

EN

CATALOGUE 23/24

Riwega eternitycomfort

Ventilation, impermeability, air tightness





Riwega has helped to create awareness of the importance of a properly insulated and ventilated roof in the Italian and international markets. In the process, Riwega has become the leading company in the industry. Riwega offers a wide range of highly breathable roof and wall membranes, systems for professional ventilation of the roof, products for water, air and wind tightness and permanent systems for safety. Products for pitched roofs with roof coverings have been the hallmark of the company since its foundation in 1998.

Today, the Riwega brand can claim the best results in the specialization, production and commercialization of building materials that meet the criteria of the current European directives for energy saving and environmental protection. Riwega's innovative lines of development are thus based on current market analyses and the needs derived from them.



Thanks to more than 20 years of experience in the building sector, Riwega faces different markets: roofing, ventilated facades, and building envelopes.

Riwega's primary goal is to respect the building and environment standards, to guarantee a better living quality and a vision that is linked to long-lasting and healthy buildings. These goals can only be achieved with particularly careful planning and construction of the building, using construction systems that guarantee the benefits of the structural packages: insulation, thermic inertia, ventilation, soundproofing, waterproofing, air and wind tightness.

The chosen products for the creation of the roof packages play a fundamental role: the better their technical features and their durability, the better their contribution to a long-lasting roof package and therefore, to the entire building.

Riwega | eternitycomfort products have been designed to offer planners and builders the opportunity to develop constructions with low energy consumption and a high level of living comfort, with all the guarantees for long durability.



stands for passion, ambition and energy saving!

For more than 20 years, Riwega has been producing and selling innovative materials that make the every day and working lives of people and companies safer and more environmentally friendly.

Riwega's primary goal is to guarantee top-quality products and technologically advanced solutions for the entire building envelope.

All Riwega products guarantee perfection and safety for your roof.

Riwega ... means renewal instead of stagnation

... because avant-garde is at home with us

... because innovation makes all the difference

... because innovation is synonymous with the future

... because research and development open the way to the future



Riwega invests massively in research and development, in close contact with customers and partners, with its eyes on the market and in consideration of all applicable regulations, in order to position ourselves as an innovative specialist brand for planners, timber construction companies, carpenters and roofers.

Our goal is to become even better for you every day. Riwega has established itself as one of the leading companies in the field of air and wind resistance and today it is a popular choice for professional associations, public and certification institutions in the field of training and further education in all European countries.

One important achievement in the world of vapour control layers and breathable membranes (SMT), in which Riwega has again been involved fundamentally, is its participation in the technical committee that sets various national and European regulations and standards.

These regulate the application methods for synthetic vapour control layers and breathable membranes. The standards regulate, among other things, their use on pitched roofs, on continuous or non-continuous structures, or in direct contact with thermal insulation.

Riwega follows all the regulations and standards currently in force in Europe, which define the correct design of the junction point when installing windows and doors. Furthermore, Riwega regularly organises training workshops and courses for planners and installers.

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Elements for roof ventilation

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Aging

resistance



Mechanically resistant

Pre-folded edge

High adhesion

Water proofness

Easily moudable

Resistance to strong wind

Fast installation

UV resistance

Under ridge elements

What is a ventilated roof?

For the living comfort and the durability of the building, a correct relation between air entry from the eaves and exit from the ridge line has to be guaranteed. To obtain the "Venturi effect" (or chimney effect) the air outlet in the ridge line has to be 25% (by volume) of the air inlet from the eave.

The ideal air-flow section, which is effective in reducing heat flow in summer climate, is at least 55 mm, below the roof batten height (roof with counter-batten + batten) or below supporting planking (roof with double batten). If the roof is not insulated, or in the case of the upper side of under-ventilated planking, where any water vapour accumulation in the roof must only be removed, an air-flow section of at least 20 mm height should be installed. This ensures the healthiness of the roof, reduces maintenance costs and optimises insulation performance.

Advantages of a ventilated roof

Only a correct air circulation where air enters through the eaves and escapes at the ridge level, can avoid critical situations and extend the durability of your roof.

A) Reduction of humidity

Reduces or removes the risk of condensation on the bottom side of the covering and in case of rain, snow or strong humidity, avoids that the roof tiles soak up water and transmit the same humidity to the structure below.

B) Lower summer heat between covering and insulation:

To reduce the thermal flow during summertime, the optimal section of the ventilation gap should be at least 55 mm. During warm sunny days, when the temperature between the insulation and covering reaches up to 80°C, the ventilated roof avoids overheating and heat propagation inside the insulation package, helping to maintain an adequate climate inside the house.

C) Flow of infiltrations to the eaves:

A ventilated roof facilitates the outflow of water infiltrations from the roof covering or other critical points.

D) Increase in covering durability:

It allows heat that rises from the inside of the building to be distributed uniformly, avoiding snow melting in defined areas that causes water infiltration where the roof tiles overlap. This way, the prerequisited conditions set by producers of roof tiles, to respect the warranty for freezing/thawing, are fulfilled.

Riwega's under-ridge elements

In this section of the catalogue we deal with materials to be used to ensure a correct ventilation with under-ridge elements, that will respond the best possible way to the technical needs (airflow, avoiding animals and insects to enter inside the roof, good water flow from the ridge tiles to roof tiles) and the need of easy installation and durability.

ROLL-tech

QUICK OVERVIEW: STRENGTHS

The first, the original

- Under-ridge roll
- Water resistant and UV stable
- Guarantees strong air passage
- Central part in reinforced PP and perfectly adaptable folded aluminium stripe
- Prefolded aluminium edge to increase mechanical resistance





Composition:

- (1) Aluminium with prefolded edge
- 2 Seam
- (3) UV stabilized PP
- (4) Reinforced PP fabric
- 5 Extruded butylic glue
- 6 Silicon liner



Technical data sheet

Material		alu.PP.alu
Pre-folded edge		YES
Aluminium stripe		0,15 mm
Roll legth		5,00 m
Central fabric		UV stabilized PP
Central stripe		reinforced PP fabric
Material assembly		glue and seam
Extruded butylic glue		140 g/m
Air flow (each side)	DIN 4108-3	>145 cm²/m
UV rays stability		stable
Ageing resistance		>10 years (indirect exp.)
Temperature resistance		-30°C /+70°C
Processing temperature		+5°C /+40°C
Alu development		1,45%
Storage		dry, protected from UV rays, max. +30°C
Packaging		2 pc/box
Pallet		60 boxes

Colours / Measures	310 mm	350 mm	370 mm	400 mm
Red-brown	01013101	01013501	01013601	01014001
Brown	01013102	01013502	01013602	01014002
Black	01013103	-	01013603	-
Beige	-	-	01013606	-
Grey	01013104	-	-	-

Clima ROLL



QUICK OVERVIEW: STRENGTHS

Double central protection

Under-ridge roll

•

- Suitable for areas subject to very strong winds
- Resistant to water infiltrations and UV rays
- Easily adaptable to every type of roof covering
- Pre-folded Alu-edge to increase the mechanical resistance

Features:



Technical data sheet

Material		alu.TNT multilayer.alu
Pre-folded edge		YES
Aluminium stripe		0,15 mm
Roll legth		5,00 m
Central fabric		multilayer fabric
Central stripe		NO
Material assembly		glue and seam
Extruded butylic glue		120 g/m
Air flow (each side)	DIN 4108-3	>90 cm²/m
UV rays stability		stable
Ageing resistance		resistant
Temperature resistance		-30°C /+70°C
Processing temperature		+5°C /+40°C
Alu development		1,35%
Storage		dry, protected from UV rays, max. +30°C
Packaging		4 pc/box
Pallet		30 boxes

Codes and measures

Colours / Measures	310 mm	370 mm	400 mm
Red-brown	01013201	01013701	01013801
Brown	01013202	01013702	01013802
Black	01013203	01013703	-



Composition:

- Aluminium with prefolded edge (1)
 - Seam (2)
 - Multilayer fabric 3
 - Extruded butylic glue (4)
 - Silicon liner 5

UNI Air ROLL

QUICK OVERVIEW: STRENGTHS

Excellent price/quality ratio

- Under-ridge roll
- Resistant to water infiltrations and UV rays
- Easily adaptable to every type of roof covering
- Pre-folded Alu edge to increase the mechanical resistance
- Blocks access to birds and rodents under the roof tiles





Composition:

- (1) Aluminium with prefolded edge
- 2 Seam
- (3) PP fabric
- (4) Extruded butylic glue
- 5 Silicon liner

Features:

Technical data sheet

Material		alu.PP.alu
Pre-folded edge		YES
Aluminium stripe		0,12 mm
Roll legth		5,00 m
Central fabric		UV stabilized PP
Central stripe		NO
Material assembly		glue and seam
Extruded butylic glue		120 g/m
Air flow (each side)	DIN 4108-3	>145 cm²/m
UV rays stability		stable
Ageing resistance		resistant
Temperature resistance		-30°C /+70°C
Processing temperature		+5°C /+40°C
Alu development		1,35%
Storage		dry, protected from UV rays, max. +30°C
Packaging		4 pc/box
Pallet		30 boxes

Colours / Measures	310 mm	370 mm	400 mm
Red-brown	01010300	01010310	01010400
Brown	01010301	01010311	01010401
Black	-	01010313	01010403

Euro-ROLL



QUICK OVERVIEW: STRENGTHS

The strength is the price

Under-ridge roll

•

- Resistant to water infiltrations and UV rays
- Easily adaptable to every type of roof covering
- Pre-folded Alu edge to increase the mechanical resistance
- Blocks access to birds and rodents under the roof tiles

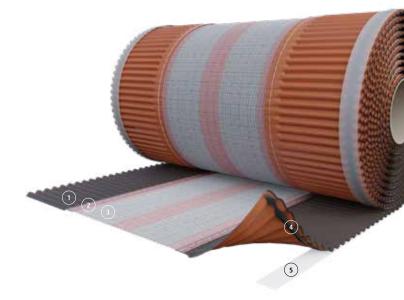
Features:



Technical data sheet		
Material		alu.PP.alu
Pre-folded edge		YES
Aluminium stripe		0,12 mm
Roll legth		5,00 m
Central fabric		polypropylene
Central stripe		NO
Material assembly		glue and seam
Extruded butylic glue		90 g/m
Air flow (each side)	DIN 4108-3	>145 cm²/m
Temperature resistance		-30°C /+70°C
Processing temperature		+5°C /+40°C
Alu development		1,25%
Storage		dry, protected from UV rays, max. +30°C
Packaging		4 pc/box
Pallet		30 boxes

Codes and measures

Colours / Measures	310 mm	370 mm	400 mm
Red-brown	01013903	01013901	01013906
Brown	01013904	01013902	01013907
Black	01013905	-	-



Composition:

- Aluminium with prefolded edge (1)
 - Seam (2)
 - PP fabric ③
 - Extruded butylic glue (4)
 - Silicon liner (5)

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Basic ROLL

QUICK OVERVIEW: STRENGTHS

The essential one for roof ventilation

- Under-ridge roll
- Resistant to water infiltrations and UV rays
- Easily adaptable to every type of roof covering
- Blocks access to birds and rodents under the roof tiles





Composition:

- (1) Aluminium
- 2 Seam
- 3 Multilayer PP fabric
- (4) Extruded butylic glue
- 5 Silicon liner



Technical data sheet

Material		alu.PP.alu
Pre-folded edge		NO
Aluminium stripe		0,12 mm
Roll legth		5,00 m
Central fabric		multilayer PP fabric
Central stripe		NO
Material assembly		glue and seam
Extruded butylic glue		80 g/m
Air flow (each side)	DIN 4108-3	>50 cm²/m
Temperature resistance		-30°C /+70°C
Processing temperature		+5°C /+40°C
Alu development		1,25%
Storage		dry, protected from
Storage		UV rays, max. +30°C
Packaging		4 pc/box
Pallet		60 boxes

Colours / Measures	310 mm	370 mm
Red-brown	01010318	01010320
Brown	01010319	01010321

TIROLL Air



QUICK OVERVIEW: STRENGTHS

Resistance is its main strength

- Under-ridge roll •
- Completely made of metal • (aluminium or copper)
- Resistant to water ٠ infiltrations and UV rays
- Completely water-resistant, also in case of broken tiles or if a tile is out of line
- Easily adaptable to every • type of roof covering

Features:



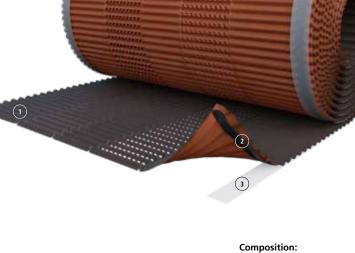
Technical data sheet

Material		alu / copper
Pre-folded edge		NO
Red / brown stripe		0,15 mm
Beige Antik stripe		0,12 mm
Copper stripe		0,10 mm
Roll legth		5,00 m
Butylic glue red / brown / copper		90 g/m
Butylic glue beige Antik		60 g/m
Air flow (each side)	DIN 4108-3	>90 cm²/m
UV rays stability		stable
Ageing resistance		resistant
Temperature resistance		-30°C /+90°C
Processing temperature		+5°C /+40°C
Alu / copper development		1,20%
Storage		dry, protected from UV rays, max. +30°C
Packaging		4 pc/box
Pallet		30 boxes

Colours / Measures	320 mm	370 mm	400 mm
Red-brown	01014321	01014371	01014391
Brown	01014322	01014372	01014392
Beige Antik	-	01014376	-
Copper*	01016325	01016375	01016395



- Aluminium / copper (1)
- Extruded butylic glue (2)
 - Silicon liner ③

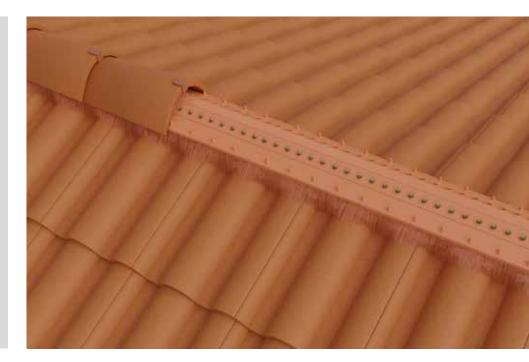


Venti-tech

QUICK OVERVIEW: STRENGTHS

The tradition of the ventilated roof

- Rigid under-ridge element
- Suitable for roof coverings with curved roof tiles
- Rain and UV ray resistant side brushes
- Blocks access to birds and rodents under the roof tiles
- Lightweight, easy and quick to install



Features:



Composition:

- 1 PVC
- 2 UV resistant side brushes

Technical data sheet				
Material		PVC		
Under-ridge width		175 mm		
Legth		1 m		
Brushes height		75 mm		
Air flow (each side)	DIN 4108-3	>120 cm²/m		
Packaging		20 pc/box		
Pallet		10 boxes		

Colours / Measures	75 x 175 mm
Red-brown	01021771
Brown	01021772
Black	01021773

Venti-tech Metal



QUICK OVERVIEW: STRENGTHS

Tradition combined with strength

- Rigid under-ridge element
- Completely made of metal
- Suitable for every ridge or hip line
- Rain and UV ray resistant side brushes
- Blocks access to birds and rodents under the roof tiles
- Easy and quick to install
- Durable

Features:

Material central part		galvanized iron
Material side stripes		aluminium or lead
Alu thickness		0,15 mm
Lead thickness		0,30 mm
Top stripe's thickness		min. 150 mm
Under-ridge's width		max. 400 mm
Legth		1 m
Side stripes' height		125 mm
Butylic adhesive stripes		YES (only alu type)
Air flow (each side)	DIN 4108-3	>100 cm²/m
Temperature resistance		+2°C /+90°C
Packaging		10 pc/box
Pallet		20 boxes

Codes and measures

Colours / Measures	125 x min. 150 - max. 400 mm			
	Lead Aluminium			
Red-brown	01024001	01023001		
Natural	01024004	-		



Composition:

- Galvanized iron (1)
- Side stripes in aluminium or lead (2)

Accessories for the roof-ventilation

The reason for ventilation

The roofing of a building is the fundamental element of a building since it is the most affected part by climatic variations that follow one another over the seasons and years. Good ventilation allows fresh and clean air to enter the upper part of the building, with continuous air circulation, which is beneficial for the entire structure. Over time, material exposed to humidity and mold deteriorates thus making maintenance work or even a complete replacement necessary.

Riwega's accessories for ventilated roofs

This section displays various types of accessories that contribute to allowing proper roof ventilation. Divided into accessories for laying the ridge and accessories for the eaves, which allow the air-flow but not the access of animals (normally birds and/or rodents) under the roof.

From ridge batten holders, ridge clips and ventilation elements, to systems for protection against the intrusion of birds or rodents: Riwega's assortment for ventilated roofs ensures that all materials that make up the roof do not overheat. The result is optimised efficiency and longer service life of the entire roof system, as well as greater energy savings.

Batten support bracket



QUICK OVERVIEW: STRENGTHS

Essential for a correct ridge tile installation

- Metal batten support brackets
- Adaptable to all kinds of roof cover
- Can be used on all rigid supports (wood or concrete)
- Adjustable in height and available in different measures
- Guarantees stability of the roof covering without using any foam or mortar

Universal batten support bracket

Product	Height (mm)	Width (mm)	Code
Universal 30	220	30	01040130
Universal 40	220	40	01040140
Universal 50	220	50	01040150

Nail-type batten support bracket

Product	Height (mm)	Width (mm)	Code
Nail-type 210/40	210	40	01040240
Nail-type 260/40	260	40	01040340
Nail-type 260/50	260	50	01040350
Nail-type 310/40	310	40	01040440
Nail-type 310/50	310	50	01040450

Kit "S" 57 / Kit "F"

Product	Content	Code
Kit S	30 hooks S57, 14 u. batten support brackets*, 200 nails**	01030140
Kit F	30 hooks F08, 14 u. batten support brackets*, 200 nails**	01030240



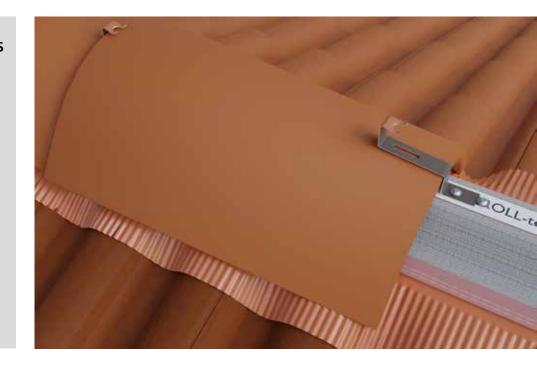


Ridge tile hooks

QUICK OVERVIEW: STRENGTHS

Guaranteed anchoring

- Pre-shaped aluminium hooks
- Optimal to anchor the ridge tiles to the support batten using screws
- Guarantees stability of the roof covering without using any foam or mortar
- Available in various shapes to adapt to different roof covering types





Ridge tile hook "S" 57				
Colour	Material	Use	Code	
Brown	Aluminium	Smooth ridge tile	01055702	
Red	Aluminium	Smooth ridge tile	01055701	



Ridge tile hook "F" 08			
Colour	Material	Use	Code
Brown	Aluminium	Interlocking ridge tiles	01050802
Red	Aluminium	Interlocking ridge tiles	01050801

Ridge tile hook "B" 02			
Colour	Material	Use	Code
Brown	Aluminium	Concrete ridge tiles	01050202
Red	Aluminium	Concrete ridge tiles	01050201
Black	Aluminium	Concrete ridge tiles	01050203

Eaves ventilation combs



QUICK OVERVIEW: STRENGTHS

The air passage is welcome under the roof covering, while birds are not

- Eaves ventilation combs to protect the ventilation entrance
- Suitable for all types of curved tiles and roof tiles
- Available in different heights and measures
- To guarantee proper opening for correct roof ventilation

PP eaves ventilation combs

Material	Colour	Measures (mm)	Code
Polypropylene	Red	60x1000	01071062
Polypropylene	Black	60x1000	01071063
Polypropylene	Black	100x1000	01071113

Metal eaves ventilation combs

Material	Colour	Measures (mm)	Code
Galvanized sheet	Pre-coated brown	60x1000	01073062
Galvanized sheet	Pre-coated brown	100x1000	01073102
Copper	Copper	60x1000	01072060
Copper	Copper	100x1000	01072100

PP eaves ventilation combs with support

Version	Material	Colour	Measures (mm)	Code
Comb with support	Polypropylene	Black	60x1000	01074063
Only support	Polypropylene	Black	32x1000	01074064

Anti-bird spike	Anti-bird spikes					
Material	Colour	Measures (mm)	Code			
Polycarbonate + inox	transparent - natural	500x80xh105	01075126			







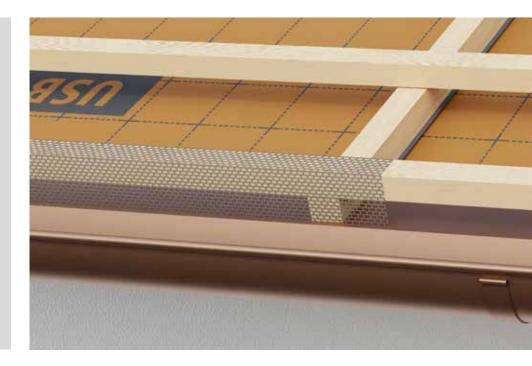


Angled protection screens

QUICK OVERVIEW: STRENGTHS

Ready-to-use protection

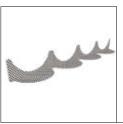
- Rigid net to cover the ventilation entrance
- Barrier against birds and rodents
- Pre-moulded, easy and quick to install
- Resistant to atmospheric agents and UV rays
- Available in different heights and measures



Angled bird protection screen

Material	Colour	Measures (mm)	Code
PVC	Brown	30x50	01081352
PVC	Brown	30x90	01081392
Aluminium	Natural	30x50	01081353
Aluminium	Natural	24x100	01081303
Aluminium	Brown	24x100	01081302





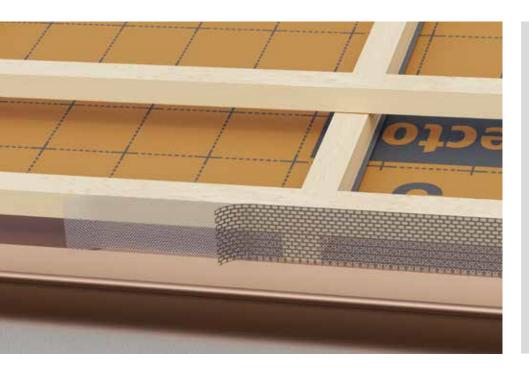
Pre-cut bird p	re-cut bird protection screen			
Colour	Spacing (mm)	Legth (m)	Code	
Brown	195	1	01085152	
Brown	230	1	01085153	

C	 כ

Accessories for pre-cut bird pr. screen: stainless steel hooks

Legth (mm)	Height (mm)	Box (pc)	Code
50	16	400	04013516
50	20	400	04013520
90	16	400	04014916
90	20	400	04014920

Protection screen rolls



QUICK OVERVIEW: STRENGTHS

Flexible protection

- Screen-roll for the protection of the ventilation chamber
- Barrier against birds, rodents and insects
- Resistant to atmospheric agents and UV rays
- Available in different heights and materials

Bird protection screen roll

Material	Colour	Measures (mm x m)	Code
PVC	Red-brown	50x5	01082051
PVC	Brown	50x5	01082052
PVC	Red-brown	80x5	01082081
PVC	Brown	80x5	01082082
PVC	Red-brown	100x5	01082101
PVC	Brown	100x5	01082102
PVC	Red-brown	150x5	01082151
PVC	Brown	150x5	01082152
PVC	Red-brown	180x5	01082181
PVC	Brown	180x5	01082182
Metal sheet	Brown	100x25	01084100
Metal sheet	Galvanized	100x25	01084104
Copper	Copper	50x25	01083050
Copper	Copper	80x25	01083080
Copper	Copper	100x25	01083100
Copper	Copper	150x25	01083150

Insect protection screen roll

Material	Colour	Measures (cm x m)	Code
Aluminium	Natural	10*x30	01086105
Aluminium	Natural	15*x30	01086155







IP Black 95/160

QUICK OVERVIEW: STRENGTHS

Keeps animals from entering into the facade

- Screen-roll for the protection of the ventilation chamber
- Barrier against birds, rodents and insects for ventilated facades with open joints
- Black, invisible between the facade joints
- UV-stable
- Easy to cut to the desired size





Features:



Composition:

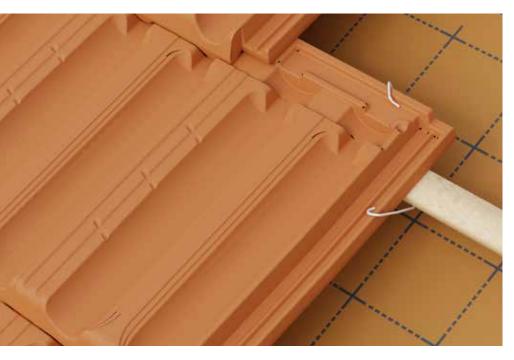
1 Fiberglass / PVC

Codes and mea	asures		
Code	Width (m)	Length (m)	Box (m ²)
01086160	1,6	25	40

Technical data sheet

Material	35% Fiberglass / 65% PVC				
Colour	Black				
Use	Ventilated facade				
Mass per unit area	EN 12127		~ 95 g/m²		
Fabric per 10 cm		warp	weft		
N° wires		66	60		
Yarn size		800 dtex	800 dtex		
Tensile strength	EN ISO 13934-1	>500 N/5cm	>400 N/5cm		
UV stability	stable (joints up	to max. 30 mm	n - max. 40 %)		
Storage	dry, protected	from UV rays	, max. +30°C		

Hooks for tiles



Wind-resistant hook for shaped clay tiles

QUICK OVERVIEW: STRENGTHS

Guaranteed stability and ventilation

- Wind-resistant hooks for tiles
- Prevents tiles slipping or falling
- Ventilated, dry and durable solution
- To guarantee covering stability despite no foam and no mortar being used

Wind resistant hook for tiles					
Hook version	Tile type (qty)	Box (pc)	Code		
Shaped galvanized iron	Clay (1)	250	04045100		
Long galvanized iron	Clay (2)	250	04045300		
Galvanized iron	Concrete (1)	500	04045200		

C	2
د	

Wind resistan	t hook for	beaver-tail tiles	5
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Material	Batten (mm)	Box (pc)	Code
Galvanized iron	30	200	04055130
Galvanized iron	40	100	04055140

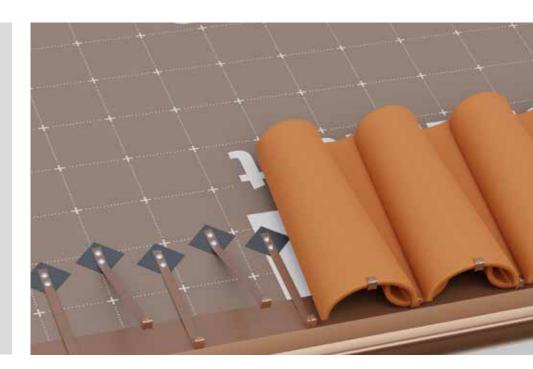


Hooks for smooth tiles - L type

QUICK OVERVIEW: STRENGTHS

Guaranteed stability and ventilation

- L-shaped hook for eaves tiles
- Provide a secure grip for the first row of curved tiles on the pitch
- Ventilated, dry and durable solution
- Guarantees covering stability despite no foam and no mortar being used
- Available in different • measures and materials



	L-shaped hool	L-shaped hook for eaves tiles - burnished stainless steel				
	Legth (mm)	Height (mm)	Box (pc)	Code		
	200	16	250	04023216		
<u> </u>	200	20	250	04023220		
	280	16	250	04023316		
	280	20	250	04023320		

<u>200</u> 16 200 20 280 16		04023216
	0 250	0.4022220
280 16		04023220
200	6 250	04023316
280 20	0 250	04023320

L-shaped hook for eaves tiles - pre-coated red/bro						
Legth (mm)	Height (mm)	Box (pc)	Code			
200	16	250	04022216			
 200	20	250	04022220			
280	16	250	04022316			
280	20	250	04022320			

Legth (mm)	Height (mm)	Box (pc)	Code
200	16	250	04021216
200	20	250	04021220
280	16	250	04021316
280	20	250	04021320

Hooks for smooth tiles - S type



QUICK OVERVIEW: STRENGTHS

Guaranteed stability and ventilation

- S-shaped hook for smooth curved tiles
- Prevent tiles from slipping
- Ventilated, dry and durable solution
- Guarantees covering stability despite no foam and no mortar being used
- Available in different measures and materials

S-shaped hook for smooth curved tiles - burnished stainless steel

Legth (mm)	Height (mm)	Box (pc)	Code
90	16	500	04013916
90	20	500	04013920
120	16	500	04013016
120	20	500	04013020

S-shaped hook for smooth curved tiles - pre-coated red/brown

Legth (mm)	Height (mm)	Box (pc)	Code
90	16	500	04012916
90	20	500	04012920
120	16	500	04012016
120	20	500	04012020

S-shaped hook for smooth curved tiles - copper*

Legth (mm)	Height (mm)	Box (pc)	Code
90	16	500	04011191
90	20	500	04011192
120	16	500	04011121
120	20	500	04011122

S-shaped hook for smooth curved tiles - stainless steel

Legth (mm)	Height (mm)	Box (pc)	Code
90	16	400	04014916
90	20	400	04014920









Hooks for perforated curved tiles

QUICK OVERVIEW: STRENGTHS

Guaranteed stability and ventilation

- Wind-resistant hooks for tiles
- Pre-shaped hooks for perforated curved tiles
- Prevents tiles slipping or falling from the roof due to strong wind
- Ventilated, dry and durable solution
- Guarantees covering stability despite no foam and no mortar being used

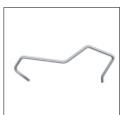


Wind-resistant hook for perforated curved tiles



Hook for	r perforated	l monk&nun	anchoring the non directly on the monk

Material	Legth (mm)	Box (pc)	Code
Galvanized iron	125	1500	04035012
Galvanized iron	160	1500	04035016
Stainless steel	125	1500	04034012



Wind hook for	Nind hook for monk&nun tiles anchoring direcity on horizontal battens		
Colour	Diameter (mm)	Box (pc)	Code
Galvanized iron	2,5	1500	04035100
Stainless steel	2,5	1500	04034100

Connections for chimneys and walls

The roof needs connecting elements at various points to allow the correct flow of rainwater from the definitive roof covering to the collection channels. These connections are necessary where the roofing is interrupted, for example on: chimneys, vents, roof windows, supports on walls or shafts, the roof throat lines and on the roof gutter connections.

Riwega's connections

Sheet metal protective joints can be installed at these points. Alternatively, the Riwega range offers complete solutions that meet all other requirements very well: from adaptable, UV and weather-resistant three-dimensional fittings made of aluminum, lead or copper, to butyl spray primers for sealing humid and/or dusty surfaces. Another indispensable accessory is the tape roller: it is the ideal tool for ensuring that the necessary pressure is exerted so that butyl or acrylic adhesives tapes adhere perfectly to the membrane fiber or to other surfaces to be bonded. To achieve optimal results in the long term, nothing must be left to chance when carrying out this work.

ROLL Flex TOP - Alu

QUICK OVERVIEW: STRENGTHS

The perfect connection in alu

- Mouldable three-dimensional pleated strip
- Completely adhesive bottom side
- Perfect for sealing every step and interruption on the pitched roof
- Three different lengths available: 30, 45 e 60 cm (unique on the market)
- Watertight and resistant to UV rays





Technical data sheet

Material	aluminium / butyl
Aluminium stripe	0,15 mm
Butylic glue thickness	1,5 mm
Roll legth	5,00 m
UV rays stability	stable*
Ageing resistance	resistant
Temperature resistance	-30°C /+90°C
Processing temperature	+5°C /+40°C
Alu development	1,30%
Storage	dry, protected from UV rays, max. +30°C
Packaging	1 pc/box
Pallet	48 boxes

Codes and measures

Colours / Measures	300 mm	450 mm	600 mm
Red-brown	01107301	01107451	01107601
Brown	01107302	01107452	01107602
Black	01107303	-	-

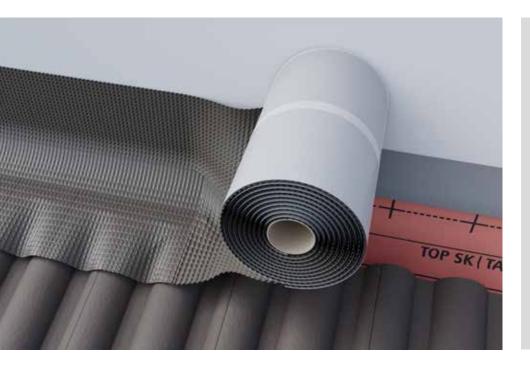
Composition:

1 Aluminium

2 Butylic glue

(3) Silicon liner

ROLL Flex TOP - Pb



QUICK OVERVIEW: STRENGTHS

The perfect connection in lead

- Mouldable three-dimensional pleated strip
- Completely adhesive bottom side
- Perfect for sealing every step and interruption on the pitched roof
- Watertight and resistant to UV rays

Features:



Technical data sheet

Material	lead / butyl
Lead stripe	0,20 mm
Butylic glue thickness	1,5 mm
Roll legth	5,00 m
UV rays stability	stable*
Ageing resistance	resistant
Temperature resistance	-30°C /+90°C
Processing temperature	+5°C /+40°C
Alu development	1,30%
Storage	dry, protected from UV rays, max. +30°C
Packaging	1 pc/box
Pallet	48 boxes

Codes and measures

Colours / Measures	300 mm
Red-brown	01106301
Brown	01106302
Black	01106303



Composition:

Lead (1)

- Butylic glue (2)
- Silicon liner ③

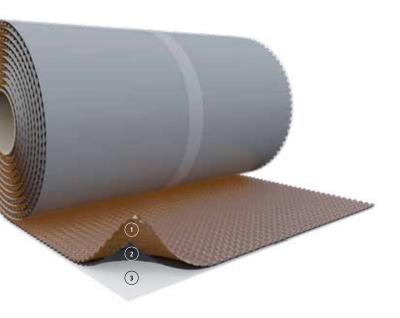
ROLL Flex TOP - Cu

QUICK OVERVIEW: STRENGTHS

The perfect connection in copper

- Mouldable three-dimensional pleated strip
- Completely adhesive bottom side
- Perfect for sealing every step and interruption on the pitched roof
- Watertight and resistant to UV rays





Composition:

1 Copper

2 Butylic glue

3 Silicon liner



Technical data sheet

Material	copper / butyl
Copper stripe	0,10 mm
Butylic glue thickness	1,5 mm
Roll legth	5,00 m
UV rays stability	stable*
Ageing resistance	resistant
Temperature resistance	-30°C /+90°C
Processing temperature	+5°C /+40°C
Alu development	1,30%
Storage	dry, protected from UV rays, max. +30°C
Packaging	1 pc/box
Pallet	48 boxes

Colours / Measures	300 mm
Copper	01108305



Riwega eternitycomfort



Breathable membranes and vapour control layers

Our warranties



USB Protector GOLD 330 USB Protector SILVER 230



USB Protector Head FH 330 USB Protector Head FH 330 VK USB Protector Head FH 240 USB Protector Head FH 240 VK USB Protector Head FH 155



USB Elefant USB Classic USB Classic Light USB Vita



USB Micro Strong USB Micro USB Micro Light USB Micro 230/20 USB Micro 100/20 USB Micro 100 Vario USB Micro 150 Vario DS 1500 SYN



- USB Weld AS USB Reflex Plus USB Fire Zero USB Drenlam Diff TOP SK USB Drenlam Light USB Wall 120 USB Windtop UV USB Windtop UV 210 DS 46 PE
- DS 65 PE DS 188 ALU DS 28 750 PP TOP SK DS 48 1000 PP DS 48 1100 PP DS 48 1300 TOP SK DS 48 2200 TOP SK PP-S VSK Classic Light VSK Clear 280
- VSK DS 1500 SYN VSK Bitum Reflex 1200 AS VSK Bitum Reflex 1200 VSK Bitum Reflex 400 VSK Bitum ARD USB Windtop UV A2 / 225 USB Reflex A2 / 430 DS Reflex A2 / 140

All warranty conditions are available on www.riwega.com/en/guarantees

Graphic references



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R2

Protector Line

Riwega focuses on functional raw materials, resistant to ageing and atmospheric agents that can be used in any situation. The breathable Protector line was created to be up to work even with low roof inclination, as it is well-known that the shape and inclination of the roofs are subject to constant changes and this makes us constantly face new challenges. This specially designed product-line ensures correct drying and protects the roof from wind and rain in most weather situations. Energy-saving construction, comfort, experience, research, and development, as well as modern building culture, have something in common: The Protector breathable product line, which is optimal and permanent protection for the values of our building envelopes.

