

PRODUCT DATA SHEET

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

FORCE LINE 4.5 RE GB

Technical ref:
▶ FT AXTER

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. The nominal roll weight is 48.8 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	180
Binder (gm/m ²) :	Elastomer	3600
Surface finish (gm/m ²) :	Mineral slates	1000
Under surface finish (gm/m ²) :	Thermofusible film	10

CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	8	-0%		
		Width	1	-1%		
		Straightness	-	Pass		
		Nominal roll weight	49			
	EN-1849-1	Thickness (selvedge)	4.10	3.9	4.3	
Visible defects	EN 1850-1	New product	-	None		
		After ageing to EN 1297	-	30		
Adhesion of granules	EN 12039	%	40	60	0	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NA	-	-	
		Cross direction	NA	-	-	
Tensile properties : maximum tensile force	EN 12311-1	Longitudinal	690	400	820	
		Cross direction	540	400	680	
Tensile properties : elongation	EN 12311-1	Longitudinal	40	30	50	
		Cross direction	50	40	60	
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	540	400	680
			End joint	690	400	820
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	15	≥		
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		
		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.

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