

	<b>Product Technical Information</b>	Number	IT.003
		Date of issue	09.01.2019
		Version	7.2
		Waterproofing	

## The three-layer membrane for waterproofing and damp AlphaProPlus

1. **Technical specification:** PN-EN 13967: 2012 Flexible sheets for waterproofing – Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet – Definitions and characteristics
2. **Manufacturer/Place of production:** Alpha Dam Sp. z o.o., 87-207 Dębowa Łąka 45
3. **Product description:** Three-layer membrane, consisting of polyethylene core, laminated with nonwoven fabric on one side. Due to use of the AlphaProPlus technology, the membrane is very durable and light, external layer ideally connects with bricklaying mortar and concrete.
4. **Intended use and scope of application:**
  - 4.1. Plastic or rubber sheet used on or under floors/ground slabs or in walls to prevent liquid water not under hydrostatic pressure passing from the ground into the internal environment
  - 4.2. Sheet used in wall construction or in or under floors or ground slabs to prevent liquid water under hydrostatic pressure passing from the ground into the internal environment or from one section of the structure to another.
5. **Laying method:**
  - 5.1. horizontally on bedding concrete or on a base made of e.g. compacted sand
  - 5.2. vertically, e.g. in formwork before concreting, put directly to the wall or to the thermally insulating panel
6. **Information for the user:**
  - 6.1. Placement conditions:  
An AlphaProPlus membrane placement should be carried out under conditions, which enable normal masonry work. Placements should not be carried out at temperatures below -5 °C. Prevent damages to the membrane during the placing and fixing of reinforcement. The base for the membrane should be non-deformable, compacted, smooth, clean and uniform, without sharp edges and defects or protruding grains of the aggregate. Works during placing and fixing of reinforcement and formwork should be carried out with a due care to avoid damage to the waterproof membrane.
  - 6.2. Use conditions:  
A damp-proofing and waterproofing with AlphaProPlus membranes should be carried out according to a technical project prepared in compliance with valid building code
  - 6.3. Bonding:  
Strips of the AlphaProPlus membrane should be bonded by welding of the membrane using hot air. The connection can be made also using factory applied glue or adhesive tapes (e.g. APP 150). Mechanical fixing of membrane edges to formwork using steel clamps before glueing or welding. Overlap of minimum width 6 cm should be used using any of the mentioned methods for membrane bonding.

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6.4. Concrete mix and concrete:

The mix should be laid directly on executed waterproof membrane system. The mix should have a consistency allowing exact soaking and penetration of cement grout into a structure of polypropylene unwoven fabric to obtain correct bonding of system with concrete. It is important to ensure correct laying, compacting and curing of concrete. A structure of isolated component should indicate appropriate degree and type of reinforcement to ensure its waterproofness and resistance to occurrence of cracks. Before concreting of foundation slab it is necessary to remove possible contaminations from the waterproof membrane e.g. by washing under pressure (next, remove formed standing water) or with compressed air.

6.5. Storage:

Before the use at construction site an AlphaProPlus membrane should be stored in its original packing protected against solar radiation.

**7. Warranty**

Warranty covers waterproofness of the product for 10 years from date of purchase.

The condition for use of the warranty is:

1. Use of the product according to the Technical Information of the Product and Service Manual.
2. Storage of the product according to the Technical Information of the Product
3. The above guidelines are based on current state of the knowledge, experience and result of the tests. They do not bear the legal liability and do not release the contractor from the liability for executed works and necessity to adhere to the conditions on the construction site. Corresponding standards and generally accepted good building practices as well as conditions at the construction site shall be taken into account during works.
4. Documentation of purchase based on the purchase invoice or ID no. of the product

**8. Information on the CE marking**

In accordance with the requirements ensuing from the standard PN-EN 13967:2012



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Certificate of Conformity of the Factory Production Control No 1023-CPR-0446F

Use of the CE marking is subject to Plant's Production Control by the Institut Pro Testovania Certifikaci a.s. notified body no. 1023.

**9. Product characteristics:**

Essential characteristics	Unit	Performance
Visible defects	-	brak
Length	m	25 (0% do +5%)
Width	m	1,500 (0% do +1%)

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Straightness	mm	≤ 30/10 mb
Thickness	mm	1,300 (±5%)
Mass	kg/m <sup>2</sup>	1,150 (±5%)
Water tightness	60 kPa method B	watertight
Water tightness	400 kPa method B	watertight
Water tightness	0,1 MPa method B	watertight
Resistance to static loading	kg method B	≥ 20
Tensile properties: Maximum strength: - in longitudinal direction: - in transverse direction: Elongation: - in longitudinal direction: - in transverse direction	method A  N/50mm N/50mm  % %	  ≥ 500 ≥ 400  ≥ 400 ≥ 100
Durability - watertightness after artificial ageing - alkali resistance	60 kPa method B	Watertight no cracks and holes
Tear resistance: - in transverse direction: - in longitudinal direction:	N N	≥ 400 ≥ 450
Resistance to impact	mm Method A	≥ 300
Determination of shear resistance of joint	N	≥ 400
Water tightness of joint (with APP Tape)	10 kPa Method A	watertight
Water tightness of joint (with using a thermal seal)	60 kPa Method B	watertight
Resistance to low temperature	°C	≤ -30
Degree of radon permeability Transmittance Resistance Permeability	m/s s/m m <sup>2</sup> /s	$3,81 \times 10^{-8} \pm 5,71 \times 10^{-9}$ $2,63 \times 10^7 \pm 3,94 \times 10^6$ $4,57 \times 10^{-11} \pm 6,85 \times 10^{-12}$
Resistance to artificial aging through prolonged exposure to elevated temperatures	24 weeks 70 °C	no visible defects
Reaction to fire	class	E
Dangerous substance	-	don't contain

Signed for and on behalf of the manufacturer by:



Proxy Iwona Majek

Dębowa Łąka, 9 January 2019