The following chapter is divided according to the properties of breathable membranes, to meet the technical/commercial needs of the current market.

A) **Raw material:** the high-quality Protector raw material can be divided into two groups:

USB Protector SILVER and GOLD product group [UV50 PUR/PET technology] where the two cover fleeces, or upper and lower cover fleece, consist of a pure, high-quality thermobonded polyester fleece (PET). The heat-stabilized, indestructible and anti-slipcover fleeces give the two underlays excellent strength and ease of laying, thus preventing the formation of waves on the surface even during hot summer sunshine. The underlayer therefore lies perfectly on every roof. The functional membrane UV50 PUR corresponds to the highly diffusible and indestructible functional membrane, which is also used in the product group Protector Head FH and is therefore heat and UV resistant and safe even in driving rain. By using these high-quality raw materials, planners, fabricators and - last but not least - the building owner can be sure that the roof will be safe and dry in the future.

Protector Head FH product group [UV50 PUR/PP technology] where the two top and bottom coating layers are made of high-quality polypropylene (PP) non-woven fabric, resistant to UV rays and heat. The highly permeable functional membrane (UV50 PUR) is made of pure polyurethane (PU) film, resistant to heat and UV rays, which protects from driving rain and is extremely resistant.

In the USB Protector Head FH product group, the upper coating layer is made of a high-quality polypropylene (PP) nonwoven fabric which, in addition to being UV and heat resistant, is also treated with a flame retardant additive named FH (from the German Flammhemmend). Thanks to this process, the USB Protector Head FH membranes report a reaction to fire which lets them extinguish without fueling the flames. When the membrane is no longer in contact with the flame, no reaction occurs anymore. The fire reaction class of the product group according to the European standard EN 13501-1 is E. The reaction to fire improves very good the prevention of fire in comparision to standard membranes.

B) Production process:

To weld these high-quality raw materials together and to guarantee long term resistance, a technologically complex and specially designed production process is required. The entire production process, from the raw material to the finished product, is constantly monitored by our highly qualified production staff, in order to guarantee absolute quality.

C) Mass per unit area:

Using different raw materials and thicknesses of the upper and lower coating layers, products with different massper-unit area values are obtained. The breathable membranes of the USB Protector Head FH line weight 340 g/m², 240 g/m², and 155 g/m²; the breathable membranes in PUR/PET have respectively the following mass-per-unit area: USB Protector SILVER with 230 g/m² and USB Protector GOLD with 340 g/m². This range of materials covers all requirements of the various European standards, which have to be followed to reach tensile strength and good protection against rain.

D) Durability and guarantee:

Through years of external tests and laboratory tests, we have been able to ascertain the high quality of our products and we can assure that the breathable membranes of the Protector line are among the best breathable membranes in the world. For this, we can provide guarantees for 25 years for the USB Protector Head FH product group and for a period of 30 years for the USB Protector SILVER and GOLD product group.

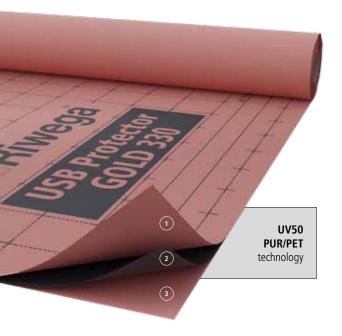
USB Protector GOLD 330

QUICK OVERVIEW: STRENGTHS

The excellence in the market

- Highly breathable, watertight membrane
- The best of our membranes, guaranteed for 30 years
- Extremely resistant to UV rays and extreme weather conditions
- Peerless stability to high temperature
- Stronghold against laceration or tearing





Composition:

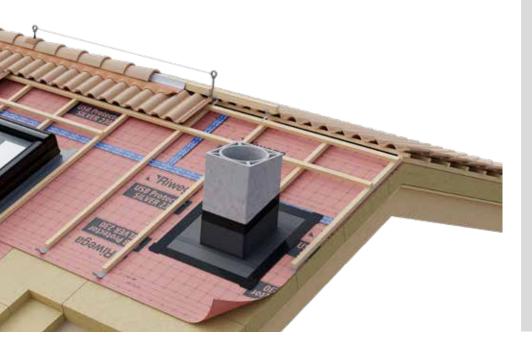
- 1 UV stable, water repellent, protective top layer in PET
- 2 Film UV50 PUR, monolithic, elastic
- ③ Protective layer in PET

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02050331	02020331	1,5	40	1200



	PET-composite
	UV50 PUR
	Salmon
	YES
EN 1849-2	340 g/m²
	0,85 mm
EN ISO 12572	0,1 m
EN ISO 12572	~ 200 g/m²/24 h
EN 20811	>800 cm
TU Berlin	passed
EN 1928 (Met. A)	W1
EN 12311-1	680 / 610 N/50mm
EN 12311-1	40 / 45 %
EN 12310-1	400 / 400 N
EN 13501-1	E
	12 months
	-40°/+120°C
	EN ISO 12572 EN ISO 12572 EN 20811 TU Berlin EN 1928 (Met. A) EN 12311-1 EN 12311-1 EN 12310-1

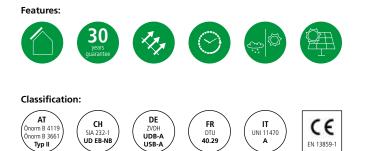
USB Protector SILVER 230



QUICK OVERVIEW: STRENGTHS

Lower grammage, the same excellence

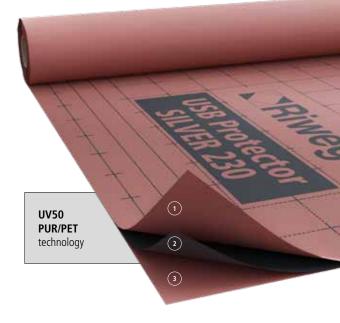
- Highly breathable, watertight membrane
- The lightest of the 30 years guaranteed membranes
- Extremely resistant to UV rays and extreme weather conditions
- Peerless stability to high temperature
- Stronghold against laceration or tearing



Technical data sheet	

•

Material		PET-composite
Film		UV50 PUR
Colour		Salmon
Use underneath PV panels		YES
Mass par unit area	EN 1849-2	220 a/m2
Mass per unit area	EN 1049-2	230 g/m ²
Thickness		0,7 mm
Sd value	EN ISO 12572	0,1 m
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	450 / 430 N/50mm
Elongation MD/CD*	EN 12311-1	35 / 40 %
Tear resistance MD/CD*	EN 12310-1	230 / 220 N
Fire reaction class	EN 13501-1	E
UV stability		12 months
Temperature resistance		-40°/+120°C



Composition:

- UV stable, water repellent, protective top layer in PET (1)
 - Film UV50 PUR, monolithic, elastic 2
 - Protective layer in PET ③

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02050230	020202301	1,5	40	1200

02

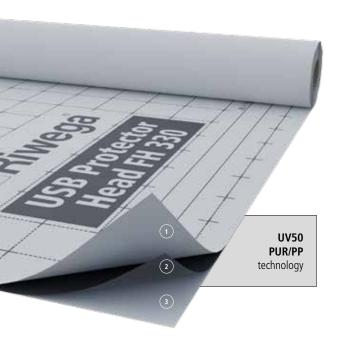
USB Protector Head FH 330

QUICK OVERVIEW: STRENGTHS

Unbeatable mechanical resistance

- Highly breathable, watertight membrane
- Improved fire reaction thanks to the FH factor
- The perfect membrane for alpine and mountain areas
- Stronghold against laceration or tearing
- Guaranteed water tight even in extreme conditions

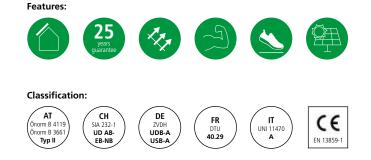




Composition:

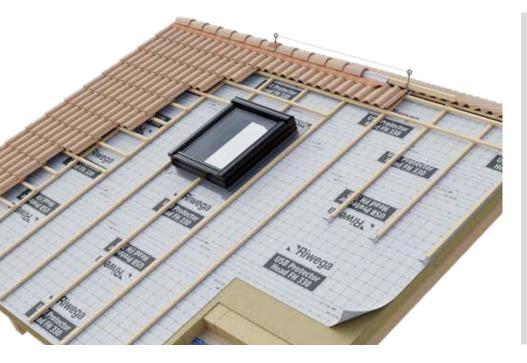
- 1 Protective UV stabilized, water repellent layer in PP
- 2 Film UV50 PUR, monolithic, elastic
- 3 Protective layer in PP

Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²
02050330	02020330	1,5	40	960
020503300	020203300	3,0	40	1920



Material		PP-composite
Film		UV50 PUR
Colour		Grey
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	340 g/m ²
Thickness		1,4 mm
Sd value	EN ISO 12572	0,1 m
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	440 / 380 N/50mm
Elongation MD/CD*	EN 12311-1	50 / 60 %
Tear resistance MD/CD*	EN 12310-1	390 / 430 N
Fire reaction class	EN 13501-1	E
UV stability		8 months
Temperature resistance		-40°/+120°C

USB Protector Head FH 330 VK



QUICK OVERVIEW: STRENGTHS

The "pre-welded" one with high grammage

- Highly breathable, watertight membrane
- Pre-welded over the entire roof pitch
- Easier and faster laying
- Safely welded overlaps
- High air mass for high mechanical performance
- Improved fire reaction thanks to the FH factor

new product



iechnical uata sheet	Technical	data	sheet
----------------------	-----------	------	-------

PP-composite		Material
UV50 PUR		Film
Grey		Colour
YES		Use underneath PV panels
340 g/m²	EN 1849-2	Mass per unit area
1,4 mm		Thickness
0,1 m	EN ISO 12572	Sd value
~ 200 g/m²/24 h	EN ISO 12572	Water vapour permeability
>800 cm	EN 20811	Watern column
passed	TU Berlin	Heavy rain test
W1	EN 1928 (Met. A)	Resistance to water passage
440 / 380 N/50mm	EN 12311-1	Tensile strength MD/CD*
50 / 60 %	EN 12311-1	Elongation MD/CD*
390 / 430 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
8 months		UV stability
-40°/+120°C		Temperature resistance



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Film UV50 PUR, monolithic, elastic 2
 - Protective layer in PP 3

Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Surface (m ²)	
02050212	-	max. 20	max. 20	max. 400	

04

USB Protector Head FH 240

QUICK OVERVIEW: STRENGTHS

The FH factor's importance

- Highly breathable, watertight membrane
- Improved fire reaction thanks to the FH factor
- Guaranteed water tightness even in extreme conditions
- Resistant to long UV ray
 exposure
- Guaranteed stability with high temperatures on the roof





Composition:

42

- 1 Protective UV stabilized, water repellent layer in PP
- (2) Film UV50 PUR, monolithic, elastic
- (3) Protective layer in PP

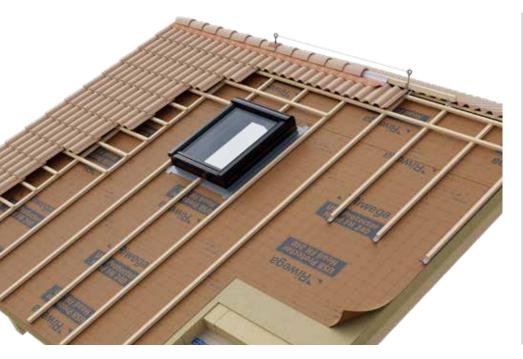
Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02050224	02020224	1,5	50	1500
020502240	020202240	3,0	50	3000





Material		PP-composite
Film		UV50 PUR
Colour		Торассо
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	240 g/m ²
Thickness		0,93 mm
Sd value	EN ISO 12572	0,1 m
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	390 / 290 N/50mm
Elongation MD/CD*	EN 12311-1	30 / 50 %
Tear resistance MD/CD*	EN 12310-1	300 / 400 N
Fire reaction class	EN 13501-1	E
UV stability		8 months
Temperature resistance		-40°/+120°C

USB Protector Head FH 240 VK



QUICK OVERVIEW: STRENGTHS

The "pre-welded" model for quick installation

- Highly breathable, watertight membrane
- Pre-welded over the entire roof pitch
- Easier and faster installation
- Safely welded overlaps
- UV and heat resistant even at high temperatures
- Improved fire reaction thanks to the FH factor





Technical data sheet		

Material		PP-composite
Film		UV50 PUR
Colour		Торассо
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	240 g/m²
Thickness		0,93 mm
Sd value	EN ISO 12572	0,1 m
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	390 / 290 N/50mm
Elongation MD/CD*	EN 12311-1	30 / 50 %
Tear resistance MD/CD*	EN 12310-1	300 / 400 N
Fire reaction class	EN 13501-1	E
UV stability		8 months
Temperature resistance		-40°/+120°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Film UV50 PUR, monolithic, elastic 2
 - Protective layer in PP ③

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Surface (m ²)
02050211	-	max. 20	max. 20	max. 400

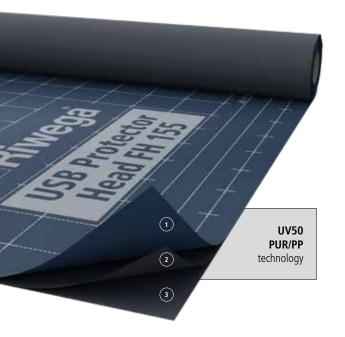
USB Protector Head FH 155

QUICK OVERVIEW: STRENGTHS

The most adaptable of the line

- Highly breathable, watertight membrane
- Improved fire reaction thanks to the FH factor
- Resistant and light weight, suitable for roof and wall
- Guaranteed water tightness even with driving rain
- Good resistance to high temperatures and UV ray exposure

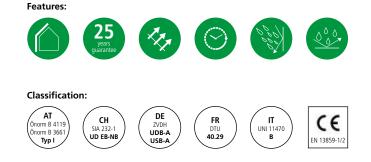




Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- (2) Film UV50 PUR, monolithic, elastic
- 3 Protective layer in PP

Codes and measures				
Code	Code TOP SK	Width (m)**	Length (m)	Pallet (m ²)
02050215	02020215	1,5	50	1500

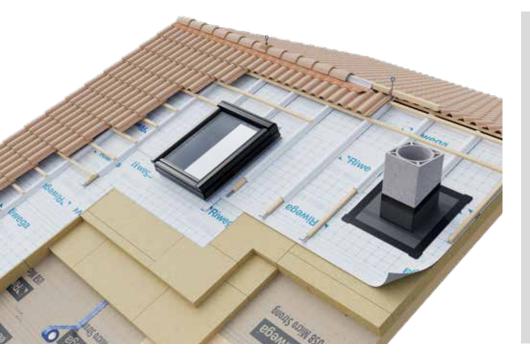


Technical data sheet

Material		PP-composite
Film		UV50 PUR
Colour		Blue
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	155 g/m²
Thickness		0,75 mm
Sd value	EN ISO 12572	0,1 m
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	300 / 230 N/50mm
Elongation MD/CD*	EN 12311-1	90 / 100 %
Tear resistance MD/CD*	EN 12310-1	180 / 210 N
Fire reaction class	EN 13501-1	E
UV stability		8 months
Temperature resistance		-40°/+120°C

*MD = longitudinal CD = transversal **3 m version upon request Riwega Srl is not responsible for negligent and improper use of its products

USB Weld AS



QUICK OVERVIEW: STRENGTHS

Perfect sealing of overlaps and joints

- Breathable, water-tight membrane
- Hot welding by temperatures from 200°C to 300°C or cold welding with THF Welding Liquid
- Suitable also for extreme climatic conditions
- Can be also used with very low roof pitch (≥5°)



To also in all	-1-4-	- la 4
Technical	αατα	sneet

PU.PET.P		Material
double PU fil		Film
Gre		Colour
YES*		Use underneath PV panels
345 g/n	EN 1849-2	Mass per unit area
0,9 mi		Thickness
0,3	EN ISO 12572	Sd value
~ 115 g/m²/24	EN ISO 12572	Water vapour permeability
>800 c	EN 20811	Watern column
passe	TU Berlin	Heavy rain test
w	EN 1928 (Met. A)	Resistance to water passage
350 / 430 N/50m	EN 12311-1	Tensile strength MD/CD*
45 / 50 9	EN 12311-1	Elongation MD/CD*
280 / 250	EN 12310-1	Tear resistance MD/CD*
	EN 13501-1	Fire reaction class
3 month		UV stability
-40°/+90°		Temperature resistance

*MD = longitudinal CD = transversal

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The product is situable for installation with maximum operating temperatures up to 90°C. If this limit is not exceeded, the product can be used under photovoltaic systems. It is necessary to ensure that the ventilation cross-sections and ventilation openings are fully functional for all types of roots and especially for photovoltaics systems in order to prevent hast build by in addition, due to the way in which a photovoltaic system can be installed with agos between one panel and another, it must be excluded that US8 Weld AS becomes the main water-tight drainage layer. US8 Weld AS must therefore always be the second waterproofing layer and as such must also he full momentared from idner IV geogoge.



Composition:

- Weldable PUR layer with non-slip surface (1)
 - Film in PET (2)
 - Weldable PU layer 3

Codes and measures

Product	Code	Width (m)	Length (m)	Pallet (m ²)
USB Weld AS	02010354	1,5	30	900
USB Weld AS	020103540	3,0	30	1800
USB Welding Strip	02010353	0,3	10	-

*Universal strips for sealing ventilation battens

System accessories for USB Weld AS on page 176

Superior Line

Breathable membranes UV10 Bikom technology

For some years, the construction method and the building culture itself have undergone important changes. This means that European roofs are becoming less inclined and more technical. Therefore it is necessary to use the right raw materials inside protection products. Riwega's response is the Superior line.

A) Raw material:

The raw material used for the three breathable membranes belonging to the Superior line has been successful on the European market for over 25 years! The technology required for processing the following raw materials for the Superior line is - Upper coating layer: UV and heat resistant high-quality polypropylene non-woven fabric and non-slippery (with different colours) - The functional membrane with UV10 Bikom technology: monolithic film, breathable, resistant to rain, resistant to UV rays and heat; grammage of 28 g/m² and dark grey colour. Lower coating layer: high-quality polypropylene non-woven fabric, resistant to UV rays and heat.

B) Production process:

The advanced production process leads to improvements in breathability. The complex production processes are managed by a high-tech system (jumbo system), according to which the various raw materials are refined in a sort of "welding at the source". The raw material is not heated and therefore maintains the excellent initial technical properties (impermeability to water, permeability to diffusion, tear-resistance, and durability).

C) Mass per unit area:

By using different thicknesses of the upper and lower coating layer, different weights are obtained. The three breathable membranes of the Superior line have a weight of 235 g/m² for USB Elefant, 185 g/m² for USB Classic, 155 g/m² for USB Classic Light.

D) Durability and guarantee:

Thanks to the use of high-quality raw materials, combined with professional installation work on the roof or the wall and in combination with the adhesive tapes and roof ventilation systems recommended by Riwega, we guarantee 20 or 10 years on all Superior line products.

USB Elefant



QUICK OVERVIEW: STRENGTHS

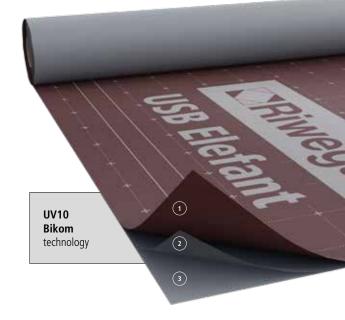
Thick, rough and resistant

- Highly breathable, watertight membrane
- Optimized performance, guaranteed for 20 years thanks to the UV10 Bikom film
- Perfect for watertight wooden roofs and other types
- Rough surface compatible with mortar or foam



Technical data sheet	

Material		PP-composite
Film		UV10 Bikom
Colour		Wine red
Use underneath PV panels		NO
Mass per unit area	EN 1849-2	235 g/m²
Thickness		1,05 mm
Sd value	EN ISO 12572	0,07 m
Water vapour permeability	EN ISO 12572	~ 500 g/m²/24 h
Watern column	EN 20811	>800 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	420 / 310 N/50mm
Elongation MD/CD*	EN 12311-1	50 / 60 %
Tear resistance MD/CD*	EN 12310-1	270 / 330 N
Fire reaction class	EN 13501-1	E
UV stability		6 months
Temperature resistance		-40°/+100°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Film UV10 Bikom, monolithic, elastic 2
 - Protective layer in PP (3)

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02050150	02020233	1,5	40	1200
020501500	020202330	3,0	30	1800

09

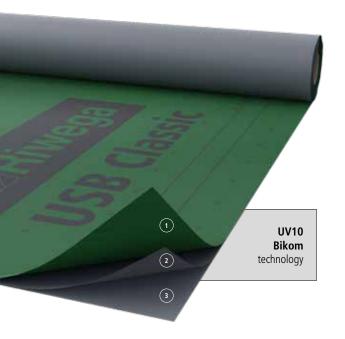
USB Classic

QUICK OVERVIEW: STRENGTHS

The evergreen among breathable membranes

- Highly breathable, watertight membrane
- Optimised performance, guaranteed for 20 years thanks to the UV10 Bikom film
- The most popular membrane for water-tight pitched roofs
- More than 25 years of history on the market
- Great price/quality ratio





Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- 2 Film UV10 Bikom, monolithic, elastic
- (3) Protective layer in PP

Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010160	02020161	1,5	50	1500
020101600	020201610	3,0	50	3000

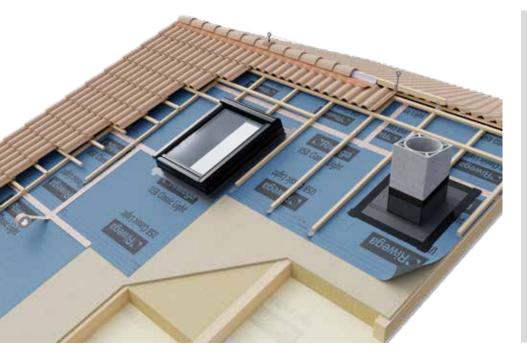


Technical data sheet

Features:

Material		PP-composite	
Film		UV10 Bikom	
Colour		Green	
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	185 g/m²	
Thickness		0,89 mm	
Sd value	EN ISO 12572	0,07 m	
Water vapour permeability	EN ISO 12572	~ 500 g/m²/24 h	
Watern column	EN 20811	>400 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	350 / 260 N/50mm	
Elongation MD/CD*	EN 12311-1	60 / 80 %	
Tear resistance MD/CD*	EN 12310-1	200 / 240 N	
Fire reaction class	EN 13501-1	E	
UV stability		6 months	
Temperature resistance		-40°/+100°C	

USB Classic Light



QUICK OVERVIEW: STRENGTHS

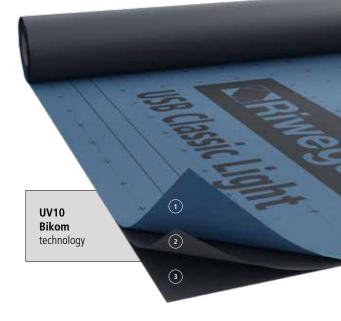
The lightest for the roof, the most resistant for the wall

- Highly breathable, watertight membrane
- Optimised performance, guaranteed for 20 years thanks to the UV10 Bikom film
- Ideal for wind-tightness of ventilated facades with closed joints
- Recommended for roofs with a roof pitch over 30%
- Non-slip and non-reflective surface



Technical data sheet	

Material		PP-composite
Film		UV10 Bikom
Colour		Light blue
Use underneath PV panels		NO
Mass per unit area	EN 1849-2	155 g/m²
Thickness		0,75 mm
Sd value	EN ISO 12572	0,07 m
Water vapour permeability	EN ISO 12572	~ 500 g/m²/24 h
Watern column	EN 20811	>400 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	290 / 225 N/50mm
Elongation MD/CD*	EN 12311-1	65 / 90 %
Tear resistance MD/CD*	EN 12310-1	170 / 200 N
Fire reaction class	EN 13501-1	E
UV stability		6 months
Temperature resistance		-40°/+100°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Film UV10 Bikom, monolithic, elastic 2
 - Protective layer in PP ③

Codes and measures				
Code	Code TOP SK	Width (m)**	Length (m)	Pallet (m ²)
02010140	020201501	1,5	50	1500

*MD = longitudinal CD = transversal

**3 m version upon request

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USB Vita

QUICK OVERVIEW: STRENGTHS

Great combination of UV ray and fire resistance

- Highly breathable membrane
- B-S1, d0 fire reaction class
- Poly-acrylic spread coating, extremely resistant to UV rays
- Fire protection also suitable with closed joints





Composition:

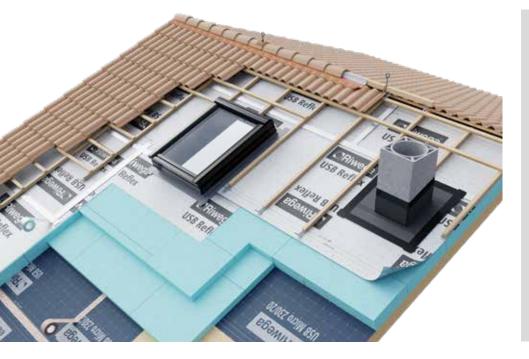
- 1 Poly-acrylic coating, extremely resistant to UV rays
- 2 PET non-woven fabric

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010303	02020310	1,5	50	2250



Material		PET-Acrylic
Film		Poly-acrylic coating
Colour		Grey
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	270 g/m²
Thickness		0,50 mm
Sd value	EN ISO 12572	0,02 m
Water vapour permeability	EN ISO 12572	~ 1000 g/m²/24 h
Watern column	EN 20811	>200 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	320 / 200 N/50mm
Elongation MD/CD*	EN 12311-1	30 / 35 %
Tear resistance MD/CD*	EN 12310-1	130 / 140 N
Fire reaction class	EN 13501-1	B-S1, d0
UV stability		9 months
Temperature resistance		-40°/+100°C

USB Reflex Plus



QUICK OVERVIEW: STRENGTHS

Waterproofing with maximum heat reflection

- Highly breathable, watertight membrane
- Reduces the passage of heat ٠ to the insulation material, thanks to the reflective surface
- Recommended to be used • with synthetic insulating materials with low mass
- The benefit of reflection also for ventilated facades with closed joints



NU-fU

EN 13859-1/2

Technical data sheet		
Material		PP.PP.Alu.PE
Film		PP
Colour		Silver
Use underneath PV panels		NO
Mass per unit area	EN 1849-2	200 g/m²
Thickness		0,50 mm
Sd value	EN ISO 12572	0,045 m
Water vapour permeability	EN ISO 12572	~ 530 g/m²/24 h
Watern column	EN 20811	>350 cm
Heavy rain test	TU Berlin	passed
Resistance to water passage	EN 1928 (Met. A)	W1
Reflection coefficient		0,95 R
Tensile strength MD/CD*	EN 12311-1	350 / 190 N/50mm
Elongation MD/CD*	EN 12311-1	30 / 70 %
Tear resistance MD/CD*	EN 12310-1	200 / 200 N
Fire reaction class	EN 13501-1	E
UV stability		4 months
Temperature resistance		-40°/+100°C

Composition:

- Layer in pre-perforated alu with antioxidant, protective PE film (1)
 - PE reinforcement mesh (2)
 - Functional film in PP (3)
 - Protective layer in PP (4)

Codes and measures

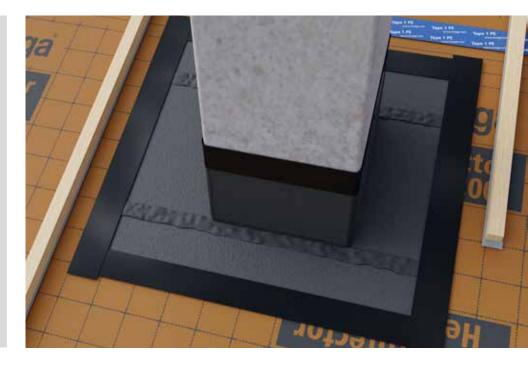
	1	r		r
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010302	02020309	1,5	50	2250

USB Fire Zero

QUICK OVERVIEW: STRENGTHS

The best fire resistant system

- Highly breathable membrane
- B_{roof} (t2) class, suitable for use under photovoltaic systems
- The best choice for protecting coverings and ventilated facades from fire
- The graphite layer protects every type of insulating material
- Perfect sealing of interruptions and joints with Fire Zero Liquid or Coll Fire B



<image>

- 2 Fiber glass
- \sim
- 3 Functional film in PP
- Protective layer in PP

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010341	-	1,1	20	528

System accessories for USB Fire Zero on page 175



Material		PP.PP.graphite
Film		PP
Colour		Antracite grey
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	720 g/m²
Membran thickness	EN 1849-2	1,20 mm
Sd value	EN ISO 12572	0,08 m
Water vapour permeability	EN ISO 12572	~ 250 g/m²/24 h
Watern column	EN 20811	>200 cm
Resistance to water passage	EN 1928 (Met. A)	W1
Tensile strength MD/CD*	EN 12311-1	300 / 275 N/50mm
Elongation MD/CD*	EN 12311-1	2-3 / 2-3 %
Tear resistance MD/CD*	EN 12310-1	180 / 220 N
Fire and attended	EN 13501-1	B-S1, d0
Fire reaction class	EN 13501-5	B _{roof} (t2)
UV stability		6 months

Innovations that make NEWS

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Il restio che si con tendo membrane quilla è allissimo.

The Eurostandard line features breathable membranes made of three-layer PP-composite. As the name suggests, these are standard products that have been used in the European market for years. The following properties of our Eurostandard product line reduce or prevent the risk of possible roof covering problems.

A) Raw material:

The breathable membrane is made of PP non-woven fabrics that are sufficiently UV and heat resistant, with nonslippery properties. These fleeces protect the grey, microporous functional membrane.

B) **Production process:**

To couple these long-term raw materials and make them functional, a technologically complex and specially developed production process is required. The entire production process, from the raw material to the finished product, is constantly monitored by our highly qualified production staff.

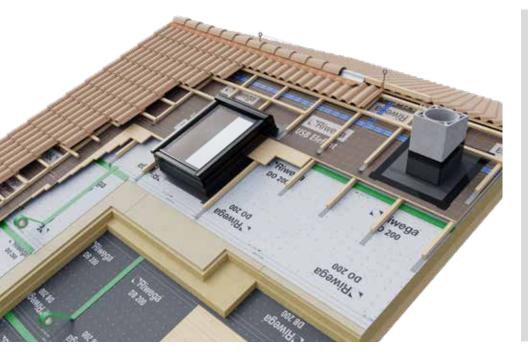
C) Mass per unit area:

By using different thicknesses of the upper and lower coating layer, different weights are obtained. The breathable membranes of the Eurostandard line weight 143 g/m², 155 g/m², 185 g/m² and 200 g/m². This range of materials covers all the requirements of the various European standards for tensile strength and protection against rain.

D) Guarantee:

Through the use of non-woven PP fabrics of standard quality and a microporous functional membrane in PP, a guarantee is issued on the Eurostandard line according to current regulations. Our technology expressly emphasizes that the different membranes of the Eurostandard line, as described in the technical sheet, must always be protected with the definitive roof covering layer as quickly as possible.

