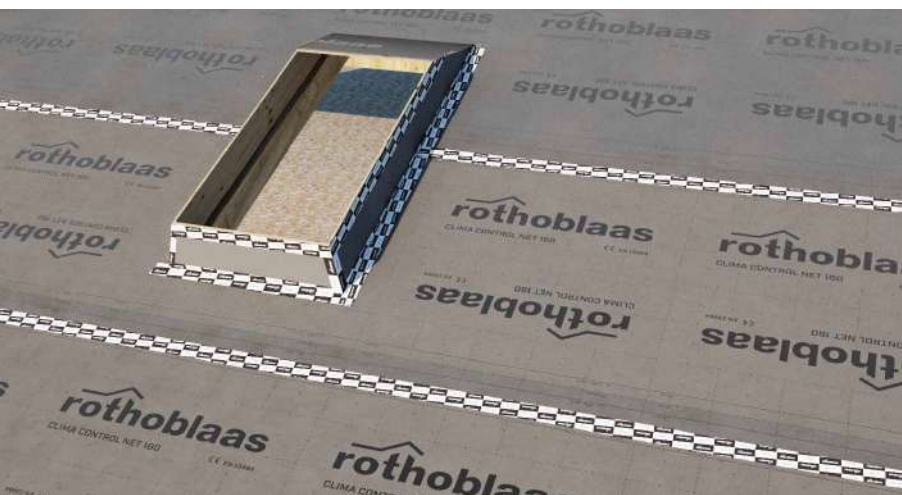
Properties	standard	value	value
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>	0.52 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,5 mm	20 mil
Variable water vapour transmission (Sd)	EN 1931	0,5 / 5 m	7 / 0.7 US perm
Dry/wet cup water vapour transmission	ASTM E96/ E96M	2.86/7.91 US perm 153/452 ng/(s·m <sup>2</sup> ·Pa)	-
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	400 / 270 N/50mm	46 / 31 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	20 / 20 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	240 / 250 N	54 / 56 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 320 kg/m <sup>3</sup>	approx. 0.18 oz/in <sup>3</sup>
Variable water vapour resistance factor (μ)	-	approx. 1000 / 10000	approx. 2.5/25 MNs/g
VOC content	-	0 %	-
UV stability <sup>(2)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(2)</sup>	-	4 weeks	-
Water column	ISO 811	> 250 cm	> 98 in

(1) Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

(2) For the correlation between laboratory tests and actual conditions, see page 199.



- (A) **DRY LAYERS : Sd 5 m**  
maximum protection - vapour control layer to limit the passage of vapour in view of the season when moisture accumulates within the layers
- (B) **HUMID LAYERS : Sd 0,5 m**  
maximum breathability - breathable membrane to allow drying during the reverse steam diffusion phenomenon
- (C) **DRY LAYERS : Sd 5 m**  
maximum protection for the start of a new year and a new cycle

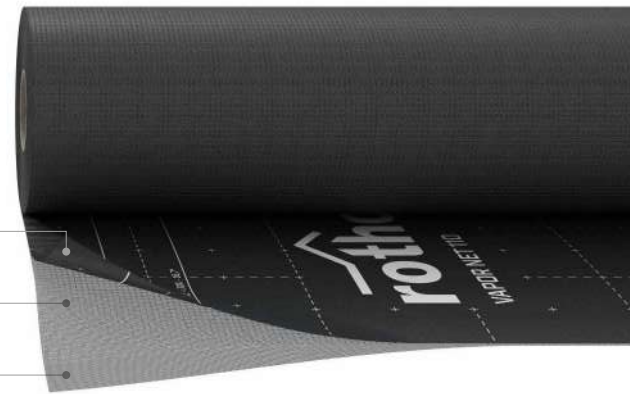


## HYGROMETRIC PROPERTIES

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 control layer into a breathable product, guaranteeing that the structure remains dry.

# VAPOR NET 110

## VAPOUR CONTROL MEMBRANE WITH REINFORCEMENT GRID



### COMPOSITION


- top layer  
PE vapour control film
- reinforcing layer  
PE reinforcing grid
- bottom layer  
non-woven PP fabric

### TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	110 g/m <sup>2</sup>	0.36 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,3 mm	12 mil
Water vapour transmission (Sd)	EN 1931	5 m	0.7 US perm
Maximum tensile force MD/CD	EN 12311-2	> 200 / 250 N/50mm	23 / 29 lb/in
Elongation MD/CD	EN 12311-2	> 25 / 25 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 170 / 170 N	38 / 38 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance		-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 370 kg/m <sup>3</sup>	approx. 0.21 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 16700	approx. 25 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98 in

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
V110	VAPOR NET 110	-	1,5	50	75	5	164	807	 36

# VAPOR 140

## VAPOUR CONTROL MEMBRANE



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
vapour control PP film


bottom layer  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	140 g/m <sup>2</sup>	0.46 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,45 mm	18 mil
Water vapour transmission (Sd)	EN 1931	10 m	0.35 US perm
Maximum tensile force MD/CD	EN 12311-2	> 230 / 180 N/50mm	26 / 21 lb/in
Elongation MD/CD	EN 12311-2	> 35 / 40 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 125 / 145 N	28 / 33 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 25000	approx. 50 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
Water column	ISO 811	> 250 cm	> 98 in

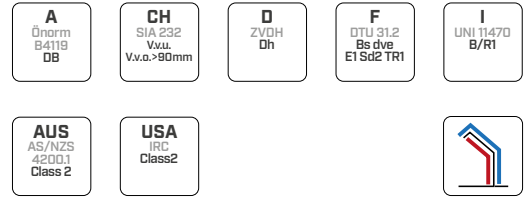
<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
V140	VAPOR 140	-	1,5	50	75	5	164	807	 30

# VAPOR 150

## VAPOUR CONTROL MEMBRANE



### COMPOSITION

- top layer  
non-woven PP fabric
- middle layer  
vapour control PP film
- bottom layer  
non-woven PP fabric

### TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>	0.49 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd)	EN 1931	13 m	0.269 US perm
Maximum tensile force MD/CD	EN 12311-2	> 250 / 200 N/50mm	29 / 23 lb/in
Elongation MD/CD	EN 12311-2	> 35 / 40 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 130 / 150 N	29 / 34 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 26000	approx. 65 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
Water column	ISO 811	> 250 cm	> 98 in

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

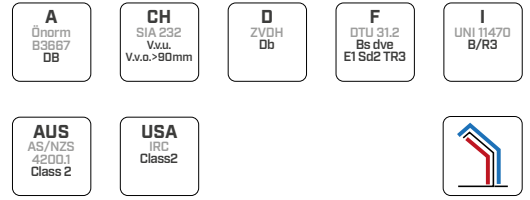
### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
V150	VAPOR 150	-	1,5	50	75	5	164	807	30
VTT150	VAPOR 150 TT	TT	1,5	50	75	5	164	807	30



# VAPOR NET 180

## VAPOUR CONTROL MEMBRANE WITH REINFORCEMENT GRID



### COMPOSITION

- top layer  
non-woven PP fabric
- reinforcing layer  
reinforcing PP grid
- middle layer  
PE vapour control film
- bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	180 g/m <sup>2</sup>	0.59 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd) <sup>(1)</sup>	EN 1931	10 m	0.35 US perm
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	320 / 300 N/50mm	37 / 34 lb/inch
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	10 / 10 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	250 / 290 N	56 / 65 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 360 kg/m <sup>3</sup>	approx. 0.2 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 20000	approx. 50 MNs/g
VOC content	-	0 %	-
UV stability <sup>(2)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(2)</sup>	-	3 weeks	-

<sup>(1)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

<sup>(2)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
V180	VAPOR NET 180	-	1,5	50	75	5	164	807	25
VTT180	VAPOR NET 180 TT	TT	1,5	50	75	5	164	807	25

# VAPOR EVO 190

## HIGH PERFORMANCE VAPOUR CONTROL MEMBRANE



### NEW GENERATION

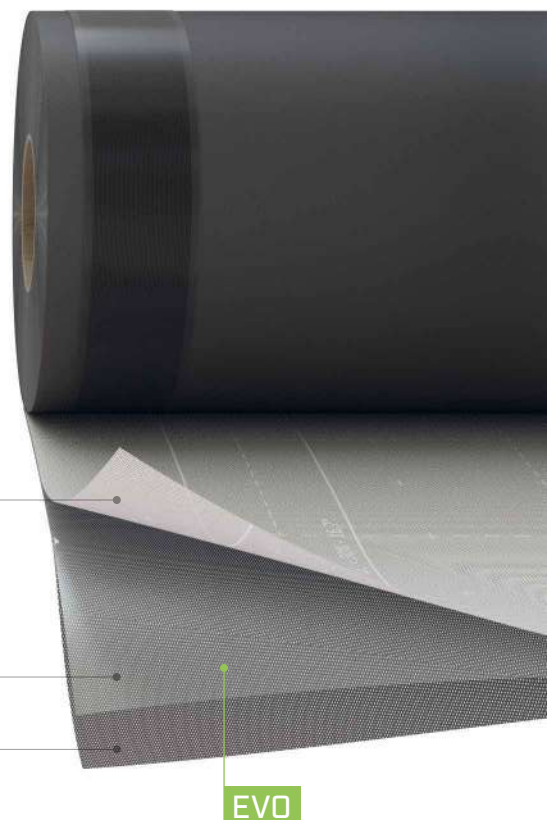
It is part of the EVO membrane family because it contains a special film that ensures durability and high UV stability.

### UV STABILITY

Its formulation achieves UV stability for up to 6 months, offering maximum protection to the roof and underlying structure.

### HIGH THERMAL RESISTANCE

The special mix of the functional film allows the product to guarantee its performance even when subjected to high thermal stress in extreme climatic conditions.




## COMPOSITION

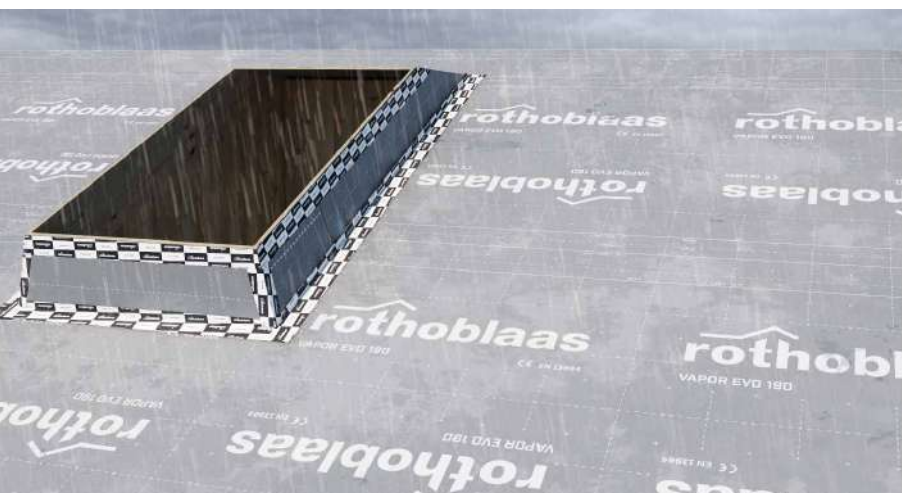
top layer  
non-woven PP fabric

middle layer  
EVO PE functional film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
VEVO190	VAPOR EVO 190	-	1,5	50	75	5	164	807	25
VTTEVO190	VAPOR EVO 190 TT	TT	1,5	50	75	5	164	807	25



### PROTECTION

Maximum protection against wear and hard rain during installation/construction. The monolithic film ensures impermeability even under high mechanical wear and tear and contact with aggressive chemicals.

### SECURE SEALING

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

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	190 g/m <sup>2</sup>	0.62 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	5 m	0.699 US perm
Maximum tensile force MD/CD <sup>(1)</sup>	EN 12311-2	480 / 500 N/50mm	55 / 57 lb/in
Elongation MD/CD <sup>(1)</sup>	EN 12311-2	65 / 65 %	-
Resistance to nail tearing MD/CD <sup>(1)</sup>	EN 12310-1	265 / 320 N	60 / 72 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	40 / 100 °C	104 / 212 F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 316 kg/m <sup>3</sup>	approx. 0.18 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 8300	approx. 25 MNs/g
VOC content	-	0 %	-
UV stability <sup>(2)</sup>	EN 13859-1/2	6 months	-
Exposure to weather <sup>(2)</sup>	-	10 weeks	-
Water column	ISO 811	600 cm	236 in

<sup>(1)</sup> Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

<sup>(2)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## RELATED PRODUCTS



**SMART BAND**  
page 80



**NAIL PLASTER**  
page 126



**LIZARD**  
page 325



### THERMAL AND CHEMICAL STABILITY

Resistant up to 100°C, it is not affected by chemicals that it may come into contact with during roof work or through pollution in the air.

# VAPOR 225

## VAPOUR CONTROL MEMBRANE



### RELIABLE

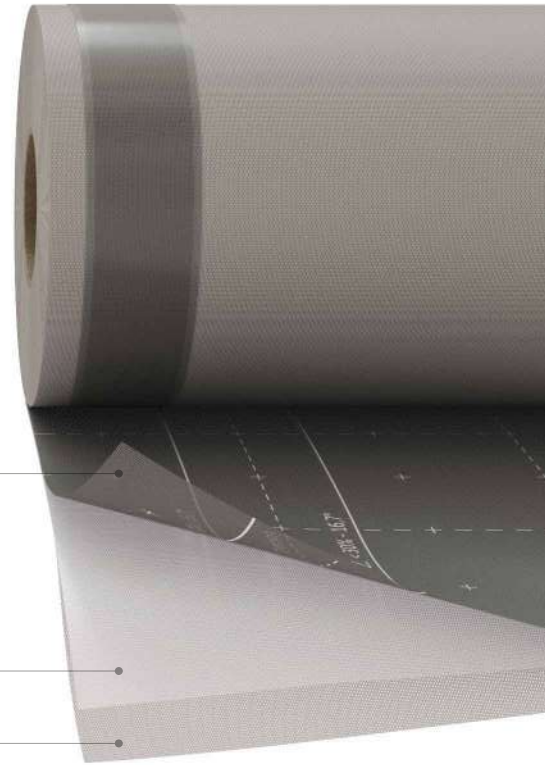
The mass per unit area of the membrane provides mechanical strength and protection during construction.

### PROTECTION

It is also suitable for applications on uneven and rough supports, which could damage lighter vapour control layers.

### COST/PERFORMANCE

Cost-effective membrane, ensuring high performance and protection against weathering.



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
vapour control PP film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
V225	VAPOR 225	-	1,5	50	75	5	164	807	20
VTT225	VAPOR 225 TT	TT	1,5	50	75	5	164	807	20



### SECURE SEALING

The TT version offers fast installation and professional sealing thanks to the integrated double tape.

### FLEXIBILITY

Although the membrane is very thick and resistant, its composition ensures great flexibility in processing without the risk of material wear.



## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	225 g/m <sup>2</sup>	0.74 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,8 mm	31 mil
Water vapour transmission (Sd)	EN 1931	4 m	0.874 US perm
Maximum tensile force MD/CD	EN 12311-2	> 380 / 300 N/50mm	> 43 / 34 lb/in
Elongation MD/CD	EN 12311-2	60 / 80 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 225 / 300 N	> 51 / 67 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 250 kg/m <sup>3</sup>	approx. 0.14 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 5000	approx. 20 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
Water column	ISO 811	> 500 cm	> 197 in

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## RELATED PRODUCTS



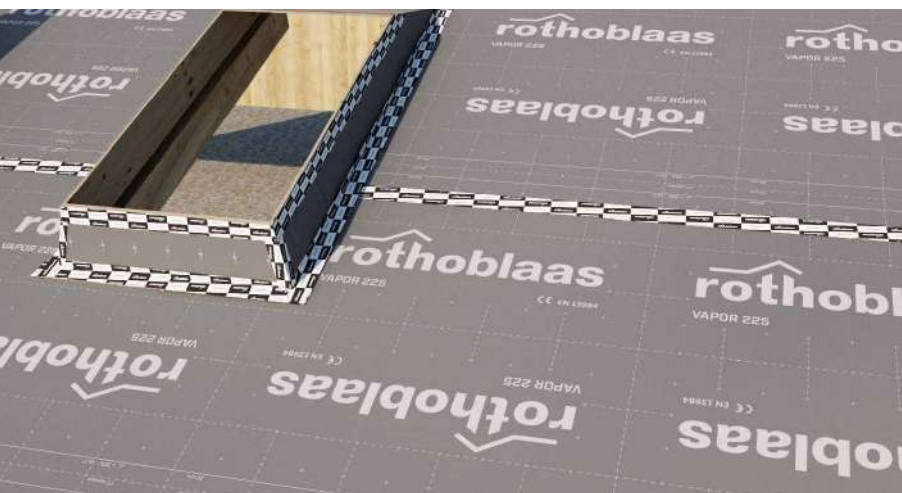
FLEXI BAND UV  
page 74



NAIL PLASTER  
page 126



LIZARD  
page 325



## WEAR RESISTANCE

Thanks to its high mass per unit area, it ranks among the most massive vapour control layers on the market, providing protection for common construction phases.

# VAPOR ADHESIVE 260

## SELF-ADHESIVE VAPOUR CONTROL MEMBRANE



### SELF-ADHESIVE

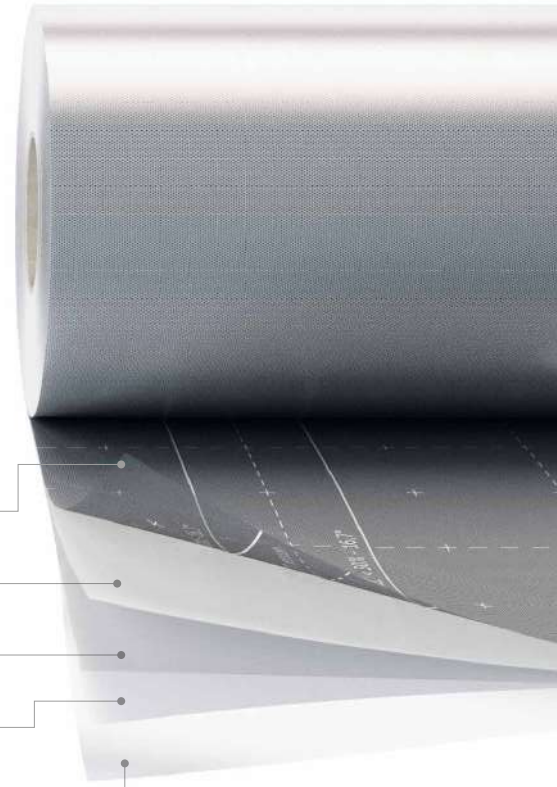
Thanks to the innovative formula of the new generation glue, the membrane ensures good adhesion even on rough OSB.

### SECURE SEALING

The adhesive surface prevents the formation of airflow behind the membrane in case of accidental breakage or failure to seal.

### VERSATILE

It offers a solution both as protection during construction and as an effective and safe vapour control membrane.



## COMPOSITION

**top layer**  
non-woven PP fabric


**middle layer**  
vapour control PP film

**bottom layer**  
non-woven PP fabric

**glue**  
acrylate dispersion without solvents

**release liner**  
precut removable plastic film

## CODES AND DIMENSIONS

CODE	description	liner [mm]	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
VA260	VAPOR ADHESIVE 260	725 / 725	1,45	50	72,5	4,8	164	780	16
VAS260	VAPOR ADHESIVE 260 STRIPE	180 / 180	0,36	50	18	1.18	164	194	-



### RAPIDITY

The fully self-adhesive surface allows fast and safe installation and does not compromise the performance of the product.

### CONSTRUCTION SITE

During construction, it is essential to protect the structure, especially if it remains visible once the building is completed: VAPOR ADHESIVE 260 offers excellent protection.

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	260 g/m <sup>2</sup>	0.85 oz/ft <sup>2</sup>
Thickness	EN 1849-2	approx. 0,6 mm	approx. 24 mil
Water vapour transmission (Sd)	EN 1931	19 m	0.184 US perm
Water vapour transmission (dry cup)	ASTM E96/ E96M	0.2 US perm	-
Maximum tensile force MD/CD	EN 12311-2	> 250 / 200 N/50mm	43 / 34 lb/in
Resistance to nail tearing MD/CD	EN 12310-1	> 130 / 150 N	29 / 34 lbf
Watertightness	EN 1928	conforming	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	approx. 0,3 W/(m K)	0.17 BTU/h·ft·°F
Specific heat	-	approx. 1800 J/(kg·K)	-
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 31600	approx. 95 MNs/g
Joint strength	EN 12317-2	112 N/50mm	13 lb/in
UV stability <sup>(1)</sup>	EN 13859-1/2	2 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
Adhesion strength on steel at 180°	EN 12316-2	12 N/cm	7 lb/in
Storage temperature	-	5 / 25 °C	41/77 °F
Application temperature	-	-5 / 35 °C	23 / 95 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Available in different configurations on request. It is possible to customise the mass per unit area of the membrane, the amount of acrylic glue, the size and the pre-cut of the liner.

