

PRODUCT DATA SHEET

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

FORCE LINE 4 RE GB

Technical ref:
FT AXTER

DESCRIPTION

FORCE LINE 4 RE GB is a self-protected, polyester reinforced elastomeric bitumen waterproofing membrane. The minimum selvedge width is 6cm. The nominal roll weight is 39 kg.

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 ²) :	Stabilised polyester	120
Binder (gm/m ²) :	Elastomer	3,390
Surface finish (gm/m ²) :	Mineral slates or granules	1,000 1,200
Under surface finish (gm/m ²) :	Thermofusible film	10

CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	8	-1%		
		Width	1	-1%		
		Straightness	-	Pass		
		Nominal roll weight	kg	39.0	36.8	41.2
Thickness (on finished product)	EN 1849-1	mm	3.80	3.60	4.00	
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	320	490	
		Cross direction	270	250	290	
Tensile properties : elongation	EN 12311-1	Longitudinal	30	10	50	
		Cross direction	55	10	100	
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	250	290
			End joint	450	320	490
Flexibility at low temperature	EN 1109	Surface	-10	≤		
		Under surface	-10	≤		
Flow resistance at elevated temperature	EN 1110	New product	90	≥		
		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	≤		
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	at 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 :	-	-	None			

Dangerous substances consult :
<http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm>
NA=not applicable due to use of product.

The manufacturer reserves the right to modify, at any time, the characteristics of its products.