

Technical Data Sheet

VAP AL SK

Self Adhesive Membrane, Air & Vapour Control Layer (AVCL),
Base & Underlayer

Description

VAP AL SK is an air and vapour control layer, with a macro-perforated film/sand surface and a self-adhesive under surface. Minimum selvedge width is 80mm.

Longitudinal side laps are self-adhesive on the under surface. End laps are bonded by torch-on technique (15cm).

Use

An air and vapour control layer (AVCL) low permeability membrane used as part of a system to control the movement of air, water vapour and heat leakage from within the building. Can also be used as base or underlayer as part of a multi-layer waterproofing system.

The choice of AVCL will depend on the degree of air and vapour pressure produced, the specified roof deck/slab and the need for a robust temporary waterproofing layer. VAP AL SK is suitable for use in bitumen and single ply warm roof waterproofing systems.

Application method

Installed fully bonded, with fully sealed joints, using self-adhesive/hot air techniques to form a continuous layer.

Storage

Rolls to be stored upright and away from heat.

Composition (indicative)

Reinforcement (g/m²) :	Composite aluminium + glass fibre	120
Binder (g/m²) :	SBS elastomer	3,450
Surface finish (g/m²) :	Macro-perforated film + sand	100
Under surface finish (g/m²) :	Silicone film	60

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	30.0			
	Thickness (on finished product)	EN 1849-1	mm	3.20	3.00	3.40	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	NA	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	160	120	200	
	Cross direction			150	110	200	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50 mm	500	300	700	
	Cross direction			350	250	450	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	15	5	35	
	Cross direction			40	20	50	
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	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	NA	≤		
	Under surface			NA	≤		

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Flow resistance at elevated temperature	New product	EN 1110	°C	NA	≥	
	After ageing to EN 1296			NA	-	-
Resistance to impact		EN 12691	mm	800	≤	
Resistance to static loading		EN 12730 (A)	kg	NA	≥	
Dimensional stability		EN 1107-1	%	NA	≤	
Form stability under cyclic temperature change		EN 1108	%	NA		
Water vapour transmission properties	New product	EN 1931	Sd(m)	1000		
	After ageing to EN 1296		Sd(m)	1000		
Watertightness	New product	EN 1928	-	Pass	<2 kPa	
	After ageing to EN 1296		-	NA		
Watertightness after stretching at low temperature		EN 13897	%	NA		
Reaction to fire		EN 13501-1	-	PND		
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. PND=Performance not determined.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.