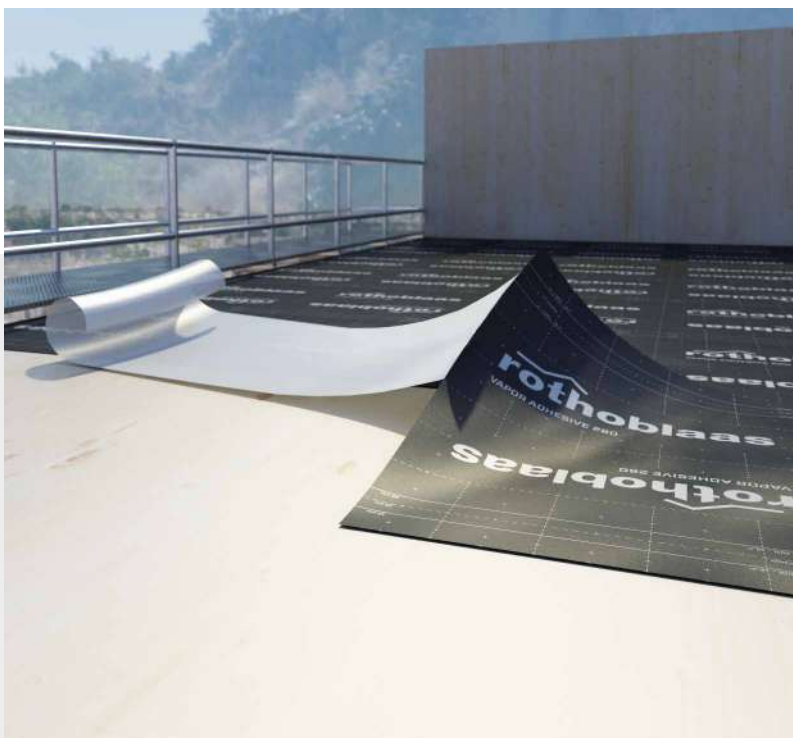
## RELATED PRODUCTS



**BARRIER NET ADHESIVE 200**  
page 210



**TRASPIR ADHESIVE 260**  
page 276



### SPECIAL GLUE

The acrylic dispersion glue has a specific formulation to prevent altering the vapour control membrane functions of the functional film inside the membrane.



## RECOMMENDATIONS FOR INSTALLATION

### APPLICATION ON CEILING



### SEALING FASTENING SYSTEMS



1 SPEEDY BAND 300, FLEXI BAND, PLASTER BAND

2 PROTECT, BYTUM BAND  
PRIMER SPRAY, PRIMER



# RECOMMENDATIONS FOR INSTALLATION: CLIMA CONTROL 160 AND VAPOR

APPLICATION ON ROOF - EXTERNAL SIDE



**1** CLIMA CONTROL 160, VAPOR NET 110, VAPOR 140, VAPOR 150, VAPOR 150, VAVAPOR NET 180, VAPOR EVO 190, VAPOR 225

**2** HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

**5a** EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND  
ROLLER

**5b** DOUBLE BAND, SUPRA BAND, BUTYL BAND  
OUTSIDE GLUE

**BREATHABLE**

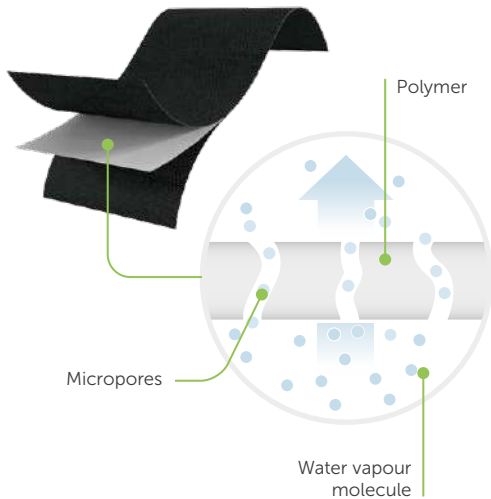
# BREATHABLE

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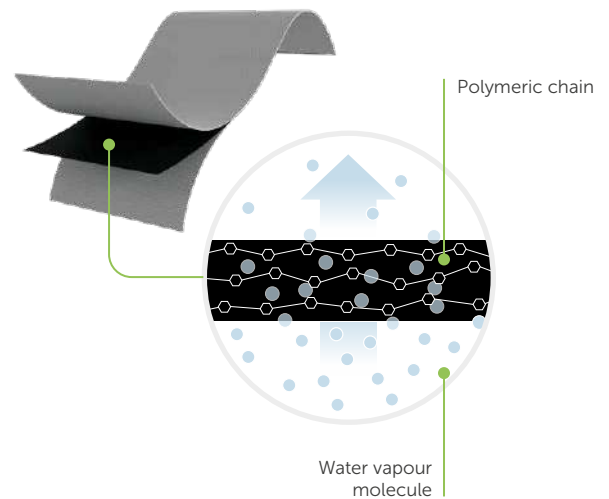
# MONOLITHIC AND MICROPOROUS

The family of synthetic breathable 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.

## MICROPOROUS MEMBRANES



## MONOLITHIC MEMBRANES



### CHARACTERISTICS

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

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

Rothoblaas offers: TRASPIR 110, TRASPIR 150, TRASPIR 200.

### CHARACTERISTICS

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

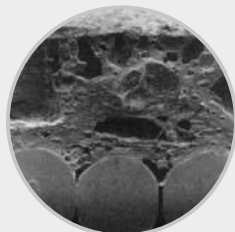
Membranes with a homogeneous and continuous functional layer. The permeance of monolithic membranes is provided by the ability of the polymer of which they are composed to make a chemical interaction with water molecules. Some polymers, in fact, are able to activate a chemical interaction with water molecules and therefore to be crossed through, thus becoming breathable.

Rothoblaas offers: TRASPIR EVO 160, TRASPIR EVO 220, TRASPIR EVO 300.

Microscope image of a microporous membrane section.

**Upper part:** microporous film.

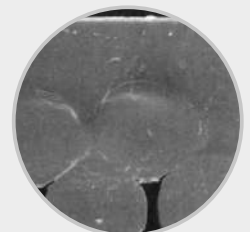
**Lower part:** support and protection fibre filaments.



Microscope image of a monolithic membrane section.

**Upper part:** monolithic film.

**Lower part:** support and protection fibre filaments.





**Microporous** films are made from hydrophobic polymers, which are themselves incapable of interacting with water and are generally more rigid. They require special processing to allow water to pass through them. This makes them more susceptible to pollutants.

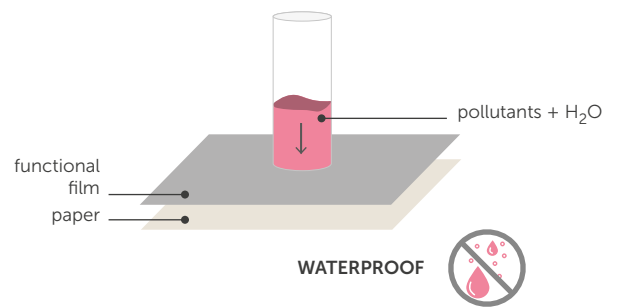
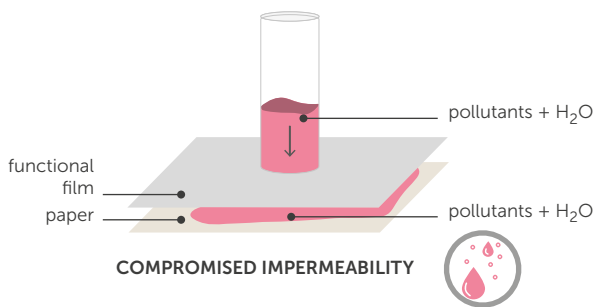
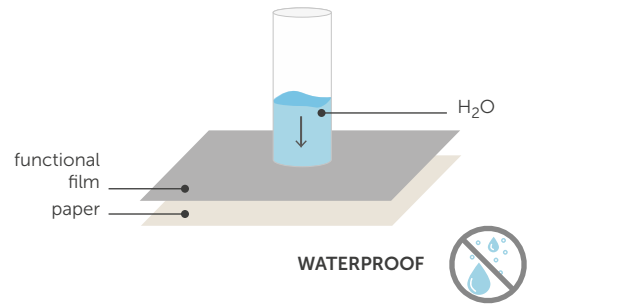
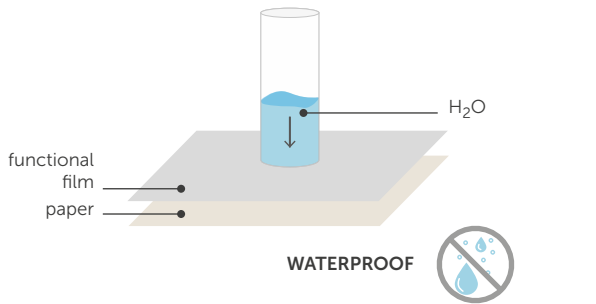
**Monolithic** films are made from hydrophilic polymers, which are able to interact chemically with water and are generally more elastic.

## MICROPOROUS MEMBRANES

## MONOLITHIC MEMBRANES

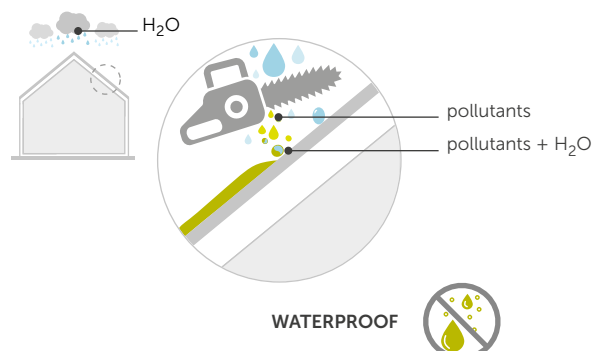
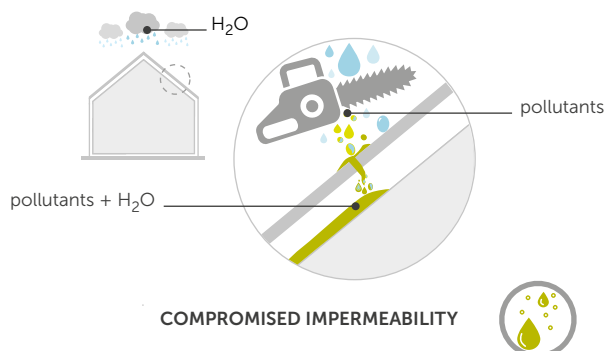
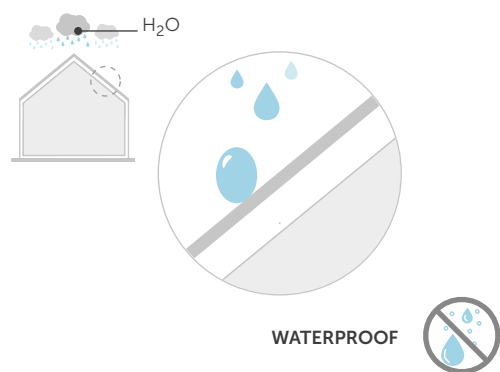
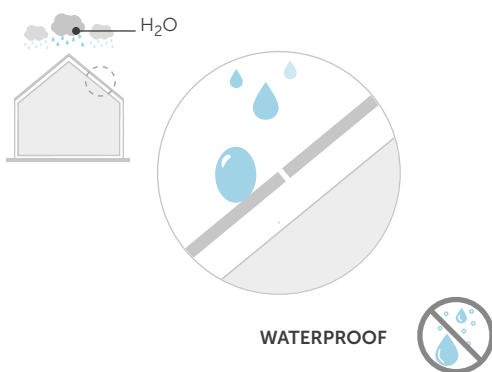
### LABORATORY TEST

### LABORATORY TEST



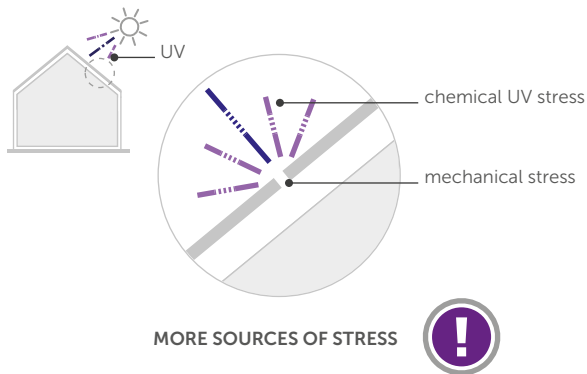
### CASE ON SITE

### CASE ON SITE



## MICROPOROUS MEMBRANES

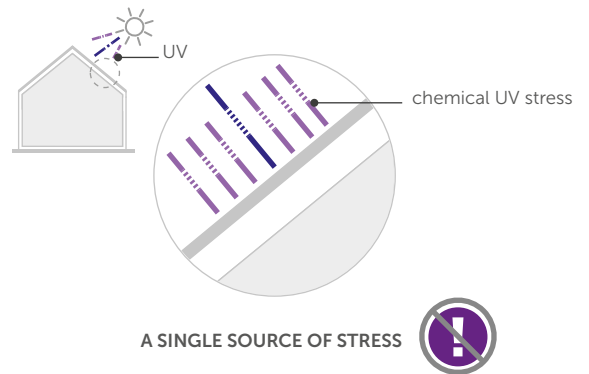
### RESISTANCE TO ULTRAVIOLET RADIATION



The more sources of stress act simultaneously, the greater the degradation of polymers. In the production process microporous films are subjected to mechanical stress. If a microporous membrane is exposed to ultraviolet radiation, chemical stress is added to the mechanical stress. Respecting the maximum UV exposure of the membrane is important in order not to compromise the durability of the functional film.

## MONOLITHIC MEMBRANES

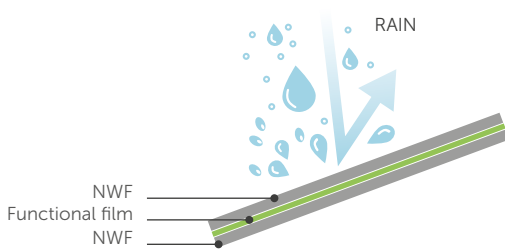
### RESISTANCE TO ULTRAVIOLET RADIATION



No mechanical or thermal stresses are created in the production process of monolithic films. Therefore, when a monolithic membrane is exposed to ultraviolet radiation, this is the only source of stress for the functional film and degradation is less than it would be for a microporous film. The UV resistance of monolithic membranes is generally higher. However, it is important to respect the maximum UV exposure of the membrane in order not to compromise the durability of the functional film.

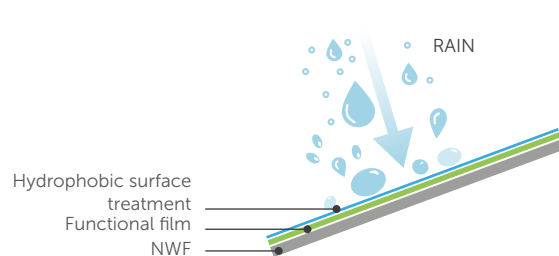
### WATER REPELLENCY

All membrane surfaces are designed to be water-repellent. Water repellency can be provided through the choice of materials or by exploiting the texture of the surface. This is an important feature because it helps to keep the membrane dry.



### HYDROFOBICITY

In some cases (TRASPIR EVO 300), the surfaces are made hydrophobic with a special treatment to further reduce interaction with water (the mechanism of non-interaction with water is similar to that of water repellency but is even more pronounced).



## MATERIALS, PROPERTIES AND TECHNOLOGIES

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

RAW MATERIAL USED FOR FUNCTIONAL FILM	STRENGTHS	FINISHED PRODUCT TECHNOLOGY	ROTHOBLAAS 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 (TRASPIR EVO 300)
Thermoplastic polyurethane (TPU or PU)	<ul style="list-style-type: none"> <li>• Thermal stability</li> <li>• Chemical stability</li> <li>• Flexibility and workability</li> <li>• UV</li> </ul>	Monolithic, spread in 2 or 3 layers	Breathable and highly breathable membranes (TRASPIR WELD EVO 360)
Polyamide (PA)	<ul style="list-style-type: none"> <li>• Variable resistance to penetration of water vapour</li> <li>• Resistance to high temperatures</li> </ul>	Monolithic, spread in 2 or 3 layers	Membrane with variable vapour diffusion (CLIMA CONTROL 80)
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 (TRASPIR EVO 220)
Polyethylene (PE)	<ul style="list-style-type: none"> <li>• Dimensional stability</li> <li>• Chemical stability</li> </ul>	Monolithic, 2 or 3 layers	Vapour control membranes (BARRIER SD40), sheaths for foundation waterproofing (FLOOR RADON)
Polypropylene (PP)	<ul style="list-style-type: none"> <li>• Mechanical resistance</li> <li>• Flexibility and workability</li> <li>• Thermal stability</li> </ul>	Microporous Monolithic, 2 or 3 layers	Highly breathable membranes (TRASPIR 150) Vapour control layers (VAPOR 150)
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 (BARRIER ALU FIRE A2 SD2500)	
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>	Support for spread monolithic products (TRASPIR EVO UV 210)	

# TRASPIR 95

HIGHLY BREATHABLE MEMBRANE FOR WALLS



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	95 g/m <sup>2</sup>	0.31 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0.4 mm	16 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	210 / 120 N/50mm	24 / 14 lb/in
Elongation MD/CD	EN 12311-1	50 / 90 %	-
Resistance to nail tearing MD/CD	EN 12310-1	90 / 100 N	20 / 22 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.003 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 238 kg/m <sup>3</sup>	approx. 0.14 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 50	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	150 / 90 N/50mm	22 / 22 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 45 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

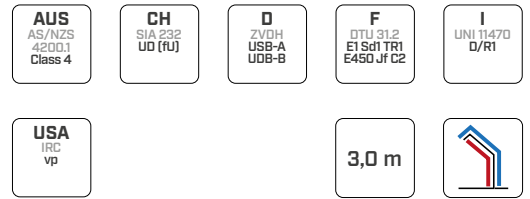
## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
T95	TRASPIR 95	-	1,5	50	75	5	164	807	42



# TRASPIR 110

## HIGHLY BREATHABLE MEMBRANE



## COMPOSITION

- top layer  
non-woven PP fabric
- middle layer  
PP breathable film
- bottom layer  
non-woven PP fabric



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	112 g/m <sup>2</sup>	0.37 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0.4 mm	16 mil
Water vapour transmission (Sd)	EN 1931	0,03 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	101 US perm 5810 ng/(s·m <sup>2</sup> ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	250 / 165 N/50mm	29 / 19 lb/in
Elongation MD/CD	EN 12311-1	50 / 70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	115 / 135 N	26 / 30 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 264 kg/m <sup>3</sup>	approx. 0.15 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 50	approx. 0.15 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
Water column	ISO 811	> 280 cm	> 110 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	220 / 145 N/50mm	25 / 17 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 60 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
<b>T110</b>	TRASPIR 110	-	1,5	50	75	5	164	807	36
<b>T11030</b>	TRASPIR 110 3,0 m	-	3	50	150	10	164	1615	36

# TRASPIR EVO UV 115

HIGHLY BREATHABLE MONOLITHIC  
MEMBRANE RESISTANT TO UV RAYS



## SAFETY

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

### B-s1,d0

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

## PERMANENT UV STABILITY

Permanent resistance to UV rays with exposure with open joints up to 30 mm wide, and with up to 20% of the surface uncovered.



**MONOLITHIC**

## COMPOSITION

**top layer**  
highly UV-stable PP non-woven fabric

**bottom layer**  
breathable monolithic PU film

## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
TUV115	TRASPIR EVO UV 115	-	1,5	50	75	5	164	807	36



## UV STABILITY

The special monolithic compound ensures high UV stability even with open-joint façades.

## NON-FLAMMABLE

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

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	115 g/m <sup>2</sup>	0.38 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,3 mm	12 mil
Water vapour transmission (Sd)	EN 1931	0,08 m	43.706 US perm
Maximum tensile force MD/CD	EN 12311-1	150 / 110 N/50mm	17 / 13 lb/in
Elongation MD/CD	EN 12311-1	90 / 90 %	-
Resistance to nail tearing MD/CD	EN 12310-1	130 / 170 N	29 / 38 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class B-s1,d0	-
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 270	approx. 0.4 MNs/g
VOC content	-	0 %	-
UV resistance without final coating <sup>(1)</sup>	EN 13859-1/2	4 months	-
Weathering without final cladding <sup>(1)</sup>	-	8 weeks	-
UV stability with joints up to 30 mm wide exposing no more than 20% of the surface	EN 13859-2	permanent	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness at 100°C	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	> 98 / 72 N/50mm	> 11 / 8 lb/in
- elongation	EN 1297 / EN 12311-1	> 59 / 59 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



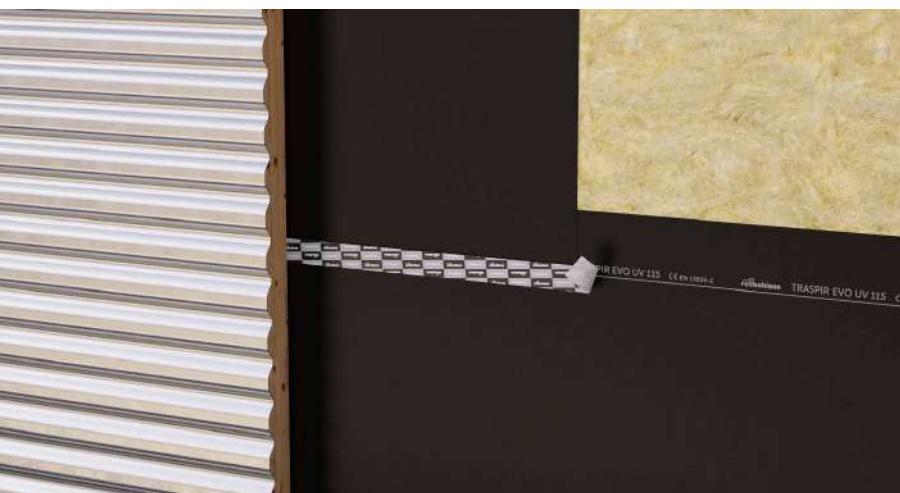
**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98



## INNOVATION

The membrane features an innovative technology that allows it to be used even on metal façades with high temperature fluctuations, without compromising its performance.

