# Polyvap SA P-AL

## Prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology

VAPOUR BARRIER

POLYVAP SA P-AL is a top-quality prefabricated SELF-ADHESIVE bitumen **Flexibility at** membrane produced using ADESO® technology, the new ELASTOMERIC (SBS) low temperature compound laminating system developed by Polyglass SpA. -25 °C POLYVAP SA P-AL is a membrane produced to the standards set by NAT® technology, the production system for the control of polymer matrix ageing in bitumen membranes. PRODUCT COMPLIANT WITH EUROPEAN STANDARD POLYVAP SA P-AL has a stabilized polyester nonwoven COMPOSITE carrier laminated with aluminium foil that gives good dimensional stability and excellent WATER VAPOUR TRANSMISSION AND DETERMINATION OF WATERTIGHTNESS water vapour transmission resistance properties. REACTION TO FIRE CERTIFICATION CLASS E CSI

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PRODUCT	EN 13707 ROOFS SINGLE-PLY MULTI-PLY							EN 13969 Foundations		EN 13859-1 UNDERLAY	EN 13970	EN 14695
	EXPOSED	BALLASTED	EXP BASE LAYER	DSED	BALL/ BASE LAYER	ASTED	ROOT BARRIER	RISING DAMP	GROUNDWATER	FOR DISCONTINOUS ROOFING	VAPOUR BRID BARRIER VIADU	AND AND VIADUCTS
POLYVAP SA P-AL 2 mm R R											•	
POLYVAP SA P-AL 2 mm S R											٠	

POLYVAP SA P-AL is a self-adhesive membrane that acts as a VAPOUR BARRIER, designed for use under thermoplastic thermal insulation, such as: expanded polyurethane, expanded and extruded polystyrene.

Particularly suitable for all wooden roofs and tiles and wherever the use of a torch is not reccomended.

The right VAPOUR DIFFUSION CONTROL LAYER for the job must be determined based on the existing roof build-up, checking for condensation formation (with the aid of a Glaser diagram).

FINISHES

POLYVAP SA P-AL is available with the upper side protected with sand or both sides with a mono-silicone coated polyethylene backing film split in two lengthwise to make it easier to peel off as the membrane is applied.

Top finishes



Mono-silicone coated polyethylene film (R)

Bottom finishes

Mono-silicone coated polvethylene film (R)



