Bitumen Waterproofing
Single Ply Waterproofing
Liquid Waterproofing

Technical Data Sheet

VAP ALU ADH

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

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 8 cm. The undersurface and longitudinal side laps are self-adhesive. End laps must be bonded by torch-on technique over a 15cm area.
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.
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). See below.

Reinforcement (g/m²) :	Composite aluminium + glass fibre	120
Binder (g/m²) :	SBS elastomer	2,700
Surface finish (g/m²) :	Sand+silicone selvedge	270
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	25.4		
	Thickness (on finished product)		EN 1849-1	mm	2.20	2.00	2.40
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**	**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	New product	EN 1931	Sd(m)	1000	≥	
	After ageing to EN 1296		Sd(m)	1100	≥	
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	-	NPD		
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.