# TRASPIR ALU 120

HIGHLY BREATHABLE MEMBRANE

CE  
EN 13859-1/2



## COMPOSITION

top layer  
aluminium film

bottom layer  
PP breathable film

## TECHNICAL DATA

Properties	standard	value	value
Mass per unit area	EN 1849-2	120 g/m <sup>2</sup>	0.39 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	0,1 m	34.965 US perm
Maximum tensile force MD/CD	EN 12311-1	239 / 204 N/50mm	27 / 23 lb/in
Elongation MD/CD	EN 12311-1	94 / 126 %	-
Resistance to nail tearing MD/CD	EN 12310-1	187 / 232 N	42 / 52 lbf
Watertightness	EN 1928	class W2	-
Temperature resistance	-	-20 / 80 °C	-4 / 176 °F
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)	< 0.003 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 200 kg/m <sup>3</sup>	approx. 0.11 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 166	approx. 0,5 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	81 %	-
Equivalent thermal resistance with 50 mm air gap (ε <sub>other surface</sub> 0.025-0.88)	ISO 6946	R <sub>g,0.025</sub> : 0,804 (m <sup>2</sup> K)/W R <sub>g,0.88</sub> : 0,502 (m <sup>2</sup> K)/W	4.57 h·ft <sup>2</sup> ·°F/BTU 2.85 h·ft <sup>2</sup> ·°F/BTU
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W2	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	167 / 155 N/50mm	19 / 18 lb/in
- elongation	EN 1297 / EN 12311-1	56 / 75 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TALU120	TRASPIR ALU 120	-	1,5	50	75	5	164	807	26
TALU12030	TRASPIR ALU 120 3,0 m	-	3	100	300	10	328	3230	12



# TRASPIR 135

## HIGHLY BREATHABLE MEMBRANE



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	135 g/m <sup>2</sup>	0.44 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	280 / 190 N/50mm	32 / 22 lb/in
Elongation MD/CD	EN 12311-1	70 / 110 %	-
Resistance to nail tearing MD/CD	EN 12310-1	135 / 170 N	30 / 38 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Surface combustion characteristic	ASTM E84	class 1 or class A	-
Resistance to penetration of air	EN 12114	< 0,05 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.003 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 225 kg/m <sup>3</sup>	approx. 0.13 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 33	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	250 / 160 N/50mm	29 / 18 lb/in
- elongation	EN 1297 / EN 12311-1	50 / 50 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
<b>T135</b>	TRASPIR 135	-	1,5	50	75	5	164	807	28
<b>TTT135</b>	TRASPIR 135 TT	TT	1,5	50	75	5	164	807	28

## RECOMMENDATIONS FOR INSTALLATION: TRASPIR

APPLICATION ON WALL - EXTERNAL SIDE



**1** TRASPIR 95, TRASPIR 110, TRASPIR ALU 120, TRASPIR 135, TRASPIR 150, TRASPIR EVO 160, TRASPIR ALU FIRE A2 430

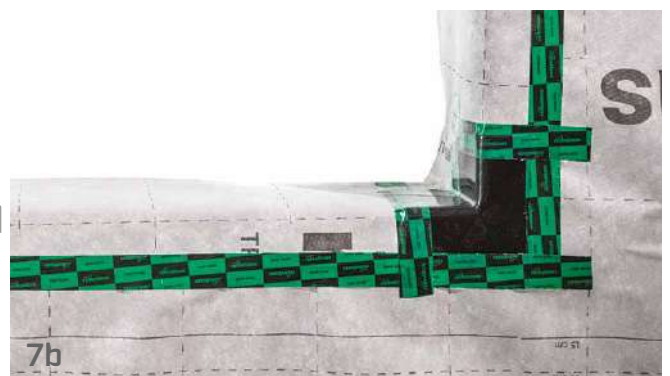
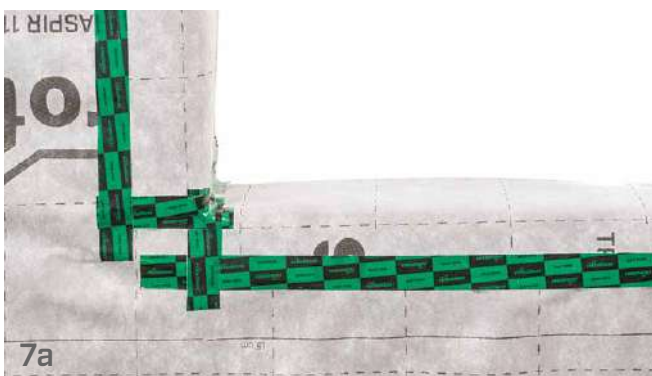
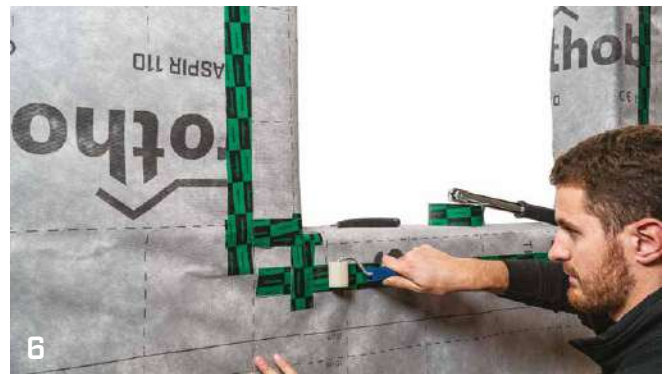
**2a** DOUBLE BAND, SUPRA BAND, BUTYL BAND  
OUTSIDE GLUE

**2b** ALU BAND, EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, FACADE BAND, SOLID BAND, PLASTER BAND



# RECOMMENDATIONS FOR INSTALLATION: TRASPIR

## APPLICATION ON WINDOW - EXTERNAL SIDE



1 TRASPIR 95, TRASPIR 110, TRASPIR SUNTEX 120, TRASPIR 135, TRASPIR 150, TRASPIR EVO 160, TRASPIR ALU FIRE A2 430

2 MARLIN, CUTTER

5 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

6 EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, FACADE BAND, SOLID BAND, SMART BAND, PLASTER BAND ROLLER

# TRASPIR 150

## HIGHLY BREATHABLE MEMBRANE



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	150 g/m <sup>2</sup>	0.49 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,7 mm	28 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	125 US perm 7115 ng/(s·m <sup>2</sup> ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	350 / 210 N/50mm	40 / 24 lb/in
Elongation MD/CD	EN 12311-1	100 / 125 %	-
Resistance to nail tearing MD/CD	EN 12310-1	190 / 225 N	43 / 51 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance		-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,04 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.002 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 215 kg/m <sup>3</sup>	approx. 0.12 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 40	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	310 / 180 N/50mm	35 / 21 lb/in
- elongation	EN 1297 / EN 12311-1	45 / 60 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
T150	TRASPIR 150	-	1,5	50	75	5	164	807	25
TTT150	TRASPIR 150 TT	TT	1,5	50	75	5	164	807	25
T15030	TRASPIR 150 3,0 m	-	3	50	150	10	164	1615	25



# TRASPIR NET 160

## HIGHLY BREATHABLE MEMBRANE



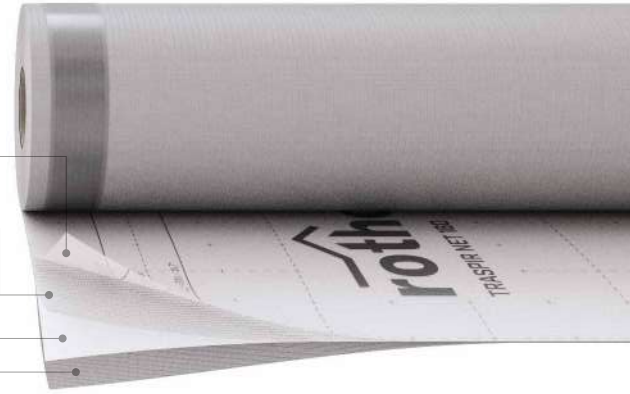
## COMPOSITION

top layer  
non-woven PP fabric

reinforcing layer  
reinforcing PP grid

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>	0.52 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,7 mm	28 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	420 / 420 N/50mm	48 / 48 lb/in
Elongation MD/CD	EN 12311-1	25 / 20 %	-
Resistance to nail tearing MD/CD	EN 12310-1	390 / 360 N	88 / 81 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,035 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.002 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,04 W/(m·K)	0.02 BTU/h·ft·°F
Specific heat	-	1568 J/(kg·K)	-
Density	-	approx. 230 kg/m <sup>3</sup>	approx. 0.13 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx 28	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	385 / 390 N/50mm	44 / 45 lb/in
- elongation	EN 1297 / EN 12311-1	20 / 15 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
<b>T160</b>	TRASPIR NET 160	-	1,5	50	75	5	164	807	25
<b>TTT160</b>	TRASPIR NET 160 TT	TT	1,5	50	75	5	164	807	25

# TRASPIR EVO 160

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE

### MONOLITHIC

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

### REACTION TO FIRE B-s1,d2

Self-extinguishing membrane which does not spread the flame in case of fire, contributing to the protection of the structure.

### HIGH UV STABILITY

It passed the artificial ageing test involving exposure to UV light for 1000 hours.



LCA



EPD



EN 13859-1/2



A  
Dnorm  
B4119  
UD Typ I



CH  
SIA 232  
UD (WU)



D  
ZVDH  
USB-A  
UDB-A



F  
DTU 31.2  
E1 Sd1 TR1  
E600 Jf C2



I  
UNI 11470  
B/R2



AUS  
AS/NZS  
4200.1  
Class 4



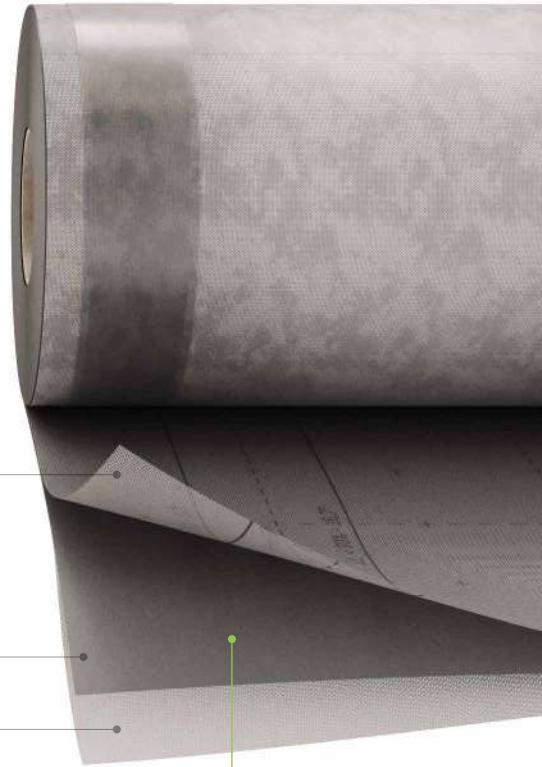
USA  
IRC  
vp



AS1530.2  
index 1



B-s1,d2



MONOLITHIC

## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
breathable monolithic TPE film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO160	TRASPIR EVO 160	-	1,5	50	75	5	164	807	30
TTTEVO160	TRASPIR EVO 160 TT	TT	1,5	50	75	5	164	807	30



### SECURE SEALING

The TT version offers fast installation and professional sealing thanks to the integrated double tape.

### HEAVY RAIN

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

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	160 g/m <sup>2</sup>	0.52 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd)	EN 1931	0,1 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	12.3 US perm 702 ng/(s·m <sup>2</sup> ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	280 / 220 N/50mm	32 / 25 lb/in
Elongation MD/CD	EN 12311-1	50 / 60 %	-
Resistance to nail tearing MD/CD	EN 12310-1	180 / 200 N	40 / 45 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class B-s1,d2	-
Flammability index	AS 1530.2	1	-
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 370 kg/m <sup>3</sup>	approx. 0.21 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 160	approx. 0,5 MNs/g
Joint strength	EN 12317-2	> 200 N/50mm	> 22.840589 lb/in
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	6 months	-
Exposure to weather <sup>(1)</sup>	-	6 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	260 / 200 N/50mm	30 / 23 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 50 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98

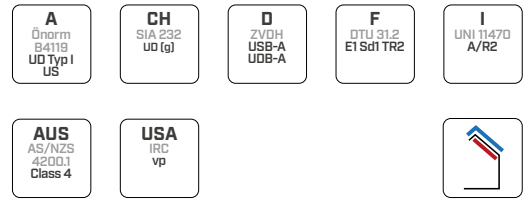


### MONOLITHIC FILM

The monolithic functional membrane guarantees breathability, thanks to a chemical reaction, rather than a micro perforation process as seen in microporous products. Therefore the continuous and homogeneous layer offers a complete barrier against the passage of water.

# TRASPIR 200

HIGHLY BREATHABLE MEMBRANE



## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,8 mm	31 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	360 / 270 N/50mm	41 / 31 lb/in
Elongation MD/CD	EN 12311-1	45 / 85 %	-
Resistance to nail tearing MD/CD	EN 12310-1	230 / 270 N	52 / 61 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,04 W/(m·K)	0.02 BTU/h·ft·°F
Specific heat	-	1568 J/(kg·K)	-
Density	-	approx. 250 kg/m <sup>3</sup>	approx. 0.14 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 25	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	4 weeks	-
Water column	ISO 811	> 280 cm	> 110.236224 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	330 / 250 N/50mm	38 / 29 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 70 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## CODES AND DIMENSIONS

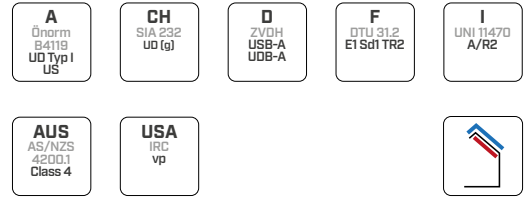
CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
T200	TRASPIR 200	-	1,5	50	75	5	164	807	25
TTT200	TRASPIR 200 TT	TT	1,5	50	75	5	164	807	25



# TRASPIR ALU 200



## REFLECTIVE HIGHLY BREATHABLE MEMBRANE



### COMPOSITION

- cladding  
perforated aluminium film

---

- reinforcing layer  
PL reinforcing grid

---

- top layer  
non-woven PP fabric

---

- middle layer  
PL breathable film

---

- bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,8 mm	31 mil
Water vapour transmission (Sd)	EN 1931	0,045 m	77.7 US perm
Maximum tensile force MD/CD	EN 12311-1	350 / 225 N/50mm	40 / 26 lb/in
Elongation MD/CD	EN 12311-1	30 / 70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	200 / 200 N	45 / 45 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft <sup>2</sup> ·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m <sup>3</sup>	approx. 0.17 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 60	approx. 0.22 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	95 %	-
Equivalent thermal resistance with 50mm air gap (ε <sub>other surface</sub> 0,025-0,88)	ISO 6946	R <sub>g,0.025</sub> : 0,821 (m <sup>2</sup> K)/W R <sub>g,0.88</sub> : 0,731 (m <sup>2</sup> K)/W	4.66 h·ft <sup>2</sup> ·°F/BTU 4.15 h·ft <sup>2</sup> ·°F/BTU
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	4 weeks	-
Water column	ISO 811	> 300 cm	> 118 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	330 / 175 N/50mm	38 / 20 lb/in
- elongation	EN 1297 / EN 12311-1	25 / 50 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TTTALU200	TRASPIR ALU 200 TT	TT	1,5	50	75	5	164	807	25

# TRASPIR EVO SEAL 200

HIGHLY BREATHABLE MONOLITHIC MEMBRANE, PERFORATION-PROOF



LCA



EPD



NAIL SEALING  
ONORM B3647



EN 13859-1/2  
ETA PENDING



A  
Onorm  
B4119  
UD Typ I



CH  
SIA 232  
UD (g)



D  
ZVDH  
USB-A  
UDB-A



F  
DTU 31.2  
E1 Sd1 TR2  
E600 Jf C2



I  
UNI T1470  
A/R3



AUS  
AS/NZS  
4200.1  
Class 4



USA  
IRC  
vp



## CERTIFIED

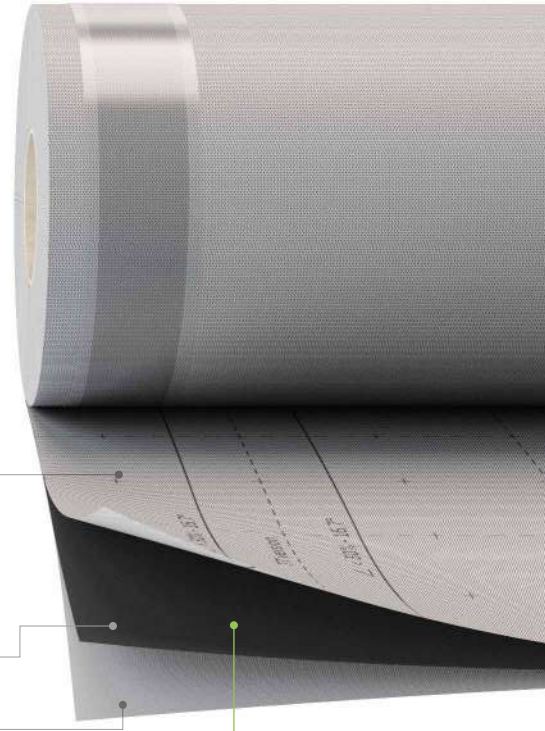
It has passed stringent tests to be classified as a screw, staple or nail puncture resistant membrane.

## TIME AND COST SAVING

The oversized TPU film ensures that the membrane remains waterproof even in the event of a screw or nail puncture without the need for additional products. This means that installation is quick and time-saving.

## AGEING RESISTANCE

The special functional film guarantees high durability and unaltered mechanical performance, ensuring protection and reliability.



MONOLITHIC


## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
breathable monolithic PU film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO200	TRASPIR EVO SEAL 200	-	1,5	50	75	5	164	807	25
TTTEVO200	TRASPIR EVO SEAL 200 TT	TT	1,5	50	75	5	164	807	25



## MONOLITHIC FILM TPU

The modified TPU film oversized in thickness compared to market standards resists drilling screws and nails and provides the superior performance of a monolithic product.

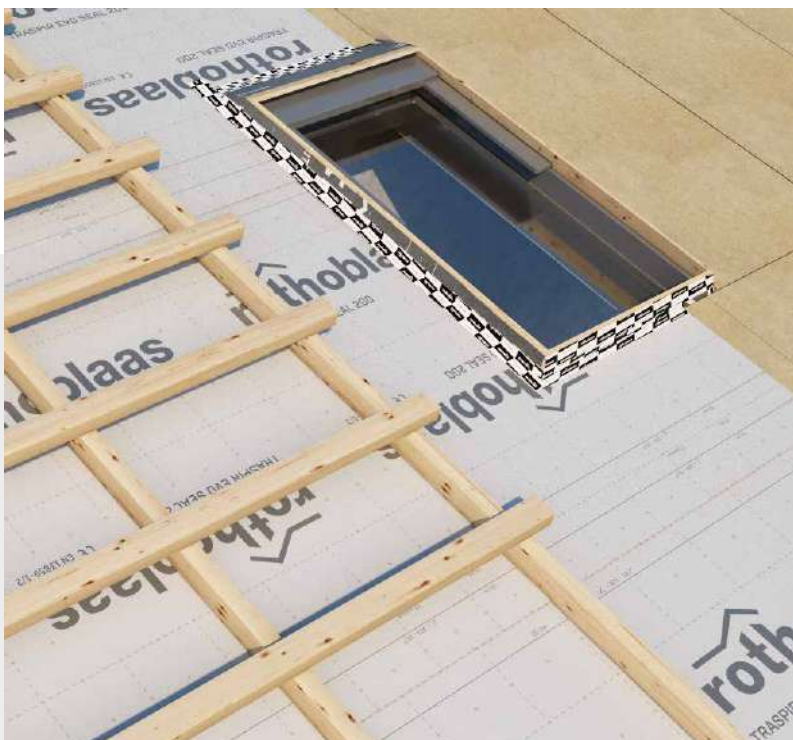
## SECURE

Tested to fulfil the function of a temporary roof for up to 12 weeks with full exposure to weather.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,7 mm	28 mil
Water vapour transmission (Sd)	EN 1931	0,08 m	4.371 US perm
Maximum tensile force MD/CD	EN 12311-1	300 / 220 N/50mm	34 / 25 lb/in
Elongation MD/CD	EN 12311-1	50 / 70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	260 / 340 N	58 / 76 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,04 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 285 kg/m <sup>3</sup>	approx. 0.16 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 114	0.4 MNs/g
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	6 months	-
Exposure to weather <sup>(1)</sup>	-	12 weeks	-
Water column	ISO 811	600 cm	236 in
After ageing:			
- watertightness at 100°C	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	270 / 200 N/50mm	31 / 23 lb/in
- elongation	EN 1297 / EN 12311-1	25 / 35 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-
Nail puncture test	ÖNORM B3647	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.



