





1.	Description	Force ADH Flame Free is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. The membrane has a self protected charcoal mineral surface, silicone film on the laps and a fleece under surface. Selvedge width is 8cm.			
2.	Use Capsheet in Force ADH Flame Free warm roof, adhered (cold bone bitumen membrane roof waterproofing system.				
3.	Application Method	Fully adhered, with fully sealed joints, by cold adhesive bonding and flame free selfadhesive hot air welding techniques, to form a continuous watertight layer.			
		Using Axter approved roller or spray applied membrane adhesive install the Force ADH Flame Free membrane, ensuring full adhesion to the membrane / prepared surface below.			
		A heavy metal roller should be used to remove any air bubbles and ensure full bonding is achieved.			
		Lap joints are secured using flame free self adhesive hot air tooling and a 2mm bead of bitumen should be visible along the selvedge.			
		At head laps mineral granules should be heated and removed using flame free hot air tooling techniques ensuring a black to black bond is achieved and a 2mm bead of bitumen is visible along the head lap.			
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	180
Binder (g/m²) :		
Surface finish (g/m²) :	Mineral chippings, with silicone film on selvedge	
Under surface finish (g/m²):	Fleece	

Characteristics			Standards (BS)	Units	Value	Tolera	ance
						Min	Max
	Length		EN 1848-1	m	8	MLV	
Dimensions	Width			m	1	MLV	
	Straightness			mm	20mm x 10m	Pass	
Visible defects			EN 1850-1	-	Without defects		
Adhesion of granules			EN 12039	%	30 max.	MDV	
Resistance to tearing (nail	Longitudinal		EN 12310-1	N	190	-30%	
shank)	Cross direction		EN 12310-1	IN	190	-0070	
Tensile properties: maximum tensile	Longitudinal		EN 12311-1	N/50mm	900	±20%	
force	Cross direction				650		
Tensile properties:	Longitudinal		EN 12311-1	%	40	-15 absolute	uto
elongation	Cross direction				45		
Shear resistance	Maximum force	Selvedge	EN 12317-1	N/50mm	850	±20%	
of joint		End joint			600		
Flexibility at low	New product		EN 1109	°C	-25	MLV	
temperature	After ageing to EN 1296		EN 1297 / EN 1296		-15	+15	
Flow resistance at elevated temperature			EN 1110	°C	100	MLV	

Resistance to impact	EN 12691	mm	900	MLV	
Resistance to static loading		EN 12730 (A)	kg	15	MLV
Dimensional stability	Longitudinal Cross direction	EN 1107-1 (A)	%	±0.3	MLV
Watertightness (A)		EN 1928	kPa	60	MLV
External fire performance		EN 13501-5	Class	F Roof	NPD
Reaction to fire		EN 13501-1	Class	Е	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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