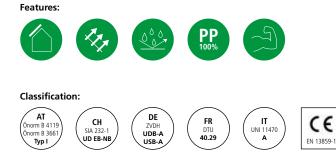
DO 200



QUICK OVERVIEW: STRENGTHS

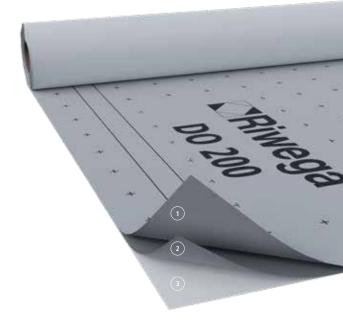
The 100% PP solution with high grammage

- Highly breathable, watertight membrane
- High grammage which ensures high mechanic performance
- High tearing resistance
- A non-slip surface allows easy laying
- 100% completely recyclable polypropylene



		_
Technical	data	sheet

PP.PP.PP		Material
PP		Film
Grey		Colour
NO		Use underneath PV panels
200 g/m²	EN 1849-2	Mass per unit area
0,80 mm		Thickness
0,02 m	EN ISO 12572	Sd value
~ 1000 g/m²/24 h	EN ISO 12572	Water vapour permeability
>200 cm	EN 20811	Watern column
passed	TU Berlin	Heavy rain test
W1	EN 1928 (Met. A)	Resistance to water passage
480 / 330 N/50mm	EN 12311-1	Tensile strength MD/CD*
75 / 120 %	EN 12311-1	Elongation MD/CD*
260 / 360 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
3 months		UV stability
-40°/+90°C		Temperature resistance



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Microporous film in PP (2)
 - Protective layer in PP (3)

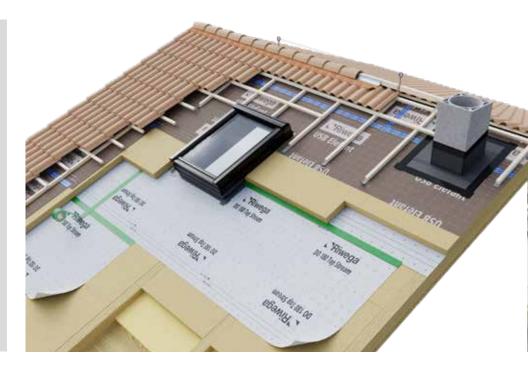
Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02010200	02020314	1,5	50	1500	

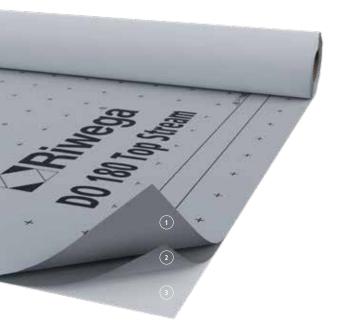
DO 180 Top Stream

QUICK OVERVIEW: STRENGTHS

The 100% PP solution with medium grammage

- Highly breathable, water-tight membrane
- High grammage which ensures high mechanic performance
- High tearing resistance
- The non-slip surface allows easy laying
- 100% in completely recyclable polypropylene





Composition:

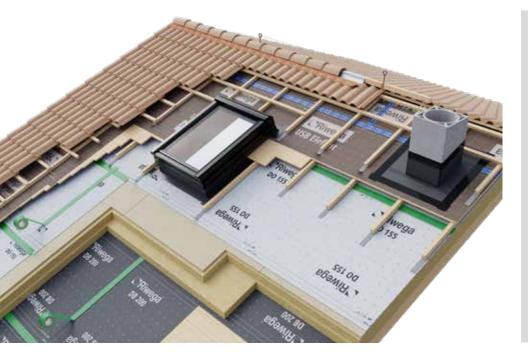
- 1 Protective UV stabilized, water repellent layer in PP
- 2 Microporous film in PP
- Protective layer in PP

Codes and i	measures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010180	02020317	1,5	50	1500



Material		PP.PP.PP	
Film		P	
Colour		Grey	
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	185 g/m²	
Thickness		0,83 mm	
Sd value	EN ISO 12572	0,04 m	
Water vapour permeability	EN ISO 12572	~ 1000 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	400 / 375 N/50mm	
Elongation MD/CD*	EN 12311-1	45 / 70 %	
Tear resistance MD/CD*	EN 12310-1	280 / 310 N	
Fire reaction class	EN 13501-1	E	
UV stability		3 months	
Temperature resistance		-40°/+90°C	

DO 155



QUICK OVERVIEW: STRENGTHS

The 100% PP solution with low grammage

- Highly breathable, watertight membrane
- Light membrane for roofs and resistant membrane for walls, perfect for windtightening of ventilated facades
- High tearing resistance
- The non-slip surface allows easy laying
- 100% in completely recyclable polypropylene



	-	-
Technical	data	sheet

PP.PP.PP		Material
PP		Film
Grey		Colour
NO		Use underneath PV panels
155 g/m²	EN 1849-2	Mass per unit area
0,60 mm		Thickness
0,02 m	EN ISO 12572	Sd value
~ 1000 g/m²/24 h	EN ISO 12572	Water vapour permeability
>200 cm	EN 20811	Watern column
passed	TU Berlin	Heavy rain test
W1	EN 1928 (Met. A)	Resistance to water passage
350 / 230 N/50mm	EN 12311-1	Tensile strength MD/CD*
75 / 115 %	EN 12311-1	Elongation MD/CD*
185 / 225 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
2 months		UV stability
-40°/+90°C		Temperature resistance



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Microporous film in PP (2)
 - Protective layer in PP (3)

Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02010190	02020312	1,5	50	1500	

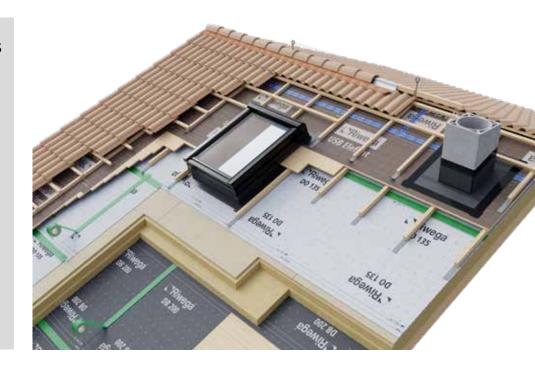
17

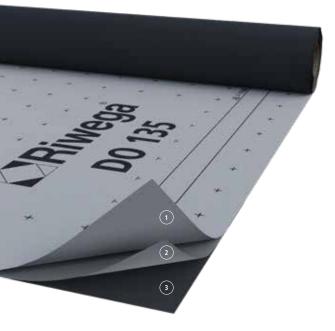
DO 135

QUICK OVERVIEW: STRENGTHS

The 100% PP solution with ultra-light grammage

- Highly breathable, watertight membrane
- The lightest roof membrane which is ideal for windtighting ventilated facades with closed joints
- High tearing resistance
- The non-slip surface allows easy laying
- 100% in completely recyclable polypropylene





Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- 2 Microporous film in PP
- 3 Protective layer in PP

Codes and	measures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010191	02020313	1,5	50	2250



Material		PP.PP.PP	
Film		PI	
Colour		Grey	
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	150 g/m²	
Thickness		0,60 mm	
Sd value	EN ISO 12572	0,03 m	
Water vapour permeability	EN ISO 12572	~ 1000 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	290 / 250 N/50mm	
Elongation MD/CD*	EN 12311-1	60 / 80 %	
Tear resistance MD/CD*	EN 12310-1	220 / 245 N	
Fire reaction class	EN 13501-1	E	
UV stability		2 months	
Temperature resistance		-40°/+90°C	

Separation layers for metal coverings

The structured separation layers ensure a regular discharge of the condensation water between the metal cover and the waterproof roofing membrane. The "micro-ventilation" guarantees the condensate's drying and reduces significantly the "rumble effect" of raindrops and hailstones. The separation layer has also the function to separate the metal covering from the substructure, thus avoiding corrosion damage.

Riwega's separation layers

The structured separation layers of Drenlam Riwega differ in the different raw materials:

A) USB Drenlam Diff TOP SK - USB Drenlam Light

The structured separation layer USB Drenlam Diff TOP SK and USB Drenlam Light is made of eight millimetres high, UV stabilized PP monofilaments with Carbon Black. Only pure virgin materials are used for their production, to obtain a structured separation layer without the addition of recycled materials.

B) USB Drenlam Bluetech

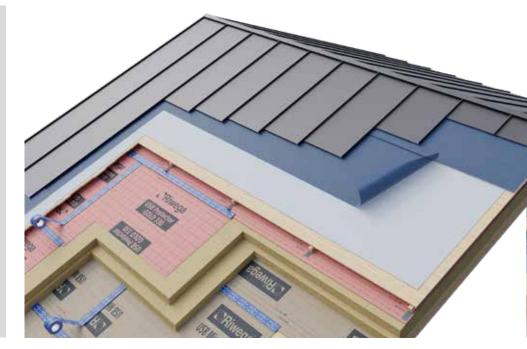
Only pure virgin materials are used for the production of the USB Drenlam Bluetech to obtain a structured separation layer without the addition of recycled materials; this guarantees a particularly high compressive strength of the 14 mm high monofilaments and excellent UV protection. Thanks to the excellent technical and mechanical properties and increased free space between the metal roof and the substructure, USB Drenlam Bluetech is one of the best separation layers for metal roofs. The special height of USB Drenlam Bluetech ensures optimal air circulation and drainage between the substructure and the roof. Moisture and condensation are eliminated and white rust is avoided. USB Drenlam Bluetech can be installed under any metal cover and, thanks to its high compressive strength, it offers reliable protection against any deformation of the metal coating.

USB Drenlam Bluetech

QUICK OVERVIEW: STRENGTHS

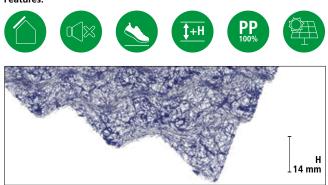
Noise preventing evolution which guarantees perfect drainage

- Separation layer for metal roofs
- High resistance to compressive loads like snow and photovoltaic panels
- Three-dimensional "blister" structure for better drainage of condensed water
- 100% virgin PP (nonrecycled) for guaranteed extended durability





Features:



Technical data sheet

Material	PP with neutral masterbatch	
Colour		Blue
Use underneath PV panels		YES
Mass per unit area	EN 1849-2	450 g/m²
Thickness		14 mm
Tensile strength MD/CD*	EN ISO 12311-1	63 / 28 N/50mm
Elongation MD/CD*	EN ISO 12311-1	55 / 55 %
Void ratio		min. 95 %
Fire reaction class	EN 13501-1	E
UV stability		3 months
Temperature resistance		-30°/+90°C
0 kPa	0 kg/m ²	14,5 mm (±10%)
2 kPa	200 kg/m ²	13,6 mm (±10%)
5 kPa	500 kg/m ²	13,2 mm (±10%)
10 kPa	1000 kg/m ²	12,6 mm (±10%)
15 kPa	1500 kg/m ²	11,8 mm (±10%)

Composition:

1 Three-dimensional structure in PP with neutral masterbatch

Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02064022	-	1,25	20	150

*MD = longitudinal CD = transversal

Note: due to the increased thickness, for a correct installation, use a "high-staple" fastening system (h=38mm) Riwega Srl is not responsible for negligent and improper use of its products

USB Drenlam Light



QUICK OVERVIEW: STRENGTHS

Universal sounddeadening layer in 100% polypropylene

- Separation layer for metal roofs
- Great sound-deadening effect
- Guarantees an optimal micro ventilation for the evacuation of condensation
- 100% virgin PP (nonrecycled) for guaranteed extended durability





Technical data sheet		
Material		PP with carbon black
Colour		Black
Use underneath PV panels		NO
Mass per unit area	EN 1849-2	350 g/m²
Thickness		8 mm
Tensile strength MD/CD*	EN ISO 12311-1	75 / 22 N/50mm
Elongation MD/CD*	EN ISO 12311-1	40 / 40 %
Void ratio		min. 95 %
Noise reduction	EN ISO 712-2	ΔLW 28 dB
Fire reaction class	EN 13501-1	E
UV stability		3 months
Temperature resistance		-40°/+90°C

Composition:

Three-dimensional netting in PP with carbon black (1)

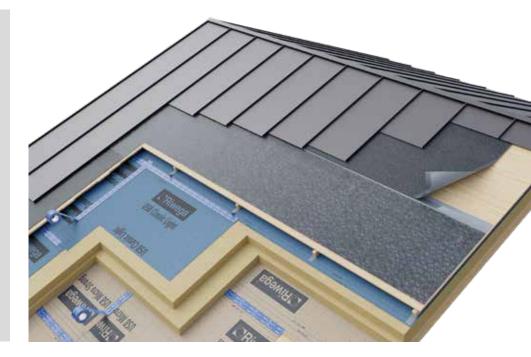
Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02064010	-	1,25	28	315	

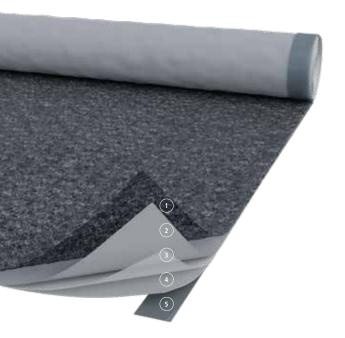
USB Drenlam Diff TOP SK

QUICK OVERVIEW: STRENGTHS

Stops noise and condensation

- Separation layer for metal roofs
- Unique because of the double integrated adhesive tape (TOP SK)
- Guarantees an optimal micro • ventilation for the evacuation of condensation
- 100% virgin PP (non-• recycled) for guaranteed extended durability





Composition:

- (1) Three-dimensional netting in PP with carbon black
- (2) Protective UV stabilized, water repellent layer in PP
- (3) Functional film in PP
- (4) Protective layer in PP with integrated adhesive tape
- (5) Silicone liner

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
-	02064011	1,5	24	324

Features:				
	10 years guarantee	Kap .		PP 100%





Material	PP 3 stra	ati + PP with carbon black		
Film		PP		
Colour		Black/Grey		
Use underneath PV panels		NO		
Mass per unit area	EN 1849-2	500 (150+350) g/m ²		
Thickness		8,75 (0,75+8) mm		
Sd value	EN ISO 12572	0,02 m		
Water vapour permeability	EN ISO 12572	~ 1000 g/m²/24 h		
Watern column	EN 20811	>200 cm		
Heavy rain test	TU Berlin	passed		
Resistance to water passage	EN 1928 (Met. A)	W1		
Tensile strength MD/CD*	EN 12311-1	300 / 190 N/50mm		
Elongation MD/CD*	EN 12311-1	60 / 70 %		
Tear resistance MD/CD*	EN 12310-1	150 / 190 N		
Void ratio		min. 95 %		
Noise reduction	EN ISO 712-2	ΔLW 28 dB		
Fire reaction class	EN 13501-1	E		
UV stability		3 months		
Temperature resistance		-40°/+90°C		

The wind-tightness protects the facade insulation from cold and hot outside air so that it cannot flow into the thermal insulation. The facade membrane must therefore always be installed outside or above the thermal insulation.

The Riwega solution for ventilated facades

The breathable, windproof and rainproof membranes for the permanent protection of the building envelope differ in two main characteristics:

- Multi-layer membrane, UV stable, breathable, for use on a facade with open joints;
- Breathable, multi-layer windproof membrane for use on a ventilated facade with closed joints;
 These are breathable, wind and rainproof membranes for permanent protection of the building envelope.

These, in turn, are characterized by:

A) Raw material:

To guarantee long-term UV stability to the USB Windtop UV and USB Windtop UV 210 breathable membranes, pure PUR is used, combined with a UV-stabilized and heat-resistant PET non-woven fabric. The three-layer breathable windproof membranes USB Wall 120 and DO 100 are composed of two stabilised non-woven fabrics, made by UV- and heat-resistant PP that protect the high-quality functional membrane with light grey colour.

B) **Production process:**

The UV stable PUR functional membrane is coupled to the PET nonwoven fabric by a laminating machine. The windproof breathable membranes, thanks to their low weight, can be calendared and heat-sealed.

USB Windtop UV

QUICK OVERVIEW: STRENGTHS

Protection that doesn't fear UV rays

- Waterproof breathable membrane
- The special polyurethane coating makes it particularly practical and resistant to UV rays
- Ideal membrane for waterproof and wind-tight thermal insulation in ventilated facades with open joints
- Black color for a low aesthetical impact



Features:







Technical data sheet

lechnical data sheet			
Material		PUR.PET	
Film		UV50 PUR	
Colour	Black		
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	160 g/m²	
Thickness		0,50 mm	
Sd value	EN ISO 12572	0,14 m	
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	300 / 170 N/50mm	
Elongation MD/CD*	EN 12311-1	25 / 30 %	
Tear resistance MD/CD*	EN 12310-1	130 / 160 N	
Fire reaction class	EN 13501-1	E	
UV stability	stable (joints up to max. 30 mm - max. 40 %)		
Weathering without final cladding		4 months	
Temperature resistance		-40°/+100°C	

$\label{eq:model} ^{*}\mathsf{MD} = \mathsf{longitudinal} \ \mathsf{CD} = \mathsf{transversal} \\ \mathsf{Riwega} \ \mathsf{Srl} \ \mathsf{is} \ \mathsf{not} \ \mathsf{responsible} \ \mathsf{for} \ \mathsf{negligent} \ \mathsf{and} \ \mathsf{improper} \ \mathsf{use} \ \mathsf{of} \ \mathsf{its} \ \mathsf{products} \\ \mathsf{rot} \ \mathsf{constraint} \ \mathsf{constraint}$



Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02010301	02020301	1,5	50	1500	

USB Windtop UV 210



QUICK OVERVIEW: STRENGTHS

UV resistance with increased weight

- Waterproof breathable membrane
- Increased mass per unit area for improved mechanical resistance
- Ideal membrane for waterproof and wind-tight thermal insulation in ventilated facades with open joints
- Black color for a low aesthetical impact
- Available in 1,5 m and 3 m version





Composition:

UV stable PUR functional film (1)

Protective layer in PET (2)

Codes	and	measures
Codes	anu	measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
020103015	-	1,5	50	1500
020103012	-	3,0	50	3000

Features:



Classification:

ΔΤ	$\langle \rangle$	
Önorm B 4119		
Önorm B 3661	UNI 11470	
Typ I	<u> </u>	E

CE
EN 13859-2

Technical data sheet

Material		PUR.PET	
Film		PUR	
Colour	Black		
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	210 g/m ²	
Thickness		0,54 mm	
Sd value	EN ISO 12572	0,15 m	
Water vapour permeability	EN ISO 12572	~ 200 g/m²/24 h	
Watern column	EN 20811	>300 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	360 / 250 N/50mm	
Elongation MD/CD*	EN 12311-1	20 / 25 %	
Tear resistance MD/CD*	EN 12310-1	180 / 280 N	
Fire reaction class	EN 13501-1	E	
UV stability	stable (joints up to max. 30 mm - max. 30 %)		
Weathering without final cladding		3 months	
Temperature resistance		-40°/+100°C	

*MD = longitudinal CD = transversal Riwega Srl is not responsible for negligent and improper use of its products 23

USB Wall 120

QUICK OVERVIEW: STRENGTHS

The essential membrane for ventilated facades with continuous cladding

- Highly breathable, watertight membrane
- Guarantees wind-tightness of the insulation of ventilated facades with continuous cladding
- Available in 3m height to speed up laying time



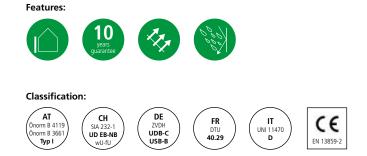


Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- 2 Functional film in PP
- Protective layer in PP

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010090	02020121	1,5	50	1500
020100900	-	3,0	50	3000



Material		PP.PP.PP	
Film	PF		
Colour		Grey	
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	120 g/m ²	
Thickness		0,65 mm	
Sd value	EN ISO 12572	0,02 m	
Water vapour permeability	EN ISO 12572	~ 1000 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	260 / 155 N/50mm	
Elongation MD/CD*	EN 12311-1	60 / 70 %	
Tear resistance MD/CD*	EN 12310-1	105 / 140 N	
Fire reaction class	EN 13501-1	E	
UV stability		3 months	
Temperature resistance		-40°/+100°C	

DO 100



QUICK OVERVIEW: STRENGTHS

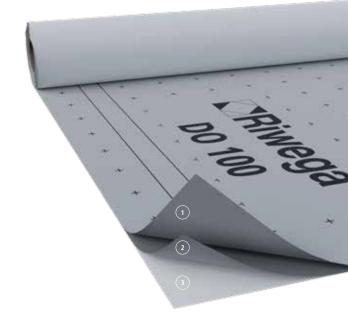
The ultra-light grammage solution for walls

- Highly breathable, watertight membrane
- The lightest membrane for wind-tightening and waterproofing ventilated facades with continuous cladding
- Made of 100% recyclable polypropylene



	-	_
Technical	data	choot
recificat	uata	sneet

PP.PP.PP		Material
PP		Film
Grey		Colour
NO		Use underneath PV panels
100 g/m²	EN 1849-2	Mass per unit area
0,40 mm		Thickness
0,03 m	EN ISO 12572	Sd value
~ 1000 g/m²/24 h	EN ISO 12572	Water vapour permeability
>200 cm	EN 20811	Watern column
passed	TU Berlin	Heavy rain test
W1	EN 1928 (Met. A)	Resistance to water passage
250 / 150 N/50mm	EN 12311-1	Tensile strength MD/CD*
80 / 120 %	EN 12311-1	Elongation MD/CD*
120 / 150 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
3 months		UV stability
-40°/+80°C		Temperature resistance



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Microporous film in PP (2)
 - Protective layer in PP ③

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010186	-	1,5	50	2250
020101860	-	3,0	50	4500

Superior Line

The vapour control layer, with airtight characteristics, has to be installed on the inside of the insulating package on the building envelope. The aim is to avoid hot airflow into the insulation and to regulate the migration of vapour, thus avoiding damages caused by condensation.

Superior Line

Riwega's vapour control layers

Riwega produces vapour control layers for the entire building envelope, both in light versions for indoor use and in heavier versions to be used above the roof structure and walkable for the subsequent working steps. Depending on the technical requirements, Riwega offers vapour control layers with a fixed Sd value of 2 m, 10 m and 20 m, or with variable Sd values (from 0,2 to 20 m), particularly interesting for renovations or roofs, for hot or flat roofs, situations in which it is often necessary to manage problems of poor transpiration of the outer layers. Thanks to this range of proposals, we can provide the optimal solution for a perfect building structure with controlled vapour diffusion in any construction situation. The products in the range differ in the following compositional characteristics:

A) Raw material:

Various high-quality raw materials are used to obtain products with different technical characteristics and to satisfy the offered 10-year guarantee.

B) Production process:

To couple these high-quality long-lasting raw materials and make them functional requires a technologically complex and specially prepared production process.

C) Mass per unit area:

The reduced weight of vapour control layers for inside walls is a fundamental factor for a simple, rapid and professional installation of the airtight layer; at the same time, to resist any insufflation of insulating material, tensile strength, rigidity and elongation features are required. For external installation on the roof structure (under the insulation) the mass per unit area of the product must be high, to guarantee mechanical and abrasion resistances so that they can be walked on and loaded mechanically.

USB Micro Strong



QUICK OVERVIEW: STRENGTHS

Top mechanical resistance

- Vapour control layer
- High tearing resistance

•

- Top abrasion resistance also when the product is laid on rough surfaces
- Regulates the vapour flow
- Ideal as a temporary waterproofing system during the different working phases on the working site





Material		PP.PP.PP
Film		PP
Colour		Beige
Mass per unit area	EN 1849-2	230 g/m ²
Thickness		1,06 mm
Sd value	EN ISO 12572	>2 m
Water vapour permeability	EN ISO 12572	~ 15 g/m²/24 h
Watern column	EN 20811	>900 cm
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	380 / 300 N/50mm
Elongation MD/CD*	EN 12311-1	50 / 65 %
Tear resistance MD/CD*	EN 12310-1	300 / 390 N
Fire reaction class	EN 13501-1	E
VOC class	ISO 16000	A+
UV stability		4 months
Temperature resistance		-40°/+100°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Functional film in PP (2)
 - Protective layer in PP (3)

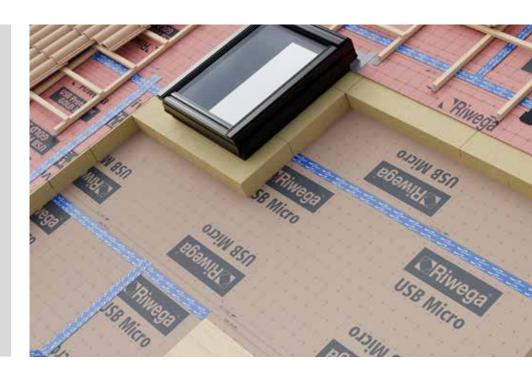
Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030195	02020191	1,5	50	1500

USB Micro

QUICK OVERVIEW: STRENGTHS

The first, the original

- Vapour control layer
- Regulates the passage of vapour
- High mechanical resistance
- Ideal also as a temporary waterproofing system during the different working phases on the working site
- More than 25 years of history in the market
- Great quality/price ratio





Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- 2 Functional film in PP
- 3 Protective layer in PP

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030140	02020141	1,5	50	1500
020301400	-	3,0	50	3000

Features:			5
Classification: CH SIA 232 VU-VO S1.2	IT UNI 11470 B	CE EN 13984	

Material		PP.PP.PP	
Film	PF		
Colour		Beige	
Mass per unit area	EN 1849-2	155 g/m²	
Thickness		0,78 mm	
Sd value	EN ISO 12572	>2 m	
Water vapour permeability	EN ISO 12572	~ 15 g/m²/24 h	
Watern column	EN 20811	>550 cm	
Water tightness	EN 13984	passed	
Tensile strength MD/CD*	EN 12311-1	310 / 240 N/50mm	
Elongation MD/CD*	EN 12311-1	70 / 80 %	
Tear resistance MD/CD*	EN 12310-1	190 / 230 N	
Fire reaction class	EN 13501-1	E	
VOC class	ISO 16000	A+	
UV stability		4 months	
Temperature resistance		-40°/+100°C	

USB Micro Light



QUICK OVERVIEW: STRENGTHS

The lightweight and handy solution for the inside

- Vapour control layer •
- Ideal to be laid as inside • protection of the wooden wall or ceiling structure
- Easy to be laid thanks to its • semi-transparency
- Regulates the passage of • vapour and guarantees a perfect wind-tight building envelope



EN 13984

Technical data shee	
	t.

Material		PP.PE.PP
Film		PE
Colour		Beige
	EN 1040 2	1 20/ ²
Mass per unit area	EN 1849-2	120 g/m ²
Thickness		0,57 mm
Sd value	EN ISO 12572	10 m
Water vapour permeability	EN ISO 12572	~ 3 g/m²/24 h
Watern column	EN 20811	>400 cm
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	210 / 160 N/50mm
Elongation MD/CD*	EN 12311-1	60 / 80 %
Tear resistance MD/CD*	EN 12310-1	180 / 220 N
Fire reaction class	EN 13501-1	E
UV stability		4 months
Temperature resistance		-40°/+100°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Functional film in PE (2)
 - Protective layer in PP (3)

Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02030115	-	1,5	50	1500	
020301150	-	3,0	50	3000	

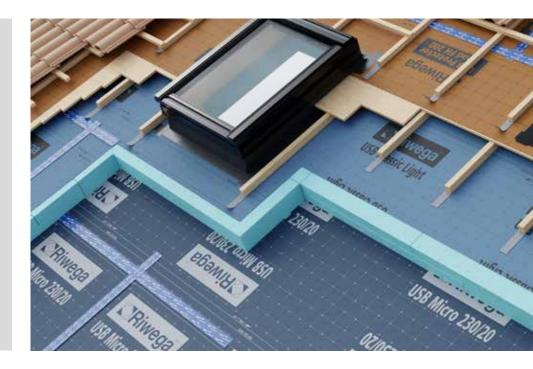
28

USB Micro 230/20

QUICK OVERVIEW: STRENGTHS

Low breathability with high mechanical resistance

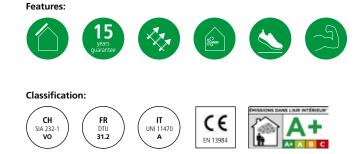
- Vapour control layer
- Indicated to be laid under insulating materials with low breathability
- High tearing resistance
- Indicated for installation in buildings with high water vapour concentration
- Ideal also as a temporary waterproofing system during the different building phases



Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- 2 Functional film in PP
- Protective layer in PP

Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02030230	02020126	1,5	50	1500	



Technical data sheet					
Material		PP.PP.PP			
Film		PP			
Colour		Dark blue			
Mass per unit area	EN 1849-2	220 g/m²			
Thickness		1,06 mm			
Sd value	EN ISO 12572	20 m			
Water vapour permeability	EN ISO 12572	~ 1,5 g/m²/24 h			
Watern column	EN 20811	>900 cm			
Water tightness	EN 13984	passed			
Tensile strength MD/CD*	EN 12311-1	400 / 280 N/50mm			
Elongation MD/CD*	EN 12311-1	60 / 70 %			
Tear resistance MD/CD*	EN 12310-1	250 / 320 N			
Fire reaction class	EN 13501-1	E			
VOC class	ISO 16000	A+			
UV stability		4 months			
Temperature resistance		-40°/+100°C			

USB Micro 100/20



QUICK OVERVIEW: STRENGTHS

Ultra-light with low breathability

- Vapour control layer
- Ideal as an inner cladding of the installed insulating material between wall and ceiling
- Easy to be laid thanks to its semi-transparency
- Suitable to be laid in buildings with high vapour concentration
- Regulates the passage of vapour and guarantees a perfect wind-tight building envelope



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Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Functional film in PE (2)

PP.PE		Material
PE		Film
Semi-transparent white		Colour
100 g/m²	EN 1849-2	Mass per unit area
0,42 mm		Thickness
20 m	EN ISO 12572	Sd value
~ 1,5 g/m²/24 h	EN ISO 12572	Water vapour permeability
>400 cm	EN 20811	Watern column
passed	EN 13984	Water tightness
180 / 120 N/50mm	EN 12311-1	Tensile strength MD/CD*
65 / 70 %	EN 12311-1	Elongation MD/CD*
80 / 90 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
A+	ISO 16000	VOC class
4 months		UV stability
-40°/+100°C		Temperature resistance

Technical data sheet

Codes and measures Code Code TOP SK Width (m) Length (m)

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030143	-	1,5	50	1500
020301430	-	3,0	50	3000

USB Micro 150 Vario

QUICK OVERVIEW: STRENGTHS

The upgrade of variable hygrometric

- Vapour control layer with variable hygrometric
- High tearing resistance due to heavy grammage
- Perfect for insufflation
- Perfect regulation of vapour passage based on temperature and humidity
- Easy drying of the bottom side during summer





Codes and measures					
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02030145	-	1,5	50	1500	



Technical data sheet

Material		PET.PA.PP	
Film	PA		
Colour		White	
Mass per unit area	EN 1849-2	150 g/m²	
Thickness		0,78 mm	
Sd value	EN ISO 12572	0,2 - 20 m	
Water vapour permeability	EN ISO 12572	~ 100 - 1 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Water tightness	EN 13984	passed	
Tensile strength MD/CD*	EN 12311-1	430 / 170 N/50mm	
Elongation MD/CD*	EN 12311-1	25 / 110 %	
Tear resistance MD/CD*	EN 12310-1	125 / 200 N	
Fire reaction class	EN 13501-1	E	
UV stability		3 months	
Temperature resistance		-40°/+100°C	

USB Micro 100 Vario



QUICK OVERVIEW: STRENGTHS

The ultra-light layer, able to adopt its hygrometric properties

- Hygrosensitive vapour control layer
- Ideal as a cladding for inside ٠ and outside of wooden structures
- Variable regulation of • vapour passage based on temperature and humidity
- Perfect to be used during • renovation works on the building envelope



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Composition:

- Functional film in PA (1)
- Support layer in PET (2)

s and n	neasures			
ode	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)

Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030144	-	1,5	50	2250
020301440	-	3,0	50	4500

PFT.PA		Material
PEI.PA		Material
PA	- I	
Semi-transparent white		Colour
100 g/m ²	EN 1849-2	Mass per unit area
0,30 mm		Thickness
0,2 - 20 m	EN ISO 12572	Sd value
~ 100 - 1 g/m²/24 h	EN ISO 12572	Water vapour permeability
>200 cm	EN 20811	Watern column
passed	EN 13984	Water tightness
210 / 190 N/50mm	EN 12311-1	Tensile strength MD/CD*
35 / 35 %	EN 12311-1	Elongation MD/CD*
59 / 65 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
A+	ISO 16000	VOC class
3 months		UV stability
-40°/+100°C		Temperature resistance

Technical data sheet

The vapour control layer, with airtight characteristics, has to be installed on the inside of the insulating package on the building envelope. The aim is to avoid hot airflow into the insulation and to regulate the migration of vapour, thus avoiding damages caused by condensation.

Eurostandard Line

Riwega's vapour control layers

Riwega produces vapour control layers for the entire building envelope, both in light versions for indoor use and in heavier versions to be used above the roof structure and walkable, for the subsequent building phases. Depending on the technical requirements, Riwega offers steam brake screens with a fixed Sd value of 2 m, 5 m, 6 m and 20 m. The products in the range differ in the following compositional characteristics:

A) Raw material:

The vapour barrier layer is made of PP non-wovens, which are sufficiently resistant to UV and heat, with non-slip properties to obtain products with different technical characteristics and to meet the legal warranties.

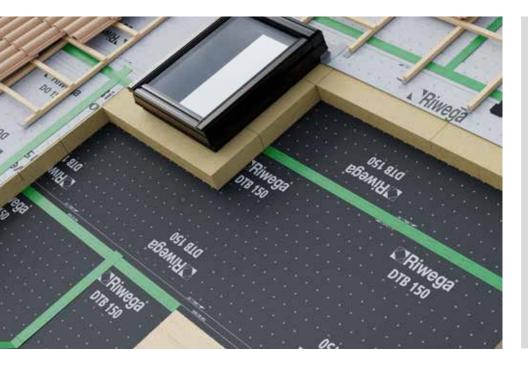
B) Production process:

To couple these long-term raw materials and make them functional, a technologically very complex and specially designed production process is required. The entire production process, from the raw material to the finished product, is constantly monitored by our highly qualified production staff.

C) Mass per unit area:

By using different thicknesses of the upper and lower coating layer, different weights are obtained. The Eurostandard line vapour control layers weight 140 g/m², 150 g/m², 155 g/m² and 200 g/m². This range of materials covers all the mechanical requirements for the creation of layers for controlling the passage of steam and airtightness in various construction situations.