### ABRASION RESISTANT AND DURABLE

The special compound guarantees high weather resistance and excellent durability in all weather conditions, also thanks to the special protective layer.

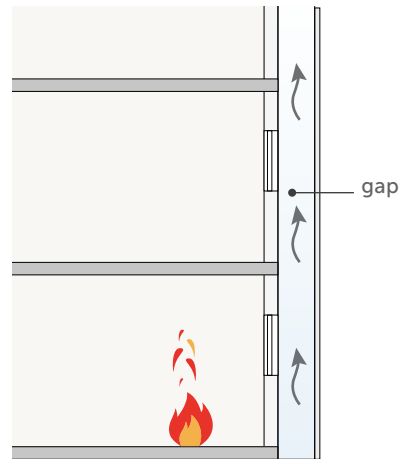
# VENTILATED FAÇADES AND FIRE

Fire safety issues affect all building types, as described in the introduction "Structures and fire behaviour" (p. 12). In order to minimise this type of risk, it is essential to rely on the right components and to carefully design them. Our ventilated façade solutions minimise risks by limiting the spread of flames in the event of an internal or external fire.

## FIRE SPREAD PHASES IN A VENTILATED FAÇADE

1.

In the event of a fire starting inside the building, the flames initially spread to the room where they started. Modern buildings with ventilated façades are designed to take full advantage of the chimney effect of the ventilated façade, to reap the benefits of the upward movement of air in the gap between the cladding and the insulating layer. It is precisely this phenomenon that can give rise to problems in the event of a fire.

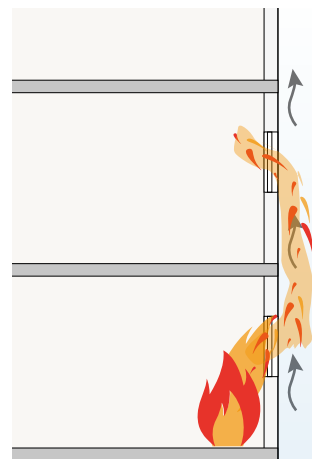


## CHIMNEY EFFECT

The chimney effect is a physical phenomenon, at the basis of how traditional chimneys work, taken up by the world of architecture to ensure that, by exploiting the upward movement of hot air generated inside ventilated façades, a continuous cycle is created and the housing comfort of the building is increased.

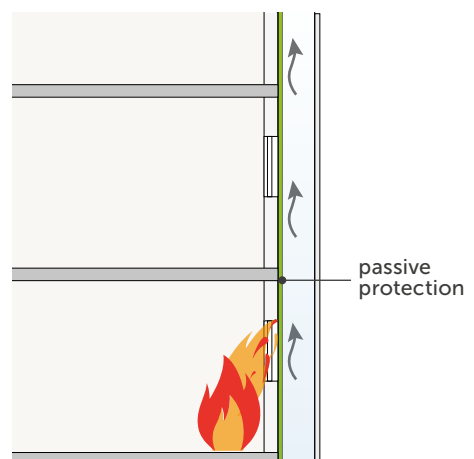
2.

In the event of a fire, the chimney effect of the ventilated façade could cause problems as it could direct the flames into the ventilation space, pushing them towards the upper floors of the building.



3.

Careful fire protection design includes active or passive protection devices within the design with the purpose to prevent the spread of any flames. Rothoblaas proposes the use of self-extinguishing membranes and tapes as a passive façade solution. If no preventive measures are taken, the combustion of materials could lead to flames on the upper floors. The same concepts also apply in the case of a fire developed outside the building.

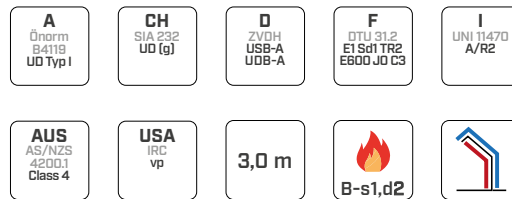




# TRASPIR FELT EVO UV 210

CE  
EN 13859-1/2

BREATHABLE MONOLITHIC MEMBRANE  
RESISTANT TO UV RAYS



## COMPOSITION

top layer  
breathable monolithic PU film

reinforcing layer  
PL fabric



MONOLITHIC

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	210 g/m <sup>2</sup>	0.69 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1 mm	39 mil
Water vapour transmission (Sd)	EN 1931	0,1 m	34.965 US perm
Maximum tensile force MD/CD	EN 12311-1	380 / 420 N/50mm	43 / 48 lb/in
Elongation MD/CD	EN 12311-1	40 / 55 %	-
Resistance to nail tearing MD/CD	EN 12310-1	220 / 210 N	49 / 47 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class B-s1,d2	-
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	1300 J/(kg·K)	-
Density	-	approx. 210 kg/m <sup>3</sup>	approx. 0.12 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 150	approx. 0,5 MNs/g
VOC content	-	0 %	-
UV resistance without final coating <sup>(1)</sup>	EN 13859-1/2	4 months	-
UV stability with joints up to 30 mm wide exposing no more than 30% of the surface <sup>(2)</sup>	EN 13859-1/2	permanent	-
Weathering without final cladding <sup>(1)</sup>	-	10 weeks	-
Water column	ISO 811	> 300 cm	> 118.11024 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	340 / 380 N/50mm	39 / 43 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 50 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.

<sup>(2)</sup>The membrane is not suitable for standing water for long periods.

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TUV210	TRASPIR FELT UV 210	-	1,5	50	75	5	164	807	16
TUV21030	TRASPIR FELT UV 210 3,0 m	-	3	50	150	10	164	1615	16

# TRASPIR EVO UV 210



## HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS

### MONOLITHIC

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

### B-s1,d0

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

### 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.



**MONOLITHIC**

## COMPOSITION

top layer  
monolithic breathable film

reinforcing layer  
PL fabric

## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
TTTUV210	TRASPIR EVO UV 210 TT	TT	1,5	50	75	5	164	807	24



### OPEN JOINTS FAÇADE

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

### EASY INSTALLATION

The polyethylene reinforcing layer gives a solid structure to the membrane, avoiding swelling during installation, and making the placing easier.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	210 g/m <sup>2</sup>	0.69 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,3 mm	12 mil
Water vapour transmission (Sd)	EN 1931	0,04 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	41.7 US perm 2380 ng/(s·m <sup>2</sup> ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	300 / 200 N/50mm	34 / 23 lb/in
Elongation MD/CD	EN 12311-1	25 / 25 %	-
Resistance to nail tearing MD/CD	EN 12310-1	120 / 120 N	27 / 27 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 120 °C	-4 / 248 °F
Reaction to fire	EN 13501-1	class B-s1,d0	-
Surface combustion characteristic	ASTM E84	class 1 or class A	-
Resistance to penetration of air	EN 12114	< 0,03 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.002 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 600 kg/m <sup>3</sup>	approx. 0.35 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 130	approx. 0.2 MNs/g
VOC content	-	0 %	-
UV resistance without final coating <sup>(1)</sup>	EN 13859-1/2	6 months	-
UV stability with joints up to 50 mm wide exposing no more than 40% of the surface <sup>(2)</sup>	EN 13859-1/2	permanent	-
Weathering without final cladding <sup>(1)</sup>	-	12 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	290 / 190 N/50mm	33 / 22 lb/in
- elongation	EN 1297 / EN 12311-1	20 / 20 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.

<sup>(2)</sup>The membrane is not suitable for standing water for long periods.

## FIRE PROTECTION



FIRE SEALING  
page 122 -124



FIRE FOAM  
page 118



FIRE STRIPE  
page 130



FRONT BAND UV 210  
page 98



### EXCELLENT AESTHETIC PERFORMANCE

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

# RECOMMENDATIONS FOR INSTALLATION: TRASPIR UV

## APPLICATION ON WALL - MEMBRANE WITH DOUBLE TAPE



## APPLICATION ON WALL - MEMBRANE WITHOUT DOUBLE TAPE



3 DOUBLE BAND, FACADE BAND, FRONT BAND UV



## RECOMMENDATIONS FOR INSTALLATION: TRASPIR UV

### APPLICATION ON WINDOW - EXTERNAL SIDE



1 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

2 MARLIN, CUTTER

6 FACADE BAND, FRONT BAND UV

7a ALPHA

7a PLASTER BAND OUT

# TRASPIR EVO 220

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE



### MONOLITHIC

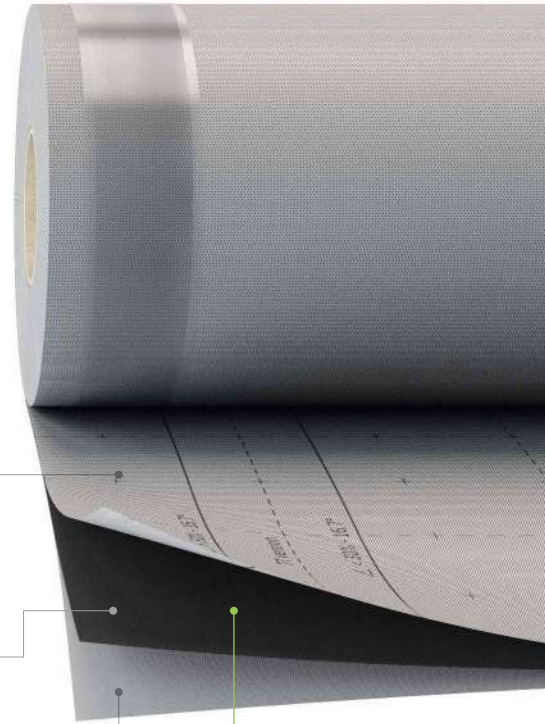
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

### 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.



**MONOLITHIC**

## COMPOSITION

top layer  
non-woven PP fabric

middle layer  
breathable monolithic TPE film

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO220	TRASPIR EVO 220	-	1,5	50	75	5	164	807	20
TTTEVO220	TRASPIR EVO 220 TT	TT	1,5	50	75	5	164	807	20



### RELIABILITY

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

### SAFETY

During construction, the monolithic film of the membrane guarantees excellent durability, even when exposed to UV rays

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	220 g/m <sup>2</sup>	0.72 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1 mm	39 mil
Water vapour transmission (Sd)	EN 1931	0,2 m	17.483 US perm
Maximum tensile force MD/CD	EN 12311-1	385 / 315 N/50mm	44 / 36 lb/in
Elongation MD/CD	EN 12311-1	65 / 80 %	-
Resistance to nail tearing MD/CD	EN 12310-1	345 / 425 N	78 / 96 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 220 kg/m <sup>3</sup>	approx. 0.13 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 80	approx. 1 MNs/g
Joint strength	EN 12317-2	> 250 N/50mm	> 28.5 lb/in
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	4 months	-
Exposure to weather <sup>(1)</sup>	-	8 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness at 100°C	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	365 / 270 N/50mm	42 / 31 lb/in
- elongation	EN 1297 / EN 12311-1	47 / 51 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

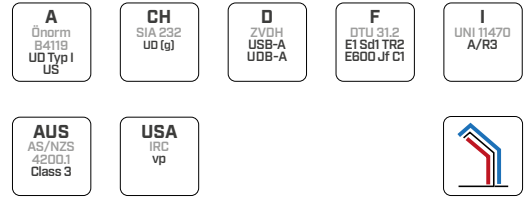


### HIGH MASS PER UNIT AREA

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.

# TRASPIR ADHESIVE 260

## HIGHLY BREATHABLE SELF-ADHESIVE MEMBRANE



### SELF-ADHESIVE

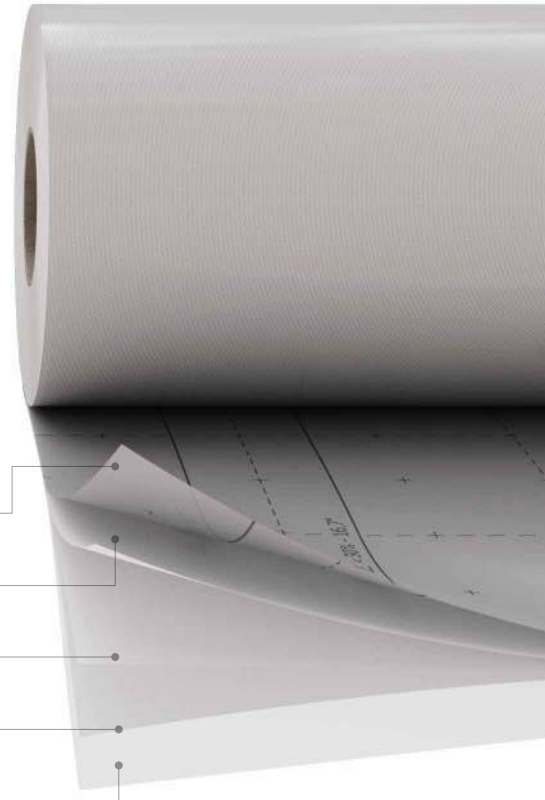
Thanks to the new generation glue, the membrane ensures good adhesion even on rough OSB.

### SECURE SEALING

The adhesive surface prevents the formation of airflow behind the membrane in case of accidental breakage or failure to seal.

### BREATHABLE

Thanks to the patented glue, the membrane remains perfectly breathable even when fully bonded.



## COMPOSITION

**top layer**  
non-woven PP fabric

**middle layer**  
PP breathable film

**bottom layer**  
non-woven PP fabric

**glue**  
acrylate dispersion without solvents

**release liner**  
removable plastic film

## CODES AND DIMENSIONS

CODE	description	liner	H	L	A	H	L	A	
		[mm]	[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TA260	TRASPIR ADHESIVE 260	725 / 725	1,45	50	72,5	5	164	780	16
TAS260	TRASPIR ADHESIVE 260 STRIPE	180 / 180	0,36	50	18	1.18	164	194	-



### FAST INSTALLATION

The fully self-adhesive surface of the membrane allows fast and safe installation without compromising performance.

### CONSTRUCTION SITE

During construction, it is essential to protect the structure, especially if it remains visible once the building is completed: TRASPIR ADHESIVE 260 offers excellent protection.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	260 g/m <sup>2</sup>	0.85 oz/ft <sup>2</sup>
Thickness	EN 1849-2	approx. 0,6 mm	approx. 24 mil
Water vapour transmission (Sd)	EN 1931	0,22 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	-	16.5 US perm
Maximum tensile force MD/CD	EN 12311-1	315 / 250 N/50mm	36 / 29 lb/in
Elongation MD/CD	EN 12311-1	61 / 66 %	-
Resistance to nail tearing MD/CD	EN 12310-1	255 / 260 N	57 / 58 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-30 / 80 °C	-22 / 176 °F
Resistance to penetration of air	EN 12114	0 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	433 kg/m <sup>3</sup>	approx. 0.25 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 366	approx. 1.1 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	4 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	295 / 225 N/50mm	34 / 26 lb/in
- elongation	EN 1297 / EN 12311-1	45 / 47 %	-
Adhesion strength on steel at 180°	EN 12316-2	12,5 N/cm	7.1 lb/in
180° adhesion force on proper support	EN 12316-2	8,5 N/cm	5 lb/in
Joint strength	EN 12317-2	132 N/50mm	15 lb/in
Solvents	-	no	-
Storage temperature	-	5 / 25 °C	41/77 °F
Application temperature	-	-5 / 35 °C	23 / 95 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Available in different configurations on request. It is possible to customise the mass per unit area of the membrane, the amount of acrylic glue, the size and the pre-cut of the liner.



## SPECIAL GLUE

The acrylic dispersion glue has a specific formulation to ensure breathability and does not alter the functions of the functional film inside the membrane.

## RECOMMENDATIONS FOR INSTALLATION

### APPLICATION ON CEILING



### SEALING FASTENING SYSTEMS



1 SPEEDY BAND 300, FLEXI BAND, PLASTER BAND

2 PROTECT, BYTUM BAND  
PRIMER SPRAY, PRIMER



## RECOMMENDATIONS FOR INSTALLATION

### APPLICATION AT A HOLE



1 MARLIN, CUTTER

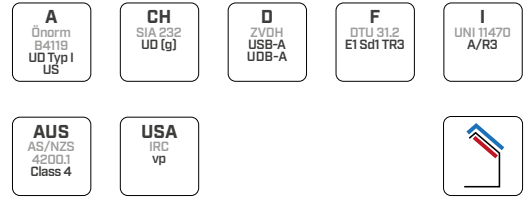
### APPLICATION ON WALL



# TRASPIR DOUBLE NET 270



## HIGHLY BREATHABLE MEMBRANE



### DOUBLE REINFORCEMENT GRIDS

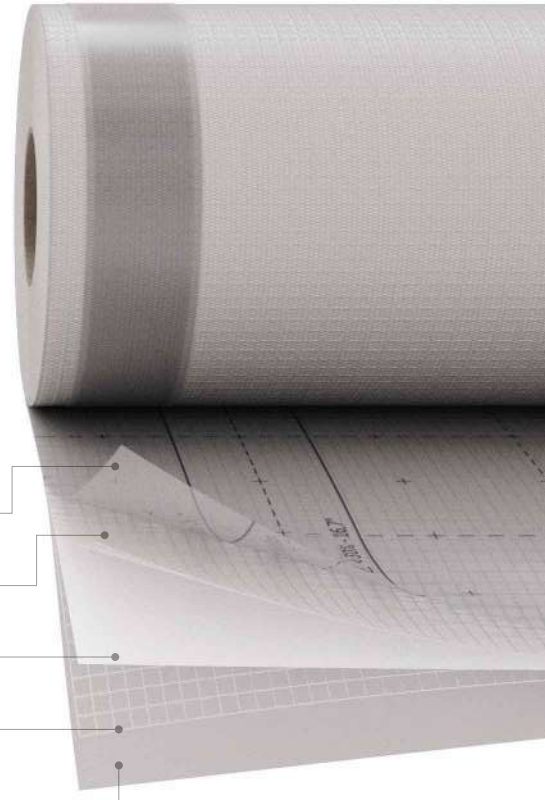
Thanks to its composition, the membrane is not affected by mechanical stress or by staples and nails.

### ANTISLIP

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

### SAFETY

The high mass per unit offers good water resistance even during construction.



## COMPOSITION

top layer  
non-woven PP fabric

reinforcing layer  
reinforcing PP grid

middle layer  
PP breathable film

reinforcing layer  
reinforcing PP grid

bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
T270	TRASPIR DOUBLE NET 270	-	1,5	50	75	5	164	807	16
TTT270	TRASPIR DOUBLE NET 270 TT	TT	1,5	50	75	5	164	807	16



### QUICK SEALING

The TT version offers fast installation and professional sealing thanks to the integrated double tape.

### FLEXIBILITY

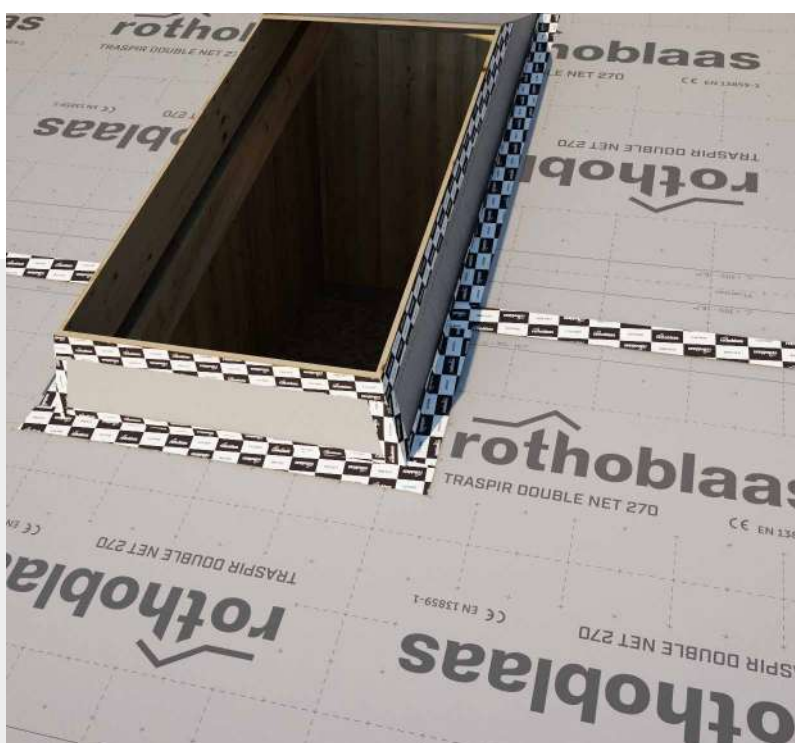
Although the membrane is very thick and resistant, its composition ensures great flexibility in processing without the risk of material wear.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	270 g/m <sup>2</sup>	0.88 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1 mm	39 mil
Water vapour transmission (Sd)	EN 1931	0,035 m	99.9 US perm
Maximum tensile force MD/CD	EN 12311-1	650 / 800 N/50mm	74 / 91 lb/in
Elongation MD/CD	EN 12311-1	40 / 60 %	-
Resistance to nail tearing MD/CD	EN 12310-1	750 / 550 N	169 / 124 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 260 kg/m <sup>3</sup>	approx. 0.16 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 35	approx. 0.175 MNs/g
Joint strength	EN 12317-2	> 550 N/50mm	> 63 lb/in
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	4 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	620 / 770 N/50mm	71 / 88 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 55 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.



### MECHANICAL STRENGTH

The double reinforcing grid ensures maximum safety even during construction and in the event of high mechanical stresses.

# TRASPIR EVO 300

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE

### MONOLITHIC

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

### 9 MONTHS UV STABILITY

9 months resistance to UV rays with full exposure to radiation and no protection. Heat-resistant up to 120 °C.

