Ref: 1839001
V2 22/04/2026

Bitumen Waterproofing
Single Ply Waterproofing
Liquid Waterproofing

Technical Data Sheet

VAP ALU ADH

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

1.	**Description**	VAP ALU ADH is an air and vapour control layer with sand on the surface and a self-adhesive under surface. Minimum width of selvedge is 6cm. The under surface and longitudinal side laps are self-adhesive. End laps must be bonded by torch-on technique over a 15cm area.
2.	**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 ALU ADH is suitable for use in bitumen, single ply and liquid warm roof waterproofing systems, particularly in high humidity conditions.
3.	**Application method**	Installed fully bonded, with fully sealed joints, using self-adhesive/hot air techniques to form a continuous layer.
4.	**Storage**	Rolls to be stored upright and away from heat.
5.	**Composition**	(Indicative). See below.

Reinforcement (g/m²)	Composite aluminium + glass fibre	120
Binder (g/m²)	SBS elastomer	2400
Surface finish (g/m²)	Sand + silicone selvedge	300
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	≈ 22	-	
	Thickness (on finished product)		EN 1849-1	mm	2	≥	
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	300	150	-
	Cross direction				300	150	-
Tensile properties: maximum tensile force	Longitudinal		EN 12311-1	N/50mm	550	300	-
	Cross direction				350	250	-
Tensile properties: elongation	Longitudinal		EN 12311-1	%	15	5	-
	Cross direction				40	15	-
Peel resistance of joint	Maximum force	Selvedge	EN 12316-1	N/50mm	NA	-	-
		End joint			NA	-	-
	Average force	Selvedge			NA	-	-
		End joint			NA	-	-
Shear resistance of joint	Maximum force	Selvedge	EN 12317-1	N/50mm	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		EN 1931	Sd(m)	1000	≥	
Watertightness after stretching at low temperature		EN 13897	%	NA	-	
Reaction to fire		EN 13501-1	Class	E	-	
Resistance to root penetration		EN 13948	-	NA	-	

NA=Not applicable due to use of product.

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