

# Technical Data Sheet

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## EXCEL<sup>®</sup> FM Capsheet

<b>1. Description</b>	Excel FM is a reinforced Alpa <sup>®</sup> polymer modified self-finished bitumen waterproofing membrane. Its surface is finished with coloured ceramic granules or mineral slate chippings and its under surface with a loose silicone film. Minimum selvedge width is 100mm.
<b>2. Use</b>	Excel FM is accredited for use as a flame free single layer waterproofing system in a mechanically fixed application on flat, zero fall and pitched roofs: <ul style="list-style-type: none"><li>• where necessary in conjunction with warm roof insulation on fully or partially bonded flat or pitched roofs with limited access or under heavy protection (e.g. concrete slab) on flat roofs, terraces, balconies or walkways with regular pedestrian traffic.</li><li>• as a repair and refurbishment waterproofing system for existing roofs as a complete single overlay where appropriate. Excel FM is particularly suitable for large span industrial structures.</li></ul>
<b>3. Application Method</b>	Installed either flame free using mechanical fastening technique to form a continuous layer, with self-adhesive laps and detailing; or by mechanical fastening to form a continuous layer with torch-on / hot air welded laps and detailing. The under surface is a loose silicone film, left in position when the membrane is installed over a field area, but at perimeter interfaces, the interleaf should be removed to allow naked bitumen to bond with peel stop/angle reinforcement.
<b>4. Storage</b>	Rolls to be stored upright, under cover, without stacking and away from heat.
<b>5. Composition</b>	(Indicative). See below.

Reinforcement (g/m <sup>2</sup> )	Stabilised polyester	180
Binder (g/m <sup>2</sup> )	Alpa®	3,788
Surface finish (g/m <sup>2</sup> )	Slates chippings or mineral granules	1000 - 1200
Under surface finish (g/m <sup>2</sup> )	Peel-off silicone film	40

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Dimensions	Length	EN 1848-1	m	8	-1%	
	Width		m	1	-1%	
	Nominal roll weight	EN 1849-1	kg	≈ 41		
	Thickness (on finished product)		mm	4	± 5	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	180	-	-
	Cross direction			230	-	-
Tensile properties: maximum strength	Longitudinal	EN 12311-1	N/50mm	500	-	-
	Cross direction			500	-	-
Tensile properties: maximum elongation	Longitudinal	EN 12311-1	%	25	-	-
	Cross direction			25	-	-
Flexibility at low temperature		EN 1109	°C	≥ -14		
Flow resistance at elevated temperature		EN 1110	°C	≥ 120		
Resistance to impact (method A)		EN 12691	mm	≥ 700		
Resistance to static loading (method A)		EN 12730 (A)	kg	≥ 20		

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