

Data Sheet

Guardian Torch on Tanking Membrane

Description

Techno Guardian is a highly puncture resistant bitumen polymer torch applied tanking membrane combining the best characteristics of a waterproofing layer, bonding for insulation, drainage and built in protection properties.

This unique combination of characteristics is made possible because of the dimples on the upperside of the membrane. These dimples aid drainage, and provide adhesion points for insulation or protection board where required.

Techno Guardian can be used on horizontal or vertical surfaces.

Application

Techno Guardian should be fully bonded by propane torch application to a pre-primed surface (Solvent based bitumen primer is available for this purpose) Rolls should be overlapped along the length using the self edge.

To achieve an effective seal on the end laps, a 20cm wide bonding strip of Sappi 4kg APP sanded torch on should be bonded to the substrate and the techno guardian butt joined over the centre of the bonding strip. (see diagram)

Should it be required, the dimples on the membrane can be melted with a moderate torching action and insulation or protection board can then be adhered to them.

Technical Data

Characteristics	EN DRC	Unit	Value	Tolerance
Visible Defects	EN 1850-1	-	Pass	-
Areic Mass	EN 1849-1	kg/m	5.0	-10%
Width and Length	EN 1848-1	m	1.0W, 7.50L	-1%
Straightness	EN 1848-1	mm	max 15	Pass
Max Tensile Force L_T	EN 12311-1	N/5cm	750L, 550T	-20%
Elongation L_T	EN 12311-1	%	40L, 40T	
Tear Resistance L_T	EN 12311-1	N/5cm	150L,150T	-30%
Static Loading Resistance	EN 12730-A	kg	15	Pass
Dynamic Loading Resistance	EN 12691	mm	800	Pass
Flexibility	EN 1109	°C	-10	Pass
Water Resistance	EN 1928	kPa	60	Pass
Water Vapour Permeability (new)	EN 1296	u x 1.000	-	-
Temperature Stability L_T	EN 1110	°C	120	Pass
Dimensional Stability L_T	EN 1107-1	%	-0.25L, -0.15T	Pass
External Fire Performance	EN 13501-5	class	F	-
Reaction to Fire	EN 13505-1	class	F	-

Field of Application

Tanking membranes for foundations and walls. CE marked to EN 13969

Technical Information

Techno guardian is an Elastoplastomeric polymer bitumen membrane (BBP) compound in distilled bitumen with high molecular weight polymer, reinforced with non woven spunbond polyester fabric and stabilised with glass. The surface is enhanced with a pattern of elliptical dimples covered with a thermofusible PE film.