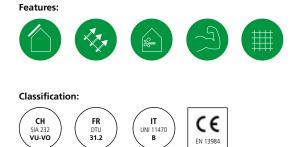
DTB 150



QUICK OVERVIEW: STRENGTHS

The easy and effective reinforced choice

- Vapour control layer
- High tearing resistance thanks to reinforcing mesh
- Regulates the vapour flow
- Guaranteed non-slip surface during all roof building stages



Technical data sheet		
Material		Reinforced PE
Film		PP
Colour		Black
Mass per unit area	EN 1849-2	150 g/m²
Thickness		0,55 mm
Sd value	EN ISO 12572	>5 m
Water vapour permeability	EN ISO 12572	~ 4 g/m²/24 h
Watern column	EN 20811	>200 cm
Water tightness	EN 1928 (Met. A)	passed
Tensile strength MD/CD*	EN 12311-1	330 / 400 N/50mm
Elongation MD/CD*	EN 12311-1	40 / 50 %
Tear resistance MD/CD*	EN 12310-1	350 / 310 N
Fire reaction class	EN 13501-1	E
UV stability		3 months
Temperature resistance		-40°/+90°C



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Polyethilene reinforcing mesh (2)
- Functional film in PP, watertight and lightly breathable (3)
 - Protective layer in PP (4)

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030150	-	1,5	50	2250

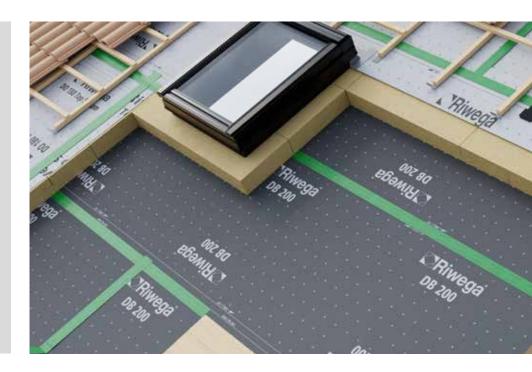
33

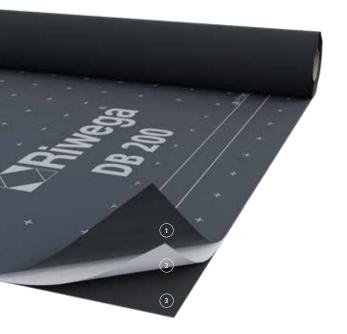
DB 200

QUICK OVERVIEW: STRENGTHS

Easy and effective choice with high grammage

- Vapour control layer
- High tearing resistance
- Regulates the vapour flow
- Ideal as a temporary waterproofing system during the different working phases on the working site





Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- (2) Functional film in PP, watertight and lightly breathable
- Protective layer in PP

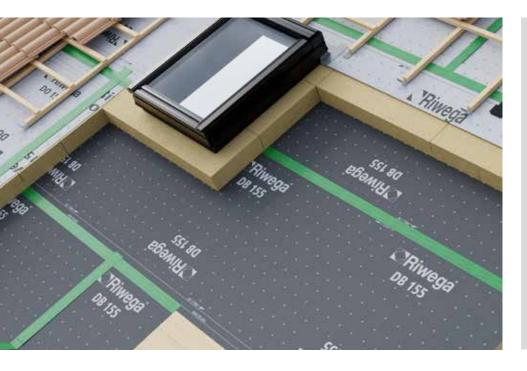
Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030200	02020316	1,5	50	1500



Technical data sheet

Madadal			
Material		PP.PP.PP	
Film		PP	
Colour		Antracite grey	
Mass per unit area	EN 1849-2	200 g/m ²	
Thickness		0,80 mm	
Sd value	EN ISO 12572	6 m	
Water vapour permeability	EN ISO 12572	~ 3 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Water tightness	EN 1928 (Met. A)	passed	
Tensile strength MD/CD*	EN 12311-1	480 / 330 N/50mm	
Elongation MD/CD*	EN 12311-1	75 / 120 %	
Tear resistance MD/CD*	EN 12310-1	260 / 360 N	
Fire reaction class	EN 13501-1	E	
UV stability		3 months	
Temperature resistance		-40°/+90°C	

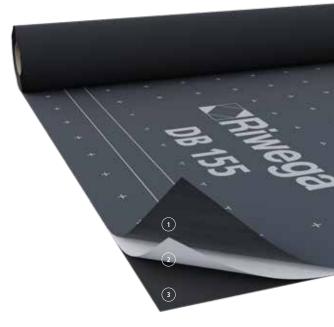
DB 155



QUICK OVERVIEW: STRENGTHS

Easy and effective choice with medium grammage

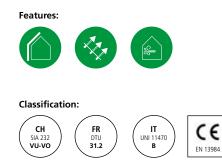
- Vapour control layer
- Light membrane for roofs and resistant membrane for walls
- Regulates the vapour flow
- Ideal also as a temporary waterproofing system during the different working phases on the working site



Composition:

- Protective UV stabilized, water repellent layer in PP (1)
- Functional film in PP, watertight and lightly breathable (2)
 - Protective layer in PP (3)

Codes and r	neasures			
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030190	02020311	1,5	50	1500



Technical data sheet		
Material		PP.PP.PP
Film		PP
Colour		Antracite grey
Mass per unit area	EN 1849-2	155 g/m²
Thickness		0,60 mm
Sd value	EN ISO 12572	2 m
Water vapour permeability	EN ISO 12572	~ 15 g/m²/24 h
Watern column	EN 20811	>200 cm
Water tightness	EN 1928 (Met. A)	passed
Tensile strength MD/CD*	EN 12311-1	350 / 230 N/50mm
Elongation MD/CD*	EN 12311-1	75 / 115 %
Tear resistance MD/CD*	EN 12310-1	185 / 225 N
Fire reaction class	EN 13501-1	E
UV stability		3 months
Temperature resistance		-40°/+90°C

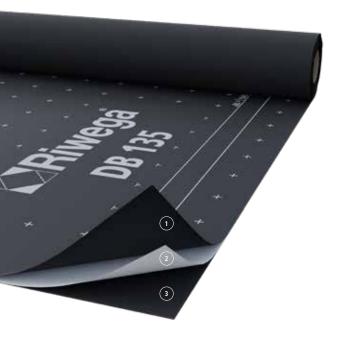
DB 135

QUICK OVERVIEW: STRENGTHS

Easy and effective choice with low grammage

- Vapour control layer
- Regulates the passage of vapour and guarantees a perfect wind-tight building envelope
- Ideal as an inner cladding of the installed insulating material between wall and ceiling
- Easy and quick to install thanks to its lightweight

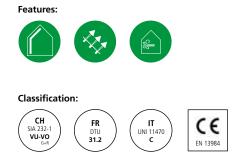




Composition:

- 1 Protective UV stabilized, water repellent layer in PP
- (2) Functional film in PP, impermeabile e leggermente traspirante
- 3 Protective layer in PP

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02030135	-	1,5	50	2250



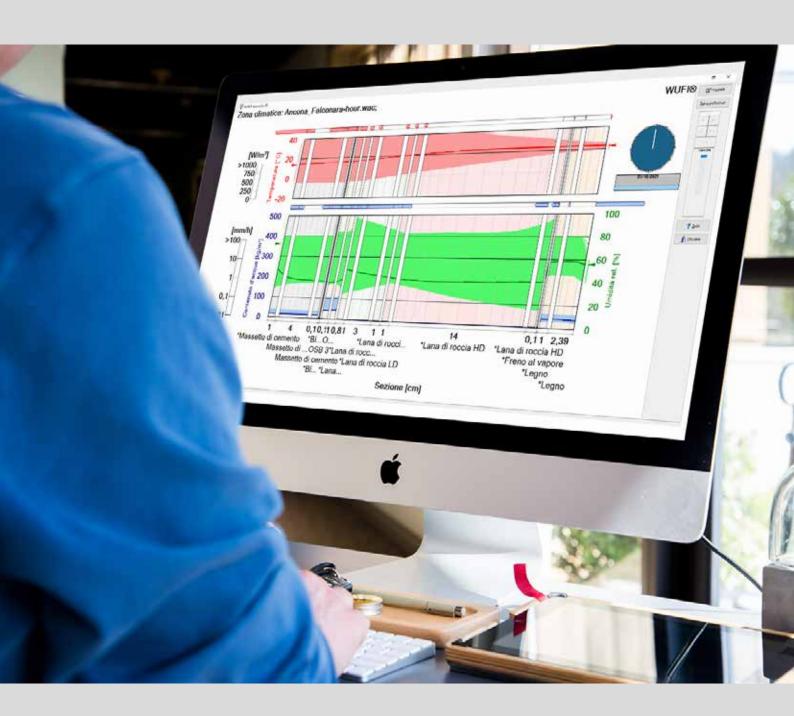
Technical data sheet

Material		PP.PP.PP	
Film		PI	
Colour		Black	
Mass per unit area	EN 1849-2	140 g/m²	
Thickness		0,30 mm	
Sd value	EN ISO 12572	20 m	
Water vapour permeability	EN ISO 12572	~ 1,5 g/m²/24 h	
Watern column	EN 20811	>200 cm	
Water tightness	EN 1928 (Met. A)	passed	
Tensile strength MD/CD*	EN 12311-1	250 / 180 N/50mm	
Elongation MD/CD*	EN 12311-1	50 / 50 %	
Tear resistance MD/CD*	EN 12310-1	65 / 65 N	
Fire reaction class	EN 13501-1	E	
UV stability		3 months	
Temperature resistance		-40°/+90°C	

*MD = longitudinal CD = transversal

Hygrotherm Europe

Hygrotherm Europe is an advanced technical support tool, essential to assist the professional technician or installer in the evaluation of the risk phenomena of surface condensation, mould and interstitial condensation. The result of the calculation will be a report flanked by the product's laying specifications and by graphics from which we can understand the behaviour of the structure at a thermohygrometric level, any problems and solutions to have the best possible solution. Hygrotherm Europe uses the Wufi[®] software (developed by the Fraunhofer IBP Institute) specifically for performing hourly hygrothermal simulations in dynamic mode by the UNI EN 15026 standard, and therefore indispensable for evaluating the water content and temperature in the building element for now. Hygrotherm Europe can be used internationally. The dynamic simulation is supported by the Metonorm software, or a database of meteorological information, such as global radiation, temperature, humidity, rainfall, wind speed and direction and duration of sunshine for any location in the world.



Vapour barriers

The vapour barrier with air tightening qualities, has to be laid on the inside of the building envelope's insulating package. The aim is to prevent hot airflow into the insulation and to block the migration of vapour, thus avoiding damage by condensation. The vapour barrier is used only in cases of extreme necessity, in structures and insulation packages where there is not the slightest possibility of drying out humidity either from the outside or from the inside. The use of vapour barriers with total blocking of vapour migration requires increased room ventilation which can occur either manually (by opening the windows) or automatically through the use of CMV systems (Controlled Mechanical Ventilation); otherwise, the risk of mould or stagnation of humidity on the building's internal surfaces would increase significantly.

Riwega's vapour barriers

Riwega offers vapour barriers for the entire building envelope, both in light versions for indoor use and in heavier versions to be used on the roof structure, which are walkable during the subsequent building phases. Depending on the technical requirements Riwega offers vapour barriers of different constitution:

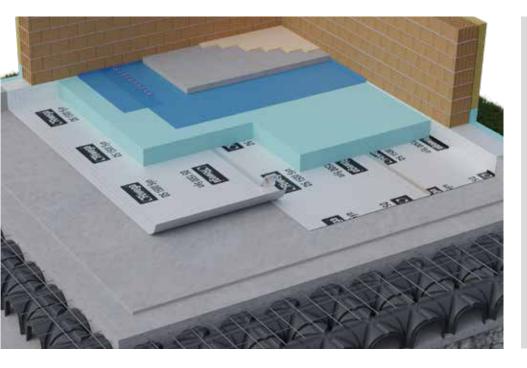
A) Synthetic:

They are based on polyethylene, polyethylene/aluminium or polypropylene/aluminium and can be used as barriers on the internal side of walls and false ceilings or under-screed; the PP / ALU version also has an effective Radon barrier function.

B) Bituminous:

They are bitumen based, coupled with polypropylene non-woven fabrics or quartz sand; they are normally used as vapour barriers in roofs, or as the last waterproofing layer of the roof formwork, creating under-ventilated planking in packages with double ventilation.

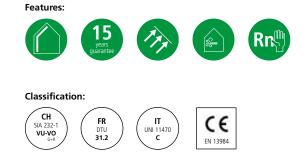
DS 1500 SYN



QUICK OVERVIEW: STRENGTHS

Shield against vapour and radon gas

- Vapour barrier
- Certified as a vapour and radon gas barrier
- Ideal for the protection of internal insulation of a reinforced concrete wall
- Reflecting, waterproof, airand windtight, light and handy vapour barrier



Technical data sheet		
Material		PP.PE.Alu.PE.PP
Colour		White
Mass per unit area	EN 1849-2	130 g/m²
Thickness		0,45 mm
Sd value	EN ISO 12572	>1500 m
Water vapour permeability	EN ISO 12572	~ 0,02 g/m²/24 h
Watern column	EN 20811	-
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	170 / 110 N/50mm
Elongation MD/CD*	EN 12311-1	60 / 45 %
Tear resistance MD/CD*	EN 12310-1	75 / 90 N
Fire reaction class	EN 13501-1	E
Radon gas diffusion (D)	ISO 11665-10	1,64 x 10 ⁻¹⁴ m ² s ⁻¹
Temperature resistance		-40°/+100°C

	AAMBA
Composit	tion:
Protective layer in PP	1
Film in PE	2

- Aluminium film ③
 - Film in PE (4)
- Protective layer in PP 5

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02064007	-	1,5	50	2250

DS 188 ALU

QUICK OVERVIEW: STRENGTHS

The most performing vapour barrier with reflecting effect

- Vapour barrier
- In counter-walls and falseceilings the reflecting surface increases the internal heat reflection
- High mechanical resistance thanks to its reinforcing mesh
- Minimizes the passage of water vapour and guarantees a perfect airtight building envelope





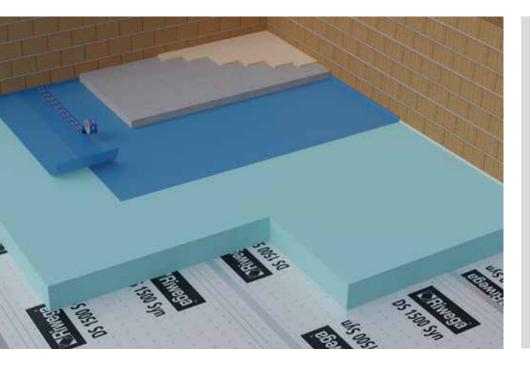


Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02064008	-	1,5	50	3000



Technical data sheet		
Material		Reinforced PE.Alu
Colour		Aluminium
Mass per unit area	EN 1849-2	170 g/m²
Thickness		0,30 mm
Sd value	EN ISO 12572	200 m
Water vapour permeability	EN ISO 12572	~ 0,2 g/m²/24 h
Watern column	EN 20811	-
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	290 / 260 N/50mm
Elongation MD/CD*	EN 12311-1	15 / 15 %
Tear resistance MD/CD*	EN 12310-1	180 / 180 N
Fire reaction class	EN 13501-1	E
UV stability		-
Temperature resistance		-40°/+80°C

DS 65 PE



QUICK OVERVIEW: STRENGTHS

The multipurpose barrier 100% in PE

- Vapour barrier
- Only 3 m height available to ease and speed up laying time
- Ideal to be laid under the screeds as a separation and sliding layer
- Minimizes the passage of water vapour and guarantees a perfect airtight building envelope



Technical data sheet		
Material		PE
Colour	S	iemi-transparent light blue
Mass per unit area	EN 1849-2	188 g/m²
Thickness		0,20 mm
Sd value	EN ISO 12572	140 m
Water vapour permeability	EN ISO 12572	~ 0,2 g/m²/24 h
Watern column	EN 20811	-
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	175 / 160 N/50mm
Elongation MD/CD*	EN 12311-1	500 / 570 %
Tear resistance MD/CD*	EN 12310-1	130 / 135 N
Fire reaction class	EN 13501-1	E
UV stability		-
Temperature resistance		-20°/+80°C



Composition:

Film in PE (1)

Codes and r	Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)	
02064006	-	3,0	33	3960	

DS 46 PE

QUICK OVERVIEW: STRENGTHS

The light and handy semitransparent barrier

- Vapour barrier
- Great mechanical resistance, thanks to the central reinforcing mesh
- Easy to be laid thanks to its semi-transparency
- Minimizes the passage of water vapour and guarantees a perfect airtight building envelope



Features:



	/
	(2)
	(3)
Composition:	
1 Film in PE	
PET reinforcin	ig mesh

reatures:	10 years guarantee	177		
Classificatio	ON:	IT UNI 11470 D	CE EN 13984	

Technical data sheet		
Material		reinforced PE
Colour		Semi-transparent white
Mass per unit area	EN 1849-2	110 g/m²
Thickness		0,22 mm
Sd value	EN ISO 12572	40 m
Water vapour permeability	EN ISO 12572	~ 0,6 g/m²/24 h
Watern column	EN 20811	-
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	220 / 190 N/50mm
Elongation MD/CD*	EN 12311-1	30 / 35 %
Tear resistance MD/CD*	EN 12310-1	155 / 145 N
Fire reaction class	EN 13501-1	F
UV stability		-
Temperature resistance		-40°/+80°C

ſ	Codes and measures				
	Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
	02064009	-	1,5	50	6000

3 Film in PE

Bituminous vapour barriers

DS 28 750 PP TOP SK

EN 1849-2	700 g/m²
	0,9 mm
	95 m
	bituminous
EN 12311-1	530 / 350 N/50mm
EN 12310-1	200 / 200 N
	02064019
	EN 12311-1

DS 48 1000 PP / DS 48 1000 PP TOP SK

EN 1849-2	1000 g/m²
	1,0 mm
	106 m
	acrylic
EN 12311-1	470 / 360 N/50mm
EN 12310-1	195 / 220 N
	02064014 / 02064012
	EN 12311-1

DS 48 1100 PP / DS 48 1100 PP TOP SK

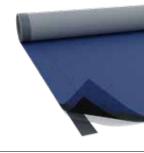
	-	
Mass per unit area	EN 1849-2	1100 g/m²
Thickness		1,1 mm
Sd value		152 m
TOP SK glue type		acrylic
Tensile strength MD/CD*	EN 12311-1	700 / 440 N/50mm
Tear resistance MD/CD*	EN 12310-1	220 / 230 N
Code / Code TOP SK		02064005 / 02064020

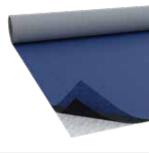
DS 48 1300 TOP SK

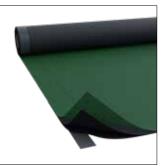
	511 4 6 4 6 9	
1300 g/m ²	EN 1849-2	Mass per unit area
1,3 mm		Thickness
152 m		Sd value
acrylic		TOP SK glue type
730 / 450 N/50mm	EN 12311-1	Tensile strength MD/CD*
250 / 250 N	EN 12310-1	Tear resistance MD/CD*
02064013		Code TOP SK

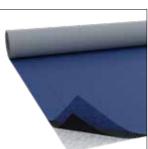
DS 48 2200 TOP SK PP-S

Mass per unit area	EN 1849-2	2200 g/m ²
Thickness		1,8 mm
Sd value		213 m
TOP SK glue type		bituminous
Tensile strength MD/CD*	EN 12311-1	930 / 540 N/50mm
Tear resistance MD/CD*	EN 12310-1	360 / 370 N
Code TOP SK		02064018













41

Auto-adhesive screens and membranes

VSK is a product line of breathable membranes, vapour control layers and vapour barriers with self-adhesive surfaces. Today, these innovations make it possible to facilitate and speed up the installation of roof, floor or wall membranes. Another major advantage is that these membranes adhere to the surface over the entire area, which makes them more resistant to mechanical effects such as foot traffic or weathering.

VSK vapour retarders, barriers and breathable membranes are divided into the following models:

A) VSK Classic Light

Breathable, waterproof membrane with acrylic dispersion adhesive, suitable for the protection of walls, floors and timber roofs during the construction phase and the exterior protection of timber-concrete wall joints.

B) VSK Clear 280

The vapour barrier with acrylic dispersion adhesive is suitable for the protection of structures during transport and construction phases. Transparent, with non slippery surface.

C) VSK DS 1500 SYN

This vapour barrier with acrylic dispersion adhesive is certified as a radon gas barrier. It is ideal for use under subfloors and can also be used as a vapour barrier on flat roofs with a wooden structure.

D) VSK Bitum Reflex 1200 AS

The vapour barrier with non-slip surface and bitumen adhesive for increasing nail and /or screw tightness. It is ideal for under-ventilated timber sheathing and/or under metal roofs, e.g. in combination with the USB Drenlam Bluetech membrane.

E) VSK Bitum Reflex 1200

The vapour barrier with bitumen adhesive ideal for installation on flat roofs and floors with a concrete structure.

F) VSK Bitum Reflex 400

The vapour barrier with bitumen adhesive, lightweight, certified for installation on trapezoidal sheet metal according to DIN 18234-1.

G) VSK Bitum ARD

This vapour barrier with bitumen adhesive is ideal on under-ventilated roof boarding as an additional waterproofing layer under roof tiles or for waterproofing low-pitched concrete roofs, car parking areas or open timber roofing.

VSK Classic Light



QUICK OVERVIEW: STRENGTHS

The self-adhesive breathable membrane

- Breathable, waterproof membrane, adhesive over the entire surface
- Protection of structures during transport and construction phases
- External protection on wood - concrete wall connection
- Acrylic dispersion-based adhesive

new product



Classification:

AT Önorm B 4119 Önorm B 3661 Typ II	CH SIA 232-1 UD EB-NB wU-fU	DE ZVDH UDB-A USB-A	FR DTU 40.29 31.2	IT UNI 11470 A	CE EN 13859-1/2
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Technical data sheet

PP-composite		Material
UV10 Bikom		Film
Light blue		Colour
NO		Use underneath PV panels
220 g/m²	EN 1849-2	Mass per unit area
120 g/m²		Glue weight
125 + 25 cm		Pre-cutted liner
0,12 m	EN ISO 12572	Sd value
~ 200 g/m²/24 h	EN ISO 12572	Water vapour permeability
>400 cm	EN 20811	Watern column
passed	TU Berlin	Heavy rain test
W1	EN 1928 (Met. A)	Resistance to water passage
220 / 180 N/50mm	EN 12311-1	Tensile strength MD/CD*
90 / 100 %	EN 12311-1	Elongation MD/CD*
200 / 230 N	EN 12310-1	Tear resistance MD/CD*
E	EN 13501-1	Fire reaction class
6 months		UV stability
-40°/+100°C		Temperature resistance
+5°/+40°C		Working temperature

Composition:

- Protective UV stabilized, water repellent layer in PP (1)
 - Film UV10 Bikom, monolithic, elastic 2
 - Acrylic dispersion-based adhesive ③
 - Re-cut liner 25/125 cm (4)

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065010	-	1,5	30	1080

VSK Clear 280

QUICK OVERVIEW: STRENGTHS

The self-adhesive vapour control layer, transparent and anti-slip

- Vapour control layer, adhesive on the entire surface
- Protection of structures • during transport and construction phases
- Transparent, with non • slippery surface



- June -

IT UNI 11470 A

5 (

CE EN 13984

EN 1849-2

EN ISO 12572

EN ISO 12572

EN 20811

EN 13984

EN 12311-1

EN 12311-1

EN 12310-1

EN 13501-1

Features:

Classification:

FR DTU 31.2

Technical data sheet

CH SIA 232 VU-VO

Material

Film

Colour

Mass per unit area

Glue weight

Sd value

Pre-cutted liner

Watern column

Water tightness

Elongation MD/CD*

Fire reaction class

UV stability

Water vapour permeability

Tensile strength MD/CD*

Tear resistance MD/CD*

Temperature resistance

Working temperature

new product



- (1) Functional film in EVA
- (2) PP non-woven fabric
- (3) Modified acrylic dispersion-based adhesive
- (4) Pre-cutted liner 25 cm

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet
02065050	-	1,5	30	1080 m ²
02065051	-	0,75	30	480 m
02065052	-	0,375	30	960 m



EVA.PP

290 g/m²

110 g/m²

> 3 m

>550 cm

104 / 90 %

npd**

3 months -40°/+100°C

-5°/+40°C

Ε

W1

Semi-transparent white

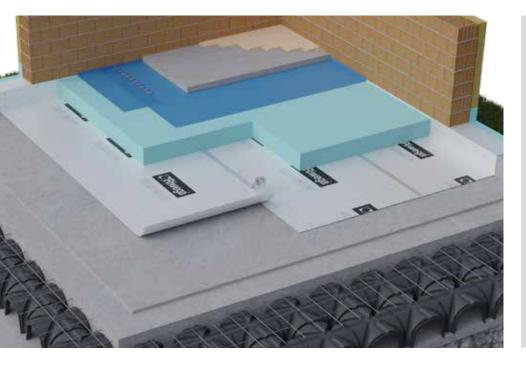
25 + 125 / 50 / 12,5 cm

~ 15 g/m²/24 h

130 / 90 N/50mm

EVA

VSK DS 1500 SYN



QUICK OVERVIEW: STRENGTHS

The self-adhesive radon and vapour barrier

- Vapour barrier, adhesive on • the whole surface
- Certified as radon gas barrier, • ideal for under screed laying
- Vapour barrier screen on flat • roofs with wooden structure
- Acrylic dispersion-based adhesive

new product

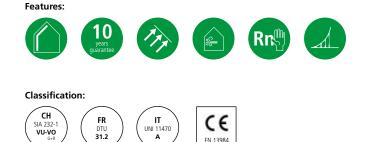


Composition:

- Protective layer in PP (1)
- Film in PE and aluminium (2)
 - Protective layer in PP (3)
- Acrylic dispersion-based adhesive (4)
 - Re-cut liner 25/125 cm (5)

Codes and measures

Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065030	-	1,5	30	1080



EN 13984

Technical data sheet

Material		PP.PE.Alu.PE.PP
Colour		White
Mass per unit area	EN 1849-2	235 g/m²
Glue weight		100 g/m ²
Pre-cutted liner		125 + 25 cm
Sd value	EN ISO 12572	>1500 m
Water vapour permeability	EN ISO 12572	~ 0,02 g/m²/24 h
Watern column	EN 20811	>200 cm
Water tightness	EN 13984	passed
Tensile strength MD/CD*	EN 12311-1	170 / 110 N/50mm
Elongation MD/CD*	EN 12311-1	60 / 45 %
Tear resistance MD/CD*	EN 12310-1	75 / 90 N
Fire reaction class	EN 13501-1	E
Radon gas diffusion (D)	ISO 11665-10	1,64 x 10 ⁻¹⁴ m ² s ⁻¹
UV stability		3 months
Temperature resistance		-40°/+100°C
Working temperature		+5°C / +40°C

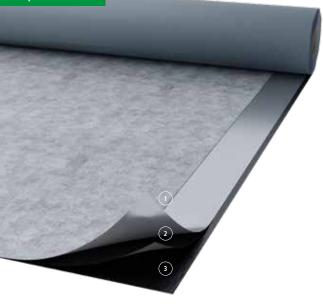
VSK Bitum Reflex 1200 AS

QUICK OVERVIEW: STRENGTHS

Self-sealing, self-adhesive waterproof bituminous underlayment with non-slip surface

- Vapour barrier, adhesive on the whole surface
- Ideal on under-ventilated plankings under metal covers
- The perfect solution in combination with USB Drenlam Bluetech
- Increases nail/screw sealing
- Bitumen-based adhesive

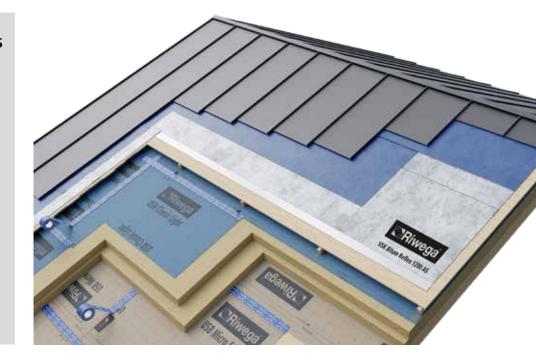




Composition:

- 1 Composite aluminium foil with non-slip surface
- 2 Self-adhesive modified bitumen
- 3 Silicone liner

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065033	-	1	25	625



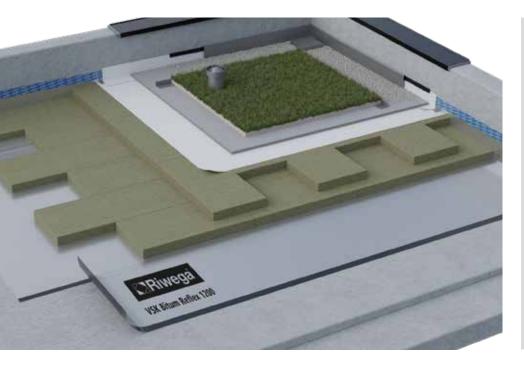
Features:



Technical data sheet

Material	Self-adhes	Self-adhesive bituminous compound		
Finishing	Matt anti-slip aluminum			
Colour		Aluminium grey		
Mass per unit area	EN 1849-1	~ 1200 g/m²		
Thickness	EN 1849-1	1,2 mm		
Sd value	EN ISO 12572	>1500 m		
Water tightness (≥60kPa)	EN 1928 (Met. A)	passed		
Tensile strength MD/CD*	EN 12311-1	220 / 220 N/50mm		
Elongation MD/CD*	EN 12311-1	40 / 40 %		
Tear resistance MD/CD*	EN 12310-1	180 / 180 N		
Desistence to static numbine	EN 12730 (Met. A)	15 kg		
Resistance to static punching	EN 12730 (Met. B)	20 kg		
Peel strength at the joints	EN 12316-1	35 N/50 mm		
Fire reaction class	EN 13501-1	E		
Flexibility at low temperatures	EN 1109	-30°C		
Working temperature		+0°/+40°C		
Temperature resistance		-40°/+80°C		
Flow resistance at elevated temp.	EN 1110	≥ +80°C		

VSK Bitum Reflex 1200

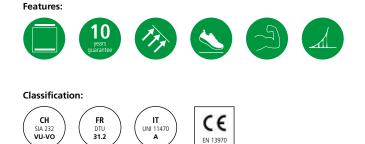


QUICK OVERVIEW: STRENGTHS

Self-adhesive vapour barrier for ceilings and flat roofs

- Vapour barrier, adhesive on the whole surface
- Ideal for installation on flat roofs and concrete ceilings
- Fully vapour impermeable, with reflective surface
- Bitumen-based adhesive

new product



Technical data sheet

Material	Self-adhesive bituminous compound		
Finishing	Composite aluminium foil		
Colour		Reflective aluminium grey	
Mass per unit area	EN 1849-1	~ 1200 g/m²	
Thickness	EN 1849-1	1,2 mm	
Sd value	EN 1931	>1500 m	
Water tightness (10kPa)	EN 1928 (Met. A)	passed	
Tensile strength MD/CD*	EN 12311-1	470 / 320 N/50mm	
Elongation MD/CD*	EN 12311-1	3 / 3 %	
Tear resistance MD/CD*	EN 12310-1	120 / 120 N	
Peel strength at the joints	EN 12317-1	≥250 N/50mm	
Straightness	EN 1848-1	<20 mm/10m	
Resistance to shock loads	EN 12691	npd**	
Fire reaction class	EN 13501-1	E	
Flexibility at low temperatures	EN 1109-1	-25°C	
Working temperature		≥ +10°C	
Flow resistance at elevated temp.	EN 1110	+80°C	

2	
3	

Composition:

- Composite aluminium foil 🕦
- Self-adhesive modified bitumen (2)
 - Silicone liner ③

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065031	-	1	20	400

at

46

R2

**no performance determinated

*MD = longitudinal CD = transversal

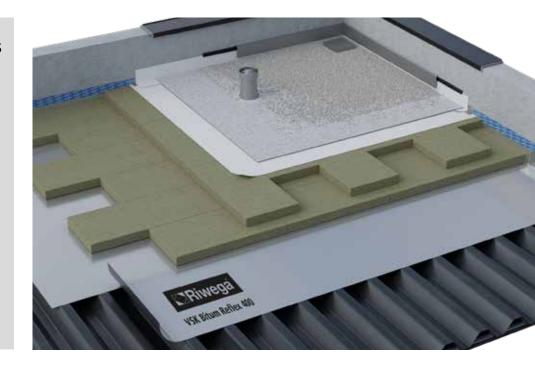
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VSK Bitum Reflex 400

QUICK OVERVIEW: STRENGTHS

Self-adhesive vapour barrier, certified for installation on industrial buildings

- Vapour barrier, adhesive on the whole surface
- Complies with DIN 18234-1: structural fire protection on large roofs
- Ideal for installation over corrugated sheet
- Bitumen-based adhesive





- (1) Composite aluminium foil
- 2 Fibre mesh of glass
- (3) Self-adhesive modified bitumen
- (4) Silicone liner

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065032	-	1,08	50	1.080



Technical data sheet

Material	Self-adhesive bituminous compound		
Finishing	Composite aluminium fo		
Colour		Reflective aluminium grey	
Mass per unit area	EN 1849-1	~ 400 g/m²	
Thickness	EN 1849-1	0,4 mm	
Sd value	EN 1931	>1500 m	
Water tightness (10kPa)	EN 1928 (Met. A)	passed	
Tensile strength MD/CD*	EN 12311-1	800 / 800 N/50mm	
Elongation MD/CD*	EN 12311-1	20 / 10 %	
Tear resistance MD/CD*	EN 12310-1	300 / 300 N	
Peel strength at the joints	EN 12317-1	npd**	
Straightness	EN 1848-1	<20 mm/10m	
Resistance to shock loads	EN 12691	npd**	
Fire reaction class	EN 13501-1	E	
Fire loading	DIN 18234-1	≤11,6 MJ/m²	
Flexibility at low temperatures	EN 1109-1	≤ -40°C	
Working temperature		≥ +10°C	
Flow resistance at elevated temp.	EN 1110	+110°C	

**no performance determinated *MD = longitudinal CD = transversal

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VSK Bitum ARD



QUICK OVERVIEW: STRENGTHS

The self-adhesive shelter bit slated bituminous underlayment

- Vapour barrier, adhesive on the whole surface
- Ideal as direct under-tile waterproofing
- Application on pitched concrete roofs
- Ideal for carports or canopies in wood
- Bitumen-based adhesive

new product

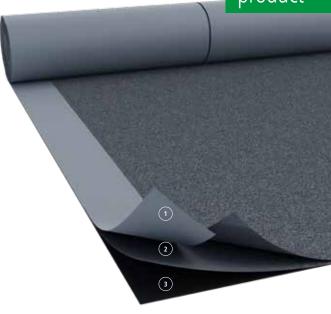


Сн	FR	ГП	CE
SIA 232	DTU 31.2	UNI 11470	10
V0-V0	31.2	A	EN 13984

Technical data sheet

Material	Distilled bitumen modified with SBS	
Finishing	Slate flake	
Colour		Grey
Mass per unit area	EN 1849-2	3500 g/m²
Water tightness	EN 1928 (Met. A)	60 kPa
Sd value	EN ISO 12572	70 m
Tensile strength MD/CD*	EN 12311-1	400 / 300 N/50mm
Elongation MD/CD*	EN 12311-1	35 / 35 %
Tear resistance MD/CD*	EN 12310-1	130 / 130 N
Resistance to static punching	EN 12730 (A)	10 kg
Resistance to impact	EN 12691	700 mm
Dimensional stability	EN 1107-1	± 0,3 %
Fire reaction class	EN 13501-1	E
External fire reaction class	EN 13501-5	F _{roof}
UV stability		4 months
Flexibility at low temperatures	EN 1109-1	-20°C
Flow resistance at elevated temp.	EN 1110	+90°C

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02065040	-	1	10	300



Composition:

- Silicone liner (1)
- Self-adhesive modified bitumen with slate flakes (2)
 - Pre-cutted silicone liner 50/50 cm (3)

Fire protection screens and membranes

A ventilated facade or roof brings many benefits; one of the most important is the improvement and maintenance of the overall thermo-hygrometric performance of the thermal insulation package. To ensure this performance is sustained, the insulation on the outer surface must be protected with a waterproof, breathable and windproof membrane. This membrane keeps the thermal insulation dry and protects it from external (rain and wind) and internal influences (vapour transmission, water vapour condensation).

