

Technical Data Sheet

ROLL 25 ALPA ALU

Air & Vapour Control Layer (AVCL)
Base & Underlayer

1. Description	Roll 25 Alpa Alu is a glass-fibre/aluminium reinforced bitumen air and vapour control layer with Alpa binder. It has a thermofusible film on the under surface.
2. Use	<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.</p> <p>Roll 25 Alpa Alu is suitable for use in bitumen, single ply and liquid warm roof waterproofing systems, particularly in humid and high humidity conditions.</p>
3. Application method	Installed fully bonded, with fully sealed joints, using torch-on techniques to form a continuous layer.
4. Storage	Rolls to be stored upright and away from heat.
5. Composition	(Indicative). See below.

Reinforcement (g/m ²)	Alumium/glass-fibre composite	120
Binder (g/m ²)	ALPA	2,800
Surface finish (g/m ²)	Sand	250
Under surface finish (g/m ²)	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	26.0	24.0	28.1	
	Thickness (finished product)	EN 1849-1	mm	≥2.5	2.30	2.70	
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	150	120	200	
	Cross direction			150	110	200	
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	15	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	kg	NPD	≥	
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	<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.

Axter Ltd reserves the right to modify and update this data at any time without prior notice. Only the latest version of this document is valid, available for download at www.axter.co.uk/downloads. Once downloaded, documents are uncontrolled. Users should always confirm they are referring to the latest version prior to use. Further assistance is available from Axter Ltd's Technical Support Team, email: technical@axterltd.co.uk, telephone: 01473 935008.

The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. Axter Ltd accepts no liability for non-compliant use of this product.