

### INFORMATION ABOUT INSULATING PANELS ChovAPIR BV



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EN 13165:2012

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**Panel description:** Insulating panel made of rigid polyisocyanurate (PIR) foam covered, on the upper face, with an oxyasphalt complex and on the lower face with a glass veil. Thermal insulation panel made of rigid polyisocyanurate foam, PIR, 1,200 x 2,500 mm and thickness according to type.

**Recommended as:** thermal insulation in buildings as a support for waterproofing in metal deck-type roofs or other conventional-type roofs (waterproofing above the insulation) of non-passable use. Or conventional roofs for non-intensive pedestrian use, with exclusive pedestrian use.

**Properties:** closed cell product (although not suitable for inverted roofs), thermosetting (it does not melt or drip), free of CFC's and HCFC's, great internal cohesion (it does not delaminate) and flame resistant.

### TECHNICAL FEATURES

| CONCEPT   | SYMBOL  | STANDARD REF. | DECLARED VALUE ±<br>Tolerancia: | UDS.              | LEVEL/CLASS               | OBSERVATIONS                         |                |
|---|---|---------------|---------------------------------|-------------------|---------------------------|--------------------------------------|----------------|
| Width   | b   | EN 822        | 1200±7,5                        | mm                | --                        | --                                   |                |
| Length  | l   | EN 822        | 2500±10                         | mm                | --                        | --                                   |                |
| Thickness   | d   | EN 823        | 30±2                            | mm                | T2                        | --                                   |                |
|   |   |               | 40±2                            |                   |                           |                                      |                |
|   |   |               | 50±3                            |                   |                           |                                      |                |
|   |   |               | 60±3                            |                   |                           |                                      |                |
|   |   |               | 80+5,-3                         |                   |                           |                                      |                |
| 100+5,-3  |   |               |                                 |                   |                           |                                      |                |
| Rectangularity  | S <sub>b</sub>  | EN 824        | <5                              | mm/m              | --                        | At length and width                  |                |
| Flatness  | S <sub>máx.</sub>                                     | EN 825        | ≤10                             | mm                | --                        | At length                            |                |
| Thermal conductivity  | λ <sub>D</sub>  | EN 12667      | 0,027                           | W/mK ó<br>W/m°C   | --                        | THICK. ≤ 70mm                        |                |
|   |   |               | 0,026                           |                   |                           | THICK. > 70mm                        |                |
| Thermal resistance  | R <sub>D</sub>  | EN 12667      | 1,45                            | m²K/W ó<br>m²°C/W | --                        | THICK. = 40 mm                       |                |
|   |   |               | 1,85                            |                   |                           | THICK. = 50 mm                       |                |
|   |   |               | 2,20                            |                   |                           | THICK. = 60 mm                       |                |
|   |   |               | 3,05                            |                   |                           | THICK. = 80 mm                       |                |
|   |   |               | 3,85                            |                   |                           | THICK. = 100 mm                      |                |
| Dimensional stability (under specific conditions of RH and T <sup>a</sup> ) (1) and (2) | Δ <sub>εL</sub><br>Δ <sub>εb</sub><br>Δ <sub>εd</sub> | EN 1604       | Δ <sub>εL</sub> ≤2 (4) ≤0,5 (5) | %                 | DS (70,90)3<br>DS(-20,-)2 | THICK. < 80 mm                       |                |
|   |   |               | Δ <sub>εb</sub> ≤2 (4) ≤0,5 (5) |                   |                           |                                      |                |
|   |   |               | Δ <sub>εd</sub> ≤6 (4) ≤2,0 (5) |                   |                           |                                      |                |
|   |   |               | Δ <sub>εL</sub> ≤1 (4) ≤0,5 (5) |                   |                           | DS (70,90)4<br>DS(-20,-)2            | THICK. ≥ 80 mm |
|   |   |               | Δ <sub>εb</sub> ≤1 (4) ≤0,5 (5) |                   |                           |                                      |                |
|   |   |               | Δ <sub>εd</sub> ≤4 (4) ≤2,0 (5) |                   |                           |                                      |                |
| Compression tens.   | σ <sub>10</sub>                                       | EN 826        | ≥120                            | kPa               | CS(10/Y)120               | At 10% defor.                        |                |
| Tensile strength  | σ <sub>mt</sub>                                       | EN 1607       | ≥100                            | kPa               | TR100                     | Perp. to faces                       |                |
| Water absorption  | W <sub>t</sub>  | EN 12087      | ≤2                              | %                 | WL(T)2                    | --                                   |                |
| Resist. water vapour  | Z   | EN 12086      | 62                              | hm²Pa/mg          | Z62                       | Glass vei →50%HR<br>C. Oxyasf. →0%HR |                |
| Reaction to fire  | --  | EN 13501-1    | B-s2, d0                        | --                | --                        | THICK. ≤ 80 mm                       |                |
|   |   |               | B-s3, d0                        |                   |                           | THICK. > 80 mm                       |                |
| Emis. dange. subst.   | TVOC  | ISO 16000-6   | <1000                           | µg/m³             | A+                        | --                                   |                |
| Density   |   |               | 32 ± 3                          | Kg/m³             |                           | All thicknesses                      |                |

(1) (48±1) h at (70±2) °C and (90±5) %HR

(2) (48±1) h at (-20±3) °C

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