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[www.axter.co.uk](http://www.axter.co.uk)

Prepared  
16/10/2014  
Cancels and replaces  
01/07/2013  
Code :  
15007x8  
Manufacture source  
Courchelettes (Fr-59)  
Technical ref:  
FT AXTER

# PRODUCT DATA SHEET

## FORCE LINE 4.5 RE

### DESCRIPTION

FORCE LINE 4.5 RE GB is a polyester reinforced elastomeric (SBS) modified bituminous membrane. Its surface is finished with coloured mineral chippings. The minimum selvedge width is 6cm.

### USE

Cap sheet in a single or multi-layer roof waterproofing system.

### APPLICATION METHOD

Torched.

### STORAGE

Rolls to be stored upright and away from heat.

### COMPOSITION

(indicative)

Reinforcement (gm/m <sup>2</sup> ) :	Stabilised polyester	120
Binder (gm/m <sup>2</sup> ) :	Elastomer	3800
Surface finish (gm/m <sup>2</sup> ) :	Mineral slates	1000
Under surface finish (gm/m <sup>2</sup> ) :	Thermofusible film	10

### CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	8		-0%	
		Width	1		-1%	
		Straightness	-	Pass		
	EN-1849-1	Nominal roll weight	44.2			
		Thickness (selvedge)	4.20	4.0	4.4	
Visible defects	EN 1850-1	New product	-	None		
		After ageing to EN 1297	-	NA		
Adhesion of granules	EN 12039	%	15	0	30	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NA	-	-	
		Cross direction	NA	-	-	
Tensile properties : maximum tensile force	EN 12311-1	Longitudinal	450	300	500	
		Cross direction	270	200	300	
Tensile properties : elongation	EN 12311-1	Longitudinal	30	10	50	
		Cross direction	55	10	80	
Peel resistance of joint	EN 12316-1	Maximum force	Selvedge	NA	-	-
			End joint	NA	-	-
		Average force	Selvedge	NA	-	-
			End joint	NA	-	-
Shear resistance of joint	EN 12317-1	Maximum force	Selvedge	270	200	300
			End joint	450	300	500
Flexibility at low temperature	EN 1109	Surface	-10		≤	
		Under surface	-10		≤	
Flow resistance at elevated temperature	EN 1110	New product	100		≥	
		After ageing to EN 1296	100	90	110	
Resistance to impact	EN 12691	mm	1250		≥	
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			
Water vapour transmission properties	EN 1931	New product	-	μ=20000		
		After ageing to EN 1296	-	NA		
Watertightness	EN 1928	New product	-	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 : <a href="http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm">http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm</a>	-	-	None			

NA=not applicable due to use of product.

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