

Technical Data Sheet

FORCE 4000 TRAFIC

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 10cm.
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.
Application method	Fully bonded, with fully sealed joints, using torch-on technique to form a continuous layer.
Storage	Rolls to be stored upright and away from heat.
Composition	(indicative)

Reinforcement (g/m²) :	Stabilised polyester	250
Binder (g/m²) :	Anti-root SBS elastomer	3,300
Surface finish (g/m²) :	Mineral granules	1,200
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	0%	
	Width		m	1	-1%	
	Straightness		-	Pass		
	Nominal roll weight		kg	25 (5m) 40 (8m)		
	Thickness (on selvedge)	EN 1849-1	mm	4.00	3.80	4.20
Visible defects	New product	EN 1850-1	-	None		
	After ageing to EN 1297		-	NA		
Adhesion of granules		EN 12039	%	15	0	30
Initial amount of mineral surface protection		EN12039:1999 Annex B	g/m ²	1000	800	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	250	200	
	Cross direction			300	200	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50 mm	900	800	
	Cross direction			900	800	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	45	35	
	Cross direction			50	40	
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	900	800	
				End joint	900	800
Water absorption		EN 14223	%	2	≤	
Flexibility at low temperature	Before artificial ageing	EN 1109	°C	Surface	-16	≤
				Under surface	-16	≤
	After artificial ageing to EN 1296			Surface	decrease after artificial ageing ≤ 15°C	
				Under surface		
Flow resistance at elevated temperature	Before artificial ageing	EN 1110	°C	100	≥	
	After ageing to EN 1296			90	≥	
Dimensional stability		EN 1107-1	%	0.5	≤	
Resistance to impact		EN 12691	mm	1750	≥	
Resistance to static loading		EN 12730 (A)	kg	20	≥	
Watertightness		EN14694	-	Waterproof		

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Watertightness	Before artificial ageing	EN 1928		Waterproof	<60 kPa	
	After artificial ageing to EN 1296			Waterproof	<60 kPa	
Reaction to fire		EN 13501-1	-	PND		
Resistance to compaction of an asphalt layer		EN 14692	-	Pass		
Resistance to root penetration		EN 13948	-	Pass		
Dangerous substances consult: http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm		-	-	None		

NA=not applicable due to use of product. PND=Performance not determined.
The manufacturer reserves the right to modify, at any time, the characteristics of this product.