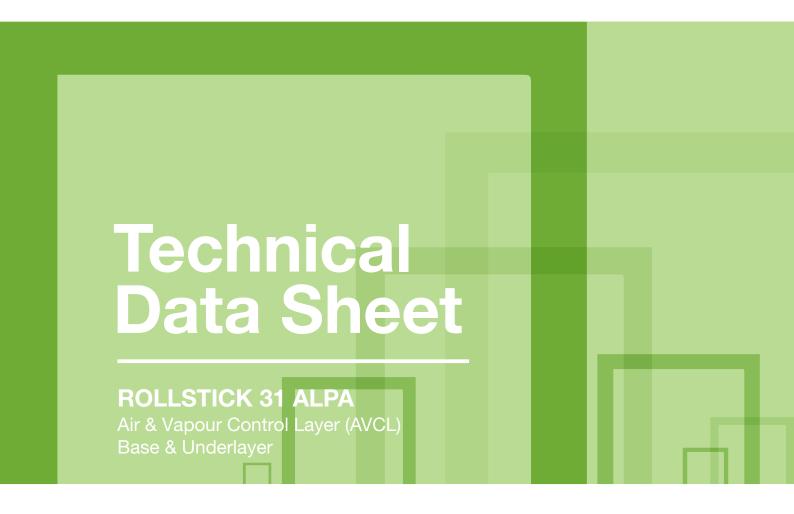


Bitumen Waterproofing Single Ply Waterproofing



Description	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.
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, and as an adhesive layer + AVCL for insulation.
	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.
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 baords 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) :	Glass-fibre	50
Binder (g/m²) :	SBS elastomer	3,000
Surface finish (g/m²) :	Film & adhesive strips	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 weig	ht		kg	21.7		
	Thickness (finishe	ed 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 Cross direction		EN 12310-1	N	80	50	150
					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	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	-14	≤	
	Under surface				-14	≤	

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min Ma	ах
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	<2 KPa	
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.