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BS EN 13707 0679-CPD-0128

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n° of certification organisation: 0679
Year mark was 1st fixed : 2006

Prepared 26/04/2007
Cancels and replaces 16/02/2004
Code : **1528xxx**
Manufacture source *Courchelettes (Fr-59)*
Technical ref: *AT FORCE*

PRODUCT DATA SHEET

FORCE 4000 S

DESCRIPTION

FORCE 4000 S is a stabilised polyester reinforced, SBS elastomeric modified bituminous waterproofing membrane. Its surface is finished with mineral slate chippings or ceramic granules. Minimum selvedge width is 9cm.

USE

Torch-on single or multi-layer waterproofing cap sheet for inaccessible flat roofs and self-protected flat roofs with plant. Suitable for use on profiled metal decks and decks made from timber and timber derivatives, concrete and cellular concrete and non-torchable insulation boards for new and refurbishment projects.

APPLICATION METHOD

Torched.

STORAGE

Rolls to be stored upright and away from heat.

COMPOSITION *(indicative)*

Reinforcement (gm/m²) :	Stabilised polyester	180
Binder (gm/m²) :	SBS elastomer	3,800
Surface finish (gm/m²) :	Mineral slates	1,000
	or granules	1,200
Under surface finish (gm/m²) :	Thermofusible film	10

CHARACTERISTICS

			STANDARD(BS)	UNITS	VALUES	Tolerance Min	Tolerance Max
Dimensions		Length	EN 1848-1	m	8	-1%	
		Width		m	1	-1%	
		Straightness		-	Pass		
		Nominal roll weight		kg	44.1		
		Thickness (selvedge)	EN 1849-1	mm	3.90	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
Resistance to tearing (nail shank)		Longitudinal	EN 12310-1	N	NA	-	-
		Cross direction			NA	-	-
Tensile properties : maximum tensile force		Longitudinal	EN 12311-1	N/50 mm	600	500	880
		Cross direction			600	500	750
Tensile properties : elongation		Longitudinal	EN 12311-1	%	35	25	55
		Cross direction			35	25	60
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	600	500	750
		End joint			600	500	880
Flexibility at low temperature	Surface		EN 1109	°C	-16	≤	
	Under surface				-16	≤	
Flow resistance at elevated temperature		New product	EN 1110	°C	100	≥	
		After ageing to EN 1296			110	100	120
Resistance to impact			EN 12691	mm	1750	≤	
Resistance to static loading			EN 12730 (A)	kg	20	≥	
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	<10 kPa	
		After ageing to EN 1296		-	NA		
Watertightness after stretching at low temperature			EN 13897	%	NA		
Reaction to fire			EN 13501-1	-	F		
Resistance to root penetration			EN 13948	-	NA		
Dangerous substances consult : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm			-	-	None		

NA=not applicable due to use of product.