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| 1. | Name and unique identification code of the product-type: | Panel PIR F ALK Polyisocyanurate rigid foam (PIR) panels faced, both sides, with a multi-layered aluminium complex. |
| 2. | Intended uses of the construction product: | Thermal insulation for buildings (ThIB). Thermal insulation for deck type metal roofing. |
| 3. | Manufacturer: | Poliuretanos, S.A. Z.I. El Trust, Ctra. C-65, km 16 17244 Cassà de la Selva – Girona (Spain) Tel. +34 972 46 04 72 Fax. +34 972 46 17 19 e-mail: info@poliuretanos.com |
| 4. | System of assessment and verification of constancy of performance of the construction product (AVCP): | AVCP 3 |
| 5. | Harmonised standard: Notified body/ies: Notified laboratory/ies: | EN 13165:2012+A2:2016 - Centre Scientifique et Technique du Bâtiment (CSTB) , notified testing laboratory N° 0679. APPLUS LGAI Technological Center , notified testing laboratory N° 0370. |

6. Declared performance

| <i>Essential characteristics</i> | <i>Performance</i> | | | | | | | | | | | | | | | |
|---|---|--|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|
| Reaction to fire | Generic use | E | | | | | | | | | | | | | | |
| Reaction to fire – end use | Thermal insulation for deck type metal roofing | B-s2,d0 Standard assembly n°3 | | | | | | | | | | | | | | |
| Water permeability | Water absorption short term Water absorption long term | NPD WL(T)1 | | | | | | | | | | | | | | |
| | Flatness after one-sided wetting | NPD | | | | | | | | | | | | | | |
| Release of dangerous substances to the indoor environment | No harmonised test method available | | | | | | | | | | | | | | | |
| Acoustic absorption index | Sound absorption | NPD | | | | | | | | | | | | | | |
| Direct airborne sound insulation index | Sound absorption | NPD | | | | | | | | | | | | | | |
| Continuous glowing combustion | No harmonised test method available | | | | | | | | | | | | | | | |
| Thermal resistance | Thermal resistance R_D ($m^2 \cdot K/W$) | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">$d_N: 30mm R_D=1,30$</td> <td style="width: 33%;">$d_N: 100mm R_D=4,35$</td> </tr> <tr> <td>$d_N: 40mm R_D=1,70$</td> <td>$d_N: 110mm R_D=4,80$</td> </tr> <tr> <td>$d_N: 50mm R_D=2,15$</td> <td>$d_N: 120mm R_D=5,20$</td> </tr> <tr> <td>$d_N: 60mm R_D=2,60$</td> <td>$d_N: 130mm R_D=5,65$</td> </tr> <tr> <td>$d_N: 70mm R_D=3,05$</td> <td>$d_N: 140mm R_D=6,10$</td> </tr> <tr> <td>$d_N: 80mm R_D=3,45$</td> <td>$d_N: 150mm R_D=6,55$</td> </tr> <tr> <td>$d_N: 90mm R_D=3,90$</td> <td>$d_N: 160mm R_D=6,95$</td> </tr> </table> | $d_N: 30mm R_D=1,30$ | $d_N: 100mm R_D=4,35$ | $d_N: 40mm R_D=1,70$ | $d_N: 110mm R_D=4,80$ | $d_N: 50mm R_D=2,15$ | $d_N: 120mm R_D=5,20$ | $d_N: 60mm R_D=2,60$ | $d_N: 130mm R_D=5,65$ | $d_N: 70mm R_D=3,05$ | $d_N: 140mm R_D=6,10$ | $d_N: 80mm R_D=3,45$ | $d_N: 150mm R_D=6,55$ | $d_N: 90mm R_D=3,90$ | $d_N: 160mm R_D=6,95$ |
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| $d_N: 90mm R_D=3,90$ | $d_N: 160mm R_D=6,95$ | | | | | | | | | | | | | | | |
| | Thermal conductivity λ_D ($W/m \cdot K$) | 0,023 | | | | | | | | | | | | | | |
| | Thickness $d_N: 30-160$ | T2 | | | | | | | | | | | | | | |
| Water vapour permeability | Water vapour transmission | NPD | | | | | | | | | | | | | | |
| Compressive strength | $e \leq 45mm$ | CS(10\Y)175 | | | | | | | | | | | | | | |
| | $e \geq 50mm$ | CS(10\Y)200 | | | | | | | | | | | | | | |
| Tensile strength / flexion | Tensile strength perpendicular to faces | NPD | | | | | | | | | | | | | | |
| Durability of reaction to fire against heat, weathering, ageing / degradation | Reaction to fire does not change with time | | | | | | | | | | | | | | | |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance and thermal conductivity | (a) | | | | | | | | | | | | | | |
| | Durability of thermal resistance against ageing/degradation | (a) | | | | | | | | | | | | | | |
| | Dimensional stability under specified temperature and humidity conditions | DS(70,90)3 | | | | | | | | | | | | | | |
| | Deformation under specified compressive load and temperature conditions | NPD | | | | | | | | | | | | | | |
| | Methods for determination of the values of thermal resistance and thermal conductivity after ageing | (a) | | | | | | | | | | | | | | |
| Durability of compressive strength against ageing/degradation | Compressive creep | NPD | | | | | | | | | | | | | | |

^(a) The declared value of thermal conductivity incorporates the effect of aging over time extrapolated to 25 years.

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) n° 305/211, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

 **Poliuretanos, s.a.**

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F. Boix
General Manager

Cassà de la Selva, 14.09.2017