### EXCEPTIONAL TEMPERATURE RESISTANCE

It passed the artificial ageing test involving exposure to UV light for 5000 hours. Heat-resistant up to 120 °C.



**MONOLITHIC**

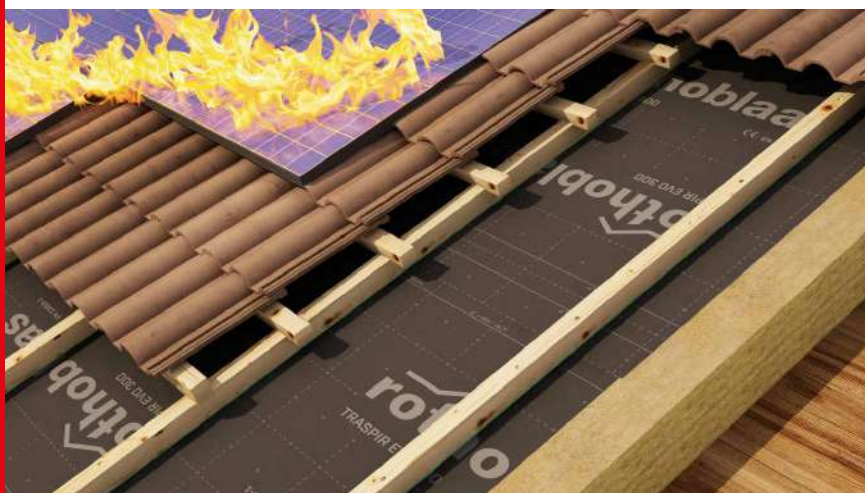
## COMPOSITION

top layer  
breathable monolithic acrylate film

middle layer  
PL fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO300	TRASPIR EVO 300	-	1,5	50	75	5	164	807	24
TTTEVO300	TRASPIR EVO 300 TT	TT	1,5	50	75	5	164	807	24



### RELIABLE

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

### SELF-EXTINGUISHING B-s1,d0

The special modified acrylic compound coupled with the polyester fabric makes the product self-extinguishing with fire reaction class B-s1,d0.

## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	300 g/m <sup>2</sup>	0.98 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd)	EN 1931	0,04 m	87.413 US perm
Maximum tensile force MD/CD	EN 12311-1	380 / 250 N/50mm	43 / 29 lb/in
Elongation MD/CD	EN 12311-1	25 / 25 %	-
Resistance to nail tearing MD/CD	EN 12310-1	160 / 190 N	36 / 43 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 120 °C	-40 / 248 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 600 kg/m <sup>3</sup>	approx. 0.35 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 80	approx. 0.2 MNs/g
Joint strength	EN 12317-2	> 280 N/50mm	> 32 lb/in
VOC content	-	0 %	-
UV resistance without final coating <sup>(1)</sup>	EN 13859-1/2	9 months	-
UV stability with joints up to 50 mm wide exposing no more than 40% of the surface <sup>(2)</sup>	EN 13859-1/2	permanent	-
Weathering without final cladding <sup>(1)</sup>	-	16 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	370 / 240 N/50mm	42 / 27 lb/in
- elongation	EN 1297 / EN 12311-1	23 / 23 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-

<sup>(1)</sup>Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.

<sup>(2)</sup>The membrane is not suitable for standing water for long periods.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98



## 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.

# TRASPIR DOUBLE EVO 340

## MONOLITHIC AND MICROPOROUS BREATHABLE MEMBRANE



### MONOLITHIC

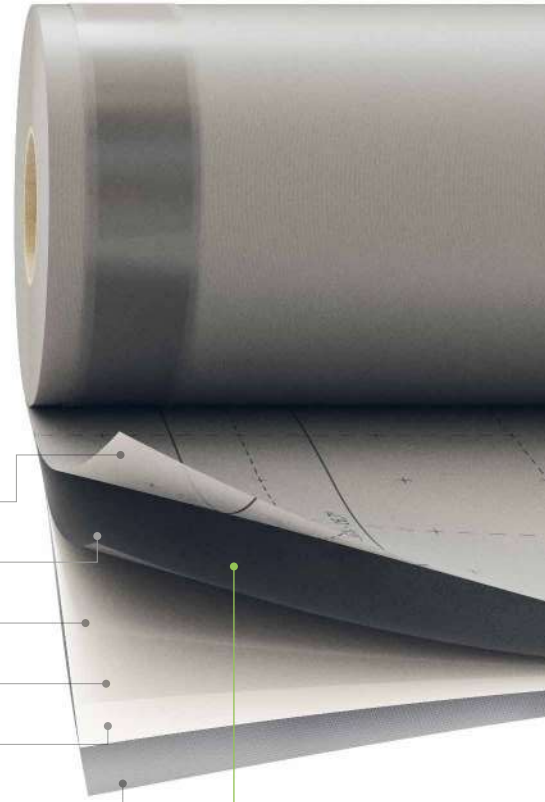
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

### LOW PITCHES

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

### DOUBLE PROTECTION

Double functional membrane for double watertightness and weather protection.



**MONOLITHIC**

## COMPOSITION

- top layer  
non-woven PP fabric
- middle layer  
breathable monolithic TPE film
- middle layer  
non-woven PP fabric
- middle layer  
non-woven PP fabric
- middle layer  
PP breathable film
- bottom layer  
non-woven PP fabric

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO340	TRASPIR DOUBLE EVO 340	-	1,5	25	37,5	5	82	404	20
TTTEVO340	TRASPIR DOUBLE EVO 340 TT	TT	1,5	25	37,5	5	82	404	20



### RELIABLE

High mass per unit area guarantees excellent protection even during construction.

### SAFETY

The double protection provided by the two functional films ensures superior watertightness.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	340 g/m <sup>2</sup>	1.11 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1,2 mm	47 mil
Water vapour transmission (Sd)	EN 1931	0,19 m	18.403 US perm
Maximum tensile force MD/CD	EN 12311-1	605 / 455 N/50mm	69 / 52 lb/in
Elongation MD/CD	EN 12311-1	65 / 80 %	-
Resistance to nail tearing MD/CD	EN 12310-1	415 / 500 N	93 / 112 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
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)	< 0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,04 W/(m·K)	0.02 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 284 kg/m <sup>3</sup>	approx. 0.16 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 160	approx. 0.95 MNs/g
Joint strength	EN 12317-2	> 250 N/50mm	> 28.5 lb/in
VOC content	-	0 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	4 months	-
Exposure to weather <sup>(1)</sup>	-	8 weeks	-
Water column	ISO 811	> 600 cm	> 236 in
After ageing:			
- watertightness at 100°C	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	550 / 400 N/50mm	63 / 46 lb/in
- elongation	EN 1297 / EN 12311-1	37 / 51 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## RELATED PRODUCTS



**SOLID BAND**  
page 78



**GEMINI**  
page 126



**LIZARD**  
page 325

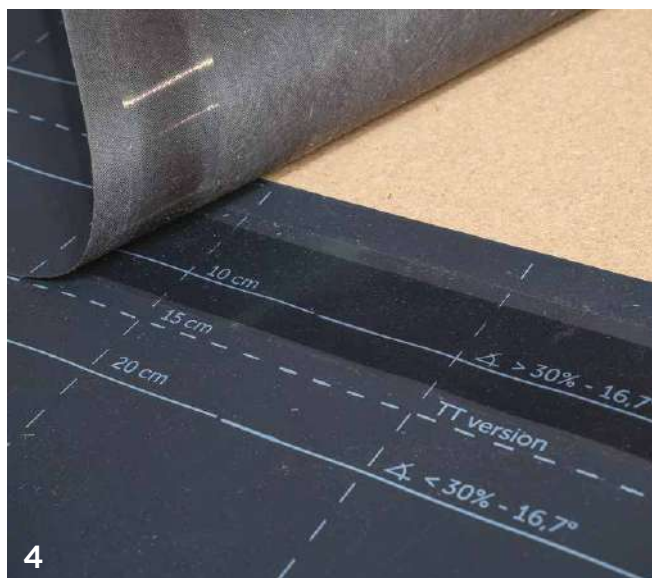


### HIGH PERFORMANCE

The high mass per unit area and the double functional layer guarantee high protection and abrasion resistance. The monolithic membrane meets the most strict requirements of the various national regulations, classifying it as a very high performance product.

# RECOMMENDATIONS FOR INSTALLATION: TRASPIR

## APPLICATION ON ROOF - EXTERNAL SIDE



**1** TRASPIR 150, TRASPIR NET 160, TRASPIR EVO 160, TRASPIR 200, TRASPIR ALU 200, TRASPIR FELT UV 210, TRASPIR EVO 220, TRASPIR DOUBLE NET 270, TRASPIR EVO 300, TRASPIR DOUBLE EVO 340, TRASPIR ALU FIRE A2 430

**2** HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

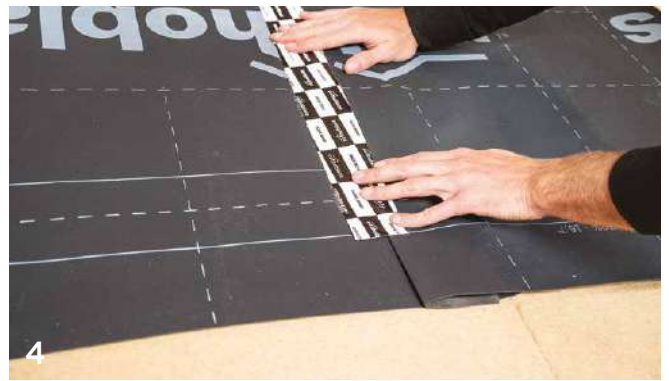
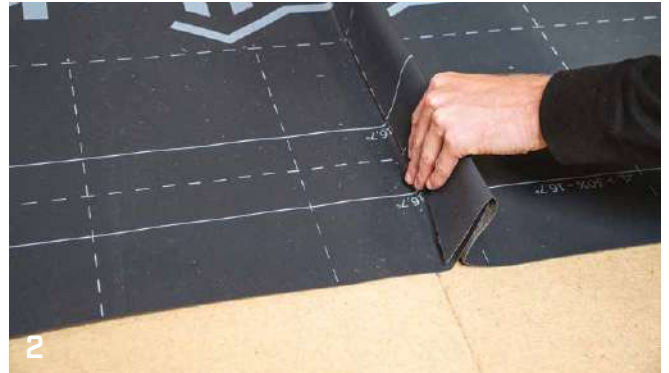
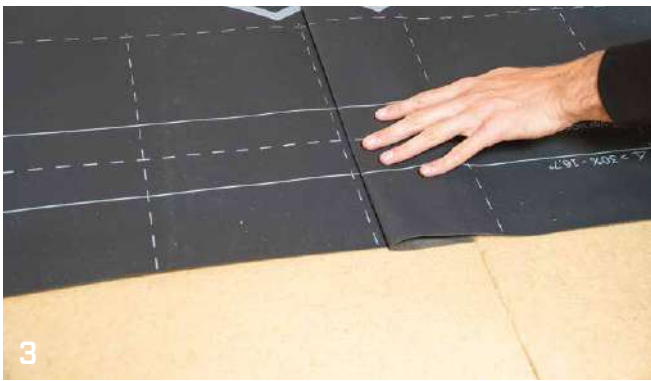
**5b** EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND ROLLER

**5c** DOUBLE BAND, SUPRA BAND, BUTYL BAND OUTSIDE GLUE



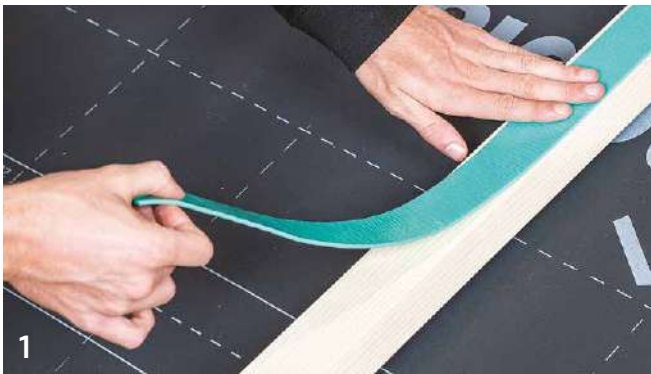
## RECOMMENDATIONS FOR INSTALLATION: ROOF

### TRANSVERSAL HEAD OVERLAPPING SEALING



4 EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND

### SEALING FASTENING SYSTEMS



1 GEMINI



1 NAIL PLASTER, NAIL BAND



# TRASPIR WELD EVO 360

## WELDABLE MONOLITHIC BREATHABLE MEMBRANE



LCA

EPD

EN 13859-1



### MONOLITHIC

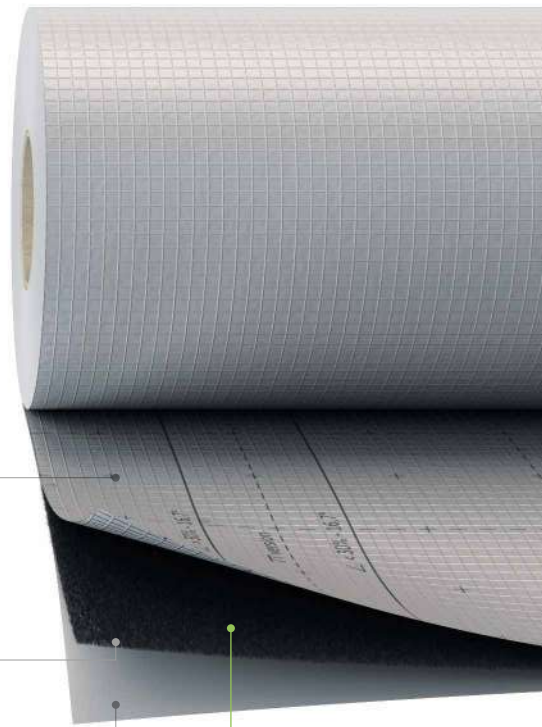
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

### DOUBLE PROTECTION

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

### LOW PITCHES

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



## COMPOSITION


top layer  
breathable monolithic PU film

middle layer  
PL fabric

bottom layer  
breathable monolithic PU film

MONOLITHIC

## CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
TEVO360	TRASPIR WELD EVO 360	-	1,5	25	37,5	5	82	404	24
TEVO36030	TRASPIR WELD EVO 360 3,0 m	-	3	25	75	10	82	807	24



### COMPLETE SYSTEM

Waterproofing with TRASPIR WELD EVO 360 means creating a safe, effective and complete system with sleeves and sealing of the battens by sealing.

### FUNCTIONAL FILM SEALING

The membrane allows the two functional TPU films to be sealed together on the outer edges to prevent humidity absorption.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	360 g/m <sup>2</sup>	1.18 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1 mm	39 mil
Water vapour transmission (Sd)	EN 1931	0,2 m	17.483 US perm
Maximum tensile force MD/CD	EN 12311-1	420 / 490 N/50mm	48 / 56 lb/in
Elongation MD/CD	EN 12311-1	50 / 65 %	-
Resistance to nail tearing MD/CD	EN 12310-1	310 / 280 N	70 / 63 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 360 kg/m <sup>3</sup>	approx. 0.21 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 200	approx. 1 MNs/g
Joint strength	EN 12317-2	> 490 N/50mm	> 56 lb/in
UV stability <sup>(1)</sup>	EN 13859-1/2	6 months	-
Exposure to weather <sup>(1)</sup>	-	12 weeks	-
Water column	ISO 811	> 300 cm	> 118 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	400 / 470 N/50mm	46 / 54 lb/in
- elongation	EN 1297 / EN 12311-1	50 / 65 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Driving rain test	TU Berlin	passed	-
WELD LIQUID application temperature	-	10 / 25 °C	-
WELD LIQUID yield	-	approx. 150/180 m <sup>2</sup> /L	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## RELATED PRODUCTS



**WELDING BOTTLE BRUSH**  
WELDBOTBRUSH  
content: 0,5 L  
pcs/pckg 1



**WELDING BRUSH**  
WELDBRUSH  
sizes: 4 cm  
pcs/pckg 1



**WELDING LIQUID**  
WELDLIQUID  
content: 1,0 L  
pcs/pckg 1



**WELDING STRIPE**  
WELDSTRIFE300  
sizes: 0,30 x 20 m  
pcs/pckg 5



**WELDING PIPE SLEEVE**  
WELDPIPE  
diameter: 80 -125 mm  
pcs/pckg 4



**MANICA FLEX - TPU**  
MANFTPU300  
MANFTPU430

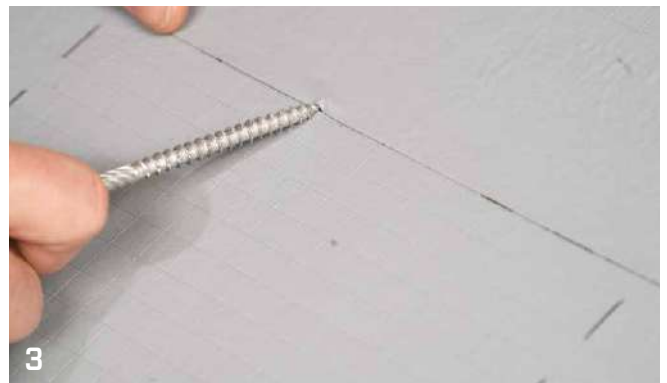
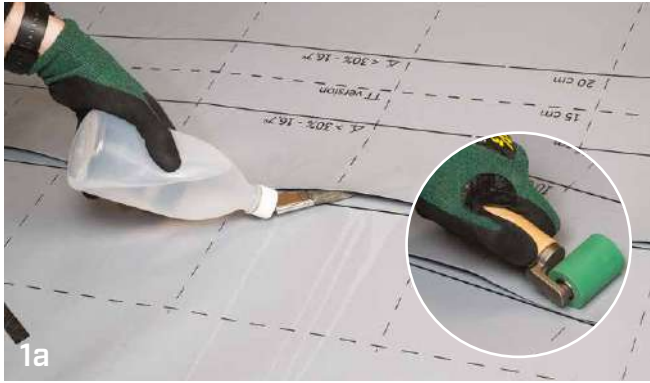


## HOT WELDING AND CHEMICAL WELDING

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.

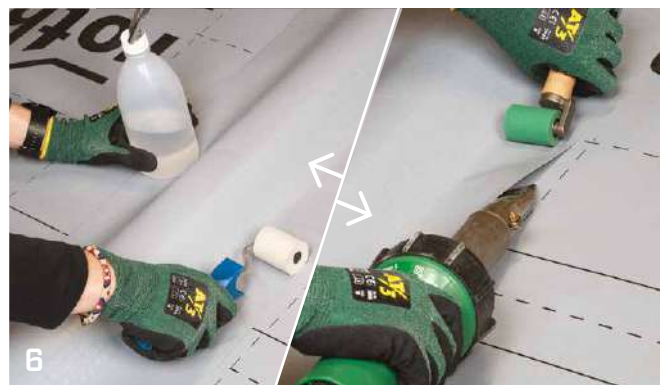
## RECOMMENDATIONS FOR INSTALLATION

### SEALING OF MEMBRANE



1 WELDBOTHBRUSH, WELDBRUSH, WELDLIQUID

### SOLUTION A: SEALING BATTEN WITH WELD STRIPE



5 WELDSTRIPE300

6 WELDBOTHBRUSH, WELDBRUSH, WELDLIQUID

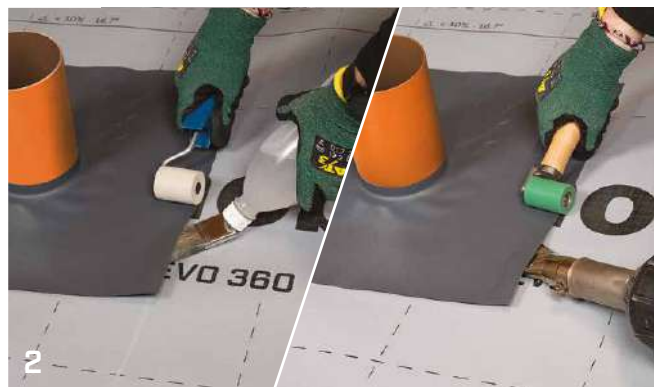
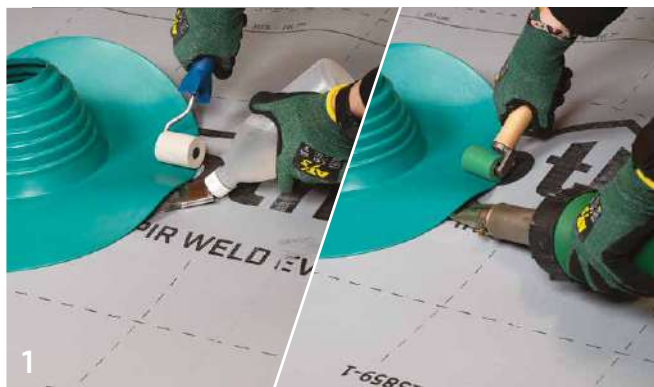
### SOLUTION B: SEALING BATTEN WITH NAIL POINT TAPE



7 NAIL PLASTER

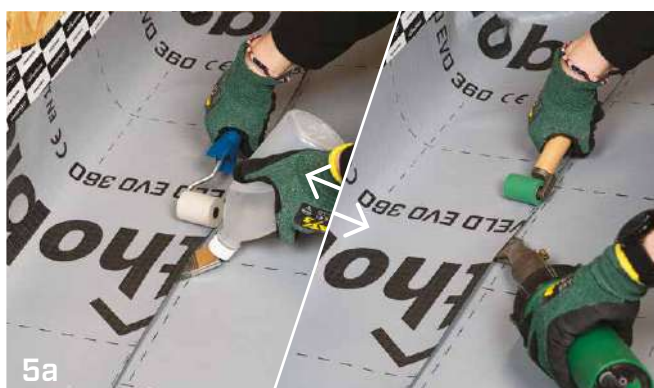
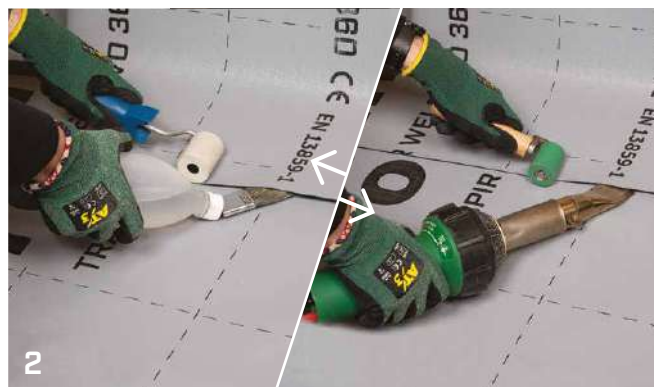


## SLEEVE SEALING



2 MANFTPU300, MANFTPU430  
WELOBOTHBRUSH, WELDRUSH, WELDLIQUID

## CHIMNEY SEALING



2 WELOBOTHBRUSH, WELDRUSH, WELDLIQUID

3 EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND

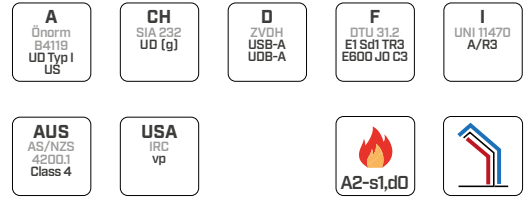
5a WELOBOTHBRUSH, WELDRUSH, WELDLIQUID

5b EASY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND

# TRASPIR ALU FIRE A2 430

CE  
EN 13859-1/2

## REFLECTIVE HIGHLY BREATHABLE MEMBRANE



### NON-COMBUSTIBLE A2-s1,d0

Membrane tested according to EN 13501-1 and classified as non-combustible material.

