# DECLARATION OF PERFORMENCE
# No CPR/PR/2

1. Unique identification code of the product-type: **ALPOL EKO PLUS PREMIUM**
2. Intended use/es: **External Thermal Insulation Composite Systems (ETICS) with rendering**
3. Manufacturer: **Zakład Surowców Chemicznych i Mineralnych „PIOTROWICE II" Sp. z o.o. 39-400 Tarnobrzeg, ul. Górnicza 7, Poland**
4. –
5. System/s of AVCP: **System 2+**
6. European Assessment Document: **Guideline for European Technical Approval ETAG 004 of External Thermal Insulation Composite Systems (ETICS) with rendering, version February 2013, used as European Assessment Document (EAD)**

   European Technical Assessment: **ETA 15/0290 of 11/07/2017.**

   Technical Assessment Body: **Institute of Ceramics and Building Materials ICiMB, Cementowa Str. 8, 31-983 Kraków, Poland.**

   Notified body/ies: **Certification Department of Building Research Institute AC020, Filtrowa Str. 1, 00-611 Warszawa, Poland;** conducted an initial inspection of the manufacturing plant and factory production control in system 2+ and issued **Certificate of Conformity of the Factory Production Control no.1488-CPR-0400/Z** and performs the continuous surveillance, assessment and approval of factory production control.
7. Declared performance/s:

| No | The essential characteristics | Performances | | | Harmonised technical specification |
|---|---|---|---|---|---|
| 1. | Reaction to fire | ALPOL EKO PLUS PREMIUM:<br>- adhesive<br>- EPS panels<br>- base coat<br>- glass fibre mesh<br>- key coat | With finishing coat made of mineral, acrylic, silicate-silicone or silicone plaster | B-s2, d0 | EN 13501-1 |
| | | | With finishing coat made of mosaic plaster | D-s2, d0 | |
| 2. | Water absorption after 1 hour | Base coat:<br>AK 531 or AK 532 / CX-D600 | | < 1 kg/m$^2$ | ETAG 004 |
| 3. | Water absorption after 24 hour | Base coat:<br>AK 531 or AK 532 / CX-D600 | | < 0,5 kg/m$^2$ | ETAG 004 |
| | | Base coat:<br>AK 531 or AK 532 /CX-D600<br>+ relevant key coat +<br>finishing coat indicated hereafter: | AT 319,<br>AT 330÷338 | ≥ 0,5 kg/m$^2$ | ETAG 004 |

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|---|---|---|---|---|---|
| | | Base coat:<br>AK 531 or AK 532 /CX-D600 + relevant key coat +finishing coat indicated hereafter: | AT 320÷327, AT 350÷357, AT 370÷377, AT 380÷387, AT 390, AT 391, AT 397, AT 397 EXPRESS, AT 398 | < 0,5 kg/m$^2$ | |
| 4. | Water tightness | Hydrothermal behaviour | | Resistant | ETAG 004 |
| | | Freeze-thaw behaviour | | Resistant | |
| 5. | Impact resistance | Rendering system:<br>(Base coat AK 531 + standard mesh ALPOL SW145 )+<br>relevant key coat + finishing coat indicated hereafter: | AT 319÷338, AT 350, AT 370, AT 380 | category III | ETAG 004 |
| | | | AT 351÷357, AT 381÷387, AT 390, AT 391, AT 397, AT 397 EXPRESS, AT 398 | category II | |
| | | | AT 371÷377 | category I | |
| | | Rendering system:<br>(Base coat AK 532/CX-D600 + standard mesh ALPOL SW145 )+<br>relevant key coat + finishing coat indicated hereafter: | AT 319÷338 | category III | |
| | | | AT 350÷357, AT 380÷387, AT 390, AT 391, AT 397, AT 397 EXPRESS, AT 398 | category II | |
| | | | AT 370÷377 | category I | |
| | | Rendering system:<br>(Base coat AK 531 + standard mesh ALPOL SW160 )+<br>relevant key coat + finishing coat indicated hereafter: | AT 319÷338 | category III | |
| | | | AT 350÷357, AT 380÷387, AT 390, AT 391, AT 397, AT 397 EXPRESS, AT 398 | category II | |
| | | | AT 370÷377 | category I | |
| | | Rendering system:<br>(Base coat AK 532/CX-D600 + standard mesh ALPOL SW160 )+<br>relevant key coat + finishing coat indicated hereafter: | AT 319÷338 | category III | |
| | | | AT 350÷357, AT 380÷387, AT 398 | category II | |
| | | | AT 370÷377, AT 390, AT 391, AT 397, AT 397 EXPRESS | category I | |
| 6. | Water vapour permeability | Base coat:<br>AK 531 or AK 532 /CX-D600 + relevant key coat + relevant finishing coat | | ≤ 2 m | ETAG 004 |
| 7. | Release of dangerous substances | See SDS of particular product | | | ETAG 004 |
| 8. | Bond strength between base coat and insulation product | | | ≥ 0,08 MPa | ETAG 004 |
| 9. | Bond strength between adhesive | In laboratory conditions | | ≥ 0,25 MPa | ETAG 004 |

