

Technical Data Sheet

FORCE 4000 TRAFIC

1. Description	Force 4000 TRAFIC is a stabilised polyester reinforced, SBS elastomeric modified bitumen waterproofing membrane treated with anti-root additive. Its surface is finished with Natural Slate mineral granules; it is finished on its under surface with a thermofusible film. Minimum selvedge width is 80mm.
2. Use	Cap sheet in warm roof, multilayer bitumen membrane waterproofing systems for living roofs or underground structures. It can also be used as a top layer with added bitumen based protection (mastic asphalt/macadam) to waterproof terraces with vehicular access.
3. Application Method	Fully bonded, with fully sealed joints, using torch-on technique to form a continuous layer.
4. Storage	Rolls to be stored upright and away from heat.
5. Composition	(Indicative). See below.

Reinforcement (g/m²) :	Stabilised polyester	250
Binder (g/m²) :	Anti-root SBS elastomer	3,300
Surface finish (g/m²) :	Mineral granules	1200
Under surface finish (g/m²) :	Thermofusible film	10

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	5 or 8	-1%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight	EN 1849-1	kg	25 (5m) 41 (8m)	20.5	23.3	
	Thickness (on finished product)		mm	4	2.50	2.80	
Visible defects	New product	EN 1850-1	-	NA			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	NA	-	-	
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	NA	800	900	
	Cross direction			NA	800	900	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	NA	25	50	
	Cross direction			NA	30	50	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
	Average force			Selvage	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	NA	≤		
	Under surface			-15	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥		
	After ageing to EN 1296			NA	-	-	
Resistance to impact		EN 12691	mm	1000	≥		
Resistance to static loading		EN 12730 (A)	kg	20	≥		
Dimensional stability		EN 1107-1	%	NA	≤		
Form stability under cyclic temperature change		EN 1108	%	NA			

Water vapour transmission properties	New product	EN 1931	-	NA	
	After ageing to EN 1296		-	NA	
Watertightness	New product	EN 1928	-	NA	<10kPa
	After ageing to EN 1296		-	NA	
Watertightness after stretching at low temperature		EN 13897	%	NA	
Reaction to fire		EN 13501-1	-	NA	
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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