



1.	Description	Force Line 4.0 is a self-protected, polyester reinforced elastomeric bitumen waterproofing membrane, with a surface finish of coloured mineral chippings. The minimum selvedge width is 6cm.
2.	Use	Capsheet in a single or multi-layer roof waterproofing system.
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).

Reinforcement (g/m²)	Stabilised polyester	150
Binder (g/m²)	SBS Elastomer	3,200
Surface finish (g/m²)	Mineral slates	1,000
Under surface finish (g/m²)	Thermofusible film	10

Length m 8 -1%	Max 4.00
Dimensions Width EN 1848-1 m 1 -1%	4.00
Straightness	4.00
Nominal roll weight kg 40 Thickness (on finished product) EN 1849-1 mm 3.80 3.60 New product - None	4.00
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Visible defects EN 1650-1	
After ageing to EN 1297 - NA	
Adhesion of granules EN 12039 % 15 0	30
Resistance to Longitudinal EN 12310-1 N	-
tearing (nail shank) Cross direction NA -	-
Tensile properties: Longitudinal 450 350 maximum tensile EN 12311-1 N/50mm	500
maximum tensile force Cross direction EN 12311-1 N/50mm 350 250	300
Tensile properties: Longitudinal 30 10	30
elongation EN 12311-1 % Cross direction 30 10	40
Selvedge NA -	-
Peel resistance End joint NA -	-
of joint Selvedge EN 12316-1 N/50mm NA -	-
Average force End joint NA -	-
Shear resistance Selvedge 270 250	290
of joint Maximum force EN 12317-1 N/50mm	500
Flexibility at low Surface -10 ≤	
temperature EN 1109 °C -10 ≤	
Flow resistance New product 100 ≥	
at elevated temperature After ageing to EN 1296 EN 1110 °C 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	

Characteristics		Standards (BS)	Units	Value	Tolerance Min Max
Water vapour	New product	EN 1931	-	μ=20000	
transmission properties	After ageing to EN 1296		-	NA	
Matautialitus	New product	EN 1928	-	Pass	at 10kPa
Watertightness	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.

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