In turn, to maintain its performance, the membrane must resist a range of external influences: UV rays, high temperatures, temperature fluctuations and - until now little considered - even fire.

This last aspect, fire, has often caused problems with fires on roofs or facades in the recent past. These problems have often been triggered by trivial causes, such as a short circuit in an electrical or photovoltaic system, or by flying sparks from improperly maintained chimneys; in these cases, contact with combustible materials can start a fire that quickly spreads to the facade or roof thanks to the ventilation/ventilation of the insulation package. Often with tragic consequences!

For this reason, Riwega offers two new fire-resistant windproof membranes for ventilated facades, as well as a vapour barrier for indoor use. All are fire class A2 and therefore approved as "non-combustible".

A) USB Windtop UV A2 / 225

Made of glass fiber and with a UV-stable coating. It is the ideal breathable membrane for exterior use for wind and water tightness of ventilated and ventilated facades with open joints.

B) USB Reflex A2 / 430

Made of glass fibres with micro-perforated functional membrane and aluminium coating. It is the ideal product for ventilated facades with closed joints thanks to its reflective surface, which improves the overall thermal performance of the insulation package, and its waterproofing class W1. It is also ideal as an underlay for roofs in general.

C) DS Reflex A2 / 140

A vapour barrier made of glass fibre with aluminium coating, ideal for indoor use, with a reflective surface. It creates airtightness, its reflective surface improves the overall thermal performance of the insulation package.

All these products will be sealed with Coll Fire B butyl/aluminium adhesive tape (see page 124).

USB Windtop UV A2 / 225



QUICK OVERVIEW: STRENGTHS

Fire resistance inside ventilated facade

- Breathable waterproofing membrane for ventilated facades
- Class A2 reaction to fire
- Ideal membrane for waterproof and wind-tight ventilated facades with open joints
- Black color for an optimal aesthetical impact
- UV resistance for joints up to 50 mm



49

R2







)	CE
/	EN 13859-2

Technical data sheet

Material	fibre glass fabric and black filled coating		
Colour	black		
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	225 g/m²	
Thickness		0,23 mm	
Sd value	EN ISO 12572	0,09 m	
Water vapour permeability	EN ISO 12572	~ 500 g/m²/24 h	
Resistance to water passage	EN 1928 (Met. A)	W2	
Tensile strength MD/CD*	EN 12311-1	4200 / 3100 N/50mm	
Elongation MD/CD*	EN 12311-1	6 / 5 %	
Tear resistance MD/CD*	EN 12310-1	290 / 390 N	
Fire reaction class	EN 13501-1	A2-s1,d0	
UV stability	stable (joints up to max. 50 mm - max. 50 %)		
Weathering without final cladding		3 months	
Temperature resistance		-40°/+100°C (for short times max. +180°C)	

times max. + 180°C)	02010343	-	1,5	

Code

Codes and measures

Code TOP SK

Width (m)

*MD = longitudinal CD = transversal
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Length (m)

50

Composition:

Fibre glass (2)

Pallet (m²) 2700

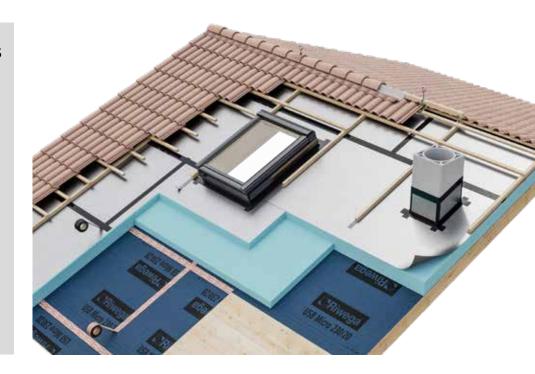
Special UV-coating (1)

USB Reflex A2 / 430

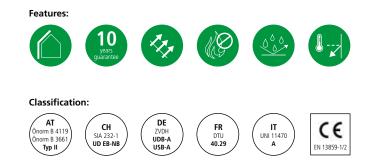
QUICK OVERVIEW: STRENGTHS

Fire resistance on roof and facade

- Breathable, water-tight membrane
- Class A2 reaction to fire
- Reflective surface for better hot weather-performance
- Ideal for wind and water tightness of roofs and facades with closed joints
- Increased weight and strength for better mechanical resistance



product



Technical data sheet

Material		micro-perforated aluminium foil, functional film, fibre glass fabric	
Colour		aluminium	
Use underneath PV panels		NO	
Mass per unit area	EN 1849-2	430 g/m²	
Thickness		0,43 mm	
Sd value	EN ISO 12572	0,08 m	
Water vapour permeability	EN ISO 12572	~ 500 g/m²/24 h	
Heavy rain test	TU Berlin	passed	
Resistance to water passage	EN 1928 (Met. A)	W1	
Tensile strength MD/CD*	EN 12311-1	3000 / 3200 N/50mm	
Elongation MD/CD*	EN 12311-1	6 / 5 %	
Tear resistance MD/CD*	EN 12310-1	580 / 450 N	
Fire reaction class	EN 13501-1	A2-s1,d0	
UV stability		9 months	
Temperature resistance		-40°/+90°C	

Composition:

(1) Micro-perforated aluminium film

2

- Functional film
- (3) Fibre glass

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010344	-	1,2	35	1764

DS Reflex A2 / 140



QUICK OVERVIEW: STRENGTHS

Fire resistant vapour barrier

- Vapour barrier
- Class A2 reaction to fire
- Reflective surface to improve the performance of the insulation package
- Ideal for perfect air-tightness
- Lightweight and easy to install on vertical walls or ceilings

new product

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R2



Technical data sheet				
Material	fibre glass	fibre glass fabric and pure aluminiun		
Colour		aluminium		
Mass per unit area	EN 1849-2	140 g/m²		
Thickness		0,10 mm		
Sd value	EN ISO 12572	>2500 m		
Water vapour permeability	EN ISO 12572	~ 0,01 g/m²/24 h		
Water tightness	EN 13984	passed		
Tensile strength MD/CD*	EN 12311-1	1300 / 1200 N/50mm		
Elongation MD/CD*	EN 12311-1	2,6 / 3,5 %		
Tear resistance MD/CD*	EN 12310-1	143 / 144 N		
Fire reaction class	EN 13501-1	A2-s1,d0		
Temperature resistance		-40°/+100°C		



Composition:

- Aluminium film (1)
 - Fibre glass 💿

Codes and measures				
Code	Code TOP SK	Width (m)	Length (m)	Pallet (m ²)
02010345	-	1,2	50	3840

Customizable products

Customize your membrane!

Create your customized membrane (with your logo and colors) and let people recognize your business! The minimum effort, the maximum result!

Make your construction site unique, to guarantee double success. The customized membrane guarantees high visibility to your company until the final covering is laid.

How to do it?

Send your vector logo to your local technical consultant. In no time, you will receive some graphic proposals from which you can choose. Depending on your choice, you will be notified of the printing cost. The minimum order quantity for standard products (membrane colour and print colour as indicated in our catalogue) is 4.500 m²; for a completely customized product (membrane colour and printing colour) the minimum order quantity is 9.000 m².

Standard colours



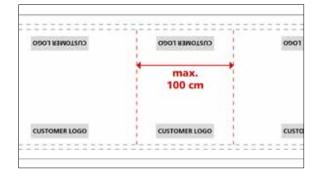
Colours subject to extra charge



Models for membrane customization

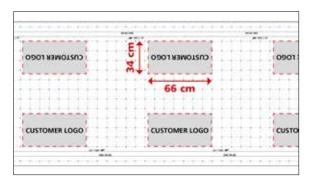
"SMALL LOGO"

Print width: max. 100 cm Protector, Superior, Eurostandard Line

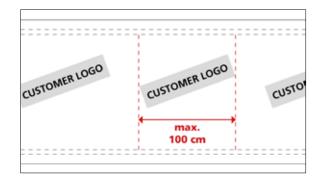


"SMALL SWING LOGO"

Fixed size and logo position: max. 66 x 34 cm Protector, Superior Line

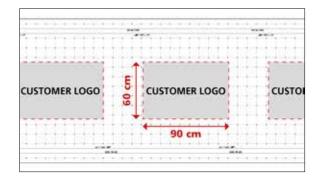


"BIG LOGO" Print width: max. 100 cm Protector, Superior, Eurostandard Line



"BIG SWING LOGO"

Fixed size and logo position: max. 90 x 60 cm Protector, Superior Line

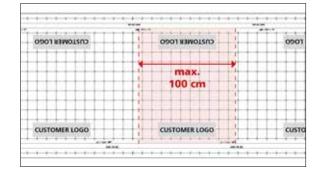


"SUPERIOR STANDARD LOGO" Print area: max. 100 cm Superior Line

•		
CUSTOMER LOGO	COSTOMER LOGO	0901
	max. 100 cm	
CUSTOMER LOGO	CUSTOMER LOGO	CUSTO

"PROTECTOR STANDARD LOGO" Print area: max. 100 cm

Protector Line

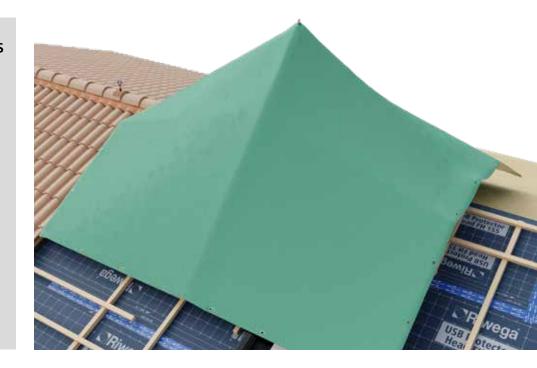


Temporary rain sheets

QUICK OVERVIEW: STRENGTHS

The essential protection for your working site

- Temporary rain sheet
- Temporary protection during working phases
- Waterproof element for emergencies
- High tearing resistance thanks to reinforcement stripes
- Available in RAPID version which is provided with a central hook for a quicker positioning





Composition:

1 PE layer

2 Metal grommet

Codes and measures

Version	Code	Width (m)	Length (m)	Pallet (m ²)
RAPID	02070001	15	15	-
Standard	02070002	6	10	-
Standard	02070003	8	10	-
Standard	02070004	10	12	-

Technical data sheet - Temporary rain sheet RAPID

Material	PE
Colour	Green
Mass per unit area	200 g/m ²
Mass per unit area reinforced PE	220 g/m²
Water tightness	passed
Tensile strength (layer)	1000 N (~ 100 kg)
Tensile strength (reinforcing stripes)	2100 N (~ 210 kg)
Perimetral reinforcement	~ 5 cm
Perimetral grommets distance	grommets' ø 12 mm
rennetral gronnets distance	(each 1 m)
Coating	on both sides
UV stability	stabile
Temperature resistance	-40°/+80°C





Waterproofing, air and wind tightness

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30 GAE Trio

Pg.

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Waterproofing, air and wind tightness

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R3

Graphic references



Acrylic adhesive tapes

A building of modern conception, defined as nZEB (Nearly Zero Energy Building), achieves its objectives of energy-saving and living comfort when a well-insulated and airtight building envelope is built, with well-designed and manufactured wind and airtight systems.

To sum up, these are the reasons why air-tightness should not be neglected in an energy-efficient building:

- the better high energy efficiency of the envelope
- heat loss is avoided
- the possibility of interstitial condensation is reduced and the whole building works better
- avoids moisture loads in the insulation package
- improves the health of the building
- the CMV (controlled mechanical ventilation) works better
- increases living comfort

Riwega acrylic adhesive tapes

In this field the acrylic adhesive tapes proposed by Riwega stand out as indispensable products; made with the last polymeric technologies of acrylic dispersion, without VOCs and harmful substances, maintain zero contamination risk of the air in the building.

The adhesive systems are designed to give the best adhesion results on all building products (screens and membranes, wood, brick, concrete, metal, etc...) and have durability overtime to ensure results for the entire duration of the building. Riwega's 20 years of experience has meant that depending on the type of adhesive and the type of support can offer various solutions for sealing, depending on your needs:

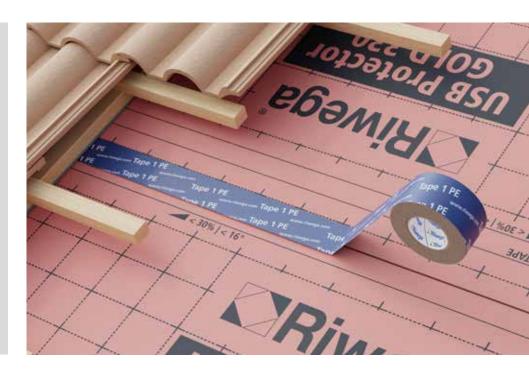
- Flexibility and plasticity thanks to the elastic polyethylene support
- Rigidity and mechanical strength thanks to the rigid polypropylene support
- Fast processing thanks to the treated polyethylene backing of the protective liner
- Processing at low temperatures thanks to a specific glue formulation
- Permanent UV stability thanks to black polyethylene backing
- Convenience in corners thanks to the pre-folded strip
- Simplicity and cost-effectiveness thanks to the paper support
- Reflectance thanks to the aluminium support
- Plasterability thanks to the polypropylene fabric support
- Economical thanks to the polyethylene backing and glue according to normal standards
- A multiplicity of solutions thanks to double-sided tape solutions

Tape 1 PE

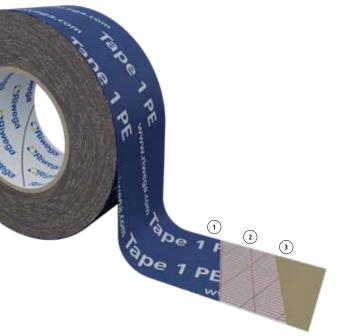
QUICK OVERVIEW: STRENGTHS

Single-sided acrylic tape

- The extreme flexibility makes it easily adaptable to any laying situation
- Next-generation acrylic glue, high adhesion, solvent-free
- Dual use, internal and exterior, thanks to the waterproof surface
- Particularly resistant to UV rays and ageing



Features: (Vers) (Ve



Composition:

- 1 Polyethylene
- Acrylic glue with PET reinforcing
- 3 Silicone liner

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape 1 PE	02040160	60x25	10	80
Tape 1 PE 100 X	02040193	100x25	6	80
Tape 1 PE 150	02040194	150x25	4	80

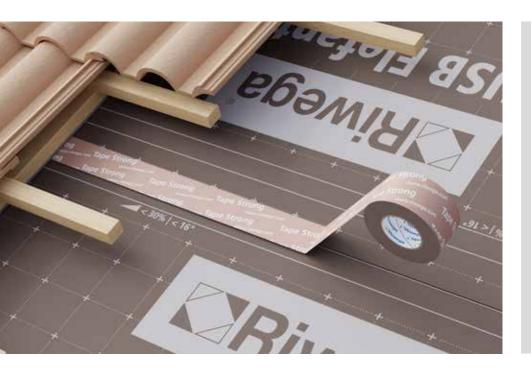


Technical data sheet

	polyacrylate-based disp.
	LDPE film
	YES
	YES
	NO
DIN EN 1942	0,27 - 0,29 mm
	~12 m
DIN EN 14410	≥25 N/25 mm; 300 %
DIN 4108-11	compliant
	very high
	very high
	very high
EMICODE®	EC1 ^{PLUS}
	+5°C / +30°C
	lavorabile from -10°C
	-30°C / +100°C
	24 months*
	dry, protected from UV rays, +18°C / +25°C
	max. 24 months
	DIN EN 14410 DIN 4108-11

108 **Riwega** eternitycomfort

Tape Strong



QUICK OVERVIEW: STRENGTHS

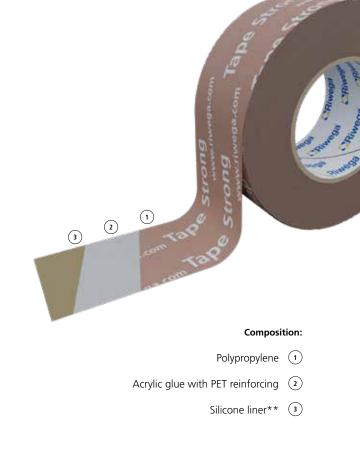
Nondeformable with easy tearing

- •
- excessive deflections
- high adhesion, solvent-free
- exterior, thanks to the waterproof surface
- makes it easily tearable by hand



	20 years guarantee		\bigcirc	A	YE
Classificatio	on:				
AT Önorm B 8110-2	CH SIA-Norm 180	DE DIN 4108-7 DIN 4108-11	TG 20554	EC 1	

Technical data sheet	_	Γ
Glue		polyacrylate-based disp.
Glue carrier material		PP film
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	0,30 - 0,32 mm
Sd value		~16 m
Tear resistance with elasticity	DIN EN 14410	≥60 N/25 mm; 450 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +100°C
UV stability		24 months*
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months



Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape Strong	02040170	60x25	10	80
Tape Strong 12/48	020401701	12+48x25	10	80
Tape Strong 200 X	02040172	100+100x25	2	80

R3

02

- Single-sided acrylic tape
- The particular rigidity reduces
- Next-generation acrylic glue,
- Dual use, internal and
- The toothing on the sides

*with reference to the Central European climate

**pre-cutted silicone liner in Tape Strong 12/48 variant (12+48 mm) and Tape Strong 200 X (100+100 mm)

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Tape Rapid

QUICK OVERVIEW: STRENGTHS

The quickest ever

- Single-sided acrylic tape
- Speed up installation because of the absence of the liner
- Next-generation acrylic glue, high adhesion, solvent-free
- Dual use, internal and exterior, thanks to the waterproof surface
- Minimizes waste on the building site





Composition:

- 1 LDPE/PP
- Acrylic glue with PET reinforcing

Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape Rapid	02040162	60x50	10	80





Technical data sheet

Glue		polyacrylate-based disp.
Glue carrier material		LDPE/PP film
Reinforcing mesh		YES
Protection liner		NO
Solvents and emollients		NO
Thickness	DIN EN 1942	0,23 - 0,27 mm
Sd value		~40 m
Tear resistance with elasticity	DIN EN 14410	≥35 N/25 mm; 400 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Emissions	EMICODE®	EC1 ^{PLUS}
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +120°C
UV stability		24 months*
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

110 **Riwega** eternitycomfort

Tape ICE



Features:



EC 1

DE DIN 4108-7 DIN 4108-1

Classification:

AT Önorm B 8110-2 CH SIA-Norm 180

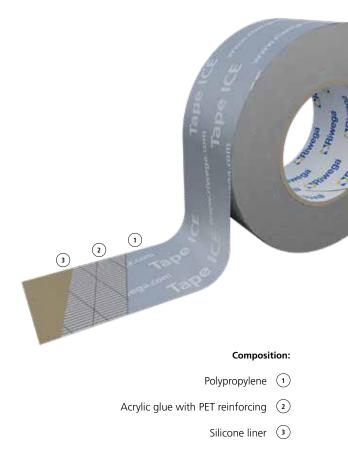
Technical data sheet

Glue		polyacrylate-based disp.
Glue carrier material		LDPE film
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	0,26 - 0,28 mm
Sd value		~11 m
Tear resistance with elasticity	DIN EN 14410	≥25 N/25 mm; 50 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Emissions	EMICODE [®]	EC1 ^{PLUS}
Working temperature		+5°C / +30°C lavorabile from -20°C
Temperature resistance		-30°C / +100°C
UV stability		24 months*
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

QUICK OVERVIEW: STRENGTHS

Low temperature – high adhesion

- Single-sided acrylic tape
- The adhesive layer guarantees an immediate grip down to -20°C
- Next-generation acrylic glue, high adhesion, solvent-free
- Dual use, internal and exterior, thanks to the waterproof surface
- Good UV and ageing resistance



Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)

60x25

02040165

Tape ICE

04 R3

80

10

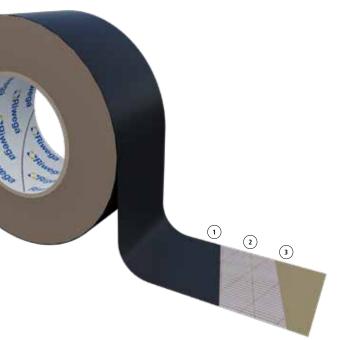
Tape UV

QUICK OVERVIEW: STRENGTHS

Specially designed to withstand UV rays

- Single-sided acrylic tape
- Unsurpassed UV and ageing resistance
- Ideal sealing in ventilated facades with open joints
- Next-generation acrylic glue, high adhesion, solvent-free
- The particular rigidity reduces excessive deflections





Composition:

- 1 UV stabilized PP
- Acrylic glue with polyester reinforcing
- 3 Silicone liner**

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape UV 60	02040183	60x25	10	80
Tape UV 80	02040181	80x25	6	80
Tape UV 300 X	020103533	300x25	2	60





Technical data sheet

Glue		polyacrylate-based disp.
Glue carrier material		PP film
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	0,30 - 0,32 mm
Sd value		~16 m
Tear resistance with elasticity	DIN EN 14410	≥60 N/25 mm; 450 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +100°C
UV stability		24 months*
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

*with reference to the Central European climate **pre-cutted silicone liner in Tape UV 300 X variant (150+150 mm)

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Tape Corner



QUICK OVERVIEW: STRENGTHS

06

R3

The best one for angular conjunctions

- Single-sided acrylic tape
- Pre-folded and partly devoid of the liner to facilitate the laying
- Acrylic glue, with high adhesion on all surfaces
- Dual use, internal and exterior, thanks to the waterproof surface

 $(\mathbf{1})$

2

(3)

Features:

Technical data sheet

Glue carrier material Reinforcing mesh

Working temperature

Temperature resistance

Protection liner Solvents and emollients

Sd value

UV stability

Storage place

Storage period

Glue



polyacrylate-based disp.
LDPE film
NO
PARTIAL
NO
~0,5 m

≥+0°C

-40°C / +80°C

4 months* dry, protected from

Composition: Silicone liner 1

- \bigcirc
- Acrylic glue (2)
- Polyethylene ③

Codes and measures					
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)	
Tape Corner 30/30	02040191	30+30x25	7	-	
Tape Corner 12/48	02040192	12+48x25	5	-	

Direct sales of Tape Corner only to Italy, Croatia, Slovenia, Estonia, Lithuania, Latvia, Finland, Portugal, Bulgaria, Switzerland, Greece, Romania, Slovakia, Turkey *with reference to the Central European climate

UV rays, +18°C / +25°C max. 12 months

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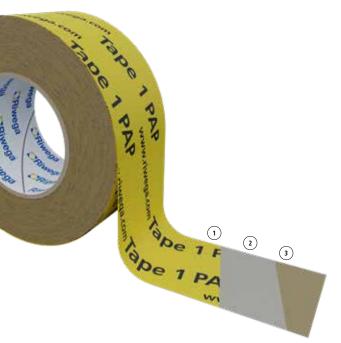
Tape 1 PAP

QUICK OVERVIEW: STRENGTHS

The tape for internal use

- Single-sided acrylic tape
- Perfect for sealing any interruption of vapour control layers and wooden surfaces
- Paper surface, usable indoors only
- Next-generation acrylic glue, high adhesion, solvent-free





Composition:

- 1 Paper with PE coating
- Acrylic glue
- 3 Silicone liner*

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape 1 PAP	02040150	60x25	10	80
Tape 1 PAP X	02040151	30+30x25	10	80
Tape 1 PAP X3	02040152	30+15+15x25	10	80



Technical data sheet

Glue		polyacrylate-based disp.
Glue carrier material		paper with PE coating
Reinforcing mesh		NO
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	0,32 - 0,34 mm
Sd value		~5 m
Tear resistance with elasticity	DIN EN 14410	≥150 N/25 mm; 3-5 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +100°C
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

*variants with pre-cutted silicone liner: Tape 1 PAP X (30+30 mm) and Tape 1 PAP X3 (30+15+15 mm) Riwega Srl is not responsible for negligent and improper use of its products

Tape Reflex



QUICK OVERVIEW: STRENGTHS

The reflective one

- Single-sided acrylic tape
- Specially designed for sealing of USB Reflex Plus and DS 188 ALU
- Dual use, interior and exterior, thanks to the reflective surface
- Next-generation acrylic glue, high adhesion, solvent-free



Classification:

AT Önorm B 8110-2 CH SIA-Norm 180

H Norm 80 DE DIN 4108-7 DIN 4108-11

Technical data sheet

	polyacrylate-based disp.
	alu sprayed PP film
	NO
	YES
	NO
DIN EN 1942	0,20 - 0,25 mm
	~42 m
DIN EN 14410	≥70 N/25 mm; 80 %
DIN 4108-11	compliant
	very high
	very high
	very high
	+5°C / +30°C
	-30°C / +100°C
	1 month*
	dry, protected from UV rays, +18°C / +25°C
	max. 24 months
	DIN EN 14410

- Non-woven fabric in PP (3)
 - Acrylic glue (4)
 - Silicone liner (5)

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape Reflex	02040180	80x25	6	-

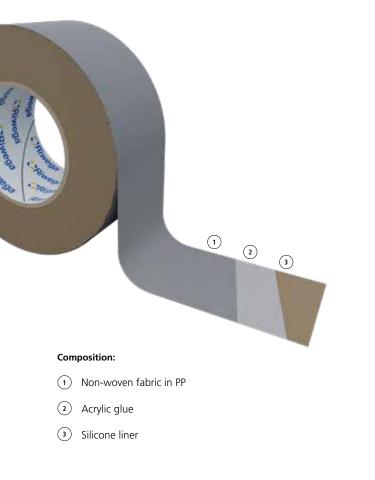
Tape Vlies

QUICK OVERVIEW: STRENGTHS

The plasterable one

- Single-sided acrylic tape
- Surface designed for points that need to be plastered over
- For the connection points of wood and plastering surfaces
- Next-generation acrylic glue, high adhesion, solvent-free





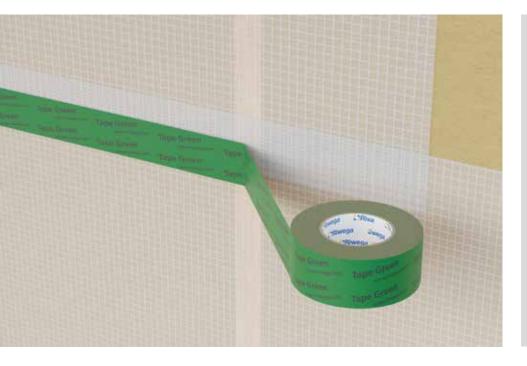
Codes and measures				
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape Vlies	02045800	50x25	12	-



Technical data sheet

Glue		polyacrylate-based disp.
Glue carrier material		non-woven fabric in PP
Reinforcing mesh		NO
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	0,55 - 0,57 mm
Sd value		~8 m
Tear resistance with elasticity	DIN EN 14410	≥50 N/25 mm; 40 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +100°C
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

Tape Green



QUICK OVERVIEW: STRENGTHS

The essence of sealing

- Single-sided acrylic tape
- Excellent quality/price ratio
- Perfect for sealing any interruption of vapour control layers and wooden surfaces
- Dual use, internal and exterior, thanks to the waterproof surface
- High adhesion acrylic glue, solvent-free

Features:

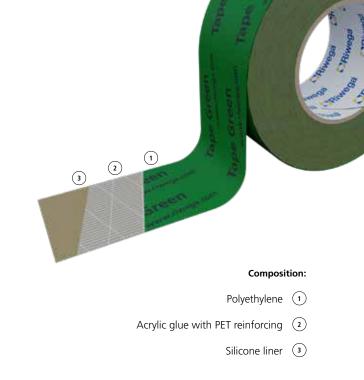


Classification:



Technical	data	sheet	

Glue		pure polyacrylate
Glue carrier material		film in PE
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	~0,28 mm
Sd value		~40 m
Tear resistance with elasticity	DIN EN 14410	≥22 N/10 mm; 586 %
Bond strength	DIN 4108-11	compliant
Resistance to condensation		high
Initial adhesion (Tack)		high
Emissions	EMICODE®	EC1 ^{PLUS}
Working temperature		+5°C / +30°C
Temperature resistance		-40°C / +80°C
UV stability		12 months*
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months



Codes and measures

Version	Code**	Measures (mmxm)	Box (pc)	Pallet (box)
Tape Green	02040161	50x25	12	85
Tape Green 60	020401616	60x25	10	85

*with reference to the Central European climate

**on request also available in Industry version

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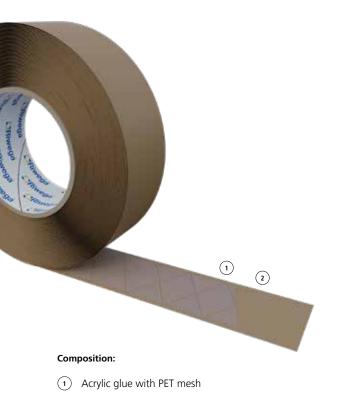
Tape 2 AC

QUICK OVERVIEW: STRENGTHS

Double adhesion in one tape

- Double-sided acrylic adhesive tape
- Specific for sealing of the overlaps of vapour control layers and breathable membranes
- High adhesion acrylic glue, solvent-free
- Quick and easy to lay
- Adheres to all surfaces of the building





(2) Silicone liner

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape 2 AC 20	02040220	20x50	12	60
Tape 2 AC 50	02040250	50x50	5	60

Features:



Classification:



Technical data sheet Glue polyacrylate-based disp. Glue carrier material Reinforcing mesh YES Protection liner YES Solvents and emollients NO Thickness DIN EN 1942 0,22 - 0,24 mm Peel adhesion AFERA 5001 ≥25 N/25 mm Resistance to condensation high Resistance to aging very high Initial adhesion (Tack) high EC1^{PLUS} EMICODE[®] Emissions Working temperature +5°C / +30°C Temperature resistance -30°C / +120°C dry, protected from Storage place UV rays, +18°C / +25°C Storage period max. 24 months



Tape BOLD



Features:



Technical data sheet		
Glue		polyacrylate-based disp.
Glue carrier material		-
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 1942	1,50 - 2,00 mm
Peel adhesion	AFERA 5001	≥25 N/25 mm
Resistance to condensation		high
Resistance to aging		high
Initial adhesion (Tack)		high
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +80°C
Storage place		dry, protected from UV rays, +18°C / +25°C
Storage period		max. 24 months

QUICK OVERVIEW: STRENGTHS

The reinforced, double-faced one

- Double-sided acrylic adhesive tape
- Highly adhesive acrylic mass on polyester mesh
- Ideal for taping vapour barriers and breathable membranes to wooden or wall structures
- High adhesion acrylic glue, solvent-free, with viscoelastic and thixotropic effects

2 1 Composition:

- Acrylic glue with PET mesh (1)
 - Silicone liner 2

3

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape BOLD	02040210	10x12	10	80

12

Butyl adhesive tapes

The most critical points of a building envelope in terms of water, air and wind tightness are the crossings and the emerging bodies, which are represented by systems, chimneys, shafts, pipes, windows, etc ... The butyl adhesive tapes are certainly the safest and most practical systems for the perfectly sealing of these critical points.

