





1.	Description	Hyranger TS is a glass-fibre reinforced SBS elastomeric modified bitumen waterproofing membrane. Minimum side lap width is 6cm shown by a white line. A second white line 16cm from the edge allows the material to be identified after installation.
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.
		Suitable for use in bitumen and single ply warm roof waterproofing systems.
3.	Application method Installed fully bonded, with fully sealed joints, using torch-on technique a continuous layer.	
4.	Storage	Rolls to be stored upright and away from heat.
5.	Composition	(Indicative).

Reinforcement (g/m²)	Glass fibre	50
Binder (g/m²)	SBS elastomer	3,200
Surface finish (g/m²)	Macroperforated film + sand	100
Under surface finish (g/m²)	Thermofusible film	10

Characteristics			Standard	Units	Value	Tolerance	
					Min	Max	
	Length			m	7	-1%	
Dimensions	Width		EN 1848-1	m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight			kg	25 (7m)		
	Thickness (on finished product)		EN 1849-1	mm	2.65	±5%	
Visible defects	New product		EN 1850-1	-	None		
visible delects	After ageing to EN 1297			-	NA		
Adhesion of granules	Adhesion of granules			%	NA	-	-
Resistance to	Longitudinal		EN 12310-1	N			
tearing (nail shank)	Cross direction		EN 12310-1	IN			
Tensile properties: maximum tensile	Longitudinal		EN 12311-1	N/50mm	250	155	
force	Cross direction				250	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	-15	≤	
temperature	Under surface				-15	≤	

Characteristics	Characteristics		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	Resistance to impact		mm	400	≤	
Resistance to static lo	Resistance to static loading		kg	NPD	≥	
Dimensional stability	Dimensional stability		%	0.1	≤	
Form stability under c	Form stability under cyclic temperature change		%	NA		
Water vapour transmission	New product	EN 1931	m	240	≥	
properties	After ageing to EN 1296		m	240	≥	
Watertightness	New product	EN 1928	-	Pass	at 10kPa	
waterugniness	After ageing to EN 1296		-	NA	al TUKFA	ı
Watertightness after s	Watertightness after stretching at low temperature		%	NA		
Reaction to fire		EN 13501-1	-	NPD		
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.

NPD=No Performance Determined.

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