

# Technical Data Sheet

## VAP AL

Air & Vapour Control Layer (AVCL),  
Base & Underlayer

<b>1. Description</b>	VAP AL is an air and vapour control layer with thermofusible film on the undersurface and sand on the surface.
<b>2. Use</b>	<p>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.</p> <p>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 is suitable for use in bitumen, single ply and liquid warm roof waterproofing systems.</p>
<b>3. Application method</b>	Installed fully bonded, with fully sealed joints, using torch-on techniques to form a continuous layer.
<b>4. Storage</b>	Rolls to be stored upright and away from heat.
<b>5. Composition</b>	(Indicative). See below.

Reinforcement (g/m <sup>2</sup> )	Composite aluminium + glass fibre	120
Binder (g/m <sup>2</sup> )	SBS modified bitumen	3,200
Surface finish (g/m <sup>2</sup> )	Sand	300
Under surface finish (g/m <sup>2</sup> )	Thermofusible film	10
Longitudinal overlap width (mm)	80 (torch-on)	

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	31.0			
	Thickness (on finished product)	EN 1849-1	mm	3.00	2.50	3.50	
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	50	200	
	Cross direction			150	50	190	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	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	NA	≤	
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)	≥1500		
	After ageing to EN 1296		Sd(m)	≥1500		
Watertightness	New product	EN 1928	-	Pass	<2kPa	
	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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