

Technical Data Sheet

VAP IND

Self Adhesive Membrane
Air & Vapour Control Layer (AVCL)

1. Description	VAP IND is an air and vapour control layer with an aluminium foil on the surface and an HDPE protective foil on the under surface with a raised strip on each side to make removal easier.
2. 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 a base or under layer as part of a multi-layer waterproofing system. 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. VAP IND is suitable for use in mechanically fixed single ply and bitumen and in liquid warm roof waterproofing systems.
3. Application method	Installed fully bonded with fully sealed joints using self-adhesive techniques to form a continuous layer. The surface on which the VAP IND is to be applied must be smooth, dry, clean and free from grease. The deck (concrete, timber, etc) must be treated with an Axter specified primer. New metal decks do not need priming if they are smooth, clean, dry and free from grease. If this is not the case, the metal deck must be primed with an Axter specified primer. The VAP IND is then rolled out and a roller is used to avoid air bubbles forming. Side and end laps must be 8cm min. Laps must be pressed to ensure full bonding. Strips can be cut into any shape required using a sharp knife. VAP IND should be laid in temperatures between 0°C to +30°C (base temperature +5°C to +25°C) but not in rain, snow or frosty conditions.
4. Storage	Rolls are to be stored upright on pallets standing on a level surface, in a cool, dry place, protected from heat (particularly the sun's rays). During cold weather the rolls must be stored for at least 12 hours before use at +5°C. Pallets must not be stacked on top of one another.
5. Composition	(Indicative).

Composition (g/m ²)	Self-adhesive layer + fire check	300
Surface finish (g/m ²)	Aluminium foil	50
Under surface finish (g/m ²)	Polyethylene protective foil	30

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	
Dimensions	Length	EN 1848-1	m	50	+/-1%	
	Width		m	1.08	+/-1%	
	Straightness		mm/10m	≤20	≤20	
	Nominal roll weight	EN 1849-1	kg	23.0		
	Thickness (on finished product)		mm	0.25	0.35	
Visible defects	New product	EN 1850-1	-	None	None	
	After ageing to EN 1297		-	NA	-	
Adhesion of granules		EN 12039	%	NA	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	20	≥	
	Cross direction			20	≥	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	200	≥	
	Cross direction			200	≥	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	20	≥	
	Cross direction			20	≥	
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	200	≥
				End joint	200	≥
Flexibility at low temperature		EN 1109	°C	-20	≤	
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥	
	After ageing to EN 1296			NA	-	

Characteristics		Standards (BS)	Units	Value	Tolerance
					Min
Resistance to impact		EN 12691	mm	300	≥
Resistance to static loading		EN 12730 (A)	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)	1500	≥
	After ageing to EN 1296		Sd(m)	750	≥
Watertightness	New product	EN 1928	-	100 kPa/24h	<200 kPa/24h
	After ageing to EN 1296		-	NA	NA
Watertightness after stretching at low temperature		EN 13897	%	NA	NA
Reaction to fire		EN 13501-1	-	PND	
Resistance to root penetration		EN 13948	-	NA	-
Calorific value		DIN 51900-1	kJ/m ²	≤ 10500	8169
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.

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