### REFLECTIVE

Thanks to its ability to reflect up to 95% of the heat, it improves the thermal performance of the construction panels.

### HIGH MASS PER UNIT

With a value of 430 g/m<sup>2</sup>, it is an extremely robust, thermally stable and stress-resistant product during installation.




## COMPOSITION

protection layer  
perforated aluminium film

middle layer  
PE functional film

bottom layer  
fibreglass fabric

## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
TALUFIRE430	TRASPIR AUL FIRE A2 430	-	1,2	50	60	4	164	646	24



### UV STABILITY

The special modified mix ensures high UV stability even if left exposed on site or if there are cracks or open joints in the claddings.

### SAFETY

As it is a non-combustible membrane, it can also be applied in combination with photovoltaic systems or at electrical voltage points.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	430 g/m <sup>2</sup>	1.41 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,43 mm	17 mil
Water vapour transmission (Sd)	EN 1931	0,08 m	43.706 US perm
Maximum tensile force MD/CD	EN 12311-1	3000 / 3200 N/50mm	343 / 365 lb/in
Elongation MD/CD	EN 12311-1	6 / 5 %	-
Resistance to nail tearing MD/CD	EN 12310-1	580 / 450 N	130 / 101 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class A2-s1,d0	-
Resistance to penetration of air	EN 12114	> 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	> 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,0007 W/(m·K)	0 BTU/h·ft·°F
Specific heat	-	800 J/(kg·K)	-
Density	-	1000 kg/m <sup>3</sup>	approx. 0.58 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 185	approx. 0.4 MNs/g
VOC content	-	0 %	-
Reflectivity	EN 15976	95 %	-
Equivalent thermal resistance with 50mm air gap (ε <sub>other surface</sub> 0,025-0,88)	ISO 6946	R <sub>g,0,025</sub> : 0,821 (m <sup>2</sup> K)/W R <sub>g,0,88</sub> : 0,731 (m <sup>2</sup> K)/W	4.66 h·ft <sup>2</sup> ·°F/BTU 4.15 h·ft <sup>2</sup> ·°F/BTU
UV resistance without final coating <sup>(1)</sup>	EN 13859-1/2	9 months	-
UV stability with joints up to 60 mm wide exposing no more than 60 % of the surface	EN 13859-1/2	permanent	-
Weathering without final cladding <sup>(1)</sup>	-	16 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	3000 / 3200 N/50mm	343 / 365 lb/in
- elongation	EN 1297 / EN 12311-1	6 / 5 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

## FIRE PROTECTION



**FIRE SEALING**  
page 122 -124



**FIRE FOAM**  
page 118



**FIRE STRIPE**  
page 130



**FRONT BAND UV 210**  
page 98



## MECHANICAL STRENGTH

The combination of aluminium cladding and glass fibre reinforcement ensures high mechanical performance.

# TRASPIR METAL

## 3D MATS FOR METAL ROOFS



### CERTIFIED NOISE REDUCTION

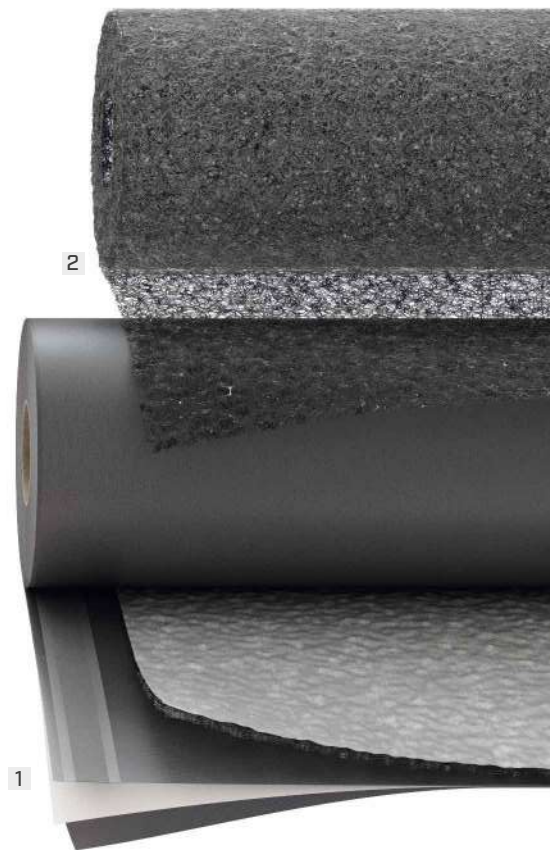
The 3D mats guarantee reduction of airborne and heavy rain noises. Values tested and certified.

### 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.



## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
1 TTTMET610	TRASPIR 3D COAT TT	TT	1,35	33	44,55	4.43	108.27	479.54	4
2 NET350	NET 350	-	1,25	50	62,5	4.11	164	672.75	4



### SAFE VENTILATION

The breathable membrane TRASPIR 3D COAT comes with a 3D grid and a protective felt on the surface, that prevents the entry of impurities and improves ventilation.

### VERSATILE

Also ideal in combination with BYTUM or TRASPIR to create a micro-ventilation layer in both wall and roof installations.



## RECOMMENDATIONS FOR INSTALLATION

### TRASPIR 3D COAT



1 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

### 3D NET



### CHIMNEY DETAIL WITH TRASPIR 3D COAT



1 MARLIN, CUTTER

2 TRASPIR NET 160, TRASPIR EVO 160, TRASPIR 200, TRASPIR EVO SEAL 200, TRASPIR EVO 220, TRASPIR ADHESIVE 260, TRASPIR DOUBLE NET 260, TRASPIR EVO 300, TRASPIR DOUBLE EVO 340

3 ROLLER

4 EASY BAND, FLEXI BAND, FLEXI BAND UV, FACADE BAND, PLASTER BAND

# TRASPIR 3D COAT TT

## COMPOSITION

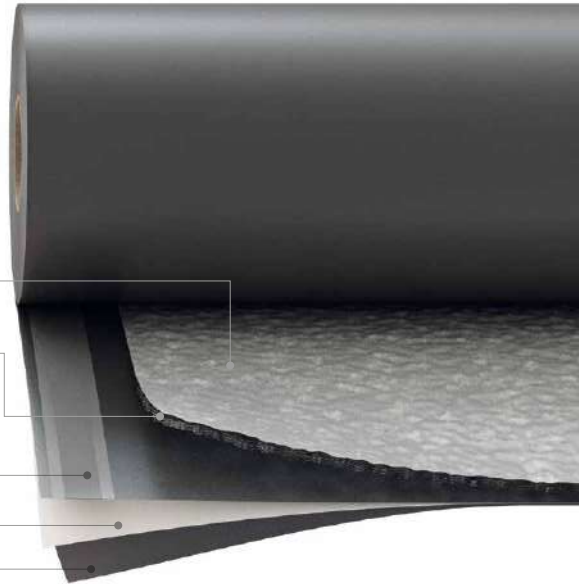
protection layer  
non-woven PP fabric

middle layer  
3-dimensional PP mat

protection layer  
non-woven PP fabric

middle layer  
PP breathable film

bottom layer  
non-woven PP fabric



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	610 g/m <sup>2</sup>	1.2 oz/ft <sup>2</sup>
Thickness	EN 1849-2	8 mm	315 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	325 / 225 N/50mm	37 / 26 lb/in
Elongation MD/CD	EN 12311-1	45 / 70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	185 / 195 N	42 / 44 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-30 / 80 °C	-22 / 176 °F
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)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0,17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 65 kg/m <sup>3</sup>	approx. 0.04 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 33	approx. 0.1 MNs/g
VOC content	-	< 0,02 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98.4252 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	285 / 195 N/50mm	33 / 22 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 30 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Void ratio	-	95 %	-
Variation of the sound reduction index ΔR <sub>w</sub>	ISO 10140-2 / ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise ΔL <sub>iA</sub>	ISO 140-18	approx. 4 dB	-
Impact sound attenuation index ΔL <sub>w</sub>	ISO 140-8	28 dB	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.



## 3D NET

### COMPOSITION

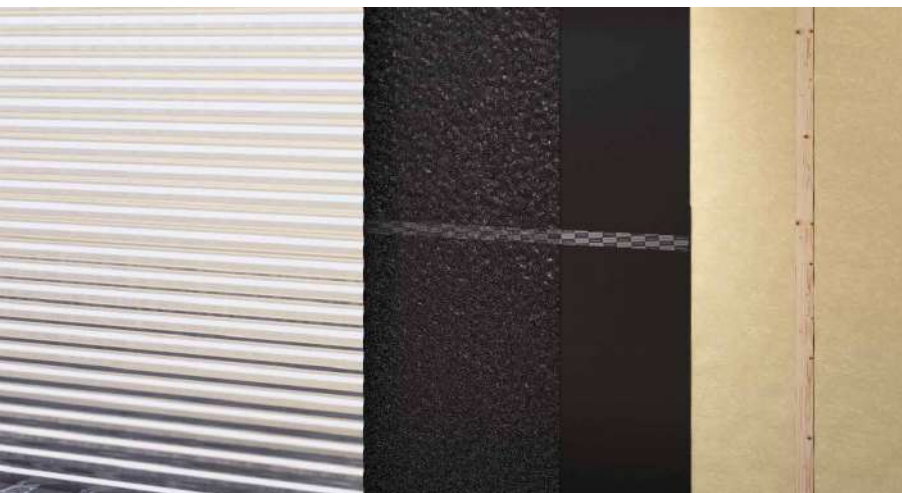
3D grid  
3-dimensional PP mat



### TECHNICAL DATA

Properties	standard		
Mass per unit area	EN 1849-2	350 g/m <sup>2</sup>	1.15 oz/ft <sup>2</sup>
Thickness	EN 1849-2	7.5 mm	295 mil
Maximum tensile force MD/CD NET	EN 12311-1	1,3 / 0,5 N/50mm	0.15 / 0.06 lb/in
Elongation MD/CD NET	EN 12311-1	95 / 65 %	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class F	-
Density	-	approx. 35 kg/m <sup>3</sup>	approx. 0.02 oz/in <sup>3</sup>
VOC emissions	-	< 0,02 %	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	4 weeks	-
Void ratio	-	95 %	-
Variation of the sound reduction index $\Delta R_w$	ISO 10140-2 / ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise $\Delta L_{IA}$	ISO 140-18	4 dB	-
Impact sound attenuation index $\Delta L_w$	ISO 140-8	28 dB	-

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.



### DURABILITY

When installed on a continuous support, it promotes micro-ventilation of metal roofs, preventing corrosion.

## AIRBORNE ACOUSTIC INSULATION AND NOISE GENERATED BY HEAVY RAIN

The test sample is identified by a 5,60 x 3,65 m timber 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 below are the layers tested in the two versions: the first with the TRASPIR METAL and the second with the sheet metal directly on the plank.

- 1 0,6 mm thick zinc plated steel metal sheet
- 2 8 mm thick TRASPIR METAL 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> timber fibre
- 7 180 mm thick 110 kg/m<sup>3</sup> timber fibre
- 8 Rothoblaas vapour control layer
- 9 20 mm thick pine beads
- 10 200 mm thick laminated pine beam

EMITTING ROOM



RECEIVING ROOM











## TESTS PERFORMED

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

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.

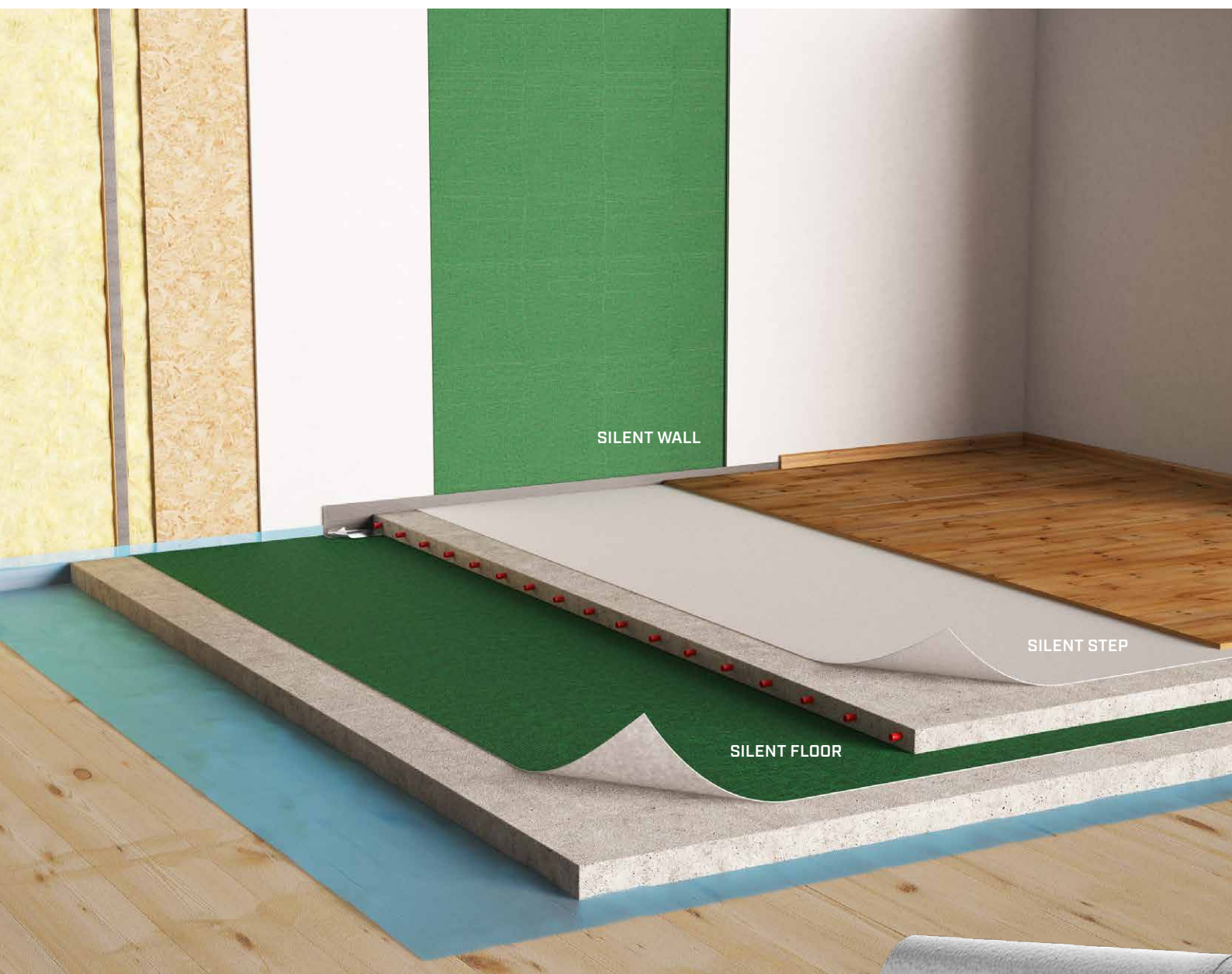


PHOTO 1: Photo of sample, emitting room side

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

NOTE: The full test report is available from the Rothoblaas technical department.

# SILENT, IN NAME AND IN FACT



In our "Acoustic Solutions" catalogue you can find all our soundproofing membranes: from the SILENT FLOOR underscreed range to the SILENT STEP underfloor solutions and the SILENT WALL family for wall noise reduction. Discover how good life is at home with the right acoustic comfort!



Scan the QR code and download our "Acoustic Solutions" catalogue.



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**rothoblaas**

Solutions for Building Technology

**BITUMINOUS**



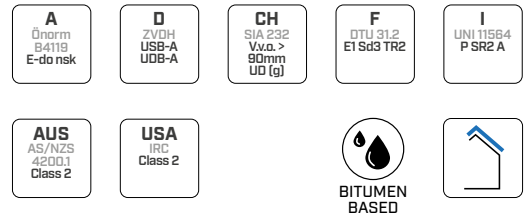
# BITUMINOUS

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# BYTUM 400



## BITUMINOUS UNDERLAY CONTROL LAYER



### COMPOSITION

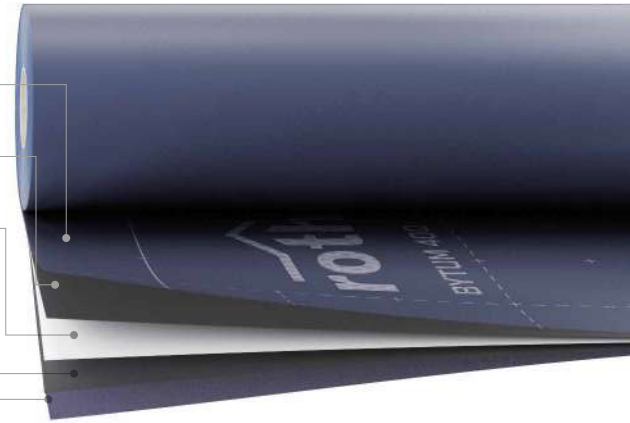
top layer  
non-woven PP fabric

compound  
bituminous mixture

reinforcing layer  
PL fabric

compound  
bituminous mixture

bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-1	400 g/m <sup>2</sup>	1.31 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	22 m	0.159 US perm
Maximum tensile force MD/CD	EN 12311-1	500 / 400 N/50mm	57 / 46 lb/in
Elongation MD/CD	EN 12311-1	45 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	200 / 200 N	45 / 45 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	120 J/(kg·K)	-
Density	-	approx. 600 kg/m <sup>3</sup>	approx. 0.35 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 36000	approx. 110 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	4 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	450 / 350 N/50mm	51 / 40 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 40 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.  
Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

### CODES AND DIMENSIONS

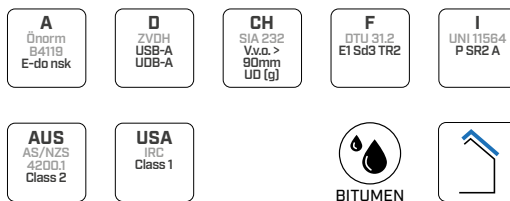
CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYT400	BYTUM 400	-	1	50	50	3.3	164	538	20

# BYTUM 750



EN 13859-1

## BITUMINOUS UNDERLAY CONTROL LAYER



### COMPOSITION

- top layer  
non-woven PP fabric
- compound  
bituminous mixture
- reinforcing layer  
PL fabric
- compound  
bituminous mixture
- bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	750 g/m <sup>2</sup>	2.46 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,8 mm	31 mil
Water vapour transmission (Sd)	EN 1931	38 m	0.092 US perm
Maximum tensile force MD/CD	EN 12311-1	500 / 400 N/50mm	57 / 46 lb/in
Elongation MD/CD	EN 12311-1	45 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	200 / 200 N	45 / 45 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	120 J/(kg·K)	-
Density	-	approx. 935 kg/m <sup>3</sup>	approx. 0.35 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 47500	approx. 190 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	4 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	450 / 350 N/50mm	51 / 40 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 40 %	-
Flexibility at low temperatures	EN 1109	-45 °C	-49 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.  
Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

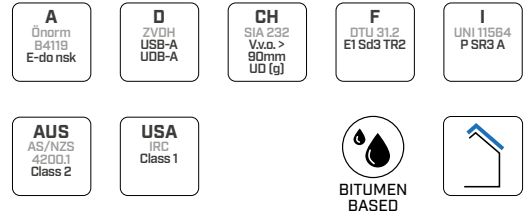
### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYTTT750	BYTUM 750 TT	TT	1	40	40	3.3	131	431	20