| | | | | |
|---|---|---|---|---|
| | and substrate | After 48 hour in water + 2 hour 23°C/50% RH | ≥ 0,08 MPa | |
| | | After 48 hour in water + 7 days 23°C/50% RH | ≥ 0,25 MPa | |
| 10. | Bond strength between adhesive and insulation product | In laboratory conditions | ≥ 0,08 MPa | ETAG 004 |
| | | After 48 hour in water + 2 hour 23°C/50% RH | ≥ 0,03 MPa | |
| | | After 48 hour in water + 7 days 23°C/50% RH | ≥ 0,08 MPa | |
| 11. | Bond strength after aging | Base coat:<br>AK 531 or AK 532 /CX-D600 + relevant key coat + relevant finishing coat | ≥ 0,08 MPa | ETAG 004 |
| 12. | Render strip tensile test | | No performance assessed | |
| 13. | Airborne sound insulation | | No performance assessed | |
| 14. | Thermal resistance | | The thermal transmittance of the substrate wall covered by the ETICS is calculated in accordance with the standard EN ISO 6946 | |
| 15. | Sustainable use of natural resources | | No performance assessed | |
| 16. | Properties of other system products | Panels of expanded polystyrene EPS | Appendix 1 | |
| | | Reinforcing mesh | Appendix 2 | |

**Appendix 1**

Factory made panels of expanded polystyrene EPS acc. EN 13163

| | |
|---|---|
| Reaction to fire / EN 13501-1 | Euroclass E<br>Max. density 14,4 kg/m$^3$ |
| Thermal resistance (m²·K)/W | Specified in the CE marking according to EN 13163 |
| Thickness / EN 823 | ± 1 mm / EN 13163 – T(1) |
| Length / EN 822 | ± 2 mm / EN 13163 – L(2) |
| Width / EN 822 | ± 2 mm / EN 13163 – W(2) |
| Squarness / EN 824 | ± 2 mm / EN 13163 – S(2) |
| Flatness / EN 825 | 5 mm / EN 13163 – P(5) |
| Dimensional stability under specified conditions / EN 13163 | EN 13163 – DS(N)2 –DS(70,-)2 |
| Bending strength / EN 12089 | ≥100 kPa / EN 13163 – BS100 |
| Water vapour permeability, diffusion factor (μ) / EN 12086 - EN 13163 | 20 do 40 |
| Tensile strength perpendicular to the faces / EN 1607 | ≥100 kPa / EN 13163 – TR100 |
| Shear strength (MPa) / EN 12090 - EN 13163 | ≥ 50 kPa |

**Appendix 2**

Glass fibre mesh

| Brand name | | Description | Alkali resistance | |
|---|---|---|---|---|
| | | | Residual resistance after ageing N/mm | Relative residual resistance: (after ageing) of the strength in the as delivered state **%** |
| ALPOL SW 145 | ASGLATEX 03-43 | Surface mass: 145 g/m$^2$<br>Mesh size: 4,0 x 5,0 mm | ≥ 20 | ≥ 50 |
| | VERTEX R 117 A 101 | Surface mass: 145 g/m$^2$<br>Mesh size: 4,5 x 4,0 mm | | |
| | VERTEX145 /<br>AKE 145 | Surface mass: 145 g/m$^2$<br>Mesh size: 4,5 x 4,0 mm | | |
| | HALICO A150 / L150 | Surface mass: 150 g/m$^2$<br>Mesh size: 4,7 x 4,5 mm | | |
| | SSA-1363-145 | Surface mass: 150 g/m$^2$<br>Mesh size: 3,6 x 4,3 mm | | |
| ALPOL SW 160 | ASGLATEX 03-1 | Surface mass: 160 g/m$^2$<br>Mesh size: 3,5 x 3,8 mm | | |
| | SSA-1363-160 | Surface mass: 160 g/m$^2$<br>Mesh size: 3,8 x 3,6 mm | | |

8. –

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

R&D Director

Tarnobrzeg 02.08.2017 r.
(place and date of issue)

mgr inż. Marcin Szeliga
(name and signature)