

VAPOBAR 1 AL/VV



Nature of product

Prefabricated waterproofing membrane obtained by coextrusion of a special steam-impermeable bitumen-polymer compound and of a reinforcement consisting of a sheet of pure aluminium and of a glass sheet. They are available in 3 and 4 mm thicknesses.

They are produced in rolls, taped and supplied with Quality Control certificates. They comply with the requirements for CE marking where required. They do not contain asbestos, tar or other dangerous substances.

Intended use

The VAPOBAR 1 AL/VV membranes are specifically designed as steam barriers, below heat insulating elements, of insulated waterproofing roofing systems. Furthermore, with respect to use on roofs and in foundations, its use is indicated with reference to the following diagram ⁽¹⁾.

To identify the systems that can be obtained, consult the Technical Services of IMPER ITALIA srl.

PRODUCTS	FIELDS OF USE ⁽¹⁾							
	Roofing (EN 13707)					Under-tile (EN 13859-1)	Steam control (EN 13970)	Foundations (EN 13969)
	Exposed			Roof gardens	Under heavy-duty protection			
	Single-ply	Multi-ply		Root- resistant	Single-ply	Multi-ply		Multi-ply
		Upper	Lower					
VAPOBAR 1 AL/VV 3 mm							•	
VAPOBAR 1 AL/VV 4 mm							•	

⁽¹⁾ In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

Application procedure

The substrate must be carefully cleaned from non-adhering or sharp parts. The next step is priming of all the surfaces to be covered with a suitable PRIMER applied in a single layer using a long-handled brush, roller or spray, with a consumption of 0.2 ÷ 0.3 litres/m² and in any case variable according to the porosity of the substrate itself .

After drying, VAPOBAR 1 AL/VV is applied with the aid of a slight flame, taking care in particular that the joints are made by overlapping the adjacent sheets by at least 10 cm and that they are carefully sealed by means of thermofusion. The indications given here are purely indicative and require the applicator to adapt them on a case by case basis to the particular situation of the surface to be covered (slope, exposure, ventilation, monolithicity, etc.). In this regard, for more complete and detailed documentation regarding the application methods and creation of the entire stratigraphy, we recommend consulting the Technical Services of IMPER ITALIA srl which are in any case available to explore particular problems as well as to provide all the assistance necessary for optimum use of these materials.

TECHNICAL SPECIFICATIONS ⁽¹⁾

Specifications	EN Standards	Unit of Measure	Tolerances ⁽¹⁾	VAPOBAR 1 AL/VV	
				3 MM	4 MM
Roll dimensions	1848-1	m	≥	10 x 1	
Thickness	1849-1	mm	±5%	3	4
Watertightness	1928-B	kPa	≥	60	
Cold flexibility	1109	°C	≤	-10	
Flow resistance at elevated temperature	1110	°C	≥	120	
L/T tensile strength	12311-1	N/5cm	±20%	420 / 315	
L/T tensile elongation	12311-1	%	±2	2 / 2	
L/T dimensional stability	1107-1	%	≤	-	
Static puncture	12730	kg	≥	10	
Dynamic puncture	12691-B	mm	≥	-	
L/T tear resistance	12310-1	N	±30%	-	
Joint peel resistance	12316-1	N/5cm	±20 N	NDP ⁽²⁾	
Joint cut resistance ⁽³⁾	12317-1	N/5cm	±20%	NDP ⁽²⁾	
Durability after aging::					
• Cold flexibility	1296-1109	°C	+15°C	-	
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	120	
• UV Ageing	1297	-	-	NDP ⁽²⁾	
• Watertightness	1296-1928	kPa	≥	60	
• Chemical resistance	-	-	-	NDP ⁽²⁾	
• L/T tensile strength	12311-1	N/5cm	±20%	-	
• L/T tensile elongation	12311-1	%	±2	-	
Steam permeability	1931	μ	≥	Absolute ⁽⁵⁾	
Root resistance	13948		-	NDP ⁽²⁾	
External fire behaviour	13501-5	EC ⁽⁴⁾	-	Froof	
Fire reaction	13501-1	EC ⁽⁴⁾	-	F	

Notes: (1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

(2) Characteristic not determined because it is not relevant for use.

(3) Declared value or failure away from joints.

(4) Euroclass.

(5) For the numeric calculation use $\mu \geq 500.000$.

Rev. 03 (06-22)

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