

# Technical Data Sheet

## **ROLLSTICK 31 ALPA** Air & Vapour Control Layer (AVCL) Base & Underlayer

<b>Description</b>	ROLLSTICK 31 ALPA is a glass-fibre 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.
<b>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, 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. ROLLSTICK 31 ALPA is suitable for use in bitumen and single ply warm roof waterproofing systems.</p>
<b>Application method</b>	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.
<b>Storage</b>	Rolls to be stored upright and away from heat.
<b>Composition</b>	(indicative). See below.

<b>Reinforcement (g/m<sup>2</sup>) :</b>	Glass-fibre	50
<b>Binder (g/m<sup>2</sup>) :</b>	SBS elastomer	3,000
<b>Surface finish (g/m<sup>2</sup>) :</b>	Film & adhesive strips	10
<b>Under surface finish (g/m<sup>2</sup>) :</b>	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	21.7		
	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	80	50	150
	Cross direction				80	50	150
Tensile properties: maximum tensile force	Longitudinal		EN 12311-1	N/50 mm	250	200	550
	Cross direction				150	120	350
Tensile properties: elongation	Longitudinal		EN 12311-1	%	3	2	-
	Cross direction				3	2	-
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	-14	≤	
	Under surface				-14	≤	

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Flow resistance at elevated temperature	New product	EN 1110	°C	120	≥	
	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	%	0.1	≤	
Form stability under cyclic temperature change		EN 1108	%	NA		
Water vapour transmission properties	New product	EN 1931	Sd(m)	280	≥	
	After ageing to EN 1296		Sd(m)	280	≥	
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: <a href="http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm">http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm</a>		-	-	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.