# BYTUM 1100



## BITUMINOUS UNDERLAY CONTROL LAYER



### COMPOSITION

- top layer  
non-woven PP fabric
- compound  
bituminous mixture
- reinforcing layer  
PL fabric
- compound  
bituminous mixture
- bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	1100 g/m <sup>2</sup>	3.6 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1,1 mm	43 mil
Water vapour transmission (Sd)	EN 1931	55 m	0.064 US perm
Maximum tensile force MD/CD	EN 12311-1	650 / 500 N/50mm	74 / 57 lb/in
Elongation MD/CD	EN 12311-1	45 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	230 / 230 N	52 / 52 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	120 J/(kg·K)	-
Density	-	approx. 1000 kg/m <sup>3</sup>	approx. 0.58 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 50000	approx. 275 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	4 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	600 / 450 N/50mm	69 / 51 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 40 %	-
Flexibility at low temperatures	EN 1109	-45 °C	-49 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.  
Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYT1100	BYTUM 1100	-	1	25	25	3.3	82	270	24



# BYTUM 1500

## BITUMINOUS UNDERLAY CONTROL LAYER



### COMPOSITION

top layer  
non-woven PP fabric

compound  
bituminous mixture

reinforcing layer  
PL fabric

compound  
bituminous mixture

bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-1	1500 g/m <sup>2</sup>	4.92 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1,3 mm	51 mil
Water vapour transmission (Sd)	EN 1931	120 m	0.029 US perm
Maximum tensile force MD/CD	EN 12311-1	600 / 400 N/50mm	69 / 46 lb/in
Elongation MD/CD	EN 12311-1	40 / 40 %	-
Resistance to nail tearing MD/CD	EN 12310-1	220 / 230 N	49 / 52 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	175 J/(kg·K)	-
Density	-	approx. 1150 kg/m <sup>3</sup>	approx. 0.66 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 20000	approx. 600 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	500 / 300 N/50mm	57 / 34 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 40 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYT1500	BYTUM 1500	-	1	25	25	3.3	82	270	30
BYTTT1500	BYTUM 1500 TT	TT	1	25	25	3.3	82	270	30

# BYTUM 2000

## BITUMINOUS UNDERLAY CONTROL LAYER



### COMPOSITION

top layer  
non-woven PP fabric

compound  
bituminous mixture

reinforcing layer  
PL fabric

compound  
bituminous mixture

bottom layer  
non-woven PP fabric



### TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-1	2000 g/m <sup>2</sup>	6.55 oz/ft <sup>2</sup>
Thickness	EN 1849-2	1,8 mm	71 mil
Water vapour transmission (Sd)	EN 1931	120 m	0.029 US perm
Maximum tensile force MD/CD	EN 12311-1	600 / 400 N/50mm	69 / 46 lb/in
Elongation MD/CD	EN 12311-1	40 / 40 %	-
Resistance to nail tearing MD/CD	EN 12310-1	220 / 230 N	49 / 52 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
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)	0 cfm/ft <sup>2</sup> at 50Pa
Thermal conductivity (λ)	-	0,2 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	175 J/(kg·K)	-
Density	-	approx. 1100 kg/m <sup>3</sup>	approx. 0.64 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 20000	approx. 600 MNs/g
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	500 / 300 N/50mm	57 / 34 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 40 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

### CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m <sup>2</sup> ]	[ft]	[ft]	[ft <sup>2</sup> ]	
BYT2000	BYTUM 2000	-	1	15	15	3.3	50	161	33

## RECOMMENDATIONS FOR INSTALLATION: BYTUM

### APPLICATION ON ROOF - EXTERNAL SIDE



1 BYTUM400, BYT750, BYT110, BYT1500, BYT2000

2 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

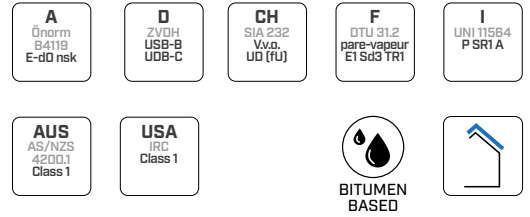
5 EASY BAND, SPEEDY BAND, FLEXI BAND, FLEXI BAND UV, SOLID BAND, PLASTER BAND

6 ROLLER

# BYTUM BASE 2500



## SELF-ADHESIVE BITUMINOUS MEMBRANE



### FLAT ROOF

Ideal for flat roofs as a final visible layer in combination with BYTUM SLATE 3500.

### WORKABILITY

Flexibility and workability are guaranteed even at low temperatures thanks to the polymer-modified bituminous compound.

### SELF-ADHESIVE AND SELF-SEALING

The adhesive compound and polyester surface finish allow the membrane to be self-sealed quickly and conveniently.



## COMPOSITION

- top layer  
PL film

---

- compound  
elastoplastic polymeric distilled bitumen

---

- reinforcing layer  
PL stabilised with fibreglass

---

- compound  
elastoplastic polymeric distilled bitumen

---

- bottom layer  
distilled bitumen modified with self-adhesive polymer

---

- release liner  
removable plastic film

## CODES AND DIMENSIONS

CODE	description	liner [mm]	H [m]	L [m]	A [m <sup>2</sup> ]	H	L	A	
						[ft]	[ft]	[ft <sup>2</sup> ]	
BYTBASE2500	BYTUM BASE 2500	500 / 500	1	10	10	3.3	33	108	29



### WITHOUT FLAME

Thanks to the modified self-adhesive bitumen compound, the product can be installed without the use of naked flames or heat.

### EASY INSTALLATION

Pre-cut removable monosilicone films and a precise alignment of the liners make the work safe, pleasant and aesthetically perfect.



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-1	approx. 2550 g/m <sup>2</sup>	approx. 8.36 oz/ft <sup>2</sup>
Thickness	EN 1849-1	2 mm	79 mil
Water vapour transmission (Sd)	EN 1931	approx. 200 m	approx. 0.017 US perm
Maximum tensile force MD/CD	EN 12311-1	400 / 300 N/50mm	46 / 34 lb/in
Elongation MD/CD	EN 12311-1	35 / 35 %	-
Resistance to nail tearing MD/CD	EN 12310-1	120 / 120 N	27 / 27 lbf
Watertightness	EN 1928	60 kPa	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class E	-
Thermal conductivity (λ)	-	0,17 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	170 J/(kg·K)	-
Density	-	approx. 1250 kg/m <sup>3</sup>	approx. 0.72 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 100000	approx. 1000 MNs/g
Joint strength	EN 12317-2	300 / 200 N/50mm	34 / 23 lb/in
Joint detachment resistance	EN 12316-1	-	-
UV stability <sup>(1)</sup>	EN 13859-1/2	3 months	-
Exposure to weather <sup>(1)</sup>	-	3 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	300 / 200 N/50mm	34 / 23 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 35 %	-
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Hot sliding	EN 1110	100 °C	212 °F
Application temperature	-	10 / 30 °C	50 / 86 °F
Adhesion strength on proper support at 180°	EN 12316-1	50 N	11.24 lbf
Adhesion strength on steel	ASTM D 1000	50 N/50mm	6 lb/in

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun.

## RELATED PRODUCTS



**BYTUM LIQUID**  
page 42



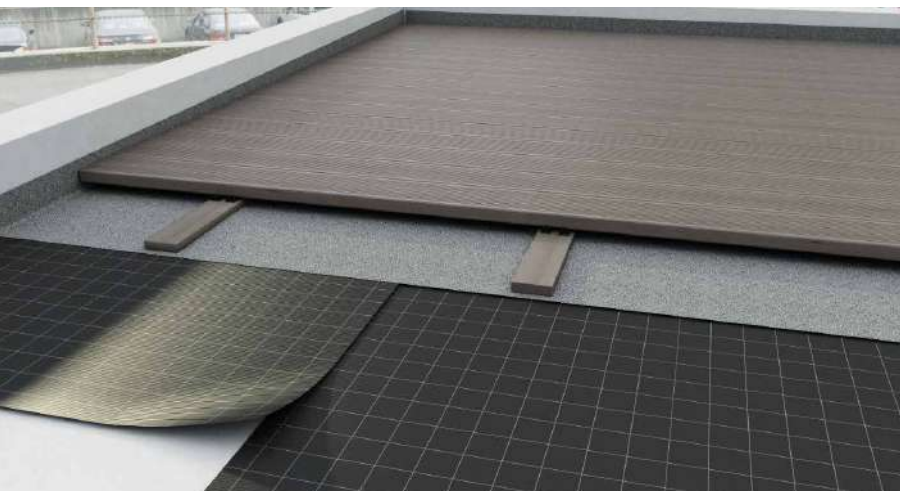
**BYTUM SPRAY**  
page 46



**GROUND BAND**  
page 34



**BLACK BAND**  
page 136



### LOW PITCHES

Used on slopes of up to 5° as an under-tile, it guarantees excellent waterproofing even in the event of punching.

# BYTUM SLATE 3500

## SELF-ADHESIVE SLATED BITUMINOUS MEMBRANE



### EASY INSTALLATION

The slate finish makes BYTUM SLATE 3500 usable on slopes up to 5° as an under-tile and compatible with mortar and foam.

### WIDE RANGE

Available in 4 colours to meet different application areas and aesthetic requirements.

### FLEXIBILITY

Flexibility and workability are guaranteed even at low temperatures thanks to the polymer-modified bituminous compound.



## CODES AND DIMENSIONS

CODE	description	liner [mm]	colour	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
BYTSWHI3500	BYTUM SLATE 3500 WHITE	500 / 500	white	1	10	10	3.29	33	107.64	20
BYTSGRE3500	BYTUM SLATE 3500 GREEN	500 / 500	green	1	10	10	3.29	33	107.64	20
BYTSRED3500	BYTUM SLATE 3500 RED	500 / 500	red	1	10	10	3.29	33	107.64	20
BYTSGRA3500	BYTUM SLATE 3500 GRAY	500 / 500	grey	1	10	10	3.29	33	107.64	20



### SELF-ADHESIVE AND SELF-SEALING

The lateral adhesive strip guarantees water-proofing even at the points where membranes overlap.

### FLAT ROOF

Ideal for creating a flat roof as a final visible layer in combination with BYTUM BASE 2500.

## COMPOSITION

<b>top layer</b>	slate chips
<b>compound</b>	elastoplastic polymeric distilled bitumen
<b>reinforcing layer</b>	PL stabilised with fibreglass
<b>compound</b>	elastoplastic polymeric distilled bitumen
<b>bottom layer</b>	distilled bitumen modified with self-adhesive polymer
<b>release liner</b>	removable plastic film



## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-1	3500 g/m <sup>2</sup>	11.47 oz/ft <sup>2</sup>
Thickness	EN 1849-1	ca. 2.8 mm	approx. 110 mil
Water vapour transmission (Sd)	EN 1931	280 m	0.012 US perm
Maximum tensile force MD/CD	EN 12311-1	400 / 300 N/50mm	46 / 34 lb/in
Elongation MD/CD	EN 12311-1	35 / 35 %	-
Resistance to nail tearing MD/CD	EN 12310-1	120 / 120 N	27 / 27 lbf
Watertightness	EN 1928	60 kPa	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class E	-
Thermal conductivity (λ)	-	0,17 W/(m·K)	0.12 BTU/h·ft·°F
Specific heat	-	170 J/(kg·K)	-
Density	-	approx. 1250 kg/m <sup>3</sup>	approx. 0.72 oz/in <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 100000	approx. 1400 MNs/g
Joint strength	EN 12317-2	300 / 200 N/50mm	34 / 23 lb/in
UV stability <sup>(1)</sup>	EN 13859-1/2	permanent	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	300 / 200 N/50mm	34 / 23 lb/in
- elongation	EN 1297 / EN 12311-1	35 / 35 %	-
Flexibility at low temperatures	EN 1109	-15 °C	5 °F
Hot sliding	EN 1110	100 °C	212 °F
Application temperature	-	10 °C	50 °F
Adhesion strength on selvedge at 180°	EN 12316-1	50 N	11.240451 lbf
Adhesion strength on steel	ASTM D 1000	50 N/50mm	6 lb/in

<sup>(1)</sup> For the correlation between laboratory tests and actual conditions, see page 199.

Store the product in a dry, covered location. The rolls must be transported and stored in a vertical position.

It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun.



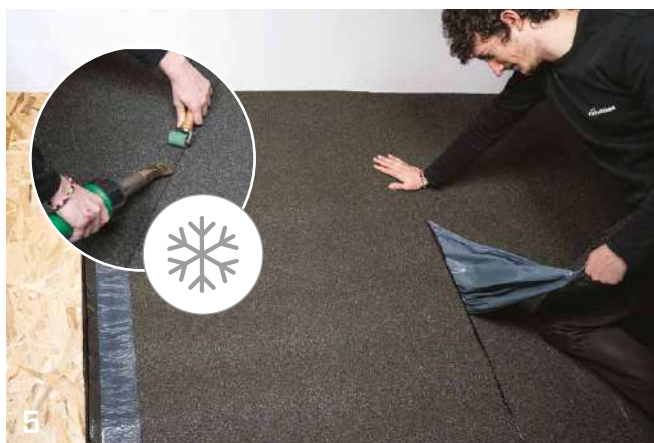
## PERMANENT UV STABILITY

The exposed slated top layer provides long-lasting weather resistance by protecting the bitumen waterproofing layer.



# RECOMMENDATIONS FOR INSTALLATION

## BYTUM SLATE 3500



## BYTUM BASE 2500 | BYTUM SLATE 3500





# RECOMMENDATIONS FOR INSTALLATION

## INTERNAL CORNER



3 MARLIN, CUTTER

4 ROLLER

## EXTERNAL CORNER



# SHINGLE

## BITUMINOUS TILE



### CE MARKING

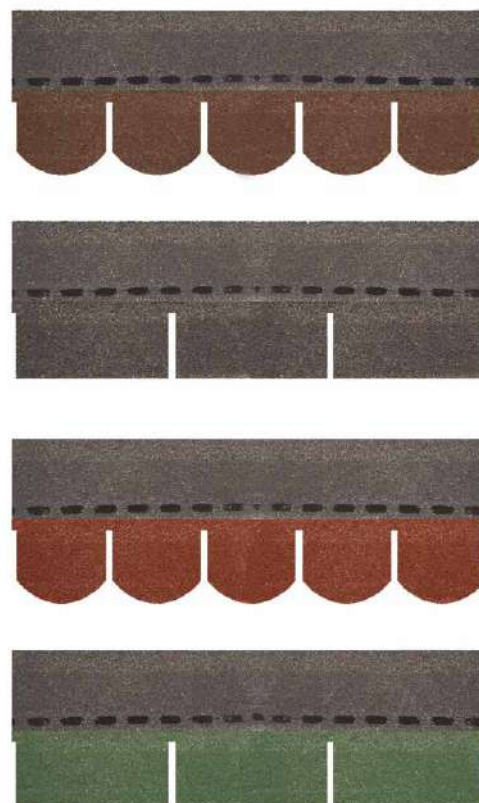
Final waterproof covering layer CE marked according to ETA. Weatherproof and acoustically insulated against heavy rain.

### PERMANENT UV STABILITY

Unlimited UV resistance thanks to the basalt grit top layer.

### SELF-SEALING

Easy to install thanks to pre-installed thermo-adhesive dots that ensure sealing during installation.



## CODES AND DIMENSIONS

CODE		B [mm]	L [mm]	B [in]	L [in]	colour	A / co. [m <sup>2</sup> ]	co. / b	A / b [m <sup>2</sup> ]	
SHIREDR	R	777	336	30.6	13.23	red	2,0	39	66,0	18
SHIBROR	R	777	336	30.6	13.23	brown	2,0	39	66,0	18
SHIGRER	R	777	336	30.6	13.23	green	2,0	39	66,0	18
SHIBLAR	R	777	336	30.6	13.23	black	2,0	39	66,0	18
SHIREDB	B	808	336	31.82	13.23	red	2,0	39	66,0	18
SHIBROB	B	808	336	31.82	13.23	brown	2,0	39	66,0	18
SHIGREB	B	808	336	31.82	13.23	green	2,0	39	66,0	18
SHIBLAB	B	808	336	31.82	13.23	black	2,0	39	66,0	18

B tile width

L tile height

A / co. area of tiles per package

A / b area of tiles per pallet

co. / b packages per pallet

R rectangular

B biber



## TRANSPORTATION

Easy to transport thanks to the small size of the package (80 cm x 34 cm) and the low weight of the package (approx. 20 kg).

## BYTUM 400

Ideal in combination with a bituminous under-tile shield (BYTUM 400) for effective waterproofing even on low roof slopes.

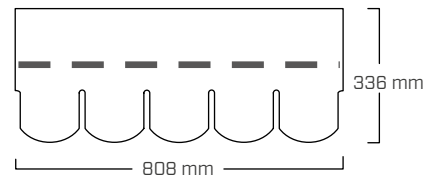
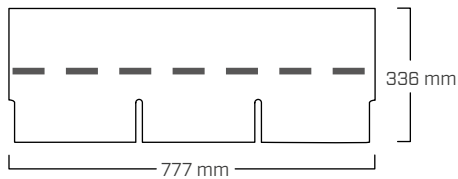


## TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area (RECTANGULAR)	ETA 07/0266	9,6 kg/m <sup>2</sup>	0.03 oz/ft <sup>2</sup>
Mass per unit area (BIBER)	ETA 07/0266	9 kg/m <sup>2</sup>	0.029 oz/ft <sup>2</sup>
Thickness	-	3 mm	118 mil
Maximum tensile force MD/CD	EN 544	> 600 / 400 N/50mm	> 69 / 46 lb/in
Elongation MD/CD	EN 544	3,5 / 3,5 %	
Resistance to nail tearing MD/CD	EN 544	> 100 N	> 22 lbf
Water impermeability (bitumen mass)	ETA-07/0266	896 g/m <sup>2</sup>	2.936242 oz/ft <sup>2</sup>
Temperature resistance		-20 / 80 °C	-4 / 176 °F
Reaction to fire	EN 13501-1	class E	
External fire performance	EN 13501-5	BROOF class (t1)	
After artificial ageing			
- maximum tensile force MD/CD	EN 544	> 600 / 400 N/50mm	69 / 46 lb/in
- resistance to nail tearing MD/CD	EN 544	> 100 N	22 lbf
- hot slipping	EN 544	< 2 mm	< 0.07874 in
- grit adhesion	EN 544	< 2,5 g	< 0.088185 oz
Flexibility at low temperatures	EN 1109	-20 °C	-4 °F
Bitumen density	ETA-07/0266	1,2 kg/L	
Application temperature	ETA-07/0266	0 / 40 °C	32 / 104 °F
Water absorption	EN 544	2 %	
UV stability	-	permanent	-

It is recommended to store the product at room temperature until application, as it is sensitive to temperature changes. We recommend applying it during the cooler hours in summer and the warmer hours in winter, possibly with the help of a hot air gun.

## GEOMETRY



## RELATED PRODUCTS

### SHINGLE STICK

CODES	mL	pcs
00057008	310	12

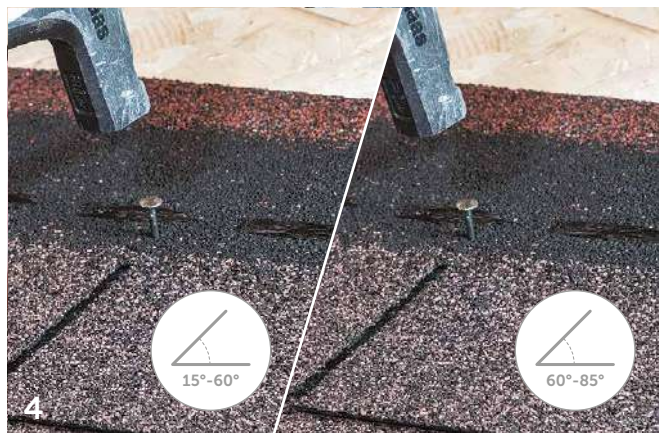
Yield of 1 cartridge equal to about 3 linear metres for metal sheet work.



## PERGOLAS AND PORCHES

Ideal solution for roofing small structures such as canopies, pergolas or porches.

RECOMMENDATIONS FOR INSTALLATION





RECOMMENDATIONS FOR INSTALLATION





# TOOLS

## S1001

# TOOLS



# TOOLS

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<b>LIZARD</b>	
<i>UNWINDER FOR NAIL POINT</i> <i>SEALING TAPE</i> .....	325
<b>ROLLER</b>	
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VIDEO

# CAP SUPER

## ROOFING SYSTEM FOR CONSTRUCTION SITES

- With this solution you can reduce or increase the size of the roofing system to adapt it to the floors
- Thanks to the reinforced metal eyelets on the edge and underside, the tarpaulin can be fixed every metre on the roof
- The large mass per unit area and the type of material guarantee better mechanical resistance and durability over time

### CODES AND DIMENSIONS

CODE	description	pcs
1 CAPSUPER88	tarpaulin for roof 8 x 8 m	1
2 CAPSUPER48	1/2 tarpaulin for roof 8 x 4 m	1
3 CAPSUPERCOL	sealing element	1
4 CAPSUPERPAD	inflatable element	1
5 CAPSUPERPIL	element for columns	1

### COMPLEMENTARY PRODUCTS

CODE	description	pcs
6 CAPPUMP	adapter for pneumatic compressor	1
7 CAPLOOP	fastening carabiner	25
8 CAPGLUE	50 mL repair adhesive	1



#### VIDEO

Scan the QR Code and watch the video on our YouTube channel



### MATERIAL

Sturdy, slightly transparent polyester fabric for immediate identification of openings and elements under the tarpaulin.

