Technical Data Sheet

FORCE LINE SBS

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

Ref: 1500421
V1 30/09/2024

Characteristics			Standards (BS)	Units	Value	Tolerance	
						Min	Max
Dimensions	Length		EN 1848-1	m	8	-1%	
	Width			m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight		EN 1849-1	kg	35		
	Thickness (on finished product)			mm	3.5	3.3	3.7
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	450	320	500
	Cross direction				300	250	300
Tensile properties: elongation	Longitudinal		EN 12311-1	%	30	10	50
	Cross direction				30	10	50
Peel resistance of joint	Maximum force	Selvedge	EN 12316-1	N/50mm	NA	-	-
		End joint			NA	-	-
	Average force	Selvedge			NA	-	-
		End joint			NA	-	-
Shear resistance of joint	Maximum force	Selvedge	EN 12317-1	N/50mm	NA	-	-
		End joint			NA	-	-
Flexibility at low temperature	Surface		EN 1109	°C	-10	≤	
	Under surface				-10	≤	
Flow resistance at elevated temperature	New product		EN 1110	°C	100	≥	
	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 properties	**New product**	EN 1931	-	μ=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.

Axter Ltd reserves the right to modify and update this data at any time without prior notice. Only the latest version of this document is valid, available for download at www.axter.co.uk/downloads. Once downloaded, documents are uncontrolled. Users should always confirm they are referring to the latest version prior to use. Further assistance is available from Axter Ltd's Technical Support Team, email: technical@axterltd.co.uk, telephone: 01473 935008.

The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. Axter Ltd accepts no liability for non-compliant use of this product.