# Polyvap SA P-AL

STANDARD   TECHNICAL CHARACTERISTICS   NUIT OF MEASURE POINWAP SA P-AL     EN1848-1   WOTH   m   > 1     EN1848-1   LENGTH   m   > 1     EN1848-1   ENGTH   m   > 1     EN1848-1   TOKORESS   mm   15 (±13)     EN1849-1   AREA IMASS   kmm   MMEE     EN1848-1   STANDATINESS   kmm   MEES the requirements     EN1848-1   STANDATINESS   mm   MeES the requirements     EN1828-8   WIETE INFORMER EACTOR µ   CA   > 100000     EN1850-1   BEADESTANCE FACTOR µ   CA   None     EN1850-1   BEADESTANCE FACTOR µ   SCA   None     EN1850-1   BEADESTANCE FACTOR µ   SCA   None     EN1850-1   BEADESTANCE FACTOR µ   SCA   None     EN1230-1   BEADESTANCE TO STATIC LOADING SOFT SUPPORT)   mm   > 200000     EN1230-1   BEADESTANCE TO STATIC LOADING SOFT SUPPORT)   mm   > 2001     EN1230-1   BESSTANCE TO STATIC LOADING SOFT SUPPORT)   ND   NO	TECHNICAL CHARA	CTERISTICS ////////////////////////////////////		
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BranchBranch StandStand StandStand StandBrutardRISSTANCE TO MACT (RIGD SUPPORT)max> 600BrutardRISSTANCE TO MACT (RIGD SUPPORT)max> 700BrutardRISSTANCE TO STATIC LOADING (SOFT SUPPORT)kgMaxBrutardRISSTANCE TO STATIC LOADING (SOFT SUPPORT)kgMaxBrutardRISSTANCE TO STATIC LOADING (RIGD SUPPORT)NoMaxBrutardRISSTANCE TO STATIC LOADING (RIGD SUPPORT)kgMaxBrutardRISSTANCE TO STATIC LOADING (RIGD SUPPORT)%MaxBrutardRISSTANCE TO STATIC LOADING (RIGD SUPPORT)% <td>EN 1107-1</td> <td>DIMENSIONAL STABILITY</td> <td>%</td> <td>NPD</td>	EN 1107-1	DIMENSIONAL STABILITY	%	NPD
EN 12691-ARESISTANCE TO IMPACT (RIGID SUPPORT)mm2 600EN 12691-BRESISTANCE TO IMPACT (SOFT SUPPORT)mm2 700EN 12730-ARESISTANCE TO STATIC LOADING (SOFT SUPPORT)kgNPOEN 12310-BRESISTANCE TO STATIC LOADING (RIGD SUPPORT)kgNPOEN 12310-BRESISTANCE TO TEARING Longbudnah TransversalNN100 (±30%) 100 (±30%)EN 12311-1RESISTANCE TO TEARING Longbudnah TransversalNS0 mm00 (±20%) 200 (±20%)EN 12311-1RESISTANCE TO TEARING Longbudnah Transversal LONGATION AT BREAK Longbudnah TransversalNS0 mm00 (±20%) 200 (±20%)EN 12311-1RESISTANCE AT ELEVATED TEMPERATURE LONGATION AT BREAK LONGATION AT BREAK LONGBUDNEN10 mm200 (±20%)EN 1100PELNIGVIT OM200 (±20%)EN 1100PELNIGVIT OM200 (±20%)EN 1100PELNIGVIT OM200 (±20%)EN 1110NO merce set200 (±20%)EN 1110WATER VAPOUR RESISTANCE FACTOR AFTER THERMALAGEING µ200 (±20%)EN 1110WATER VAPOUR RESISTANCE FACTOR AFTER THERMALAGEING µ200 (±20%)EN 1110WATER VAPOUR RESISTANCE AT ELEVATED TEMPERATURE200 (±20%)EN 111	EN 12317-1	SHEAR RESISTANCE Longitudinal Transversal	N/50 mm N/50 mm	350 (±20%) 150 (±20%)
EN 12691-8RESISTANCE TO IMPACT (SOFT SUPPORT)mm> 70EN 12730-ARESISTANCE TO STATIC LOADING (SIGT SUPPORT)kgNPEN 12310-1RESISTANCE TO TATIC LOADING (RIGID SUPPORT)kgNDEN 12310-1RESISTANCE TO TATRING Longhtinal ransversalNNO-200%FLN311-1RESISTANCE TO TARING Longhtinal ransversalNSNO-200%FLN121-1RESISTANCE TO TARING Longhtinal ransversalNSNO-200%FLN121-1LONGATION AT BREAK LONGATION AT BREAK LONGATION AT BREAK LONGATION AT BREAK LONGATION AT BREAK LONGATION AT BREAK LONGATION AT BREAK 	EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 600
EN 12730-ARESISTANCE TO STATIC LOADING (SOFT SUPPORT)kgNPDEN 12730-BRESISTANCE TO STATIC LOADING (RIGID SUPPORT)kgNPDEN 12310-1Longitudinal TransversalNN100 (+30%) 100 (430%)FN 12311-1Longitudinal TransversalNSO mm NSO mm <b< td=""><td>EN 12691-B</td><td>RESISTANCE TO IMPACT (SOFT SUPPORT)</td><td>mm</td><td>≥ 700</td></b<>	EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 700