### PROTECTION

Durable protection against moisture and dust penetration in the event of delays and work stoppages, or if the floor remains uncovered for extended periods.



## TECHNICAL DATA

Properties	standard	values
Mass per unit area	ISO 2286-2	670 g/m <sup>2</sup>
Thickness	ISO 2286-3	0,5 mm
Tensile strength (transverse and longitudinal)	EN ISO 1421	3000 / 3000 N/50 mm
Tear resistance (transverse and longitudinal)	DIN 53363	300 / 300 N
Cold resistance	EN 1876-1 ASTM D2136	-30°C
Temperature resistance	IVK/Pkt.5	+70°C
UV colour resistance	ISO 107-B02	7/8 (on a scale from 1 to 8)
Bending strength	DIN 53359 shape A	100,000 x - no cracks



## COLUMNS

Thanks to the adjustable element for columns, it is also possible to hermetically seal chimney or pillar crossing points.

# CAP TOP

## TARPAULIN FOR ROOFS

- Each size is equipped with a reinforced lifting hook for easier installation
- Thanks to metal eyelets, the tarpaulin can be fixed every metre on the roof
- The large mass per unit area and the type of material guarantee better mechanical resistance and durability over time
- When fixing the tarpaulin to the roof it is important that all eyelets are always anchored so that the wind load is spread over as many eyelets as possible

## CODES AND DIMENSIONS

CODE	sizes [m]	weight [kg]	pcs
CAPTOP1012	10 x 12	72,0	1
CAPTOP1214	12 x 14	100,8	1
CAPTOP1416	14 x 16	134,4	1

Other sizes and/or personalised sheets can be supplied on request.

## TECHNICAL DATA

Properties	standard	values
Mass per unit area	ISO 2286-2	600 g/m <sup>2</sup>
Thickness	ISO 2286-3	0,5 mm
Tensile strength (transverse and longitudinal)	ISO 1421-1	2200 / 2000 N/50 mm
Tear resistance (transverse and longitudinal)	ISO 1421-1	280 / 250 N/50 mm
UV colour resistance	ISO 105 B02	7/8 (on a scale from 1 to 8)
Eyelet tear resistance	-	100 kg



## MATERIAL

Truck tarpaulin in polyester covered in matt lacquered PVC.

## PROTECTION

During construction, it offers temporary protection against rain and avoids infiltration of dust and construction remains into the cracks between the panels.



# LIZARD

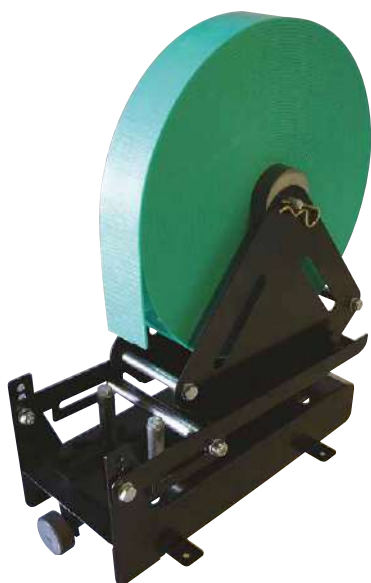
## UNWINDER FOR NAIL POINT SEALING TAPE

### TIME SAVING

Thanks to the fast and precise application of the nail tip tape, application costs can be considerably reduced.

### WATERPROOF

The correct application of the nail point tape guarantees the membrane impermeability in case of perforation by means of fastening.

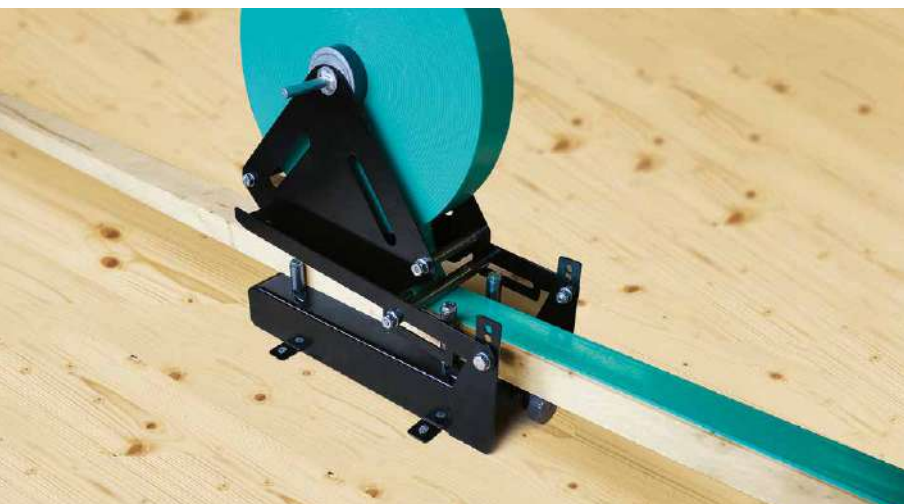


## CODES AND DIMENSIONS

CODE	description	pcs
LIZARD	unwinder	1

### VIDEO

Scan the QR Code and watch the video on our YouTube channel



## RECOMMENDED PRODUCT

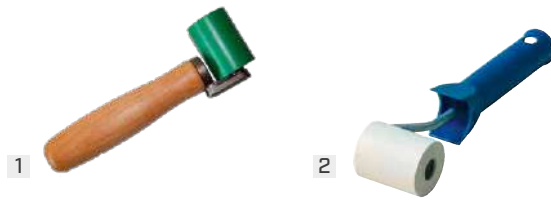
Optimal with NAIL PLASTER single-sided nail point tape.

## FIELDS OF USE

For nail point tape from 50 to 80 mm wide and timbers from 40 x 40 mm to 80 x 80 mm.

# ROLLER

ROLL FOR BELTS



## CODES AND DIMENSIONS

CODE	description	size [mm]	pcs
1 RLL40	silicone roller	40	1
2 RLL45	PUR roll	45	1



# SPEEDY ROLL

SPEEDY BAND UNWINDER  
WITH LONG HANDLE

## CODES AND DIMENSIONS

CODE	description	length [cm]	pcs
SPEEDYROLL	SPEEDY BAND unwinder	120 - 200	1

## OPTIONAL ITEMS

CODE	B [mm]	L [m]	pcs
SPEEDY60	60	25	10



# WINGBAG

INFLATABLE AIR CUSHION WITH HAND PUMP  
MADE OF FIBRE-REINFORCED SYNTHETIC  
MATERIAL



## CODES AND DIMENSIONS

CODE	pcs
WINBAG	4



# BRUSH

## BRUSHES AND ROLLERS

### CODES AND DIMENSIONS

CODE	sizes [mm]	pcs
1 BRS560	5 x 60	1
2 BRS414	40 x 140	1
3 BRS625	Ø60 x 250	1



# NITRAN

## NYLON-ELASTAN/NITRILE FOAM GLOVES



EN 388

### CODES AND DIMENSIONS

CODE	size	pcs
NIT8	8	1
NIT9	9	1
NIT10	10	1



# GLASS 1

## GLASSES WITH TEMPLES



EN 166

### CODES AND DIMENSIONS

CODE	description	pcs
GLASS1	side protection	1





# MARLIN

## CUTTER ALLROUND

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



### CODES AND DIMENSIONS

CODE	description	pcs
MARLIN	cutter	1
MARBLA	spare blades	10

# CUTTER

## FOR PROFESSIONAL CUTTING

- The safety lever allows the blade to be changed quickly and easily
- Thanks to the soft support, it is even easier to use the thumb to generate maximum pressure



### CODES AND DIMENSIONS

CODE	description	pcs
1 CUTTER	cutter with 5 spare blades	1
CUT60	spare trapezoidal blade	10
2 CUTSET	cutter in a practical nylon case with: 10 pcs. trapezoidal blades 5 pcs. hook blades 2 pcs. linoleum blades 2 pcs. precision cut blades	1



# LAMA

## KNIFE FOR INSULATION MATERIAL

- It can be used on both sides, 2 mm thick stainless steel blade
- Ergonomic handle shape for optimal processing of insulation material



## CODES AND DIMENSIONS

CODE	blade length [mm]	weight [g]	pcs
LAMA	280	175	1

# KOMPRI CLAMP

## EXPANDING TAPE STAPLE



## CODES AND DIMENSIONS

CODE	opening dimensions [mm]	pcs
KOMPRICLAMPS	0-30	5
KOMPRICLAMPL	40-95	5

# HAMMER STAPLER 47

## HAMMER STAPLER

- Weight: **0,87 kg**
- Back width: **10,6 mm**



## CODES AND DIMENSIONS

CODE	pcs
HH735347	1

# HAMMER STAPLER 22

## HAMMER STAPLER

- Weight: **1,04 kg**
- Back width: **10,6 mm**



## CODES AND DIMENSIONS

CODE	pcs
HH735322	1

# HAND STAPLER

## MANUAL STAPLER

- Weight: 0,6 kg
- Back width: 10,6 mm



## CODES AND DIMENSIONS

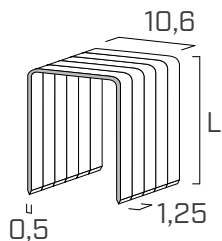
CODE	pcs
RTHH14B	1


# STAPLES

## CHISEL TIP



- Wire 0,5 mm



CODE	L [mm]	cladding	compatible machine			pcs	kg	pcs/ 
			HH735347	HH735322	RTHH14B			
HH10005121	6	zinc plated	●		●	5000	0,5	6000000
HH10005122	8	zinc plated	●	●	●	5000	0,6	6000000
HH10005123	10	zinc plated	●	●	●	5000	0,7	6000000
HH10005124	12	zinc plated		●	●	5000	0,7	6000000
HH10005125	14	zinc plated		●	●	5000	0,8	6000000



# FLY SOFT

## SEALANT GUN FOR 600 mL SOFT CARTRIDGES

- For all soft cartridges up to 600 mL, robust body



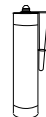
### CODES AND DIMENSIONS

CODE	description	pcs
FLYSOFT	for 600 mL soft cartridges	1
FLYSOFT2	5 spare plungers, 1 nozzle, 1 angled nozzle, 1 grout nozzle	1
FLYSOFT3	spare plungers	5

# FLY

## PROFESSIONAL GUN FOR 310 mL CARTRIDGES

- High stability gun for standard 310 mL cartridges



### CODES AND DIMENSIONS

CODE	description	pcs
FLY	for cartridges of 310 mL	1



# FLY FOAM

## AUTOMATIC LONG TUBE GUN FOR FOAMS

- For all common bayonet lock foam cartridges
- With screw for flow regulation



### CODES AND DIMENSIONS

CODE	description	pcs
FLYFOAM	foam gun	1

# FOAM CLEANER

## DETERGENT FOR CARTRIDGE GUNS

- It allows the internal cleaning of cartridge guns, preventing foam residues from impairing their operation



### CODES AND DIMENSIONS

CODE	content [mL]	pcs
FLYCLEAN	500	12

Aerosol 1. Eye Irrit. 2. STOT SE 3.

# PRODUCTS LIST

CODE	description	page
ALPHA	preshaped profile for sealing corners	143
ALU BAND	reflective single-sided adhesive tape for indoor use	61
ALU BUTYL BAND	reflecting butyl adhesive tape	134
ALU FLASH CONNECT	aluminium and self-adhesive butyl version	178
BARRIER ALU FIRE A2 SD2500	reflective air vapour barrier fire reaction class A2-s1,d0	216
BARRIER ALU NET SD150	reflective vapour barrier Sd 150 m	213
BARRIER ALU NET SD1500	reflective vapour barrier Sd > 1500 m	214
BARRIER NET ADHESIVE 200	self-adhesive vapour barrier screen with reinforcement grid	210
BARRIER NET SD40	vapour barrier Sd 40 m	206
BARRIER SD150	vapour barrier Sd > 145 m	208
BIRD COMB	standard eaves bird comb	188
BIRD COMB EVO	twin row eaves bird comb	189
BIRD SPIKE	rigid bird spikes	187
BLACK BAND	universal single-sided butyl tape	136
BRUSH	brushes and rollers	327
BRUSH VENT	rigid under-ridge with side brushes	171
BUTYL BAND	double-sided universal butyl tape	129
BYTUM 1100	bituminous underlay control layer	304
BYTUM 1500	bituminous underlay control layer	305
BYTUM 2000	bituminous underlay control layer	306
BYTUM 400	bituminous underlay control layer	302
BYTUM 750	bituminous underlay control layer	303
BYTUM BAND	self-adhesive bituminous band, can be plastered	42
BYTUM BASE 2500	self-adhesive bituminous membrane	308
BYTUM LIQUID   REINFORCEMENT	spreadable waterproofing sheath   reinforcing layer	48
BYTUM SLATE 3500	self-adhesive slated bituminous membrane	310
BYTUM SPRAY	bituminous membrane sealant spray	46
CAP SUPER	roofing system for construction sites	322
CAP TOP	tarpaulin for roofs	324
CLIMA CONTROL 80	membrane with variable vapour diffusion	228
CLIMA CONTROL NET 145	membrane with variable vapour diffusion and reinforcement grid	230
CLIMA CONTROL NET 160	membrane with variable vapour diffusion and reinforcement grid	232
CONNECT BAND	sealing wall barrier for irregular substrates	32
CONSTRUCTION SEALING	compressible sealing gasket for regular joints	52
CUTTER	for professional cutting	328
DGZ	double threaded screw for insulation	144
DOUBLE BAND	universal double-sided tape	62
EASY BAND	universal single-sided tape	68
EASY FOAM	general purpose foam sealant	115
ECO GLUE	adhesive glue for sealing membranes on biological basis	149
EXPAND BAND	self-expanding sealing tape	108
FACADE BAND UV	universal single-sided tape, resistant to UV rays	76
FIRE FOAM	high fire-resistant sealing foam	118
FIRE SEALING ACRYLIC	high fire-resistant acrylic sealant	122
FIRE SEALING SILICONE	high fire-resistant silicone sealant	124
FIRE STRIPE	intumescent thermo-inflatable flexible gasket	130
FLEXI BAND	universal single-sided high-adhesive tape	72
FLEXI BAND UV	universal single-sided adhesive tape with high UV stability and heat resistance	74
FLUID MEMBRANE	synthetic sealing membrane for brush and spray application	50
FLY	professional gun for 310 mL cartridges	332
FLY FOAM	automatic long tube gun for foams	333
FLY SOFT	sealant gun for 600 mL soft cartridges	332
FOAM CLEANER	detergent for cartridge guns	333
FRAME BAND	self-expanding sealing tape for windows/doors	112
FRONT BAND UV 210	universal single-sided tape, highly resistant to UV rays	98
GASKET	gasket for valley	180
GLASS 1	glasses with temples	327
GROUND BAND	self-adhesive bituminous membrane	34
GUTTER	flashing	179
HAMMER STAPLER 22	hammer stapler	330
HAMMER STAPLER 47	hammer stapler	330
HAND STAPLER	manual stapler	331
HERMETIC FOAM	high performing soundproofing sealing foam	116
ISULFIX	anchor for fastening insulation to brickwork	145
KOMPRI CLAMP	expanding tape staple	329
LAMA	knife for insulation material	329
LEVEL BAND	sealing wall barrier for foundations	33
LITE BAND	acrylic single-sided adhesive tape	144
LIZARD	unwinder for nail point sealing tape	325
MANICA FLEX	sealing sleeve for conduit and cable passage	140
MANICA LEAD	lead profile with EPDM sleeve	142
MANICA PLASTER	adhesive sealing sleeve that can be plastered	138
MANICA POST	adhesive sealing sleeve for outdoors	142
MANICA ROLL	self-adhesive lead and butyl version	178
MARLIN	cutter allround	328
MEMBRANE GLUE	adhesive glue for sealing membranes	148
METAL ROLL	flexible ventilated aluminium under-ridge	170
MS SEAL	MS polymer high elasticity sealant	120

CODE	description	page
NAIL BAND	butyl nail point sealant tape	128
NAIL PLASTER   GEMINI	high-adhesion nail point sealant tape	126
NET ROLL	flexible ventilated under-ridge	168
NITRAN	nylon-elastan/nitrile foam gloves	327
OUTSIDE GLUE	high elasticity universal adhesive glue for external use	154
PEAK EASY	ventilated rigid ridge roll	174
PEAK HOOK	ridge fastening hook for flat and shaped tiles	175
PEAK ONE	ventilated under-ridge for single pitch	173
PEAK VENT AISI 430	rigid under-ridge kit	172
PLASTER BAND	special high-adhesion tape, can be also plastered	84
PLASTER BAND LITE	tape with adhesive mounting strip, can be plastered	92
PRIMER	universal primer for acrylic adhesive tapes	103
PRIMER SPRAY	universal spray primer for acrylic adhesive tapes	102
PROTECT	self-adhesive butyl band, can be plastered	44
RADON FLOOR	waterproofing radon gas barrier for foundations	38
RAIN TUBE	temporary downpipe for construction site phases	191
ROLLER	roll for belts	326
SEAL BAND   SEAL SQUARE	single-sided tape for indoor use	64
SHINGLE	bituminous tile	314
SMART BAND	universal single-sided tape with separable liner	80
SNOW STOP	snow stopper hook for ridge tiles and tiles	181
SOFT FLASH CONNECT	EPDM and butyl self-adhesive version	178
SOLID BAND	robust single-sided adhesive tape suitable for low temperatures	78
SPEEDY BAND	universal single-sided tape without release liner	70
SPEEDY ROLL	SPEEDY BAND unwinder with long handle	326
STANDARD ROLL	flexible ventilated under-ridge	169
STAPLES	chisel tip	331
START BAND	waterproofing profile with high mechanical resistance	30
SUPERB GLUE	high elasticity adhesive glue for sealing membranes	150
SUPPORT BATTEN	metal batten-holders	176
SUPRA BAND	universal double-sided butyl tape with high adhesiveness	132
TERMI FLOOR	waterproofing anti-termite barrier for foundations	40
TERRA BAND UV	butyl adhesive tape	100
THERMOWASHER	washer to fasten insulation to timber	145
TIE-BEAM STRIPE	tie beam sealing profile	54
TILE STOP L	L pre-shaped hooks for plain tiles	183
TILE STOP S	S pre-shaped hooks for plain tiles	182
TILE STOP WIND	pre-shaped bracing hooks for tiles	184
TILE STOP WIND COPPO	pre-shaped bracing hooks for ridge tiles	185
TRASPIR 110	highly breathable membrane	253
TRASPIR 135	highly breathable membrane	257
TRASPIR 150	highly breathable membrane	260
TRASPIR 200	highly breathable membrane	264
TRASPIR 95	highly breathable membrane for walls	252
TRASPIR ADHESIVE 260	highly breathable self-adhesive membrane	276
TRASPIR ALU 120	highly breathable membrane	256
TRASPIR ALU 200	reflective highly breathable membrane	265
TRASPIR ALU FIRE A2 430	reflective highly breathable membrane	292
TRASPIR DOUBLE EVO 340	monolithic and microporous breathable membrane	284
TRASPIR DOUBLE NET 270	highly breathable membrane	280
TRASPIR EVO 160	highly breathable monolithic membrane	262
TRASPIR EVO 220	highly breathable monolithic membrane	274
TRASPIR EVO 300	highly breathable monolithic membrane	282
TRASPIR EVO SEAL 200	highly breathable monolithic membrane, perforation-proof	266
TRASPIR EVO UV 115	highly breathable monolithic membrane resistant to UV rays	254
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## USC

### United States Customary units

#### United States Customary Units

The United States Customary Units (USC) is a widely used system that evolved from the British imperial system. All customary units can be converted to International System (IS) units and vice versa.

The values are indicated in the International System and in the US Customary Unit to improve the catalogue usability and facilitate the decision-making process. Some values resulted from tests and have been converted to USC, so they are often rounded. To find the most accurate value, it is recommended to refer to the value expressed in the International System.

## LEGEND

<b>A</b>	[m <sup>2</sup> ] [ft <sup>2</sup> ]	area
<b>B</b>	[mm] [in]	base
<b>H</b>	[mm] [in] [m] [ft]	height
<b>L</b>	[mm] [in] [m] [ft]	length
<b>P</b>	[mm] [in]	depth
<b>s</b>	[mm] [mil]	thickness
<b>Ø</b>	[mm] [in]	through-element diameter

**MD** longitudinal values with respect to the direction of the membrane/tape rolls

**CD** transversal values with respect to the direction the membrane/tape rolls

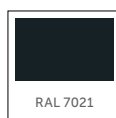
**TT** integrated double tape

**VOC** Volatile Organic Compounds

 pieces / package

 rolls for pallet

 rolls for pallet



- FASTENING
- AIRTIGHTNESS AND WATERPROOFING
- SOUNDPROOFING
- FALL PROTECTION
- TOOLS AND MACHINES

Rothoblaas is the multinational Italian company that has made innovative technology its mission, making its way to the forefront for timber buildings and construction safety in just a few years. Thanks to its comprehensive product range and the technically-prepared and widespread sales network, the company promotes the transfer of its know-how to the customers and aims to be a prominent and reliable partner for developing and innovating products and building methods. All of this contributes to a new culture of sustainable construction, focused on increasing comfortable living and reducing CO<sub>2</sub> emissions.

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