

PRODUCT DATA SHEET

n° of certification organisation: 0679
Year mark was 1st fixed : 2006

HYRENE (HYRANGER) 40

Technical ref:
▶ AT HYRANGER TS

DESCRIPTION

HYRANGER 40 is a glass-fibre reinforced SBS elastomeric modified bituminous waterproofing membrane. Its surface is finished with coloured mineral chippings or ceramic granules. Minimum selvedge width is 6cm.

USE

Cap sheet for use in the HYRANGER TS multi-layer waterproofing system for inaccessible flat roofs.

APPLICATION METHOD

Torched.

STORAGE

Rolls to be stored upright and away from heat.

COMPOSITION (indicative)

Reinforcement (gm/m ²) :	Glass-fibre	50
Binder (gm/m ²) :	SBS elastomer	2,300
Surface finish (gm/m ²) :	Mineral slates or granules	1,000 1,200
Under surface finish (gm/m ²) :	Sand	300

CHARACTERISTICS

	STANDARD(BS)	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	10	-1%		
		Width	1	-1%		
		Straightness	Pass			
		Nominal roll weight	43.9			
	EN 1849-1	Thickness (selvedge)	2.85	2.70	3.00	
		Visible defects	New product	-	None	
	EN 1850-1	After ageing to EN 1297	-	NA		
Adhesion of granules	EN 12039	%	15	0	30	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NA	-	-	
		Cross direction	NA	-	-	
Tensile properties : maximum tensile force	EN 12311-1	Longitudinal	250	200	500	
		Cross direction	150	120	280	
Tensile properties : elongation	EN 12311-1	Longitudinal	3	2	4	
		Cross direction	3	2	4	
Peel resistance of joint	EN 12316-1	Maximum force	Selvedge	NA	-	-
			End joint	NA	-	-
		Average force	Selvedge	NA	-	-
			End joint	NA	-	-
Shear resistance of joint	EN 12317-1	Maximum force	Selvedge	NA	-	-
			End joint	NA	-	-
Flexibility at low temperature	EN 1109	Surface	-16	≤		
		Under surface	-16	≤		
Flow resistance at elevated temperature	EN 1110	New product	100	≥		
		After ageing to EN 1296	110	100	120	
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 cyclic temperature change	EN 1108	%	NA			
Water vapour transmission properties	EN 1931	New product	-	μ=20000		
		After ageing to EN 1296	-	NA		
Watertightness	EN 1928	New product	-	Pass	<10 kPa	
		After ageing to EN 1296	-	NA		
Watertightness after stretching at low temperature	EN 13897	%	NA			
Reaction to fire	EN 13501-1	-	F			
Resistance to root penetration	EN 13948	-	NA			
Dangerous substances consult :	-	-	None			

http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm
NA=not applicable due to use of product.

The manufacturer reserves the right to modify, at any time, the characteristics of its products.