EN 12730-9Resistance TO STATIC LOADING (RIGD SUPPORT)IgNPEN 12310-10Sistance TO TEARING Longitudina ransversaNoNoNoNoFN 12310-10Sistance TO TEARING Longitudina ransversaNoNoNoNoFN 12311-10Sistance TO TEARING Longitudina ransversaNoNoNoNoFN 12311-10Sistance TO TEARING Longitudina ransversaNoNoNoNoFN 12311-10Sistance TO TEARING Longitudina ransversaNoNoNoNoFN 1000PELNENoNoNoNoNoFN 10100PELNENoSistance TO TEARING Longitudina ransversaNoNoNoNoFN 1100PELNENoSistance TO TEARING Longitudina ransversaNoNoNoNoFN 1100FLOR ELNENoSistance TO TEARING Longitudina ransversaNoNoNoNoFN 1100FLOR ELNENoSistance TO TEARING Sistance TACTOR AFTER TERMALAGEING µNoSistance TO TEARING Sistance TACTOR AFTER TERMALAGEING µNoSistance TO TEARING Sistance TO TEARING Sistance TACTOR AFTER TERMALAGEING µNoSistance TO TEARING Sistance TO TEARING Sistance TO TEARING Sistance TO TEARING Sistance TO TEARING NO CASTORNoNoNoFN 1101VITANCE TO RADING ASNoNoNoNoNoFN 1101Sistance TO TEARING ASNoNoNoNoFN 1101VITANCE	EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	NPD
EN 12310-1RESISTANCE TO TEARING Longitudinal TransversalNo00 (±30%) 100 (±30%)FN 12311-1Longitudinal Transversal Longitudinal Transversal ELONGATION AT BREAK Longitudinal TransversalN50 mmN50 mmN00 (±20%) 200 (±20%)ASTM D 1000PELINGN50 mmN50 mmN50 mmN50 mmASTM D 1000PELINGN50 mmN50 mmN50 mmASTM D 1000PELINGN10 mm≥ 00 (±20%) 200 (±20%)ASTM D 1000PELINGN10 mm≥ 00 (±20%) 200 (±20%)ASTM D 1000PELINGN10 mm≥ 00 (±15) 30 (±15)ASTM D 1000PELINGN10 mm≥ 00 (±20%) 200 (±20%)ASTM D 1000PELINGN10 mm≥ 00 (±15) 30 (±15)ASTM D 1000MATER VAPOUR RESISTANCE FACTOR AFTER THERMAL AGEING µ< 100	EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	NPD
But StatesEnsult Strength Longitudinal Transversal Longitudinal Transversal Longitudinal Lo	EN 12310-1	RESISTANCE TO TEARING Longitudinal Transversal	N N	100 (±30%) 100 (±30%)
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EN 1110FLOW RESISTANCE AT ELEVATED TEMPERATURE°C≥ 100DURABILITY AFTER AGEEN 1931 - EN 1296WATER VAPOUR RESISTANCE FACTOR AFTER THERMAL AGEING µ-± 50% initial valueEN 1931 - EN 1847WATER VAPOUR RESISTANCE FACTOR AFTER EXPOSURE TO CHEMICAL AGENTS µ-± 50% initial value <b>ADLITIONAL DATA</b> -± 50% initial valueSP METHOD 3873PERMEABILITY TO RADON GAS-NPDSP METHOD 3873TRANSMITTANCE TO RADON GAS-NPD-THERMAL CONDUCTIVITYW/mK0,20-THERMAL CAPACITYKJ/K1,20	EN 1109	COLD FLEXIBILITY	°C	≤ -25
DURABILITY AFTER AGEINSEN 1931 - EN 1296WATER VAPOUR RESISTANCE FACTOR AFTER THERMAL AGEING μ-± 50% initial valueEN 1931 - EN 1847WATER VAPOUR RESISTANCE FACTOR AFTER EXPOSURE TO CHEMICAL AGENTS μ-± 50% initial valueADDITIONAL DATASP METHOD 3873PERMEABILITY TO RADON GAS-NPDSP METHOD 3873TRANSMITTANCE TO RADON GAS-NPD-THERMAL CONDUCTIVITYW/mK0,20-THERMAL CAPACITYKJ/K1,20	EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 100
EN 1931 - EN 1296WATER VAPOUR RESISTANCE FACTOR AFTER THERMAL AGEING μ-± 50% initial valueEN 1931 - EN 1847WATER VAPOUR RESISTANCE FACTOR AFTER EXPOSURE TO CHEMICAL AGENTS μ± 50% initial value <b>ADDITIONAL DATA</b> SP METHOD 3873PEMEABILITY TO RADON GAS-NPDSP METHOD 3873TRANSMITTANCE TO RADON GAS-NPD-THERMAL CONDUCTIVITYW/mK0,20-THERMAL CAPACITYKJ/K1,20	DURABILITY AFTER AGEI	NG		
EN 1931 - EN 1847 WATER VAPOUR RESISTANCE FACTOR AFTER EXPOSURE TO CHEMICAL AGENTS µ - ± 50% initial value   ADDITIONAL DATA .	EN 1931 - EN 1296	WATER VAPOUR RESISTANCE FACTOR AFTER THERMAL AGEING $\boldsymbol{\mu}$	-	$\pm$ 50% initial value
ADDITIONAL DATA     SP METHOD 3873   PERMEABILITY TO RADON GAS   -   NPD     SP METHOD 3873   TRANSMITTANCE TO RADON GAS   -   NPD     -   THERMAL CONDUCTIVITY   V/MK   0,20     -   THERMAL CAPACITY   KJ/K   1,20	EN 1931 - EN 1847	WATER VAPOUR RESISTANCE FACTOR AFTER EXPOSURE TO CHEMICAL AGENTS $\boldsymbol{\mu}$	-	$\pm$ 50% initial value
SP METHOD 3873   PERMEABILITY TO RADON GAS   -   NPD     SP METHOD 3873   TRANSMITTANCE TO RADON GAS   -   NPD     -   THERMAL CONDUCTIVITY   V/MK   0,20     -   THERMAL CAPACITY   KJ/K   1,20	ADDITIONAL DATA			
SP METHOD 3873   TRANSMITTANCE TO RADON GAS   -   NPD     -   THERMAL CONDUCTIVITY   W/mK   0,20     -   THERMAL CAPACITY   K/K   1,20	SP METHOD 3873	PERMEABILITY TO RADON GAS	-	NPD
-   THERMAL CONDUCTIVITY   W/mK   0,20     -   THERMAL CAPACITY   kJ/K   1,20	SP METHOD 3873	TRANSMITTANCE TO RADON GAS	-	NPD
- THERMAL CAPACITY kJ/k 1,20	-	THERMAL CONDUCTIVITY	W/mK	0,20
	-	THERMAL CAPACITY	kJ/K	1,20

