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Bitumen Waterproofing Single Ply Waterproofing

Technical Data Sheet

FORCE SA

Self Adhesive Membranes, Air & Vapour Control Layer (AVCL), Base & Underlayer

1.	Description	Force SA is a self-adhesive, glass-fibre reinforced SBS elastomeric modified bitumen waterproofing membrane. The under surface is covered with a peel-off film. The under surface and sidelap are self-adhesive. The width of the side lap is 7cm.
2.	Use	A base or underlayer used as part of a multi-layer waterproofing system. Can also be used as an air and vapour control layer (AVCL) low permeability membrane to control the movement of air, water vapour and heat leakage from within the building. The choice of AVCL will depend on the degree of air and vapour pressure produced, the specified roof deck/slab and the need for a robust temporary waterproofing layer.
		Force SA is suitable for use in bitumen and single ply warm roof waterproofing systems.
3.	Application method	Installed fully bonded, with fully sealed joints, using self-adhesive/hot air techniques to form a continuous layer. The peel-off film must be removed before installing the Force SA on to the deck or thermal insulation.
4.	Storage	Rolls to be stored upright and away from heat.
5.	Composition	(Indicative). See below.

Reinforcement (g/m²)	Glass fibre	50
Binder (g/m²)	SBS elastomer	2,200
Surface finish (g/m²)	Macroperforated film + sand	100
Under surface finish (g/m²)	Peel-off silicone film	40

Characteristics			Standard	Units	Value	Tolerance	
						Min	Max
	Length		EN 1848-1	m	16	-1%	
Dimensions	Width			m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight			kg	40		
	Thickness (on finis	shed product)	EN 1849-1	mm	2.00	1.80	2.20
Visible defects	New product		EN 1850-1	-	None		
	After ageing to EN 1297			-	NA		
Adhesion of granules			EN 12039	%	NA	-	-
Resistance to	Longitudinal		EN 12310-1	N	NA	-	-
tearing (nail shank)	Cross direction				NA	-	-
Tensile properties: maximum tensile	Longitudinal		EN 12311-1	N/50mm	250	200	
force	Cross direction				150	120	
Tensile properties:	Longitudinal		EN 12311-1	%	3	2	
elongation	Cross direction				3	2	
	Maximum force	Selvedge	EN 12316-1	N/50mm	NA	-	-
Peel resistance		End joint			NA	-	-
of joint	Average force	Selvedge			NA	-	-
		End joint			NA	-	-
Shear resistance	Maximum force —	Selvedge	EN 12317-1	N/50mm	NA	-	-
of joint		End joint			NA	-	-
Flexibility at low	Surface		EN 1109	°C	-16	≤	
temperature	Under surface				-16	≤	

Characteristics	Standard	Units	Value	Tolerance		
				Min	Max	
Flow resistance at elevated	New product	EN 1110	°C	100	≥	
temperature	After ageing to EN 1296			NA		
Resistance to impact		EN 12691	mm	NA	≤	
Resistance to static loading		EN 12730 (A)	kg	NA	≥	
Dimensional stability		EN 1107-1	%	0.1	≤	
Form stability under c	EN 1108	%	NA			
Water vapour transmission	New product	EN 1931	-	µ=20000		
properties	After ageing to EN 1296		-	NA		
Watertightness	New product	EN 1928	-	Pass	at 10kPa	
waterugniness	After ageing to EN 1296		-	NA	al IUNFa	1
Watertightness after s	EN 13897	%	NA			
Reaction to fire	EN 13501-1	-	NPD			
Resistance to root penetration		EN 13948	-	NA		

NA=Not applicable due to use of product. NPD=No Performance Determined.

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