Riwega butyl adhesive tapes

Butyl is a compound that is produced by mixing gypsum powder and synthetic resins, thus obtaining an adhesive mass that can have different densities and viscosity grades; this is then extruded into stripes of varying widths and thicknesses as required and can be coupled with various types of supports, to obtain specific characteristics that allow solving a large number of different situations. These are the different solutions offered by Riwega:

- Highly flexible tape for circular sealing around pipes and vents
- Wide tape with pre-cut liner for corner sealing of windows, fireplaces, shafts, wall attachments, etc.
- Tapes of various widths for different seals
- A tape which is Certified class "B" in fire reaction, to seal surfaces with the same characteristics
- Tapes with aluminium support to give perennial stability to UV rays
- Flat or thick double-sided tapes, for the most varied seals

Coll Flexi



QUICK OVERVIEW: STRENGTHS

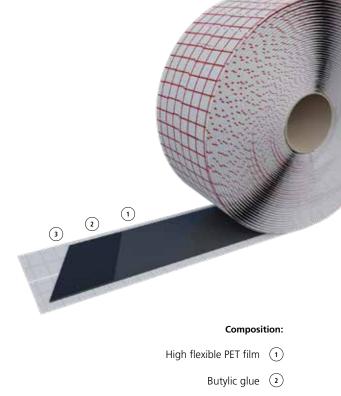
The most flexible one

- Mono-adhesive butyl tape
- The high flexibility makes it easily adaptable to any laying situation
- Guarantees perfect sealing even in the case of circular cross-section elements
- Dual use, internal and exterior, thanks to the waterproof surface

Features:

Technical data sheet

Glue		butyl
Glue carrier material		high flexible LDPE film
Protection liner		YES (pre-cutted)
Solvents and emollients		NO
Thickness		1,5 mm
Specific weight	DIN EN ISO 1183-1	~1,4 g/cm ³
Viscosity	DIN EN ISO 7390	stable
Hardness (Shore 00)	DIN EN ISO 868	~40
Compressive strength	DTU 39.4	>0,04 N/mm ²
Elongation at break (film)		max. 300 %
Solid content	DIN EN ISO 10563	>99 %
Vapour passage resistance µ	DIN EN ISO 12572	min. 766000
Emissions	EMICODE®	very low
Working temperature		+5°C / +30°C
Temperature resistance		-40°C / +90°C
Fire class	DIN 4102	B2
Fire class	EN 13501-1	E
UV stability		3 months*
Storage place		dry, protected from UV rays, ~20°C
Storage period		max. 24 months



Pre-cutted silicone liner ③

Codes and m	easures		
Version	Code	Measures (mmxm)	Box

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll Flexi	02044100	100x15	4	30

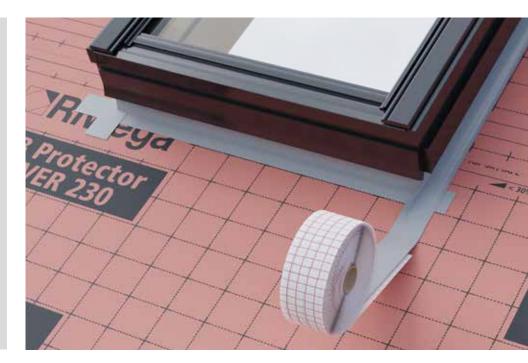
13 R3

Coll 150 X

QUICK OVERVIEW: STRENGTHS

Precision sealing

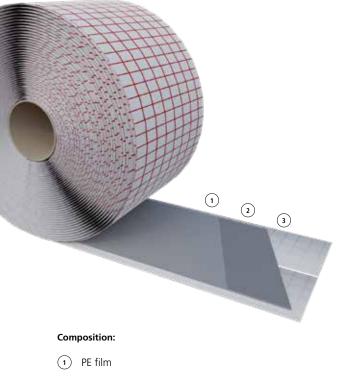
- Monoadhesive butyl band
- The pre-cut liner makes it ideal for all linear and corner seals
- Characterized by butyl glue with a high seal and without solvents, suitable for every laying surface.
- Dual use, indoor and outdoor, thanks to the water-resistant surface



Features:



butyl	
LDPE	
YES (pre-cutted)	
2,0 mm	
~1,4 g/cm ³	DIN EN ISO 1183-1
stable	DIN EN ISO 7390
~40	DIN EN ISO 868
>0,04 N/mm ²	DTU 39.4
>99 %	DIN EN ISO 10563
very low	EMICODE®
+5°C / +30°C	
-40°C / +100°C	
B2	DIN 4102
3 months*	
dry, protected from UV rays, ~20°C	
max. 12 months	



- 2 Butylic glue
- (3) Pre-cutted silicone liner

Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll 150 X	02044151	150x15	2	30

Coll 50 - 80 - 150



Features:



Technical data sheet		
Glue		butyl
Glue carrier material		LDPE
Protection liner		YES
Thickness Coll 50 / Coll 150		1,0 mm
Thickness Coll 80		2,0 mm
Specific weight	DIN EN ISO 1183-1	~1,4 g/cm ³
Viscosity	DIN EN ISO 7390	stable
Hardness (Shore 00)	DIN EN ISO 868	~40
Compressive strength	DTU 39.4	>0,04 N/mm ²
Solid content	DIN EN ISO 10563	>99 %
Emissions	EMICODE®	very low
Working temperature		+5°C / +30°C
Temperature resistance		-40°C / +100°C
Fire class	DIN 4102	B2
UV stability		3 months*
Storage place		dry, protected from UV rays, ~20°C
Storage period		max. 12 months

QUICK OVERVIEW: STRENGTHS

The semi-flexible for every linear seal

- Monoadhesive butyl band
- Suitable for multiple fields of use thanks to the variety of sizes and thicknesses
- Characterized by butyl glue with a high seal and without solvents, suitable for every laying surface
- Dual use, indoor and outdoor, thanks to the water-resistant surface

Image: Composition of the second second

Silicone liner (3)

Codes and m	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll 50	02044050	50x15	12	30
Coll 80	02044080	80x15	4	30
Coll 150	02044150	150x15	4	30

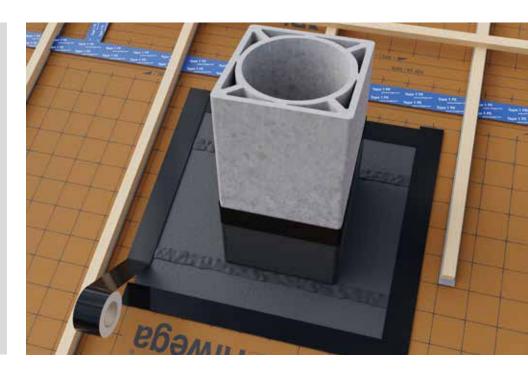
*with reference to the Central European climate

Coll Fire B

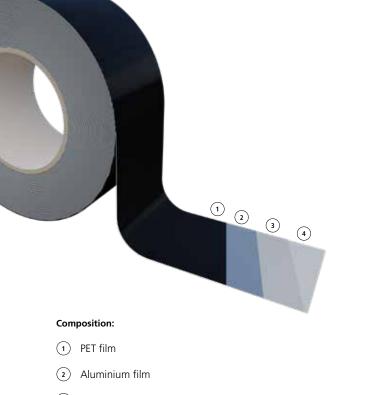
QUICK OVERVIEW: STRENGTHS

The first fire-certified tape

- Mono adhesive butyl tape
- Class B fire reaction certificate to meet the minimum standards of public buildings
- Particularly suitable for the sealing of USB Fire Zero and USB Vita
- Characterized by butyl glue with a high seal suitable for every laying surface



Features:



- 3 Butylic glue
- (4) Silicone liner

Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll Fire B	02044060	60x10	10	50

Technical data sheet		
Glue		butyl
Glue carrier material		Alu / PET
Protection liner		YES
TVOC-test	ISO 16000-6	30 μg/m³
Thickness		0,6 mm
Sd value	UNI EN 1931	1632 m
Tensile strength MD/CD**	EN 12311-1	185 / 200 N/50mm
Elongation at break MD/CD**	EN 12311-1	10 / 20 %
Probe tack	ASTM D 2979	7.0 N
180° Peel Adhesion	ASTM D 1000	27 N/cm
Solid content		100 %
Vapour passage resistance µ	EN 1931	2720000
Working temperature		+0°C / +40°C
Temperature resistance		-30°C / +90°C
Fire class	EN ISO 11925-2 EN 13501-1	B-s1, d0
UV stability		high*
Storage place		dry, protected from UV rays, ~20°C
Storage period		max. 12 months

*with reference to the Central European climate

**MD = longitudinal CD = transversal

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Coll ALU



Features:



Classification:

CE EN 13956

Technical data sheet

buty	Glue
r material alu filr	Glue carrier material
liner YE	Protection liner
nd emollients N	Solvents and emollients
0,6 mr	Thickness
ngth MD/CD** EN 12311-1 180 / 190 N/50mr	Tensile strength MD/CD**
at break MD/CD** EN 12311-1 15 / 20 9	Elongation at break MD/CD**
ASTM D 2979 8.0	Probe tack
Adhesion ASTM D 1000 20 N/cr	180° Peel Adhesion
nt DIN EN ISO 10563 100 9	Solid content
olling ISO 7390 O mr	Vertical scrolling
sage resistance μ EN 1931 153000	Vapour passage resistance µ
mperature +0°C / +40°	Working temperature
re resistance -30°C / +90°	Temperature resistance
/ high	UV stability
dry, protected from UV rays, ~20°	Storage place
riod max. 12 month	Storage period

QUICK OVERVIEW: STRENGTHS

The fitting that is not afraid of UV rays

- Mono adhesive butyl tape
- Ideal for invisible repair of breakages on sheet metal parts
- Perfect for sealing solar and photovoltaic panels
- Particularly resistant to weathering and ageing

Image: Composition of the second second

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll ALU 75	02044073	75x10	8	60
Coll ALU 150	02044074	150x10	4	60

17

*with reference to the Central European climate

**MD = longitudinal CD = transversal

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Silicone liner (3)

Tape 2 BU

QUICK OVERVIEW: STRENGTHS

The most performing adhesive

- Double-sided butyl tape
- Ideal for attaching membranes to any type of structure
- Guarantees seal even in case of movement of the supporting material
- High adhesion butyl glue, solvent-free



Features:



Glue		but
Glue carrier material		
Protection liner		Y
Thickness		1,5 m
Specific weight	DIN EN ISO 1183-1	~1,3 g/cı
Viscosity (with thickness <2 mm)	DIN EN ISO 7390	stable fino a +100
Hardness (Shore 00)	DIN EN ISO 868	~3
Compressive strength	DTU 39.4	>0,03 N/mi
Solid content	DIN EN ISO 10563	>99
Emissions	EMICODE®	very lo
Working temperature		+5°C / +30
Operating temperature		-40°C / +100
Fire class	DIN 4102	I
Storage place		dry, protected fro UV rays, ~20
Storage period		max. 12 mont

Composition:

1 Butyl

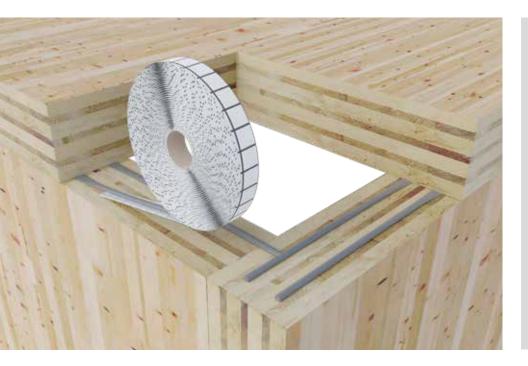
Silicone liner

Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape 2 BU	02040315	20x25	14	30

1

2

Tape 2 CO



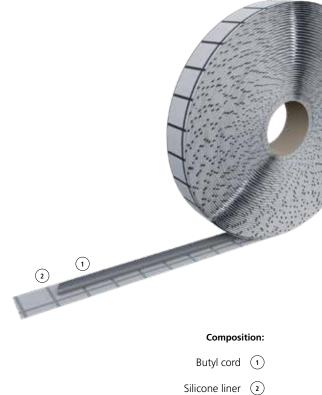
QUICK OVERVIEW: STRENGTHS

The ideal connection sealant for wooden houses

- Butyl adhesive cord
- Its conformation makes it perfect for sealing between wood surfaces
- Guarantees the adhesive seal even in the event of movement of the support material
- Characterized by butyl glue with a high seal and free of solvents



Technical data sheet		
Glue		butyl
Glue carrier material		-
Protection liner		YES
Diameter of the cord		6 mm
Specific weight	DIN EN ISO 1183-1	~1,6 g/cm ³
Viscosity	DIN EN ISO 7390	stable
Hardness (Shore 00)	DIN EN ISO 868	~40
Compressive strength	DTU 39.4	>0,05 N/mm ²
Solid content	DIN EN ISO 10563	>99 %
Emissions	EMICODE®	very low
Working temperature		+5°C / +30°C
Operating temperature		-40°C / +100°C
Fire class	DIN 4102	B2
Storage place		dry, protected from UV rays, ~20°C
Storage period		max. 12 months



Vorsion	Codo	Moasuros (mmym)	
Codes and m	easures		

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tape 2 CO	02040306	6x7	22	30

Seals for windows

A critical point of the air and wind tightness of the building envelope is represented by the installation of window frames. It is necessary to pay close attention to the connections on windows: filling the joint between the window and the masonry with foam and plaster is not enough to create air and wind tightness, since not all construction foams can create an airtight layer.

The Riwega solutions for windows

The FDB tapes were created precisely to create the air and wind tight connection between masonry and counter-frame, or in the absence of a counter-frame, between masonry and window simply and quickly. They consist of a combination of different functional films and plasterable nonwovens. The polyacrylate full-surface adhesive is protected by an easy-to-remove protective film (FL, FingerLift) and is therefore ideal for professional corner and edge sealing in construction.

These adhesive tapes solve various situations on the building site and are:

- Adhesive tapes with variable Sd-values that can be used both indoors and outdoors;
- Adhesive tapes with variable Sd-value in "PLUS" version, with adhesive strength on the entire surface (ideal for installation without counter frame);
- Adhesive tapes with variable Sd-value with reinforcing fabric, for connection to thermal insulation;
- INT and EXT tapes, which can be used both indoors and outdoors.

Other solutions, for sealing door and window frames, also include:

- Butyl adhesive tapes for exterior sealing of the window frame;
- Profiles to create a stable and aesthetically pleasing connection between the window and door system and the thermal insulation package;
- Compri tapes for sealing against driving rain (class BG1) and air/wind (class BGR) at the joints between the frame and counter frame;
- Multifunctional compressive tapes for sealing against driving rain on the door and window frame (class BG1), for air/wind sealing (class BGR) and for thermal (=0.048 W/mK) and acoustic (RST,w=41 dB) sealing of the joints between the window and counter frame;
- A low-stretch, elastic and airtight foam for sealing and thermal-acoustic insulation of cavities between masonry and counter-frame or between the masonry and the door or window frame;
- An MS polymer sealant with long-lasting elasticity in a white or transparent finish, for the final sealing of the frame system;
- A compressible sealant made of expanded EPDM, for closing and sealing cavities in existing window systems that need to be renovated.

FDB Vario



Features:



Classification:

EMISSIONS DAV	NS LIMB INTÉRIEUR"
	A+
	A+ A B C

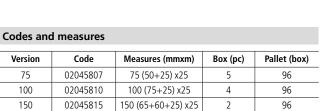
Technical data sheet

Glue		acrylic with Fingerlift
Glue carrier material		PET.PA
Thickness	EN 1849-2	0,63 mm
Sd value		0,5 - 20 m
Air tightness	EN 1026	a _n ≤0,1
Tightness against driving rain	EN 1027	>600 Pa
Tensile strength MD/CD*	EN 12311-1	300 / 55 N/50mm
Elongation at break MD/CD*	EN 12311-1	25 / 135 %
Water column		>200 cm
Resistance to water passage	EN 1928	W1
Fire reaction class	EN ISO 11925-2	E
VOC class	ISO 16000	A+
Working temperature		-10°C / +40°C
Temperature resistance		-40°C / +80°C
UV stability		6 months
Storage place		dry, protected from UV rays
Storage period		max. 12 months

QUICK OVERVIEW: STRENGTHS

The universal window tape

- Acrylic adhesive tape with variable hygrometry
- Indoor & outdoor use, regulates the passage of vapour according to temperature and humidity
- Guarantees air, wind and waterproofing in the laying joint of windows and doors
- Waterproofing to air, water and wind
- Overplasterable surface



(1)

2

Composition:

Multilayer non-woven PET.PA (1)

Acrylic glue with Fingerlift (protruding liner) (2)

FDB Vario Plus

QUICK OVERVIEW: STRENGTHS

The window frame is sealed in one quick solution

- Acrylic adhesive tape with variable hygrometry
- Specially designed for systems without subframe
- Indoor and outdoor use
- Regulates the passage of vapour according to temperature and humidity
- Waterproofing to air, water and wind on the laying joint of windows and doors



**

Features:



Composition:

- 1 Acrylic glue with silicone liner
- Multilayer non-woven PET.PA
- 3 Acrylic glue with Fingerlift (protruding liner)

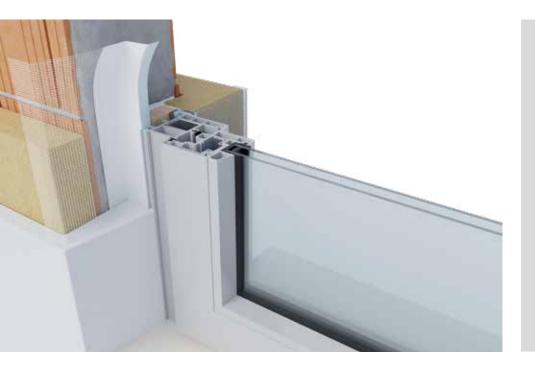
Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
75	020458071	75 (50+25) x25	5	96
100	020458101	100 (75+25) x25	4	96
150	020458151	150 (65+60+25) x25	2	96

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Technical data sheet		
Glue		acrylic with Fingerlift
Glue carrier material		PET.PA
Thickness	EN 1849-2	0,63 mm
Sd value		0,5 - 20 m
Air tightness	EN 1026	a _n ≤0,1
Tightness against driving rain	EN 1027	>600 Pa
Tensile strength MD/CD*	EN 12311-1	300 / 55 N/50mm
Elongation at break MD/CD*	EN 12311-1	25 / 135 %
Water column		>200 cm
Resistance to water passage	EN 1928	W1
Fire reaction class	EN ISO 11925-2	E
VOC class	ISO 16000	A+
Working temperature		-10°C / +40°C
Temperature resistance		-40°C / +80°C
UV stability		6 months
Storage place		dry, protected from UV rays
Storage period		max. 12 months

FDB Vario NET



QUICK OVERVIEW: STRENGTHS

Perfectly sealed window and door next to a heat insulation system

- Variable hygrometric window tape with mesh
- Indoor and outdoor use, regulates the passage of vapour
- With fibre-glass for over plastering
- Double-sided adhesive strip



Technical data sheet		
Glue		acrylic
Glue carrier material		PET.PVC
Fiberglass mesh for plastering		100 mm
Sd value	EN ISO 12572	0,03 - 15 m
Permeability coefficient (joints)	EN 1026	a ~0 m³/[h m (daPa)ʰ]
Tightness against driving rain (joints)	EN 1027	≥1050 Pa
Emissions	EMICODE [®]	very low
Working temperature		+5°C / +45°C
Temperature resistance		-40°C / +80°C
Fire reaction class	EN 13501-1	E
UV stability		6 months
Storage place		dry, protected from UV rays, +1°C / +20°C
Storage period		max. 12 months

Composition:	
Acrylic glue with silicone liner (1)	
Multilayer non-woven PET.PVC (2)	
Fiberglass mesh ③	
Acrylic glue with silicone liner ④	

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
FDB Vario NET	02045775	75x30	4	24

FDB INT VSK Plus

QUICK OVERVIEW: STRENGTHS

The complete adhesive tape for indoors, with reinforced surface

- Breathable adhesive tape
- Inside use
- Windtight sealing of door and window joints
- Increased weight for high mechanical strength
- Overplasterable surface





Composition:

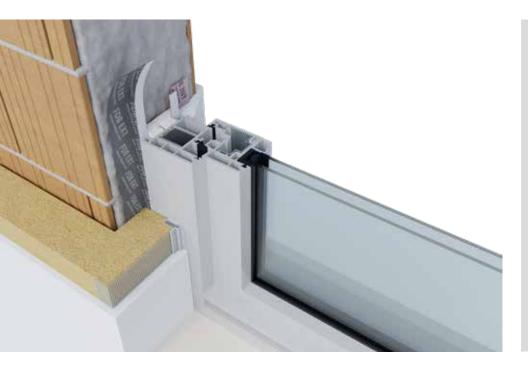
- (1) Acrylic glue with silicone liner
- (2) Multilayer non-woven PP.PE
- 3 Acrylic glue with pre-cutted liner

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
85	02046208	85 (25+60) x25	4	72
100	02046210	100 (25+75) x25	4	72



Technical data sheet		
Glue		acrylic with Fingerlift
Glue carrier material		PP.PE
Thickness	DIN 53855	0,49 mm
Sd value	EN ISO 12572	40 m
Air tightness	EN 1026	a _n ≤0,1
Tensile strength MD/CD*	EN 12311-1	300 / 55 N/50mm
Elongation at break MD/CD*	EN 12311-1	25 / 135 %
Fire reaction class	EN 13501-1	E
Working temperature		+5°C / +40°C
Temperature resistance		-40°C / +80°C
UV stability		do not expose to UV rays
Storage place		dry, protected from UV rays
Storage period		max. 12 months

FDB EXT VSK Plus



QUICK OVERVIEW: STRENGTHS

The complete adhesive tape for indoors, with reinforced surface

- Breathable adhesive tape •
- Outside use .
- Windtight sealing of door • and window joints
- Increased weight for high mechanical strength
- Overplasterable surface •



*	No.	27	

Technical data sheet			
Glue		acrylic with Fingerlift	
Glue carrier material		PP.PP	
Thickness	DIN 53855	0,62 mm	
Sd value	EN ISO 12572	0,08 m	
Air tightness	EN 1026	a _n ≤0,1	
Resistance to water passage	EN 1928	W1	
Tensile strength MD/CD*	EN 12311-1	290 / 31 N/50mm	
Elongation at break MD/CD*	EN 12311-1	19 / 130 %	
Water column		>200 cm	
Fire reaction class	EN 13501-1	E	
Working temperature		+5°C / +40°C	
Temperature resistance		-40°C / +80°C	
UV stability		6 months	
Storage place		dry, protected from UV rays	
Storage period		max. 12 months	

- Acrylic glue with silicone liner (1)
 - Multilayer non-woven PP.PP (2)
- Acrylic glue with pre-cutted liner (3)

	Codes	and	measures
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Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
85	02046108	85 (25+60) x25	4	72
100	02046110	100 (25+75) x25	4	72

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(2)

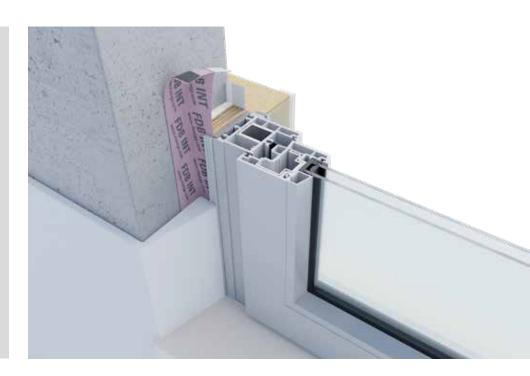
3

FDB INT

QUICK OVERVIEW: STRENGTHS

The perfect internal sealing of windows and doors

- Breathable adhesive tape
- Inside use
- Windtight sealing of door and window joints
- Overplasterable surface
- Available in several types to ensure tightness on every laying surface





Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
FDB INT AC 75	02045512	75x30	5	96
FDB INT AC 100	02045513	100x30	4	96
FDB INT AC 150	02045514	150x30	2	96
FDB INT AC+AC 75	02045522	75x30	5	96
FDB INT AC+AC 100	02045523	100x30	4	96
FDB INT AC+AC 150	02045524	150x30	2	96
FDB INT AC+BU 75	02045532	75x25	5	96
FDB INT AC+BU 100	02045533	100x25	4	96
FDB INT AC+BU 150	02045534	150x25	2	96

Features:



Composition:

- 1 Multilayer non-woven PET.PE.PET
- 2 Butylic strip / acrylic strip
- (3) Silicone liner

Technical data sheet				
Glue		acrylic/butylic		
Glue carrier material		PET.PE.PET		
Thickness	DIN 53855	0,49 mm		
Sd value	EN ISO 12572	~40 m		
Air tightness	EN 1026	a _n ≤0,1		
Tensile strength MD/CD*	EN 12311-1	300 / 55 N/50mm		
Elongation at break MD/CD*	EN 12311-1	25 / 135 %		
Fire reaction class	EN 13501-1	E		
Working temperature		+5°C / +40°C		
Temperature resistance		-40°C / +80°C		
UV stability		do not expose to UV rays		
Storage place		dry, protected from UV rays		
Storage period		max. 24 months		

FDB EXT



QUICK OVERVIEW: STRENGTHS

The perfect external sealing of window and door

- Breathable adhesive tape •
- Outside use •
- Windtight sealing of door • and window joints
- Overplasterable surface •
- Available in several types to • ensure tightness on every laying surface

Features:



Composition:

- 1 Multilayer non-woven PET.PP.PET
- 2 Butylic strip / acrylic strip
- (3) Silicone liner

Technical data sheet				
Glue		acrylic/butylic		
Glue carrier material		PET.PP.PET		
Thickness	DIN 53855	0,37 mm		
Sd value	EN ISO 12572	0,04 m		
Resistance to water passage	EN 1928	W1		
Tensile strength MD/CD*	EN 12311-1	290 / 31 N/50mm		
Elongation at break MD/CD*	EN 12311-1	19 / 130 %		
Fire reaction class	EN 13501-1	E		
Working temperature		+5°C / +40°C		
Temperature resistance		-40°C / +80°C		
UV stability		3 months		
Storage place		dry, protected from UV rays		
Storage period		max. 24 months		



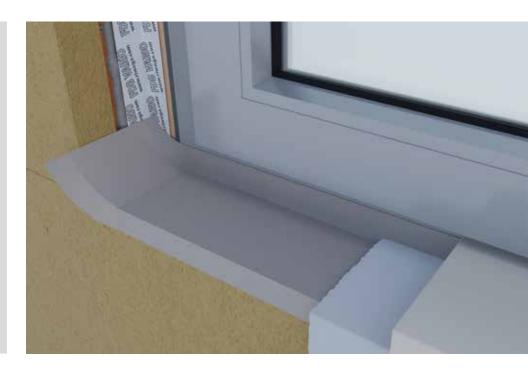
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
FDB EXT AC 75	02045612	75x30	5	96
FDB EXT AC 100	02045613	100x30	4	96
FDB EXT AC 150	02045614	150x30	2	96
FDB EXT AC+AC 75	02045622	75x30	5	96
FDB EXT AC+AC 100	02045623	100x30	4	96
FDB EXT AC+AC 150	02045624	150x30	2	96
FDB EXT AC+BU 75	02045632	75x25	5	96
FDB EXT AC+BU 100	02045633	100x25	4	96
FDB EXT AC+BU 150	02045634	150x25	2	96

Air Coll

QUICK OVERVIEW: STRENGTHS

Strong plastering adhesion

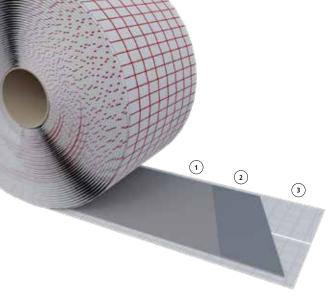
- Monoadhesive butyl band
- Excellent for stitches that require subsequent shaving
- Ideal for waterproofing the external sill support
- The pre-cut liner makes it ideal for all linear and corner seals
- Characterized by butyl glue with a high seal and without solvents, suitable for every laying surface



Features:



Technical data sheet		
Glue		butyl
Glue carrier material		non-woven fabric in PP
Protection liner		YES (pre-cutted)
Thickness		1,0 mm
Specific weight	DIN EN ISO 1183-1	~1,4 g/cm ³
Viscosity	DIN EN ISO 7390	stable
Hardness (Shore 00)	DIN EN ISO 868	~40
Compressive strength	DTU 39.4	>0,04 N/mm ²
Solid content	DIN EN ISO 10563	>99 %
Emissions	EMICODE®	very low
Working temperature		+5°C / +30°C
Temperature resistance		-40°C / +100°C
Fire class	DIN 4102	B2
UV stability		3 months*
Storage place		dry, protected from UV rays, ~20°C
Storage period		max. 12 months



Composition:

- 1 Non-woven fabric in PP
- Butylic glue
- (3) Pre-cutted silicone liner

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Air Coll 75 X	02203207	75x25	4	30
Air Coll 150 X	02203215	150x25	2	30

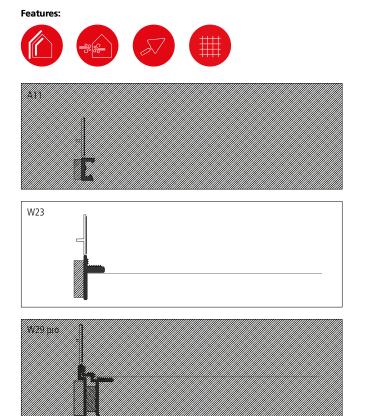
FDB Profile

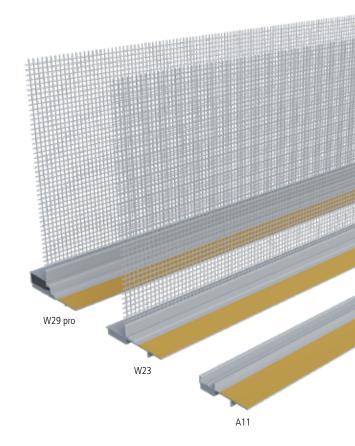


QUICK OVERVIEW: STRENGTHS

Windows and doors next to plasters

- Soffit profile
- Indoor and outdoor use, to connect the window to the thermal insulation system
- Self-adhesive, equipped with expanding tape and available in different types
- Air, water and wind tight joints on windows and doors





Version	Code	Material	Seal	Measures (cmxmm)	Thickness (mm)	L mesh (mm)	Dimension (mm)	Box (m)
A11	02046011	Plastic	PE	240x9	5	-	-	48
W23	02046023	Plastic	PE	240x18	6	250	4x4	60
W29 pro	02046029	Plastic	PE+PUR	240x25	10	125	4x4	60

GAE BG1

QUICK OVERVIEW: STRENGTHS

The self-expanding BG1 class

- Precompressed self-expanding seal
- The elasticity of the joint, is resistant to expansion and vibrations
- Double use, internal and external (high water tightness)
- Ideal for ensuring the thermoacoustic insulation of the connection joints



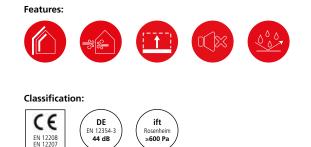


Composition:

- 1 Pre-compressed polyurethane foam
- Polyester reinforced acrylic glue
- 3 Silicone liner

Codes and measures

Version	Code	Measures (mmxm)	Joints (mm)	Box (pc)
GAE BG1 10	02143010	10x13	1-4	30
GAE BG1 15	02143015	15x12	2-6	20
GAE BG1 20	02143020	20x8	4-9	15
GAE BG1 30	02143030	30x4,3	6-15	10



Technical data sheet

Material		polyurethane foam
Glue		acrylic
Protection liner		YES
Stress class	DIN 18452:2009	BG1 e BGR
Permeability coefficient (joints)	DIN EN 12114	a _n ≤0,1 m³/[h m (daPa)²/³]*
Tightness against driving rain	DIN EN 1027	≥600 Pa*
Noise reduction from joints	DIN EN 12354-3	$R_{ST,w}(C;C_{tr}) = 44 (-1;-2) dB$
Compat. with other builiding materials	DIN 18542:2009	compliant
Resist. to UV and atmospheric agents	DIN 18542:2009	compliant
Dimensional tolerance	DIN 7715 T5 P3	compliant
Thermal conductivity (λ)	DIN EN 12667	0,052 W/mK
Vapour passage resistance µ	DIN EN ISO 12572	≤100
Emissions	EMICODE [®]	very low
Working temperature	DIN 18542:2009	-30°C / +90°C
Fire class	DIN 4102-1	B1
Storage place		dry, protected from UV rays, +1°C / +20°C
Storage period		max. 24 months

GAE Trio



Features:



Classification:



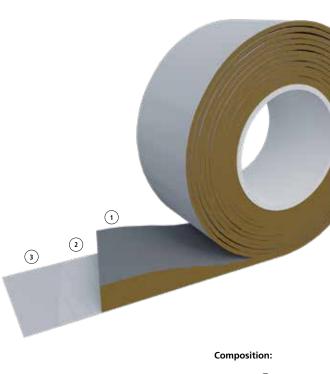
Technical data sheet

Material		polyurethane foam
Glue		acrylic
Stress class	DIN 18452:2009	BG1 e BGR
Permeability coefficient (joints)	DIN EN 12114	a _" ≤0,1 m³/[h m (daPa) ["]]
Tightness against driving rain	DIN EN 1027	≥600 Pa
Noise reduction from joints	DIN EN 12354-3	$R_{ST,w}(C;C_{tr}) = 41 (-1;-1) dB$
Compat. with other builiding materials	DIN 18542:2009	compliant
Resist. to UV and atmospheric agents	DIN 18542:2009	compliant
Value-U (window profile=70 mm)	DIN EN 4108-3	0,8 W/m²K
Value-U (window profile=80 mm)	DIN EN 4108-3	0,7 W/m²K
Value-U (window profile=90 mm)	DIN EN 4108-3	0,6 W/m²K
Thermal conductivity (λ)	DIN EN 12667	0,048 W/mK
Vapour passage resistance µ	DIN EN ISO 12572	≤100
Vapour pressure gradient		permeable externally
Emissions	EMICODE [®]	very low
Working temperature	DIN 18542:2009	-30°C / +80°C
Fire class	DIN 4102-1	B1
Storage place		dry, protected from UV rays, +1°C / +20°C
Storage period		max. 12 months

QUICK OVERVIEW: STRENGTHS

The expanding tape with three functions

- Precompressed self-expanding seal
- Triple function: air, wind and waterproofing, sound insulation
- Control of the vapour passage
- The elasticity of the joint, is resistant to expansion and vibrations
- Function as thermal and acoustic insulation of the connection points



- Pre-compressed polyurethane foam (yellow part inside) (1)
 - Acrylic glue (2)
 - Silicone liner ③

Codes and me	Codes and measures						
Version	Code	Measures (mmxm)	Joints (mm)	Box (pc)			
GAE Trio 54	02150056	54x5,6	5-10	5			
GAE Trio 64	02150064	64x4,3	7-15	4			
GAE Trio 74	02150074	74x3,3	10-20	4			

Elastic Foam

QUICK OVERVIEW: STRENGTHS

The high elasticity certified for airtightness

- Polyurethane monocomponent foam
- Highly insulating viscoelastic airtight foam
- Guarantees thermal and acoustic insulation of the connection joints
- High elasticity even in case of structure movements
- Low expansion foam to guarantee airtightness





Codes and measures					
Version	Code	Content (ml)	Box (pc)	Pallet (box)	
Can	02040505	750	12	56	



Classification:



Technical data sheet

Material		polyurethane monocomponent foam
Density	EN ISO 10563	15 / 20 kg/m³
Output free foaming (20°C/65% UR)	FEICA TM 1003	~38 l (dm³)
Thermal conductivity	DIN 56612	~0,0365 W/mK
Vapour passage resistance µ	EN 12086	19
Joint acoustic insulation (joint 10 mm x 100 mm)	Önorm EN ISO 10140	R _{s.w} (C; Ctr): 63 (-2;-5) dB
Air tightness	EN 1026/EN 12207	up to 600 Pa
Cuttable time (20°C/65% UR)		15 - 20 min.
Formation of skin (20°C/65% UR)		8 - 12 min.
Fire class	DIN 4102-1	B3
Emissions	EMICODE®	EC1 ^{PLUS}
Working can temperature		+10°C / +30°C
Working environment temperature		+5°C / +35°C
Optimal working temperature		+15°C / +25°C
Temperature resistance		-40°C / +80°C
Storage place		dry, protected from UV rays, max. 20°C
Storage period		max. 12 months

Sil Power Fix



Features:



Classification:



Technical data sheet

Material		MCma	
Material		MS polimero	
Colour		Colourless	White
Density		~1,05 g/cm ³	~1,4 g/cm ³
Output		30 n	nl/m
Hardness (Shore A)		~22	~25
Max. joint deformation		±25	5 %
Elongation at break		npd*	250 %
Overpaintable		on complete hardening	
Formation of skin (23°C/50% UR)		~10 min.	~60 min.
Drying (23°C/50% UR)		~2 mm/24 h	
Emissions	EMICODE [®]	-	EC1 ^{PLUS}
Working temperature		+5°C / +40°C	
Operating temperature		-20°C /	+100°C
Fire class	EN 13501-1	E	
Classification facade elements	EN 15651-1	F-INT	25LM
Classification bathroom plumbings	EN 15651-3	npd*	XS1
Classification walkways	EN 15651-4	npd*	25LM
Storage place		dry, protected from UV rays, +5°C / +25°C	
Storage period		max. 12	months

QUICK OVERVIEW: STRENGTHS

The elastic sealant, durable and invisible

- Ms Polymer sealant
- Ideal for air- and windtight sealing of any interruptions of the building envelope
- Completely invisible and flexible joint; internal and external use
- Particularly resistant to expansions and vibrations



Version	Code	Content (ml)	Box (pc)	Pallet (box)
Colourless	02040408	290	20	60
White	02040409	290	20	60

Nail sealing products

Air or wind tightness very often finds a solution with the use of specific seals, that can be produced in various materials: polyethylene or PVC foams, bitumen bands or polyurethane-based liquid solutions.

