

Technical Data Sheet

ROLLSTICK 31 ALPA ALU

Air & Vapour Control Layer (AVCL)
Base & Underlayer

Description	ROLLSTICK 31 ALPA ALU is a glass-fibre/aluminium reinforced bitumen air and vapour control layer with ALPA binder. It has semi-continuous strips of self-adhesive bitumen on the surface, protected by a thermofusible film, and a thermofusible film on the undersurface.
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, and as an adhesive layer + AVCL for insulation.</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>ROLLSTICK 31 ALPA ALU is suitable for use in bitumen and single ply warm roof waterproofing systems.</p>
Application method	Installed fully bonded, with fully sealed joints, using torch-on techniques to form a continuous layer. The self-adhesive strips on the surface are activated by heat and the protective film disappears. Insulation boards can then be laid on the self-adhesive strips.
Storage	Rolls to be stored upright and away from heat.
Composition	(indicative). See below.

Reinforcement (g/m²) :	Alumium/glass-fibre composite	120
Binder (g/m²) :	ALPA	2,600
Surface finish (g/m²) :	Film	10
Under surface finish (g/m²) :	Film	10

Characteristics			Standards (BS)	Units	Value	Tolerance	
						Min	Max
Dimensions	Length		EN 1848-1	m	7	-1%	
	Width			m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight			kg	22.1		
	Thickness (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	15	50
Peel resistance of joint	Maximum force	Selvage	EN 12316-1	N/50mm	NA	-	-
		End joint			NA	-	-
	Average force	Selvage			NA	-	-
		End joint			NA	-	-
Shear resistance of joint	Maximum force	Selvage	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	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	-	F		
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.