



TOP
WATERPROOFING

COPPER-ALUMINIUM MEMBRANE

ELASTOMERIC - BITUMINOUS MEMBRANE SBS

SELF-PROTECTED WITH COPPER OR ALUMINIUM METAL SHEET

Technical data sheet

REINFORCEMENT	NON WOVEN FIBERGLASS FABRIC
COMPOUND	BITUMEN – ELASTOMER BPE
FINISHING	COPPER: COPPER METAL SHEET; ALUMINIUM: ALUMINIUM METAL SHEET
APPLICATION METHOD	FLAME WELDING
<u>DESTINATION OF USE</u>	
COPPER - ALUMINIUM	EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER
FPC CODE	1370-CPD-0040



Description

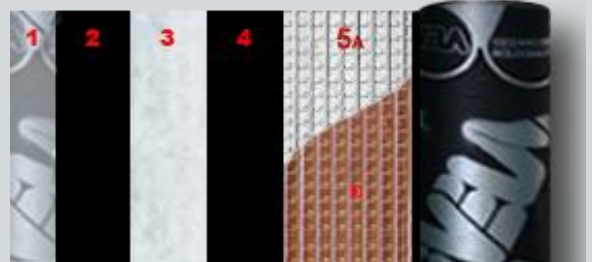
Glass fabric reinforced waterproofing membrane made up of a special compound based on distilled bitumen modified with elastomeric polymers (BPE), self-protected with copper or aluminium metal sheets with special embossing allowing free metal expansion. Surface finishing not only ensures good aesthetic appearance, but also reflects sunrays, thus protecting the membrane against atmospheric agents, highly reducing maintenance operations. It can be supplied with copper or aluminium sheets.

Fields of application

Suitable for waterproofing civil and industrial coverings requiring perfect adhesion of the waterproofing membrane and a better aesthetic finish.

Stratigraphy

1. Polypropylene film
2. Compound BPP
3. Non woven polyester fabric
4. Compound BPP
5. Finishing:
 - A. ALUMINIUM: ALUMINIUM METAL SHEET
 - B. COPPER: COPPER METAL SHEET





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Technical Features

Parameter	COPPER ALUMINIUM	Unit of measure	Tolerance	Regulations
VISIBLE DEFECTS	Exceeds	Visual	-	EN 1850-1
LENGTH	10	m	-1 %	EN 1848-1
WIDTH	1	m	-1 %	EN 1848-1
STRAIGHTNESS	10	mm	-	EN 1848-1
MASS PER UNIT AREA	4,0	Kg/m ²	- 10 %	EN 1849-1
THICKNESS	NPD	mm	-	EN 1849-1
WATERTIGHTNESS	Exceeds > 60	kPa	-	EN 1928:2000
WATERTIGHTNESS AFTER STRETCHING	NPD	%	-	EN 13897
EXTERNAL FIRE PERFORMANCE	F ROOF	-	-	EN 13501-5
REACTION TO FIRE	F	Classe	-	EN 13501-1
TENSILE PROPERTIES MAXIMUM LOAD AT BREAK				
Longitudinal	650	N/50 mm	- 20 %	EN 12311-1
Transversal	550		- 20 %	
ELONGATION AT BREAK				
Longitudinal	3	%	- 15 in ass.	EN 12311-1
Transversal	3		- 15 in ass.	
RESISTANCE TO TEARING (method B)				
Longitudinal	150	N	- 30 %	EN 12310-1
Transversal	150		- 30 %	
RESISTANCE TO DYNAMIC LOADING	NPD	mm	≥	EN 12691
RESISTANCE TO STATING LOADING	NPD	Kg	≥	EN 12730-1
COLD FLEXIBILITY	-25	°C	≤	EN 1109
FLOW RESISTANCE AT ELEVATED TEMPERATURE	100	°C	≥	EN 1110
COLD FLEXIBILITY AFTER AGEING	-20	°C	+15°C	EN 1269 EN 1109
FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE	2	mm	-	EN 1108
ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	NPD	ΔT °C	-	EN 1296
ADHESION OF GRANULES	-	%	- 5 in ass.	EN 12039
WATER VAPOUR PROPERTIES	20000	μ	-	EN 1931
RESISTANCE TO ROOTS	NPD	-	-	EN 13948
PEEL RESISTANCE	NPD	N/50 mm	-	EN 12316-1
SHEAR RESISTANCE	NPD	N/50 mm	-	EN 12317-1

Note: NPD = No Performance Declared according to the EU Directive on Construction Products

It is impossible to ensure uniformity of color of slated products, because the only slate manufacturer makes no warranty about. All self-protected products with slate chippings undergo color changes over time as a function of exposure to atmospheric agents. These color variations tend to conform gradually.
AVAILABLE COLOURS OF SLATE: Natural Gray (Standard), Red, Green, White



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Packaging

PRODUCT	THICKNESS (mm)	WEIGHT (Kg/m ²)	ROLL DIMENSIONS (m)
ALUMINIUM	-	4,0	1x10
COPPER	-	4,0	1X10

Rolls packed on wooden pallets, wrapped with polyethylene heat-shrinkable caps.

Warnings

Store vertically, protecting them from atmospheric agents and from too high or too rigid temperatures.

Avoid overlapping rolls and pallets.

The contact with solvents and organic fluids can damage the product.

The application surface should be smooth, dry and clean.

The application surface must be previously treated with a suitable bituminous primer, VELQUA, VELABASE or VELAFONDO GRIPERM to eliminate dust and enhance the adhesion of the membrane. The application surface must not have depressions, to avoid stagnation of rain water and must have a sufficient slope to ensure the smooth flow of precipitation (min 1.5%). In the case of applications in vertical development exceeding 2 m or media in strong slope surfaces apply suitable mechanical fasteners in the head of the cloth, then sealed with the junction of the head.

Apply the product at temperature higher than +5°C.

The installation should be discontinued in case of adverse weather conditions (high humidity, rain, etc.).

The above-mentioned values can be subject to update or change. IIVELA S.r.l. reserves the right to modify them at any time without prior notice. For a correct use of our products, see technical specifications. For further information or any special use, please contact our technical department. Any suggestions or technical information provided represent our best knowledge regarding product characteristics and use. Considering different applications and any possible interference of elements beyond our control, the buyer must declare under his own responsibility that the product is suitable for the intended use.