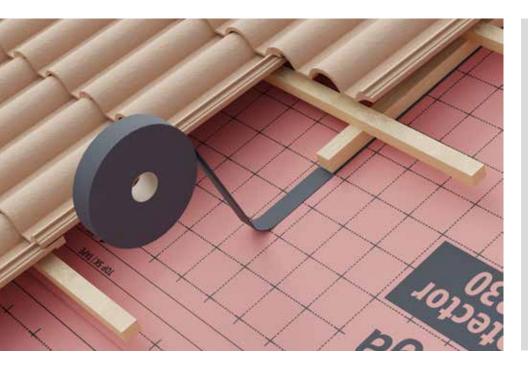
Riwega's seal

Using the range of products offered by Riwega, the holes made by the screws/nails for fixing the roof battens can be sealed; these products also find application in the laying of structures for plasterboard or for ventilated facades, as they seal holes on the vapour control layers or in the breathable membranes against air or wind passage.

Technical solutions to assist you with professional waterproofing, such as:

- Continuous single-sided polyethylene foam nail sealing tape with acrylic adhesive. Bonding should always be to the waterproofing membrane (not to the counter batten), along the counter batten line;
- Continuous double-sided polyethylene foam nail sealing tape with a double layer of acrylic adhesive. It can be glued to the waterproofing membrane as well as to the wooden battens. With this nailing tape, the counter battens can be prepared in advance and fixed to the roof at a later stage;
- One-sided, continuous bitumen-based nail sealing tape. Bonding should be done above the waterproofing membrane (not on the counter batten), along the counter batten line;
- Single nail seals are made of PVC foam with acrylic adhesive on one side. Should be glued to the waterproofing;
- Polyurethane-based sealing liquid. It should be applied directly to the counter batten using the appropriate two-way dispensing nozzle, immediately before it is positioned and fixed to the waterproofing membrane. The reaction of the liquid forms 2 sealing beads on the edges of the counter-battening.

Tip KONT



QUICK OVERVIEW: STRENGTHS

The continuous nail sealing tape

- Single-sided adhesive nail sealing tape
- Guarantees air-, wind- and water tightness of the breathable membranes
- Thanks to its high elasticity it is resistant to dilations and vibrations
- Wall and roof application

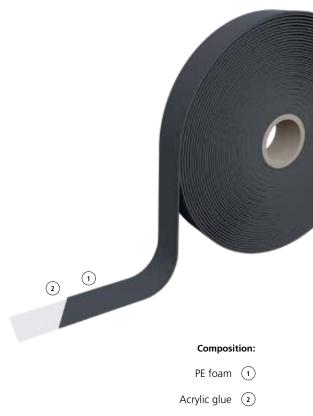
Features:



Classification:



Technical data sheet		
Material		PE foam
Glue		acrylic
Protection liner		NO
Thickness		3 mm
Specific weight		25 / 30 kg/m ³
Peel adhesion	DIN EN 1939	≥5 N/25 mm
Shear stregth	DIN EN 1943	500 g/625mm ²
Working temperature		+10°C / +30°C
Temperature resistance		-30°C / +80°C
Resistance to condensation		high
Resistance to aging		limited
UV stability		limited
Storage place		dry, protected from UV rays
Storage period		max. 24 months



Codes and measures					
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)	
Tip KONT 60	02045001	60x30	10	18	
Tip KONT 70	020450017	70x30	9	18	
Tip KONT 80	02045003	80x30	7	18	

Tip KONT DUO

QUICK OVERVIEW: STRENGTHS

The continuous doubleadhesive nail sealing tape

- Double-sided adhesive nail sealing tape
- Fast and precise installation thanks to the double adhesive surface
- Guarantees air-, wind- and water tightness of the breathable membranes
- Wall and roof application



Features:



Classification:



Technical data sheet		
Material		PE foam
Glue		acrylic
Protection liner		YES
Thickness		3 mm
Specific weight		25 / 30 kg/m³
Peel adhesion	DIN EN 1939	≥5 N/25 mm
Shear stregth	DIN EN 1943	500 g/625mm ²
Working temperature		+10°C / +30°C
Temperature resistance		-30°C / +95°C
Resistance to condensation		high
Resistance to aging		high
UV stability		limited
Storage place		dry, protected from UV rays
Storage period		max. 24 months



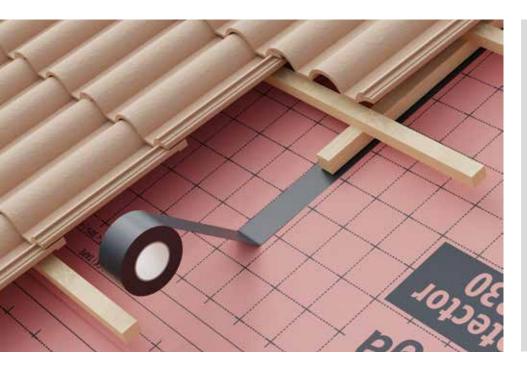
Composition:

- $\textcircled{1} \quad \text{Silicone liner}$
- Acrylic glue
- 3 PE foam
- (4) Acrylic glue

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Tip KONT DUO 50	020450041	50x30	10	18
Tip KONT DUO 60	02045004	60x30	10	18

Tip KONT Bitum



QUICK OVERVIEW: STRENGTHS

The bituminous nail sealing tape

- Continuous nail sealing tape
- Particularly resistant to UV rays and ageing
- Guarantees air, wind and water tightness of the breathable membranes
- Thanks to its high elasticity it is resistant to dilations and vibrations

Features:



Classification:



Technical data sheet

Material	bitumen/PE film
Glue	adhesive bitumen
Protection liner	YES
Thickness	~1,2 mm
Colonna d'acqua	>1000 cm
Working temperature	≥+5°C**
Temperature resistance	≥-5°C
UV stability	6 months*
Storage place	dry, protected from UV rays
Storage period	max. 24 months

PE film (1) Adhesive bitumen (2) Silicone liner (3) Codes and measures Version Code Measures (mmxm) Box (pc) Pallet (box) Tip KONT Bitum 60 020600609 60x25 6 24

70x25

80x25

3 2 1

Tip KONT Bitum 70

Tip KONT Bitum 80

020600709

020600809

*with reference to the Central European climate

**if necessary, heat the surface to improve adhesion

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4

Composition:

24

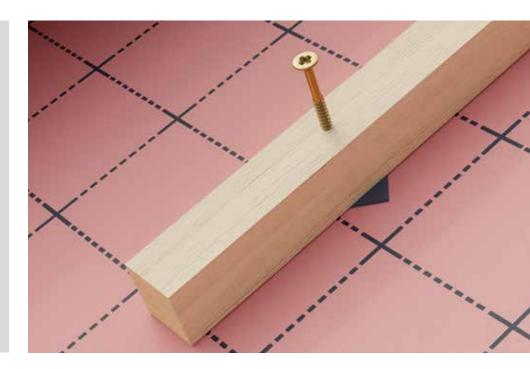
24

Tip 60 / Tip 80

QUICK OVERVIEW: STRENGTHS

The punctual nail sealing

- Self-adhesive single nail sealing patch
- Guarantees air, wind and water tightness of the breathable membranes
- Thanks to its high elasticity it is resistant to dilations and vibrations
- Different measurements for different needs



Features:





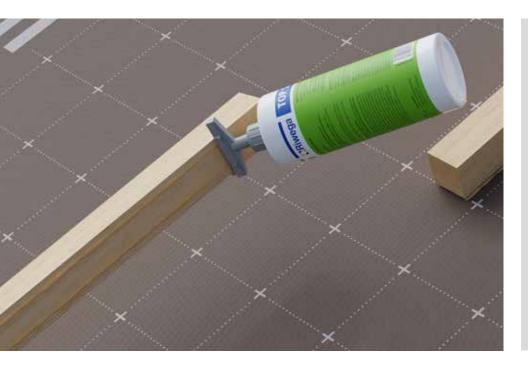
Codes and measures

Version	Code	Measures (mmxmm xm)	Roll (units)	Box (pc)
Tip 60	02045000	60x40 x20	500	10
Tip 80	02045002	80x80 x20	250	8

Technical data sheet		
Material		PVC foam
Glue		acrylic
Protection liner		YES
Thickness		5 mm
Specific weight		120 kg/m³
Peel adhesion	DIN EN 1939	≥5 N/25 mm
Shear stregth	DIN EN 1943	250 g/625mm ²
Working temperature		+10°C / +30°C
Temperature resistance		-30°C / +100°C
Resistance to condensation		high
Resistance to aging		high
UV stability		high
Storage place		dry, protected from UV rays
Storage period		max. 24 months

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Top Seal



QUICK OVERVIEW: STRENGTHS

The liquid nail sealing

- Nail sealing in a cartridge
- Equipped with a special nozzle for a homogeneous and fast laying
- Guarantees air-, wind- and water tightness of the breathable membranes
- Excellent value for money

Features:



Classification:



Technical data sheet			
Material		1-Kwet cross-linked polyurethane	
Viscosity (20°C)		~1500 mPa.s	
Density (20°C)	EN 542	~1,15 g/cm ³	
Formation of skin (20°C)		~12 min.	
Partial hardening (20°C/50% UR)		~24 h	
Total hardening (20°C/50% UR)		~7 d	
Output		~20 g/m	
Working temperature sigillante		+7°C / +30°C	
Working temperature ambiente		from -5°C	
Storage place		dry, protected from UV rays, max. 25°C	
Storage period		max. 12 months	



Codes and measures

Version	Code	Content (ml)	Box (pc)	Pallet (box)
Cartridge	020450042	1000	10	64
Nozzle FD	020450043	-	1	-

Ground connections

The most common problem with improperly assembled timber structures is undoubtedly the decay of the walls in the area of the foundation. This is an unfortunately widespread phenomenon that occurs a few years after construction and irrevocably damages the wooden structure, subsequently requiring extensive and very costly repairs to the lower part of the walls.

For this reason, Riwega has developed several solutions for sealing the base of the wall to the concrete foundation, but also some solutions for sealing wooden walls, especially on the exterior where a good base must be created for the thermal insulation composite system.

The offered solutions can be used on the construction site or already during pre-production. They are made of different materials such as butyl, bitumen and synthetic material. The product range consists of, among other solutions:

- A butyl adhesive tape with polypropylene fleece on the back, for the bottom/outer sealing of timber walls; it can be applied to the timber wall on site or during pre-production;
- A butyl adhesive tape with polypropylene fleece on the back, for the bottom/outer sealing of wooden walls. It can be applied during prefabrication or later on-site for sealing between the timber wall and the concrete curb (or slab);
- A polyethylene tape with 2 EPDM gaskets for sealing on the underside of the timber wall. The application of this product works if the base or foundation has unevenness or irregularities of 10 mm or less. It can be applied on-site or during prefabrication, by tacking it to the bottom surface of the timber wall;
- An EPDM tape with 2 pre-compressed polyurethane foam strips to seal and waterproof the underside of the timber wall; the application of this product works if the concrete base has unevenness or irregularities of a maximum of 20 mm; it can be applied by stapling it to the underside of the timber wall or by using a butyl adhesive strip on the lower and outer surface of the wall, depending on the version. It can be applied on-site or during prefabrication;
- A bitumen tape, covered with a non-woven polypropylene fabric. It is used to seal the underside of the timber wall and can only be applied on site.

Coll Vlies Plus



QUICK OVERVIEW: STRENGTHS

The solution against rising damp

- Self-adhesive butyl strip
- Designed to waterproof • the connection point of the wooden wall over the foundation
- Can be applied cold to all building materials, prevents rising damp
- Can be over-plastered

new product

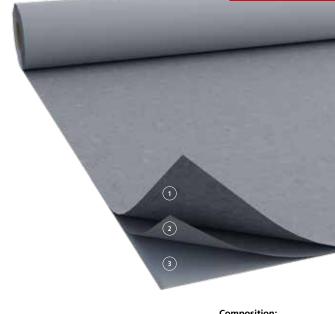


Classification:



Technical data sheet

	butyl
	non-wowen fabric in PP
	YES
ISO 16000-6	30 µg/m³
	1 mm
EN 12311-1	115 / 100 N/50mm
EN 12311-1	100 / 100 %
ASTM D 2979	8.0 N
ASTM D 1000	20 N/cm
DIN EN ISO 10563	100 %
ISO 7390	0 mm
EN 12004 EN 1348	0,9 N/mm²
	+0°C / +40°C
	-30°C / +90°C
	dry, protected from UV rays, +5°C / +40°C
	max. 12 months
	EN 12311-1 EN 12311-1 ASTM D 2979 ASTM D 1000 DIN EN ISO 10563 ISO 7390 EN 12004



Composition:

- Non-woven fabric in PP (1)
 - Butylic glue (2)
 - Silicone liner (3)

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll Vlies Plus 250	02044250	250x10	2	140
Coll Vlies Plus 500	02044500	500x10	1	70

Coll HDPE

QUICK OVERVIEW: STRENGTHS

The best mechanical resistance

- Self-adhesive bituminous strip
- Designed to waterproof the connection point of the wooden wall and as an anticorrosive covering
- Can be applied "cold", a simple and quick application
- Excellent mechanical resistance against mechanical stress
- Optimum dielectric strength and high deformability

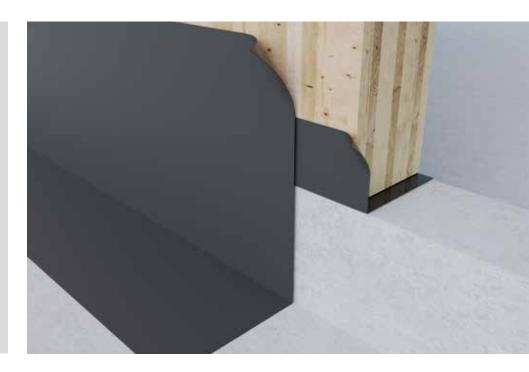




- (1) HDPE film
- (2) Bituminous compound
- (3) Silicone liner

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
Coll HDPE 250	020445031	250x20	2	40
Coll HDPE 500	02044503	500x20	1	40
Coll HDPE 1000	020445032	1000x20	1	25



Features:

Classification:

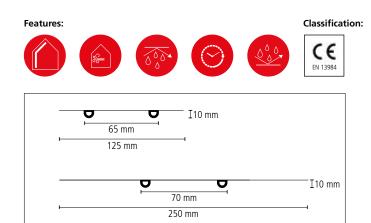


Technical data sheet

bitumen		Glue
HDPE		Glue carrier material
YES		Protection liner
1,5 mm		Thickness
90000	EN 1931	Water vapour permeability μ
215 / 220 N/50mm	EN 12311-1	Tensile strength MD/CD*
310 / 240 %	EN 12311-1	Elongation at break MD/CD*
135 / 135 N	EN 12310-1	Tear resistance MD/CD*
10 / 15 kg	EN 12730	Static load resistance Met. A/B
2,9 N/mm	ASTM D 1000	Adhesion (to concrete at 23°C)
5,7 x 10 ⁻¹² m ² /s	SP Swedish NT&RI	Permeability to radon gas
<5 cc/m² x 24h x atm	CSI Method	Permeability to methane gas
7 N	ASTM D 2979	Probe Tack
+5°C / +45°C		Working temperature
-40°C / +80°C		Operating temperature
E	EN 13501-1	Fire class
dry, protected from UV rays, +5°C / +40°C		Storage place
max. 12 months		Storage period

GAE ST





Technical data sheet

Material		LDPE/EPDM
Water tightness	EN 1928	passed
Water vapour permeability	EN 1931-B	min. 3,0 x 10 ⁶ s/m
Impact resistance		min. 500 mm
Tensile strength MD/CD*	EN 12311-2 met.B	min. 20 / 20 N/mm ²
Elongation at break MD/CD*	EN 12311-2 met.B	min. 550 / 600 %
Nail tear stregth MD/CD*	EN 12310-1	min. 120 / 120 N
Fire class	EN 13501-1	F
EPDM profile dimension		~10 mm
EPDM density	ISO 2781A	~0,3 g/cm ³
Compression set (50%) after 22h/23°		7 %
Compression set (50%) after 22h/70°		36 %
Deflection by compression (25%)		52 kN/m²
Storage place		dry, protected from UV rays
Storage period		max. 24 months

QUICK OVERVIEW: STRENGTHS

The protection of wooden elements

- Airtight sealing
- Waterproofing between wooden elements and other types of structure
- High resistance to high load pressures
- High resistance to UV rays and ageing
- Available in different sizes adaptable to the width of the wooden structure



Composition:

Film in PE (1)

Elastic EPDM pipes (2)

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
GAE ST 125	02045005	125x25	8	6
GAE ST 250	02045006	250x25	6	6

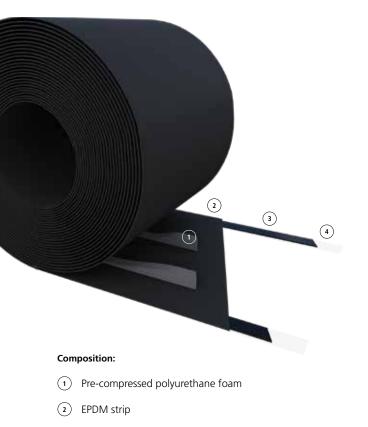
GAE ST Plus

QUICK OVERVIEW: STRENGTHS

The expansive protection for wooden elements

- Sealing gasket
- Waterproofs the connection between wood and structures even with uneven surfaces
- Particularly resistant to UV rays and ageing
- Available in different sizes adaptable to the width of the wooden structure

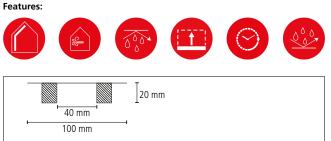


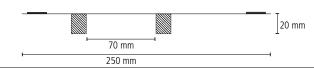


- 3 Butylic glue (GAE ST Plus 250)
- (4) Silicone liner (GAE ST Plus 250)

Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
GAE ST Plus 100	020450060	100x25	3	24
GAE ST Plus 250	020450061	250x25	1	24





Technical data sheet

Strip material		EPDM based rubber
Gasket material		polyurethane foam
Glue (GAE ST Plus 250)		butylic (2x20 mm)
Thickness EPDM		0,8 mm
Tear resistance	DIN 53504	≥25 kN/m
Tensile strength	DIN 53504	≥6,5 mPa
Elongation at break	DIN 53504	≥ 300 %
Dimensional tolerance	DIN 7715 T5 P3	compliant
Vapour passage resistance µ	DIN EN 1931	~32000
Working temperature		+5°C / +35°C
Temperature resistance		-30°C / +100°C
Fire class	DIN 13501 T1	E
Ozone and UV stability	DIN 7864 T1	compliant
Storage place		dry, protected from UV rays, +1°C / +25°C
Storage period		max. 12 months

GAE ST Bitum



QUICK OVERVIEW: STRENGTHS

The protection with high mechanical resistance

- Bitumen and non-wowen strip
- Prevents rising humidity between concrete and wooden structures
- Available in different sizes adaptable to the width of the wooden structure
- High resistance to high load pressures
- Quick and easy cold laying



Codes and measures

Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
GAE ST Bitum 140	020450065	140x10	1	140
GAE ST Bitum 200	020450066	200x10	1	100

Technical data sheet

Features:

Material		non-wowen fabric in PP
Glue		BPE elastomer bitumen
Reinforcement		PET armouring
Thickness		4 mm
Density		1300 kg/m ³
Visible defects	EN 1850-1	passed
Water tightness	EN 1928 met.B	passed
Water vapour permeability µ	EN 1931	20000
Thermal conductivity (λ)		0,17 W/mK
Dynamic stiffness	EN 29052-1	s't=s'= 422 MN/m ² s't=s'= 917 MN/m ²
Storage place		dry, protected from UV rays, +5°C / +40°C
Storage period		max. 12 months

Sealings for wooden structures

The air and wind tightness of timber constructions is very often achieved by using special gaskets, which can be made of EPDM or pre-compressed polyurethane foam.

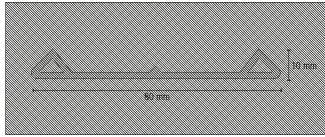
EPDM gaskets find their place at the joints between different construction elements. The Riwega range includes two types: a compact EPDM gasket used at joints between wooden walls and floors in CLT (X-lam) or frame constructions. Due to its uneven surface, this gasket reduces the passage of acoustic vibrations in all wooden structures. Another product is the EPDM foam gasket, which is used at joints of CLT (X-lam) or frame constructions and primarily has an airtight function.

Pre-compressed polyurethane foam tapes (GAE BG2), on the other hand, are used as a solution for special situations in carpentry to prevent the penetration of water and wind inside joints; other possible applications are the sealing of insulation packages or the sealing between the wooden beam supports in log cabin walls.

GAE LVD







QUICK OVERVIEW: STRENGTHS

The essential for wooden joints

- Sealing gasket
- Waterproofing to air, water and wind of the connections in the wooden houses
- Resistant to dilatation and vibrations due to its high elasticity
- Also ideal for sealing the lower joint of the windows and doors



Composition:

Expanded elastic EPDM (1)

 Technical data sheet

 Material
 expanded EPDM

 Side overhangs height
 ~10 mm

 Density
 0,5 g/cm³

 Working temperature
 -45°C / +120°C

 Storage place
 dry, protected from UV rays

 Storage period
 max. 24 months

Codes and me	easures			
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)
GAE LVD 80	02045007	80x25	12	1

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GAE STG Double

QUICK OVERVIEW: STRENGTHS

Stop the spread of noise

- Sealing gasket
- Stops the passage of footstep vibrations for a better noise reduction
- Waterproofing to air, water and wind of the connections in the wooden houses
- Divisible in half for one use versatile in all laying conditions
- Quick and easy application



Features:



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Hardne

Codes and measures						
Version	Code	Measures (mmxm)	Box (pc)	Pallet (box)		
GAE STG Double	020450081	85 (42,5x2) x25	12	4		

Technical data sheet		
Material		rigid EPDM
Thickness		5 mm
Density		1,3 g/cm ³
Elongation at break	ISO 37 Tipo 1	≥ 250 %
Breaking load	ISO 37 Tipo 1	≥5 N/mm²
Hardness (Shore A)	ASTM D 2240 3s	60
100% module		≥1,5 N/mm²
Working temperature		-45°C / +130°C
Storage place		dry, protected from UV rays
Storage period		max. 24 months

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(1) Compact EPDM

GAE BG2



Features:



Classification:



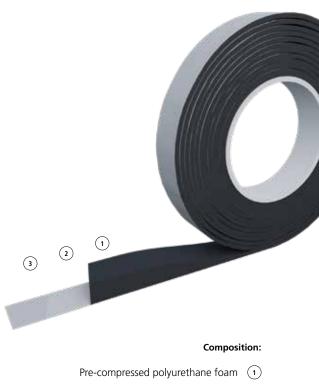
Technical data sheet

Material		polyurethane foam
Glue		acrylic
Protection liner		SI
Stress class	DIN 18452:2009	BG2
Permeability coefficient (joints)	DIN EN 12114	a _" ≤1,0 m³/[h m (daPa) ⁿ]
Tightness against driving rain	DIN EN 1027	≥300 Pa
Compat. with other builiding materials	DIN 18542:2009	compliant
Resist. to UV and atmospheric agents	DIN 18542:2009	compliant
Dimensional tolerance	DIN 7715 T5 P3	compliant
Thermal conductivity (λ)	DIN EN 12667	npd*
Vapour passage resistance µ	DIN EN ISO 12572	≤100
Emissions	EMICODE®	very low
Working temperature	DIN 18542:2009	-30°C / +90°C
Fire class	DIN 4102-1	B1
Storage place		dry, protected from UV rays, +1°C / +20°C
Storage period		max. 12 months

QUICK OVERVIEW: STRENGTHS

The self-expanding BG2 class

- Precompressed selfexpanding seal
- The elasticity of the joint, resistant to expansion and vibrations
- Suitable for airtight sealing of various joints in the building
- Ideal for ensuring the • thermo-acoustic insulation of the connection joints



- PET reinforced acrylic glue (2)
 - Silicone liner (3)

Codes and measures

Version	Code	Measures (mmxm)	Joints (mm)	Box (pc)
GAE BG2 20	02142017	20x12	2-6	15
GAE BG2 30	02105020	30x4,3	6-15	10

45 **R3**

*no performance determinated

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Bituminous adhesive stripes

A fundamental requirement for the durability and correct functioning of buildings is waterproofing and humidity; in fact, water infiltrations in any part of the building are the cause of degradation of structures, rot, mould and fungus formation, of a significant reduction in the insulating capacity of materials and a drastic decline in living comfort. It is essential to identify which are the most sensitive points of the building and to apply solutions that make them protected and secure. In these cases, one of the most widely used materials for waterproofing is bitumen.

Riwega bituminous adhesive stripes

Riwega has decided to use bitumen in the form of adhesive glue, which can be a solution to various needs if combined with specific supports.

The fields of application of the bituminous adhesive stripes are as follows:

A) Coll Solar

Sealing under photovoltaic panels: Normally, sheet metal "trays" are used in this case; instead, a self-adhesive bitumen membrane with coated aluminium foil can be installed to optimise costs and reduce installation time. This is characterised by water impermeability, slip resistance, mechanical resistance, UV and temperature resistance and durability.

B) Coll Radon

Foundation waterproofing can have several functions: It prevents rising humidity from the concrete of the foundation, it acts as a vapour barrier and, most importantly, it provides an excellent barrier to rising radon gas. For these cases, Riwega proposes a self-adhesive bitumen membrane coated with an anti-corrosive aluminium foil; this product is glued to the surface of the house foundation and then covered with the concrete screed.

Coll Solar



QUICK OVERVIEW: STRENGTHS

The ideal one for integrated photovoltaic panels

- Self-adhesive bituminous strip
- Ideal under rear-ventilated photovoltaic systems
- Can be applied "cold", a simple and quick application
- Antislip, excellent puncture resistance
- High resistance to atmospheric agents and ageing

Features:

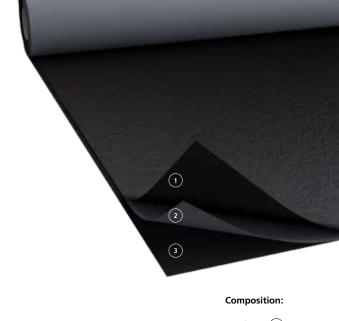


Classification:



Technical data sheet

Glue		bitumen
Glue carrier material		aluminium
Thickness	EN 1849-1	1,2 mm
Tensile strength MD/CD*	EN 12311-1	180 / 190 N/50mm
Elongation at break MD/CD*	EN 12311-1	20 / 30 %
Tear resistance MD/CD*	EN 12310-1	45 / 40 N
Static load resistance met. A/B	EN 12730	15 / 20 kg
Peel resistance	EN 12316-1	20 N/50mm
Shear resistance MD/CD*	EN 12317-1	190 / 210 N/50mm
Water tightness (≥60 kPa)	EN 1928	passed
Sd value		≥1500 m
Working temperature		+5°C / +45°C
Operating temperature		-40°C / +80°C
	DIN 4102	B2
Fire class	EN 13501-1	E
Storage place		dry, protected from UV rays, +5°C / +40°C
Storage period		max. 12 months



- Non-slip-embossed aluminium film (1)
 - Bituminous compound (2)
 - Protection liner ③

Coues and m	easures	
Codes and measures		

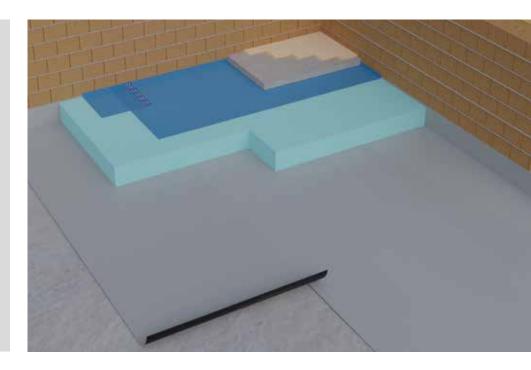
Version	Code	Measures (m)	Box (pc)	Pallet (box)
Coll Solar	02044501	1x25	1	26

Coll Radon

QUICK OVERVIEW: STRENGTHS

The invincible against radon

- Self-adhesive bituminous strip
- Certified as a barrier against radon gas
- Vapour barrier against radon and methane
- Can be applied "cold", a simple and quick application
- Reinforced surface, excellent puncture resistance





- 1 Alcali resistant PE-protection film
- Aluminium film
- 3 Bituminous compound
- (4) Protection liner

Codes and me	Codes and measures				
Version	Code	Measures (m)	Box (pc)	Pallet (box)	
Coll Radon	02044502	1x25	1	25	

Features:



Classification:



Technical data sheet

	bitumen
	aluminium.PE
EN 1849-1	1,2 mm
EN 12311-1	180 / 190 N/50mm
EN 12311-1	15 / 20 %
EN 12310-1	70 / 70 N
EN 12730	15 / 20 kg
EN 12316-1	35 N/50mm
EN 1928	passed
	≥1500 m
SP-Method 3873	0,47 x 10 ⁻⁹ m/s
SP-Method 3873	0,56 x 10 ⁻¹² m ² /s
CSI Method	<5 cc/m ² x 24h x atm
	+5°C / +45°C
	-40°C / +80°C
DIN 4102	B2
EN 13501-1	E
	dry, protected from UV rays, +5°C / +40°C
	max. 12 months
	EN 12311-1 EN 12311-1 EN 12310-1 EN 12310-1 EN 12316-1 EN 1928 SP-Method 3873 SP-Method 3873 CSI Method DIN 4102

Adhesives and sealants

In various applications there are situations where it is necessary to work with adhesives or sealants in cartridges; Riwega has developed some solutions for this:

- An acrylic adhesive/sealant in a cartridge with thixotropic properties (which allow subsequent processing) for bonding vapour control layers, breathable membranes, or sealing tapes for windows and doors to various types of building materials (wood, brick, plaster, mortar, concrete, etc.).
- A butyl sealant in cartridge that simplifies sealing in difficult-to-handle situations; useful in cases where sealing with tape is not possible. It can be used as an adhesive for bonding vapour control layers, breathable membranes, or sealing tapes for windows and doors to various types of building materials (wood, brick, plaster, mortar, concrete, etc.).
- Riwega products are ideal for installing vapour control layers on roofs where conventional installation is difficult. E.g. on brick-concrete roofs where installation with staples or nails is not possible; thus, the vapour control layer can be professionally installed on the substrate.

