

	Product Technical Information	Number	IT.007
		Date of issue	11.06.2018
		Version	6.0
		AlphaRexx	

5 layer membrane intended for use under discontinuous roofing AlphaRexx

1. **Technical Specifications** PN-EN 13859-1:2014-06 – Flexible sheets for waterproofing – Definitions and characteristics of underlays – Part 1: Underlays for discontinuous roofing.
2. **Manufacturer:** Alpha Dam Sp. z o.o., 87-207 Dębowa Łąka 45
3. **Description of product:** A 5-ply membrane with a polyethylene core and a lamination with polypropylene unweaved fabric on both sides. Due to the used innovative technology the AlphaRexx membrane is very firm, resistant and also light. AlphaRexx is UV radiation resistant up to 2 years.
4. **Purpose and range of applications:** Flexibel membrane for waterproofing. Underlay membrane which are to be used under a discontinues roof covering. as a protection preventing water from leaking through the surfaces, and in particular from passing into wooden roof constructions and into thermal insulation. Application especially under a roofing with shingles, concrete tiles, metal sheet plates bonded on standing seams and under other discontinuous roofings.
The AlphaRexx membrane is applicable on sloped roofs with an angle of inclination above 15°.
5. **Information for the user**
 - 5.1. **Placement conditions:**
An AlphaRexx membrane placement should be carried out under conditions, which enable normal roofing work. Placements should not be carried out at temperatures below +5 °C.
Special attention should be paid to the sufficient ventilation below the membrane.
 - 5.2. The mounting should be carried out in accordance with the art of building, current technical knowledge and the mounting instruction.
 - 5.3. **Mounting instruction:**
 - 5.3.1. An AlphaRexx membrane mounting must be started on the side of the eaves. The tapes are unfolded along the eaves and fastened with tacks with a seal for the roof construction. The subsequently used tapes must overlap each other and form overlaps of minimum 10 cm in width. It's better to avoid vertical overlaps between the tapes. However, if this is not possible, the overlaps between the tapes should necessarily be sealed with a double-sided adhesive band and insulated from above with a self-adhesive band to the foil and roof membranes. If the hipped roof end angle of inclination is below 30°, the strips should be sealed with a double-sided butyl band.
 - 5.3.2. The AlphaRexx membrane edge at the eaves must be extended out onto the above-gutter belt, i.e. by means of a special flashing. Moreover, it should be fastened to the above-gutter belt with a double-sided adhesive butyl band.
 - 5.3.3. The strips along the roof ridge should be turned inside out on the adjacent hipped roof end. This concerns both the bands on the one and the other side of the roof ridge. The width of the turning inside out should be at least 20 cm. Of course at the moment of the end of outside roofing placement the roof ridge should be opened by cutting off the membrane (in a relation of minimum 0.02% of

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ventilated surface) in order to create a ventilation gap. Then a safeguarding hood should be made along the roof ridge on the counter-patches.

- 5.3.4. When an AlphaRexx membrane reaches a vertical wall (e.g. a chimney), it turns inside out on it up to the height of 30 cm bonding the vertical wall to the double-sided adhesive band and the membrane edge must be shielded by flashing.
- 5.3.5. The AlphaRexx membrane turns inside out also on the roof windows frames. It is fastened to the frames with stitches and an insulation tape is stuck over the membrane.
- 5.3.6. The AlphaRexx membrane in valleys is turned inside out alternately from one hipped roof end to the adjacent hipped roof end – up to a minimum distance of 25 cm. In such a case a double insulation of about 50 cm in width is made. Afterwards the AlphaRexx tape running along the valley must be placed first underneath. Vertical bondings should be safeguarded with a double-sided adhesive butyl band.
- 5.3.7. It is difficult to insulate places in which soil pipes of exhaust ventilations or antenna cables pass through the membrane. In such places a special sealing system consisting of unwoven fabric and a hydroisolating mass is the best method for small roof elements.
- 5.3.8. When using counter-patches on a AlphaRexx membrane, particularly if counter-patches are fastened to a wood base with nails and an AlphaRexx membrane was pierced during the fastening, an AlphaProxx seal should be applied under the counter-patches. In such a case the AlphaProxx seal should be mounted between the AlphaRexx membrane and a counter-patch in the place where a nail or a screw passes through the AlphaRexx membrane.
- 5.3.9. During AlphaRexx membrane tape fastening one should keep in mind that the company's overprint should always be upwards. Otherwise the roof membrane will act completely contrariwise.
- 5.3.10. Horizontal overlaps between AlphaRexx membranes are not sealed with the tape. The bondings in valleys or a hipped roof end angle of inclination below 30° are exceptions.
- 5.3.11. A small gutter should be formed from the membrane behind chimneys or other larger elements in the hipped roof end (except hipped roof end windows). Such a small gutter must be by about 20 cm wider than the given element. It should also be formed with an inclination only on one side. This causes that the water flowing down on the membrane, after coming into the small gutter, will flow aside without an accumulation behind the chimney.

5.4. Seasoning:

It is inadvisable to make a membrane seasoning during the winter without a complete boarding and without an outside covering as well as to expose an AlphaRexx membrane to snowfalls.


5.5. Storage:

Before the use at construction site an AlphaRexx membrane should be stored in its original packing protected against contamination. AlphaRexx is UV radiation resistant up to 24 months.

6. **Guarantee:**

The guarantee covers product watertightness for a period of 10 years from the date of product purchase. The guarantee terms are:

1. Product use in accordance with the Product Technical Information and the Mounting Instruction
2. Product storage in accordance with the Product Technical Information.
3. Documented purchase on the grounds of purchase invoice and product ID number.

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7. Information on the CE marking

In accordance with the requirements ensuing from the standard PN-EN 13859-1:2010



8. Product characteristics:

Essential characteristics	Unit	Performance
Visible faults	-	No defects
Length	m	25
Width	m	1,5 [-0,5% to +1,5%]
Straightness	mm	≤ 30/10 mb
Thickness	mm	1,00 [±5%]
Mass per unit area	kg/m ²	0,53 [±5%]
Reaction to fire	-	E
Resistance to water penetration	10 kPa/24h	Watertightness, Class W1
Water vapour transmission properties:		
1. Water vapour stream density:	g[kg/(m ² s)]	9,45 x 10 ⁻⁸
2. Water vapour diffusion resistance:	(m ² s Pa)/kg	2,31 x 10 ⁺¹⁰
3. Diffusion resistance coefficient:	μ	3822,9
4. Sd value:	Sd[m]	4,492
Tensile properties		
Maximum force:		
- In longitudinal direction:	N/50mm	400
- In transverse direction:	N/50mm	300
Elongation:		
- In longitudinal direction:	%	100
- In transverse direction:	%	100
Resistance to tearing (nail shank)		
- In longitudinal direction:	N	350
- In transverse direction:	N	299
Dimensional stability:		
- In longitudinal direction:	%	0,25
- In transverse direction:	%	0,25
Flexibility at low temperatures	-30°C	no cracks
Tensile properties after artificial ageing:	55 MJ/m ² /70°C/90dni	
- In longitudinal direction:	N/50mm	400
- In transverse direction:	N/50 mm	300
Elongation after artificial ageing:		
- In longitudinal direction:	%	25
- In transverse direction:	%	30

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Resistance to water penetration after artificial aging process:	10 kPa/24h	Watertightness, Class W1
Resistance to water penetration joints	10 kPa/24h	Watertightness, Class W1
UV resistance	-	2 years
Dangerous substances	-	none

Signed for and on behalf of the manufacturer by:



Proxy Iwona Majek

Dębowa Łąka, 11 June 2018