Ref: 150401FF



## Technical Data Sheet FORCE 4000 TRAFIC FLAME FREE

1.	Description	Force 4000 Trafic Flame Free is a stabilised polyester reinforced, SBS elastomeric modified bitumen waterproofing membrane treated with anti-root additive. The membrane has a self protected natural slate mineral granule finish and a self adhesive under surface. Minimum selvedge width is 8cm.
2.	Use	Capsheet in warm roof, multilayer bitumen membrane waterproofing systems for living roofs (Cityflor Neo-Bitumen® flame free) 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, by flame free self adhesive hot air welding 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) :	Woven non-woven polyester reinforced with glass-fibre
Binder (g/m²) :	Anti-root SBS elastomer
Surface finish (g/m²) :	Mineral granules
Under surface finish (g/m²) :	Peel-off Silicone film

Characteristics			Standards (BS)	Units	Value	Tolerance	
		Min				Max	
	Length			m	8	MLV	
Dimensions	Width		EN 1848-1	m	1	MLV	
	Straightness			mm	20mm x 10m	Pass	
Visible defects			EN 1850-1	-	Without defects		
Adhesion of granules			EN 12039	%	30 max.	MDV	
Self adhesion properties			ASTM D 1000	N/10mm	20	-5	
Resistance to	Longitudinal		EN 10010 1		200	000/	
tearing (nail shank)	Cross direction		EN 12310-1	N	200	-30%	
Tensile properties:	Longitudinal		EN 12311-1	N/50mm	1200	. 000/	
maximum tensile force	Cross direction				960	±20%	
Tensile properties:	Longitudinal		EN 10011 1	0/	45	15 absolute	
elongation	Cross direction		EN 12311-1	%	50	-15 absolute	
Shear resistance	Maximum force	Selvedge	EN 12317-1	N/50mm	1000	+20%	
of joint		End joint			800	±20%	
Flexibility at low	New product		EN 1109		-25	MLV	
temperature	After ageing to EN 1296		EN 1297 / EN 1296	°C	-15	+15	
Flow resistance at elevated temperature			EN 1110	°C	100	MLV	
Resistance to impact			EN 12691	mm	1250	MLV	
Resistance to static loading			EN 12730 (A)	kg	25	MLV	

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Dimensional stability	Longitudinal Cross direction	EN 1107-1 (A)	%	±0.3	MLV
Watertightness (A)		EN 1928	kPa	500	MLV
External fire performance		EN 13501-5	Class	F Roof	NPD
Reaction to fire		EN 13501-1	Class	Е	Pass
Resistance to root penetration		EN 13948	-	Pass	

NA=not applicable due to use of product.

NPD=No performance determined.

MLV=Manufacturer limiting value.

MDV=Manufacturer declared value.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.

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