

Technical Data Sheet

EXCEL[®] (Excel HR S - Alpal Décor CPV)

1. Description	<p>Excel is a reinforced Alpa[®] polymer modified self-finished bitumen waterproofing membrane. Its surface is finished with coloured ceramic granules or mineral slate chippings and its under surface is finished with a thermofusible film. Minimum selvedge width is 8cm.</p>
2. Use	<p>Excel capsheet is accredited for use in a warm roof single or multi layer waterproofing system, fully or partially bonded, in a flame free hot air welded, mechanically fixed (Excel FM*) application or in a torch-on application on flat, zero fall and pitched roofs:</p> <ul style="list-style-type: none"> • With limited access or under heavy protection (e.g. concrete slab) on flat roofs, terraces, balconies and walkways with regular pedestrian traffic. • As a repair and refurbishment waterproofing system for existing roofs as a complete single or multi layer overlay where appropriate. • As part of a built-up multi layer specification, where necessary in conjunction with appropriate Axter reinforced bitumen membranes in accordance with BS 8747:2007, BS 8217:2005 and BS 6229:2018 and warm or inverted 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. <p>*Excel FM - see separate Excel FM Technical Data Sheet for further details.</p>
3. Application method	<p>Installed fully or partially bonded, with fully sealed joints, using hot air fastening, torch-on or mechanically fixed (Excel FM*) techniques to form a continuous layer.</p>
4. Storage	<p>Rolls to be stored upright and away from heat.</p>
5. Composition	<p>(Indicative).</p>

Reinforcement (g/m ²)	Stabilised polyester	180
Binder (g/m ²)	Alpa®-mix	3500
Surface finish (g/m ²)	Mineral slates or granules	1000 1200
Under surface finish (g/m ²)	Thermofusible film	10

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	8	-1%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight		kg	40.6	39.7	43.7	
	Thickness (selvedge)	EN 1849-1	mm	4.00	3.80	4.20	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	15	0	30	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	NA	-	-	
	Cross direction			NA	-	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	600	500	900	
	Cross direction			600	500	750	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	35	25	60	
	Cross direction			35	25	60	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvedge	NA	-	-
				End joint	NA	-	-
	Average force			Selvedge	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvedge	600	500	750
				End joint	600	500	900
Flexibility at low temperature	Surface	EN 1109	°C	-14	≤		
	Under surface			-14	≤		

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Flow resistance at elevated temperature	New product	EN 1110	°C	120	≥	
	After ageing to EN 1296			120	110	130
Resistance to impact		EN 12691	mm	600	≤	
Resistance to static loading		EN 12730 (A)	kg	20	≥	
Dimensional stability		EN 1107-1	%	0.5	≤	
Form stability under cyclic temperature change		EN 1108	%	NA		
Water vapour transmission properties	New product	EN 1931	-	μ=20000		
	After ageing to EN 1296		-	NA		
Watertightness	New product	EN 1928	-	Pass	at 10kPa	
	After ageing to EN 1296		-	NA		
Watertightness after stretching at low temperature		EN 13897	%	NA		
Reaction to fire		EN 13501-1	-	NPD		
Resistance to root penetration		EN 13948	-	NA		

NA=Not applicable due to use of product.

NPD=No Performance Determined.

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