

# Technical Data Sheet

## ARMALU

<b>Description</b>	ARMALU is a glass-tissue reinforced SBS elastomeric bitumen membrane with natural aluminium (mill finish) on the surface and thermofusible film on its under surface. Minimum width of selvedge is 70mm.
<b>Use</b>	Top layer for upstands; component part of Exceljoint system.
<b>Application method</b>	Fully bonded, with fully sealed joints, using torch-on technique.
<b>Storage</b>	Rolls to be stored upright and away from heat.
<b>Composition</b>	(indicative)

<b>Reinforcement (g/m<sup>2</sup>) :</b>	Stabilised glass tissue	60
<b>Binder (g/m<sup>2</sup>) :</b>	SBS elastomer	4800
<b>Surface finish (g/m<sup>2</sup>) :</b>	Aluminium sheet 7/100	180
<b>Under surface finish (g/m<sup>2</sup>) :</b>	Thermofusible film	10

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	5	-1%		
	Width*		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight		kg	26.3			
	Thickness (selvedge)	EN 1849-1	mm	3.65	3.50	3.80	
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	350	250	-	
	Cross direction			350	250	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50 mm	900	600	-	
	Cross direction			900	600	-	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	4	3	-	
	Cross direction			4	3	-	
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		EN 1109	°C	-5	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	90	≥		
	After ageing to EN 1296			90	85	110	
Resistance to impact		EN 12691	mm	NA	≥		
Resistance to static loading		EN 12730 (A)	kg	NA	≥		
Dimensional stability		EN 1107-1	%	0.2	≤		
Form stability under cyclic temperature change		EN 1108	%	0.03	≤		

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Water vapour transmission properties	New product	EN 1931	-	1021		
	After ageing to EN 1296		-	1384		
Watertightness	New product	EN 1928	-	Pass	<10 kPa	
	After ageing to EN 1296		-	NA		
Watertightness after stretching at low temperature		EN 13897	%	NA		
Reaction to fire		EN 13501-1	-	PND		
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		

**\* Also available in 200mm strips for detailing and upstands.**

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.