Sil Butyl

QUICK OVERVIEW: STRENGTHS

The universal toluene-free adhesive

- Butyl rubber-based sealant
- Indicated for bonding and sealing of membranes and vapour screens
- High elasticity, even in case of movements of the structure
- High resistance against atmospheric agents and ageing
- Toluene-free





Codes and measures

Version	Code	Content (ml)	Box (pc)	Pallet (box)
Cartridge	02040406	310	20	60
Tube	02040407	600	20	-



Classification:



Technical data sheet

	butylic glue
EN ISO 10563	~1,65 g/cm ³
	~10 m
	~20 m
EN ISO 53505	~15
	6 mm
	10 - 15 mm
	stable
	10 %
DIN 18545-B	1 h
DIN EN 27390	stable
	with petrol / turpentine
EN 13501-1	E
DIN 4102	B2
	+5°C / +40°C
DIN 52455-4	-40°C / +90°C
	dry, protected from UV rays, +15°C / +25°C
	max. 12 months
	EN ISO 53505 DIN 18545-B DIN EN 27390 EN 13501-1 DIN 4102



QUICK OVERVIEW: STRENGTHS

The universal acrylic sealant

- Acrylic acid esters-based copolymer sealant
- Indicated for bonding and sealing of membranes and vapour screens
- Thixotropic, filling and sealing properties
- High adhesion to all surfaces, solvent-free



Codes and measures

Version	Code	Content (ml)	Box (pc)	Pallet (box)
Cartridge	02040400	310	20	60
Tube	02040401	600	20	-



Technical data sheet			
Material		acrylic acid ester-based copolymer with additives	
Density		~1,00 g/cm ³	
Output		~30 / 40 g/m	
Formation of skin		da ~ 30 min. immediate adhesiveness	
Drying time		1 / 7 d	
Viscosity		mellow and thixotropic	
Emissions	EMICODE ®	very low	
Working temperature		-5°C / +40°C recommended over +5°C	
Operating temperature		-30°C / +80°C	
Storage place		dry, protected from UV rays, +15°C / +25°C	
Storage period		max. 12 months	

Glue DB

QUICK OVERVIEW: STRENGTHS

The perfect adhesion on cement surfaces

- Polyurethane monocomponent foam
- Indicated for bonding membranes and vapour screens on all building surfaces
- Fast-drying and high resistance to ageing
- Can also be used to bond synthetic insulation panels
- Easy and fast application





Technical data sheet

Material		polyurethane monocomponent foam
Density	EN ISO 10563	15 / 25 kg/m³
Output free foaming (20°C/65% UR)		47 l (dm³)
Thermal conductivity (20°C/65% UR)	DIN 56612	~0,035 W/mK
Dimensional stability	FEICA TM 1004	±5 %
DVA Vapour passage resistance	DIN 53429	50 / 60 g/m²/24h
Cuttable time (20°C/65% UR)		20 - 30 min.
Formation of skin (20°C/65% UR)		8 - 12 min.
Pressure resistance (def. 10%)	DIN 53421	5 / 7 N/cm ²
Fire class	DIN 4102-1	B3
Working can temperature		+10°C / +30°C
Working environment temperature		+3°C / +35°C
Optimal working temperature		+15°C / +25°C
Temperature resistance		-40°C / +80°C
Storage place		dry, protected from UV rays, max. 20°C
Storage period		max. 15 months



Codes and measures				
Version	Code	Content (ml)	Box (pc)	Pallet (box)
Can	02040510	750	12	56

Technical manual: Roof and wall / Windows installation

Find the solution for your projects' or working sites' situation





Find out more on our website!

AIR Stop line

One of the major problems for the building envelope's air and wind tightness is represented by the many junctions in the structure; in fact, there are many points in the house where walls and roofs are crossed by electric corrugated pipes, hydraulic pipes, vents, chimneys, CMV pipes, etc. In such situations, it's essential, that each potential air passage is perfectly sealed. Otherwise, these sensible points could become a thermal bridge, where crossing air forms condensation inside the building envelope.

To guarantee these steps' sealing, Riwega has developed the Air Stop line which boasts an interesting series of products:

A) Universal collars

Produced with pre-engraved EPDM sheets and equipped with acrylic adhesive tape on the perimeter; in various sizes, they are useful for sealing passages of single cables, corrugated pipes, vents and other types of pipes with various diameters.

B) Single EPDM collars

Installed on an aluminium or PP support coated with butyl glue; these elements are used, choosing the desired diameter, to seal the single passages, from 4 mm diameter cables, up to 25 mm diameter pipes.

C) Single EPDM collars for chimney flues

Available in various diameters, resistant to high temperatures. They are mounted on aluminium support coated with butyl adhesive and are used for individual sealing of stove chimneys.

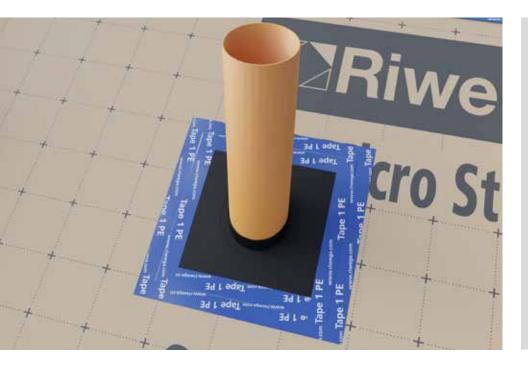
D) Multi-pass silicone collars

Coupled with aluminium support coated with butyl glue, with the function to seal several electrical cables or corrugated pipes (up to 6) that pass through the casing in the same place.

E) Air stoppers

To seal the passage of air inside the corrugated pipes; they allow the passage of electric cables through the end membranes of the caps.

AIR Stop Universal



QUICK OVERVIEW: STRENGTHS

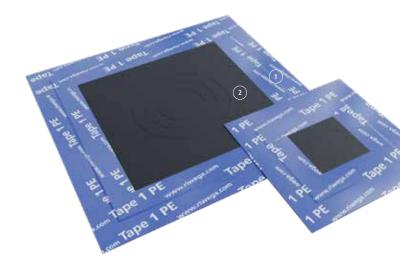
The universal with a pre-cut diameter

- Self-adhesive sealing collar
- Multiple pre-cut holes for adapt to cables and pipes of every diameter
- Fast and secure sealing thanks to applied adhesive tape
- Ideal for sealing against water, air, wind all breathable membranes and vapour barriers
- For roof and wall



Technical data sheet - Adhesiv		
Glue		disp. based polyacrylate
Glue carrier material		PE surface
Reinforcing mesh		YES
Protection liner		YES
Solvents and emollients		NO
Thickness	DIN EN 14410	0,27 - 0,29 mm
Tear resistance with elasticity	DIN EN 14410	≥25 N/25 mm; 300 %
Resistance to condensation		very high
Resistance to aging		very high
Initial adhesion (Tack)		very high
UV stability		24 months
Working temperature		+5°C / +30°C
Temperature resistance		-30°C / +100°C
Technical data sheet - El	PDM	
Hardness (Shore A)		67°

Hardness (Shore A)EN67°Tensile strengthEN12311-29,4 MPaTear resistanceEN12310-255 kN/mElongation at breakEN430 %Sd valueEN1931~60 mTemperature resistanceEN-45°C / +130°CStorage placeStorage periodmax. 24 months			
Tear resistance EN 12310-2 55 kN/m Elongation at break 430 % Sd value EN 1931 ~60 m Temperature resistance -45°C / +130°C Storage place dry, protected from UV rays	Hardness (Shore A)		67°
Elongation at break 430 % Sd value EN 1931 Temperature resistance -45°C / +130°C Storage place dry, protected from UV rays	Tensile strength	EN 12311-2	9,4 MPa
Sd value EN 1931 ~60 m Temperature resistance -45°C / +130°C Storage place dry, protected from UV rays	Tear resistance	EN 12310-2	55 kN/m
Temperature resistance -45°C / +130°C Storage place dry, protected from UV rays	Elongation at break		430 %
Storage place dry, protected from UV rays	Sd value	EN 1931	~60 m
Storage place protected from UV rays	Temperature resistance		-45°C / +130°C
Storage period max. 24 months	Storage place		
	Storage period		max. 24 months



Composition:

- Adhesive Tape 1 PE (1)
- EPDM sheet with pre-engravings (2)

Codes and measures

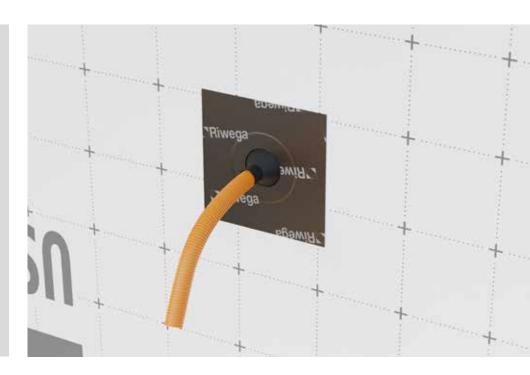
Version	Code	Measures (mm)	Internal diameters (mm)
60/135	02202500	345x345	60 (1 hole) for ø80-125 pipes
			100 (1 hole) for ø125-160 pipes
			135 (1 hole) for ø160-200 pipes
2/55	02202510	195x195	3 (4 holes) for ø7-10 cables
			7 (2 holes) for ø10-22 cables
			55 (1 hole) for ø80 pipes

AIR Stop EPDM

QUICK OVERVIEW: STRENGTHS

The ally for the sealing of pipes and cables

- Self-adhesive sealing collar
- Multiple measures to adapt to cables and pipes of each diameter
- Particularly resistant to UV rays and ageing
- Ideal for sealing against water, air, wind all breathable membranes and vapour barriers
- Aluminium surface, on request with plasterable TNT





AIR Stop D1 Ø 4-8 mm		
Code	02201504	
Internal diameter of the collar	4-8 mm	
Base dimension	150x150 mm	
Type of application	tubes: electrical, telephone, aerial and satellite dish	
Box	10 pcs	



AIR Stop D1 Ø 8-12 mm

Code	02201508
Internal diameter of the collar	8-12 mm
Base dimension	150x150 mm
Type of application	tubes: electrical, telephone, aerial and satellite dish
Box	10 pcs



AIR Stop GD21		
Code	02201515	
Internal diameter of the collar	15-22 mm	
Base dimension	150x150 mm	
Type of application	tubes: electrical, plumbing, of heating	
Вох	10 pcs	

AIR Stop GD22		
Code	02201525	
Internal diameter of the collar	25-32 mm	
Base dimension	150x150 mm	
Type of application	tubes: plumbing, of heating	
Box	10 pcs	

AIR Stop EPDM

AIR Stop GD23

Code	02202242
Internal diameter of the collar	40-55 mm
Base dimension	230x230 mm
Type of application	tubes: plumbing, of solar panels, of exhaust
Box	2 pcs

AIR Stop RGD50

Code	02202250
Internal diameter of the collar	50-72 mm
Base dimension	230x230 mm
Type of application	tubes: of solar panels, of exhaust
Box	2 pcs

AIR Stop RGD75

Code	02202275
Internal diameter of the collar	72-90 mm
Base dimension	230x230 mm
Type of application	tubes: of vents, hood, gas
Box	2 pcs

AIR Stop RGD100

Code	02202299
Internal diameter of the collar	100-110 mm
Base dimension	320x320 mm
Type of application	tubes: of vents, hood, gas
Box	2 pcs

AIR Stop FRGD100

Code	02203510
Internal diameter of the collar	100-125 mm
Base dimension	350x350 mm
Type of application	tubes: of vents, hood, gas
Box	2 pcs

AIR Stop FRGD150

	·
Code	02203515
Internal diameter of the collar	150-165 mm
Base dimension	350x350 mm
Type of application	tubes: of vents, hood, gas
Вох	2 pcs

AIR Stop RGD200

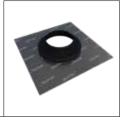
Code	02203516
Internal diameter of the collar	200x220 mm*
Base dimension	420x420 mm
Type of application	tubes: of vents, hood, gas
Box	2 pcs

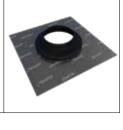
Riwega Srl is not responsible for negligent and improper use of its products $\rm *Larger$ sizes up to Ø 300 mm can be supplied on request

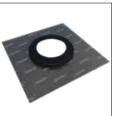














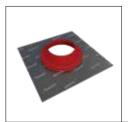
AIR Stop HOT

QUICK OVERVIEW: STRENGTHS

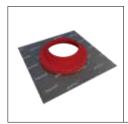
The first one which works up to 250°C

- Self-adhesive sealing collar
- Designed for waterproofing chimneys
- Multiple measures to adapt to pipes of all diameters
- Particularly resistant to UV rays and ageing
- Ideal for sealing against water, air, wind all breathable membranes and vapour barriers

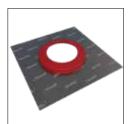




AIR Stop HOT FRGD100		
Code	02203530	
Internal diameter of the collar	100-125 mm	
Base dimension	350x350 mm	
Type of application stove chimneys		
Box 2 pcs		



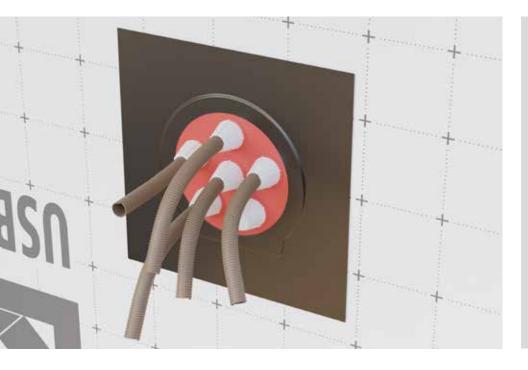
AIR Stop HOT FRGD150		
Code	02203531	
Internal diameter of the collar	150-165 mm	
Base dimension	350x350 mm	
Type of application	stove chimneys	
Βοχ	2 ncs	



AIR Stop HOT FRGD180

•		
Code	02203532	
Internal diameter of the collar	180-200 mm	
Base dimension	400x400 mm	
Type of application	stove chimneys	
Box	2 pcs	

AIR Stop M-TEC 6

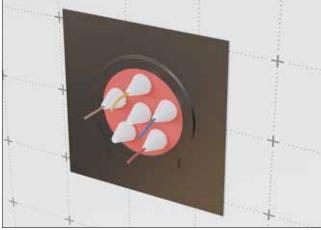


QUICK OVERVIEW: STRENGTHS

The sealing for the electric installations

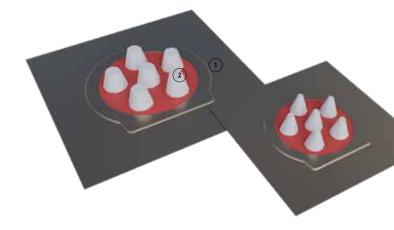
- Self-adhesive sealing collar
- Available in two variants, one for cables and one for corrugated pipes
- Designed for sealing up to six holes of different diameters
- Particularly resistant to UV rays and ageing
- Adheres perfectly to breathable membranes, vapour barriers and any laying surface



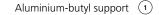


Technical data sheet

Material	rubber/alu/butyl
Number of inserts	6
Application M-TEC C	electrical tubes/satellite
Application M-TEC T	corrugated tubes
Working temperature	from +4°C
Temperature resistance	-20°C / +100°C
UV stability	stable
Storage place	dry, protected from UV rays
Storage period	max. 24 months



Composition:



Rubber 💿

Codes and measures

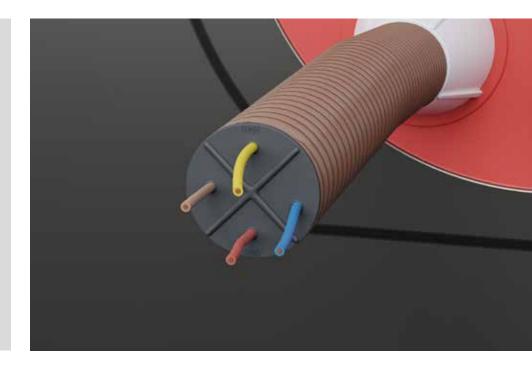
Version	Code	Measures (mm)	Diameters (mm)	Box (pc)
M-TEC C	02202310	230x230	4-11	4
M-TEC T	02202320	320x320	16-25	4

AIR Stopper

QUICK OVERVIEW: STRENGTHS

The end of corrugated tubes

- Sealing cap
- Equipped with three flaps that ensure impermeability to air and smoke passage
- Multiple measures to adapt to corrugated pipes of all diameters
- The elastic membrane is divided into several sections to separate the electrical circuits
- Particularly resistant to UV rays and ageing



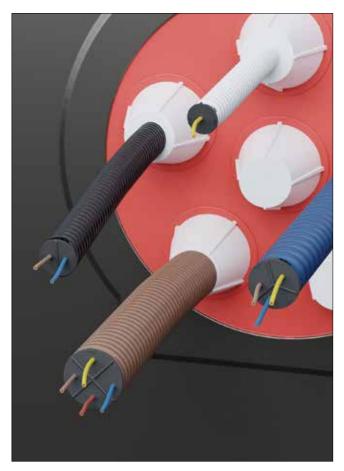


Composition:

1 Thermoplastic elastomer (TPE)

Codes and measures				
Version	Code	Tube type	Membranes	Box (pc)
AIR Stopper 16	02203616	5/8"-Pg 9-M16	1	20
AIR Stopper 20	02203620	3/4"-Pg 11-M20	1	20
AIR Stopper 25	02203625	Pg 16-M25	2	20
AIR Stopper 32	02203632	Pg 21-M32	3	20
AIR Stopper 40	02203640	Pg 36-M40	4	20





Accessories

Riwega accessories

These include liquid and fibrous polymers that can be applied by brush or roller as soon as other waterproofing products cannot be used for purely practical reasons. Or a range of primers and solvents that can be applied by brush, roller or spray. These increase the adhesion of adhesive tapes on difficult substrates such as damp, friable or dusty surfaces. Or, for example, waterproofing agents or solvents for the installation of special membranes.

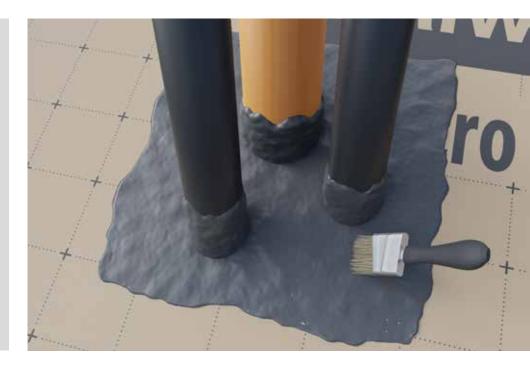
The range is completed by the installation equipment listed in section 3, such as applicators for foam or products in cartridges or bags, the complete range of accessories for the USB Weld AS system and the range of pressure rollers, which are indispensable for the installation of adhesive tapes: Because applying the right pressure to the newly laid adhesive tapes is essential to ensure complete and immediate adhesion of the adhesive to the often porous or irregular surface.

Tape Liquid

QUICK OVERVIEW: STRENGTHS

Universal sealant in a liquid version

- One-component liquid sealant; ready to use
- Solvent and plasticizer-free, adaptable to all types of surfaces
- Ideal to seal critical points in the construction
- Reinforced with fibres, no additional non-woven fabric is required



Features:





Codes and measures				
Version	Code	Content (kg)	Box (pc)	Pallet (box)
Tape Liquid	02040700	3,6	1	50

Technical data sheet		
Material	polyurethane prepolymer	
Consistency	fibre-reinforced thixotropic liquid	
Output (depending from surface)	~3 kg/m²	
Density	~1,27 g/cm ³	
Rain resistance	immediately after laying	
Vapour passage resistance µ	32000	
Formation of skin (~ 20°C/60% UR)	~1 h	
Working temperature	>0°C (<0°C without snow/ice)	
Storage place	dry, in the original can	
Storage period	max. 6 months	

ATTENTION: before laying, verify the compatibility of the substrate with the specific table, which can be downloaded from www.riwega.com Riwega Srl is not responsible for negligent and improper use of its products

Primer and solvents

Primer Spray

Code	02040603
Material	synthetic rubber
Content	500 ml
Output (depending from surface)	~30 - 70 m (con L=60 mm)
Working temperature	-10°C / +30°C
Temperature resistance	-20°C / +80°C
Storage	dry, in the original can, max. 12 months



Primer Liquid

02040600
synthetic rubber and organic solvent
500 ml
~150 - 250 ml/m ² (~3 m ²)
~150 mPa.s
+5°C / +30°C
dry, in the original can, max. 12 months



Primer Bitum

Code	02040601
Material	bitumen in water emulsion and additives
Content	51
Output (depending from surface)	~200 / 300 g/m ²
Density a 20°C	1,00 ± 0,01 kg/l
Working temperature	+5°C / +35°C
Storage	dry, in the original can, max. 12 months



Fire Zero Liquid (Fire Zero USB Accessories - page 52)

Code	02010342
Material	graphite water-based paint
Content	5 kg
Output	~5,6 kg/roll USB Fire Zero (~1,2 - 1,4 kg/m ²)
Massa volumica	1,22 ± 0,02 kg/l
Working temperature	+10°C / +35°C
Storage	dry, in the original can, max. 12 months



Accessories for USB Weld AS



Seal INT (hot or cold weldable internal corner)

Code	020103531
Material	TPU
Measurements (Width x Length x H)	150 x 150 x 220 mm
Resistance to water passage	W1
Fire reaction class	E
Cold weldability	with solvent THF Welding Liquid
Hot weldability	with hot air 200°C / 300°C

Seal EXT (hot or cold weldable external corner)

Code

new product



TPU
350 x 350 x 140 mm
W1
E
with solvent THF Welding Liquid
with hot air 200°C / 300°C

020103532

Seal DD (hot or cold weldable sealing collar)

020103530
TPU
min. 90 mm - max. 125 mm
250 mm
E
with solvent THF Welding Liquid
with hot air 200°C / 300°C



Bottle with brush	
Code	PLA13601
Compatibility	welding solvents
Material	soft plastic

THF Welding Liquid

	Code
	Materia
Billiona.	Conten
	Output
	Applica
	Working
En	Storage

02010352
tetrahydrofuran (THF)
11
~10 ml/m (1 can ~100 m)
bottle with brush (PLA13601)
recommended +18°C / +20°C (workable >10°C)
dry, in the original can, max. 12 months

Nastrator

Code	05RUL004
Compatibility	adhesive tape internal ø 75 mm
Material	plastic

Fast Gun

Code	05PIS005
Compatibility	standard cartridge ø 50 mm - 310 ml
Weight	800 g
Push force	450 kg
Peak torque	15 Nm
Maximum rotation speed	480 tr/min
Piston speed	1 mm/tr

Gun for Sil AC / Sil Butyl

Code	05PIS001
Compatibility	tubes of 600 ml
Material	metal / plastic

Gun for Elastic Foam / Glue DB								
Code	05PIS002							
Compatibility	bottles of 750 ml							
Material	metal / plastic							

Detergent for Elastic Foam

Code	05PIS003
Appearance	liquid (ref. base aerosol)
Colour	colourless
Relative density at 20°C	0,65 - 0,70 g/ml
Inflammation point	<0°C
Pressure at 20°C	4/6 bar
Storage	dry, in the original can, max. 24 months









Rollers

QUICK OVERVIEW: STRENGTHS

The indispensable for the correct installation of adhesive tapes

- Compression roll
- Necessary to ensure perfect adhesion of the tape to the laying surface
- Equipped with ergonomic handle
- Available in various types that can be used depending on the support





Rigid plastic roller	
Code	05RUL001
Width	5 cm
Use	application of tapes
Type of surface	smooth/rigid surfaces (rigid ins. panels, planking or wooden matchboard, smooth wooden panels, etc.)



Soft rubber roller								
Code	05RUL002							
Width	5 cm							
Use	application of tapes							
Type of surface	rough/irregular/soft surfaces (soft insulation panels, OSB panels, rough concrete surfaces etc.)							



Silicone roller

Sincome romen	
Code	PLA81202
Width	4 cm
Use	welding of synthetic membranes
Type of surface	flat and sloping roofs (rigid insulation, smooth wooden panels, osb panels, concrete surfaces, etc.)

Support compatibility sheet

Image: Second		Generic construction materials								Breathable memb					
Tape Rapid Image: I		Wood	OSB	Wood fibre	Gypsum or gypsum fibre board	Fibre-cement	Concrete/Briwckwork/Plaster	Polystyrene (EPS/XPS)	Mineral wool	Glass wool	Metal	Rigid plastic	Polypropylene surface	Polyester surface	Polyethylene surface
	Tape RapidTape ICETape ICETape UVTape CornerTape 1 PAPTape ReflexTape ReflexTape GreenTape 2 AC / Tape BOLDTape 2 BU / Tape 2 COColl FlexiColl FlexiColl 50 × 80 × 150Coll 50 - 80 × 150Coll Vies PlusColl VI Coll ALUColl VIes PlusColl SolarColl RadonSil ButylSil ButylSil ACGlue DBGAE BG1 / BG2 / TrioAIR Stop PDM / HOTAIR Stop EPDM / HOTAIR Stop M-TEC 6FDB INT / EXT (butylic)FDB INT / EXT (butylic)FDB Vario NETTape Liquid*Primer Spray / Primer Liquid	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000			0000000000000			000000000000000000000000000000000000000	000000000000000000000000000000000000000	$\odot \odot $	000000000000000000000000000000000000000	

Compatible product

Compatible product only if combined with Primer Spray / Primer Liquid

Compatible product only if combined with Primer Bitum

× Prouct absolutely NOT compatible

Compatbility to be verified during application

Breathable membranes and vapour control layers

Surface with spread coating Polyurethane surface Kraft paper surface Aluminium surface Bitumen surface \checkmark Ý Ý Ľ

*See "Support compatibility sheet" on www.riwega.com

Our Production

Solvent welding - laminating - glueing - cutting - printing - rewinding - confectioning.

Since the mid-90s, most of our employees and sales figures have been involved in the production and development of air, wind and waterproofing systems.

Solvent welding

Based on the knowledge gathered and evaluated during this time, the decision was made to build a production plant specially adapted to the requirements of the nonwovens and films used.

This system is now the heart of our production and is how most of our products are manufactured.

The technology of "solvent welding," which was revolutionary during the construction of the plant and is still revolutionary today, is a great indicator of the durability of our products. The "solvent welding" process joins the individual layers of the sarking and vapour control layers without any prior damage caused by temperature and pressure. By coating the functional membrane with a special PUR adhesive, the individual layers can move almost totally free of stress even with strong temperature changes, thus avoiding the tearing of the functional membrane that is so common with conventional products.

Laminating

A flatbed laminating machine is available for the application of adhesives, which is used to apply adhesives to laminates in roll form or powder form.

Printing

Most of the manufactured products are printed on a flexographic printing machine according to customer requirements. The selection and coordination of the right printing blocks are decisive for perfect printing quality. Printing is, of course, done with water-based inks.

Cutting, rewinding and confectioning

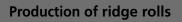
The rolls are finished on special roll winding machines, where the adhesive strips are also applied inline and the customerspecific roll insert is fed. The roll is then wrapped with a protective film. Further equipment for cutting and converting, specially built according to our requirements, is available. Here, cover liners can be slit, or film tapes can be produced with finger lift.

Quality assurance

All production processes are monitored and checked by the in-house quality assurance department. The close-meshed monitoring system guarantees maximum product quality and safety for the customer. Our laboratory is equipped with all the testing equipment necessary to produce CE-marked building products. Here, the goods are subjected to incoming and outgoing inspections, as well as complete production monitoring under the building product directive. With an annual audit, our production is checked by a certified institute as part of our voluntary production monitoring.





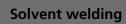












CULTIVATING NEW TECHNOLOGIES



The production of superior quality membranes

Riwega

European leader for the building envelope

(3therm

The perfect partner for the thermo-acoustic comfort

RoofRox

Line of products created for carpenters



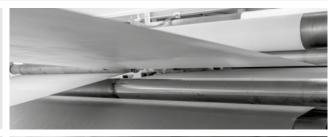
The austrian partner for over 40 years



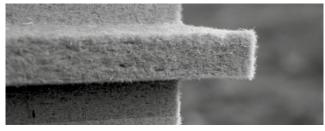
The reference point in Slovenia for over 10 years



The Swiss partner for permanent security systems

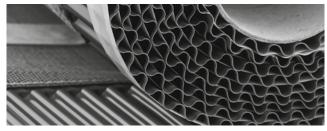














GENERAL SALES CONDITIONS

1. General

1.1 Regarding the general sales conditions, as follows is applied: Riwega Srl, with main office in I-39044 Egna (BZ), Via Isola di sopra 28, referred as the Seller.

1.2 Regarding the general sales conditions, as follows is applied: any company, who purchases products from Riwega Srl, referred as the Costumer.

1.3 Regarding the general sales conditions, as follows is applied: All articles & materials, commercialized by Riwega Srl, are referred as "Products".

2. Foreword

2.1 These general Sales Conditions are applyed on all sales from Riwega Srl and the customer. Excemptions to these general Sales Conditions are other written and signed agreements between the parties.

3. Characteristics of the Products - Updates and Modifications

3.1 Any information or datas relating to the technical features and/or specifications of the Products contained in this catalogue, our pricelists, and similar commercial documents, shall be binding.

3.2 The customer declares to be aware and accepts the given informations regarding the characteristics and technical features of the products contained in Riwega's catalogue, pricelists and similar commercial documents.

3.3 The Seller may apply anytime, any changes to the Products, without altering their essential features, if it appears to be necessary or suitable. Product modifications and/or new technical datas, will be constantly updated on the Riwega web site (Products pages). Any change on the web site will anytime, prevail over the datas in the catalogue, price list and other commercial documents.

4. How to place an order

4.1 Orders of Riwega's Products are to be communicated by written the Seller with the methods and terms indicated by Riwega Srl.

4.2 The above-mentioned orders are binding for the customer, after beeing accepted by Riwega Srl.

5. Terms of delivery – Transport costs

5.1 If the Seller suspects, that he will could be unable to deliver the Products at the expected delivery date, he must inform the Buyer about this within the shortest delay in written form: comunicating, as far as possible, the estimated date of delivery.

5.2 Any delay caused by major force (as defined in art. 11) or by acts or omissions of the Buyer (e.g. the lack of informations which are necessary for the delivery of the Products and eventually unpaid invoices), shall not be considered as a delay for which the Seller is responsible.

5.3 The Products must be delivered in full wrapping ad/or packing and not as unpacked loose pieces, and any order will be accepted exclusively regarding the quantities indicated in the catalogue, for reaching this purpose.

5.4 The delivery conditions and the delivery prices are indicated in Riwega's transport pricelist.

5.5 On arrival and consigne of the delivered Products, the Customer must send a signed and stamped copy of the transport document and/or bill of lading to the Seller (by fax or mail).

6. Prices

6.1 The Products are sold at the price indicated in the Riwega's pricelist whom are valid at the date of the order placement.

6.2 Unless otherwise agreed, the prices are to be considered Ex Work Riwega, the products are packaged according to the usages of the sector-standard and in relation to the standard-transport conditions. It is agreed, that any other cost of additional packaging, protecting or transport service to the sector-standard, shall be paid by the Customer.

7. Payment conditions

7.1 The payments must be made in \in , within the indicated terms on the invoice. If the parties have not determined the payment conditions beforehand (as defined in art. 7.5), the payment must be made as indicated under article 7.2.

7.2 If the parties have agreed on a payment by SWIFT or SEPA bank transfer, the payment must be made, unless otherwise specified by written, within 30 days from the invoice.

7.3 A payment is considered as valid, once the respective amount is at the Seller's disposal at its bank account, mentioned on the invoice.

7.4 If it is agreed that the payment must be backed by a bank guarantee, the Buyer must provide a Bank Guarantee at the Seller's disposal, at least 30 days before the date of delivery, issued by a primary italian bank in accordance with the ICC-Rules. The Bank Guarantee has to be redeemable / payable with a simple declaration by the Seller, that he has not received the payment within the agreed payment terms.

7.5 If the parties have agreed a payment in advance, without further indication, it will be assumed that such payment in advance, refers to the full price. Unless otherwise agreed, the payment in advance must be transferred to the Seller's account at least 5 days before the agreed date of delivery.

7.6 If the parties have agreed on payment against documents (documentary collection) payment will be, unless otherwise agreed, Documents Against Payment.

7.7 Unless otherwise agreed, any expenses or bank commissions and costs due regarding the payment operation shall be paid by the Buyer.

8. Retention of title

8.1 The delivered products will remain propriety of the Seller, until the complete payment of the invoice has been made.

8.2 The payment of the products through cheque or bill of exchange is not considered as completed, until the full amount of the invoice is arrived on the bank account of the Seller.

8.3 Since the products will remain property of the Seller until the full payment, the buyer can't yield them or bind them in whatever form and is responsible for their maintenance.

8.4 Until the payment of the material has not been carried out completely, it's Riwega's right to ask the immediate restitution, emphasizing that the money received until that date, will be kept as a default indemnity.

9. Goods return - claims

9.1 Unless otherwise agreed, the delivery of the products is always considered Ex Works, even if the transport is organized by the Seller.

9.2 The possible product-connected risks are transferred to the Customer whenever the products leave our stockyard.

9.3 Possible claims regarding the state of the boxaging, quantity, number and exterior characteristics of the products has to be written on the carier notice and on Riwega's transport document and must be communicated to the Seller by registered post within 3 days after goods receipt.

9.4 Possible claims for defects that can not be noticed at goods receipt (hidden defects) have to be communicated to the Seller, through registered post within 7 days within its discovery and not beyond 12 months after goods receipt.

9.5 Possible claims communicated through other methods different by the ones mentioned above will not be considered by the Seller; the Customer has not any right against this.9.6 It is agreed that possible claims do not give the right to the Customer to suspend or delay the payment of the delivered product's price.

10. Warranty for defects

10.1 The Seller agrees to repair or replace any defects, lack of quality or non-conformity of the Products for which he is liable, occurring within twelve months from delivery of the Products, only if such defects have been timely notified in accordance with art. 9.3.

The Seller will have the choice between repairing or replacing the Products which have shown to be defect. The Products repaired or replaced under warranty will be delivered to the same guarantee for a period of six months starting from the date of repair or replacement.

10.2 The Seller does not guarantee that the Products have special specifications or further technical features or that they are suitable for particular usages not indicated in the catalogue, except such requested characteristics have been expressly agreed upon in the contract or in other documents referred to that purpose in the Contract.

10.3 It is agreed that only for the specified products, Riwega's commercial warranty is applied for the related validity period and within the terms indicated in the product's technical documents.

11. Force majeure

11.1 Either party shall have the right to suspend performance of his contractual obligations when such performance becomes impossible or unduly burdensome because of unforeseeable events beyond his control, such as strikes, boycotts, lock-outs, fires, war (either declared or not), civil war, riots, revolutions, requisitions, embargo, energy black-outs, delay in delivery of components or raw materials.

11.2 The party who wishes to make use of the present clause must promptly inform the other party, in written form, about the occurrence and the approximately end of any force majeure circumstances. 11.3 Should the suspension due to force majeure last more than six weeks, either party shall have the right to terminate the Contract by a 10 days' written notice to the counterpart.

12. Jurisdiction /Arbitration

12.1 The parties agree that the current Italian regulations are applied to the sales contract.

13. Competent Court

13.1 For every disagreement during the execution or interpretation of the sales contract and of these sales conditions, the competent Court is the Court of Bolzano (Italy).



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