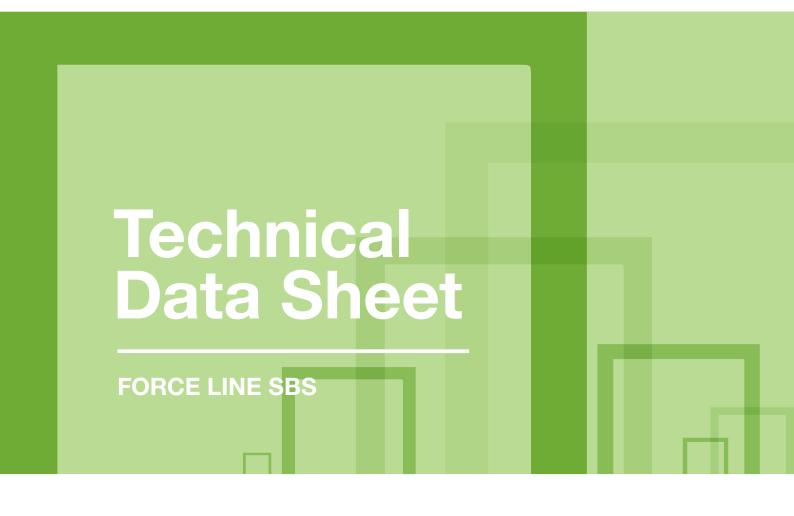


## **Bitumen Waterproofing**



1.	Description	Force Line SBS Capsheet is a stabilised polyester reinforced elastomeric SBS modified bitumen membrane. Its surface is finished with charcoal mineral chippings. The minimum selvedge width is 6cm.
2.	Use	Capsheet in a warm roof single or multilayer roof waterproofing system on inaccessible roofs, with no added protection.
3.	Application Method	Fully bonded, with fully sealed joints, using torch-on technique to form continuous layer.
4.	Storage	Rolls to be stored upright and away from heat.
5.	Composition	(Indicative). See below.

Reinforcement (g/m²) :	Stabilised polyester	120
Binder (g/m²) :	SBS elastomer	3,000
Surface finish (g/m²) :	Mineral slates	1000
Under surface finish (g/m²) :	Thermofusible film	10

Characteristics			Standards (BS)	Units	Value	Tolerance	
						Min	Max
	Length			m	8	-1%	
Dimensions	Width		EN 1848-1	m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight		EN 1849-1	kg	35		
	Thickness (on finished product)			mm	3.5	3.3	3.7
	New product		EN 1850-1	-	None		
Visible defects	After ageing to EN 1297			-	NA		
Adhesion of granules			EN 12039	%	15	-	-
Resistance to	Longitudinal  Cross direction		EN 12310-1	N	NA	-	-
tearing (nail shank)					NA	-	-
Tensile properties:	Longitudinal		EN 12311-1	N/50mm	450	320	500
maximum tensile force	Cross direction				300	250	300
Tensile properties:	Longitudinal  Cross direction		EN 12311-1	%	30	10	50
elongation					30	10	50
	Maximum force	Selvedge	EN 12316-1	N/50mm	NA	-	-
Peel resistance of		End joint			NA	-	-
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	-10	≤	
temperature	Under surface				-10	≤	
Flow resistance at elevated	New product		EN 1110	°C	100	≥	
temperature	After ageing to EN 1296				100	90	110
Resistance to impact			EN 12691	mm	600	≥	
Resistance to static loading			EN 12730 (A)	kg	10	≥	
Dimensional stability			EN 1107-1	%	0.3	≤	
Form stability under cyclic temperature change			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	<10kPa
waterugntness	After ageing to EN 1296		-	NA	< TURFA
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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