

Technical Data Sheet

HYRANGER SPOT S3V

Description	HYRANGER SPOT S3V 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 side lap are self-adhesive. The width of the side lap is 8cm.
Use	Self-adhesive/heat activated base layer in warm roof multilayer torch-on waterproofing system. Suitable as base layer in a two-layer system on plastic thermal insulation, on refurbishment/new build works and on all roof slabs/decks with a slope less than 20%.
Application method	Fully adhered, with fully sealed joints, by self-adhesive/hot air fastening technique.
Storage	Rolls to be stored upright and away from heat.
Composition	(indicative)

Reinforcement (g/m²) :	Glass-fibre	200
Binder (g/m²) :	SBS elastomer	3,580
Surface finish (g/m²) :	Macro perforated film + sand	100
Under surface finish (g/m²) :	Peel-off silicone film	40

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	10	0%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight		kg	38.8			
	Thickness (on finished product)	EN 1849-1	mm	3.00	2.85	3.20	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	NA	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	NA	-	-	
	Cross direction			NA	-	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50 mm	1120	960	1280	
	Cross direction			1280	1000	1560	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	15	11	19	
	Cross direction			15	10	20	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
	Average force			Selvage	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	-16	≤		
	Under surface			-16	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥		
	After ageing to EN 1296			NA	-	-	
Resistance to impact		EN 12691	mm	1500	≤		
Resistance to static loading		EN 12730 (A)	kg	20	≥		
Dimensional stability		EN 1107-1	%	0.1	≤		
Form stability under cyclic temperature change		EN 1108	%	NA			

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Water vapour transmission properties	New product	EN 1931	-	μ=20000		
	After ageing to EN 1296		-	NA		
Watertightness	New product	EN 1928	-	Pass	<10 kPa	
	After ageing to EN 1296		-	NA		
Watertightness after stretching at low temperature		EN 13897	%	NA		
Reaction to fire		EN 13501-1	-	PND		
Resistance to root penetration		EN 13948	-	NA		
Dangerous substances consult: http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm		-	-	None		

NA=not applicable due to use of product. PND=performance not determined.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.