

# Technical Data Sheet

## HYRANGER 40 PY FP

<b>1. Description</b>	Hyranger 40 PY FP is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. Its surface is finished with coloured mineral chippings and its under surface with thermofusible film. Minimum selvedge width is 8cm..
<b>2. Use</b>	Capsheet for use in warm roof multilayer Hyranger waterproofing systems for flat roofs.
<b>3. Application Method</b>	Installed fully bonded, with fully sealed joints, using torch-on technique, to form continuous layer.
<b>4. Storage</b>	Rolls to be stored upright and away from heat.
<b>5. Composition</b>	(Indicative). See below.

<b>Reinforcement (g/m<sup>2</sup>) :</b>	Stabilised polyester	180
<b>Binder (g/m<sup>2</sup>) :</b>	SBS elastomer	3,000
<b>Surface finish (g/m<sup>2</sup>) :</b>	Mineral slates	1,000
<b>Under surface finish (g/m<sup>2</sup>) :</b>	Thermofusible film	10

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	5 or 10	-1%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight	EN 1849-1	kg	45 (10m); 22 (5m)			
	Thickness (on finished product)		mm	3.5	3.30	3.70	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	15	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	NA	-	-	
	Cross direction			NA	-	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	800	500	900	
	Cross direction			800	500	750	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	45	25	60	
	Cross direction			45	25	60	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvedge	NA	-	-
				End joint	NA	-	-
	Average force			Selvedge	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvedge	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	-15	≤		
	Under surface			-15	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥		
	After ageing to EN 1296			90	-	-	
Resistance to impact		EN 12691	mm	NA	≤		
Resistance to static loading		EN 12730 (A)	kg	NA	≥		
Dimensional stability		EN 1107-1	%	0.5	≤		
Form stability under cyclic temperature change		EN 1108	%	NA			

Water vapour transmission properties	New product	EN 1931	-	$\mu=20000$	
	After ageing to EN 1296		-	NA	
Watertightness	New product	EN 1928	-	Pass	<10kPa
	After ageing to EN 1296		-	NA	
Watertightness after stretching at low temperature		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.

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

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