

## WONDERBUILDS SA VB 600

### *Extremely resistant vapour barrier self adhesive membrane*

#### DESCRIPTION

The WONDERBUILDS SA VB 600 is a self-adhesive vapour barrier, cold applied. This product has been specifically developed for use on profile steel sheets. It has superior tensile strength and can therefore be stepped on. In addition to the vapour barrier function, at the same time, it is an hermetic layer in line with energy saving regulations. WONDERBUILDS SA VB 600 can be applied on surfaces exposed to high levels of stress to humidity, such as in breweries, swimming pools, sports halls, kitchens or bathrooms. WONDERBUILDS SA VB 600 membrane is fast to install, selfadhesive and extremely resistant. It consist of an aluminum material reinforced with a self-adhesive and detachable back side release film. When choosing the method of fixing the insulation of the roof system, applied on top of the WONDERBUILDS SA VB 600, the following factors must be considered:

- type of insulation (characteristics of stability, compression, etc..),
- compatibility between the fixing, the insulation and the waterproofing membrane,
- the factor of possible wind uplift,
- the type of substrate.

Where application with mechanical fixing is required of the panels, these must be applied side by side making sure that they are also staggered and properly fixed to the WONDERBUILDS SA VB 600 with suitable fixings to the type of substrate and of the correct length based on the thickness, these should be at least 10 cm from the edges and along the diagonals. The total resistance of the fixing elements of the panel, to wind uplift (Wh), should in any case be superior to  $\geq 400$  N per fixing. For the application of the insulation it is suggested to follow the indications of the manufacturer and eventual indications in the specification.

#### FIELDS OF USE

#### VAPOUR BARRIER EN13970

	N. LAYERS			METHODS OF APPLICATION						TYPE OF APPLICATION			TYPE				
	SINGLE LAYER	DOUBLE LAYER	MULTILAYER	TORCH	HOT AIR	MIXED (TORCH/AIR)	COLD BOND GLUE	MECHANICAL FIXINGS	THERMO AD / SELF ADHESIVE	FULLY BONDED	PARTIALLY BONDED	LOOSE LAID	COMPLIMENTARY LAYER	TOP LAYER	HEAVY PROTECTION	ANTI-ROOT	OTHER USES
WONDERBUILDS SA VB 600 0,6 MM	●	●	●						●	●			●				



## APPLICATION

- Apply, by roller or airless, SA Primer, coverage rate per litre 4 - 8m<sup>2</sup>
- Position the WONDERBUILDS SA VB 600 on the application surface; provide side & head laps respectively of 10 & 15 cm's between the sheets.
- Remove the release film from the lower face, this is divided longitudinally in two sections, in one or two steps, making sure to also remove the side selvage of the upper surface. It is always suggested to mechanically fix head & side laps.
- Use suitable roller by applying pressure over all of the membrane surface, particularly the side & head laps to further promote adhesion.
- Position the thermal insulation with the methods in the technical specifications (glues or mechanical fixing, etc.).

## RECOMMENDATIONS

- The WONDERBUILDS SA VB 600 membranes are to be applied on dry clean surfaces which must be treated with a synthetic primer, excluded are wooden roofs except OSB boards.
- Self-adhesive membranes must not be applied on sanded or talced underlays. The granulometry of these upper surfaces creates a detaching effect that prevents the self-adhering properties from achieving a fully bonded installation.
- The side & head laps must be respectively of 10 & 15 cm's.
- When applying on verticals, the apex of the membrane must be mechanically fixed with a proper flashing; where possible it is advisable to go up and over the vertical and on to the horizontal surface.
- Do not apply the WONDERBUILDS SA VB 600 membrane in cold and damp weather; both the membrane and application surface temperatures must be superior to +15°C.
- Avoid storing the product on the roof with temperatures lower than +10°C or higher than +40°C if not for the time necessary for installation.
- With temperatures below +10°C it is necessary to apply the product using particular precautions:
  1. Store the rolls in an upright position in the original packaging, indoors and in dry and warm areas.
  2. Transport the rolls to the place of application only at the time of use.
  3. The ideal application occurs at temperatures above +10°C, however it is possible to apply the product below +5°C bringing the rolls to the ideal temperature with a leister or gas torch.
- The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least 1.5% on concrete decks and 3% for steel or wooden ones, this to guarantee a proper run off of rainwater.
- Program periodical roof inspections to remove debris, mud, plants, etc. and to keep under control the waterproofing as well as accessory details (drain outlets, TV antennas, air conditioning, etc.).
- In the eventuality in which the element to be waterproofed presents residual humidity (ex. refurbishment, application after heavy rains) it is necessary to foresee the use of air vents, which will be positioned in a way to allow for the evacuation of the humidity.
- Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- For further information it is recommended to consult our Installation Manual.

Technical data	Measure units	Reference norm		Tolerance
Upper face finish			Reinforced Aluminium	
Lower face finish			Silicon release film	
Length	m	DIN EN 1848-1	40 -1%	
Width	m	DIN EN 1848-1	1 -1%	
Thickness	mm	DIN EN 1849-2	0,6	±5%
Weight	g/m <sup>2</sup>	DIN EN 1849-2	700	±10%
Cold flexibility	°C	DIN EN 495-5	-25	
Flow resistance	°C	EN 1110	NPD	
Shear resistance	N/5 cm	DIN EN 12317-2	700 / 700	±20%
Tensile strength L/T	N/5 cm	EN 12311-2	800 / 800	±20%
Elongation at break L/T	%	EN 12311-1	10 / 10	±15
Tearing resistance L/T	N	EN 12310-1	250 / 250	±30%
Impact load procedures A and B	mm	DIN EN 12691	100 and 1000	
Resistance to static load procedures A and B	kg	DIN EN 12730	15 and 15	
Fire reaction		EN 13501-1	E	
Fire resistance		EN 13501-5	F ROOF	
Watertightness		DIN EN 1928	60	
Steam permeability SD value	μ	DIN EN 1931	1500000	
Visible defects		DIN EN 1850-1	None	
Stability under chemical attack		DIN EN 1847/1928	Passed	
Stability under artificial ageing		DIN EN 1296	Passed	
Heating value		DIN 51900-1	No requirement	
FM approval		FM STANDARD CLASS No. 4470	No requirement	

Sizes & packing	
Rolls size (m)	40 x 1
Rolls per pallet	20
Square meters per pallet	800