PACKAGING							
PRODUCT	THICKNESS mm	WEIGHT kg/m <sup>2</sup>	DIMENSIONS m				
POLYVAP SA P-AL R R	2	-	1x15				
POLYVAP SA P-AL S R	2	-	1x15				

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Rolls are packed in cardboard boxes standing upright on shrink-wrapped pallets.

Use always a weight distributing element if you are forced to stack the pallets one on top of each other. A solid distributing element will avoid damages to the rolls underneath. Keep the product in a dry place, out of direct sunlight, protected from heat sources and freezing temperatures, storing the material on wooden pallets raised off the ground until you are ready to start application.

Always keep the rolls of membrane in their original packaging where they are being stored, even when the roll is not entirely used.

Never store or leave rolls of membrane horizontal position this could compromise the application.

Contact with solvents or organic liquids can damage the product.

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The surface of any substrate due to be covered with POLYVAP SA P-AL must be flat, dry, clean, and free of all foreign matter or loose material.

Excessive moisture levels on the surfaces to be waterproofed can result in membranes coming off.

Before applying the membranes, coat the substrate with an adhesion-promoting primer: either solvent-based products such as POLYPRIMER and POLYPRIMER HP or water-based product such as IDROPRIMER. On wooden substrates, it is always advisable to use a water-based primer.

**POLYVAP SA P-AL** is cold applied, without the use of naked flames (propane torch), by peeling off the mono-silicone coated backing film on its underside.

The product must be applied with temperatures higher than 10 °C and, whatever the case, only when weather conditions are favourable.

Membranes used to create the VAPOUR DIFFUSION CONTROL LAYER should be applied directly over a substrate (wood, concrete screed) coated with an adhesion-promoting primer. The insulating panels are then glued down, and this is done by peeling off the mono-silicone coated film on the upper face in case of the double-sided self-adhesive version or using Polyglue PU 2K glue in case of the sand finish version, or mechanically fixed.

In the event the whole roof cannot be finished in a single day, it is always best practice to work in zones, completing a full waterproofing build-up in each, which involves laying the vapour barrier, thermal insulation, and the first waterproofing layer.

For further details on application, please refer to the installation instructions contained in the ADESO® Application Manual, or contact the Polyglass SpA Technical Support Department.



## Polyvap SA P-AL

The values given are approximate average data relating to the current product range and may be edited or updated by Polyglass SpA at any time without any prior notice. As Customer or User, it is your responsability to check that the technical data sheet you have is valid for the batch of product in your hands and, whatever the case, that you have the latest version issued.

Always refer to the latest up-to-date version of the Technical Data Sheet and relevant Declaration of Performance, both of which you can find on our site www.polyglass.com. As the End User, it is your responsibility to check that the product is fit for its intended purpose.

PRODUCT FOR PROFESSIONAL USE.



POLYGLASS



## POLYGLASS SPA

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