

# IzoRoof PIR

## Roof panel with polyisocyanurate core.

- ① Profiled lining with a unique surface design.
- ② Large lining bend radius guarantees durability of the protective layer.
- ③ Seamless polyurethane seal applied during production guarantees joint tightness.
- ④ Capillary action preventing chamber.
- ⑤ Core made of stiff, freon-free, self-extinguishing PIR foam with very good thermal insulation properties.
- ⑥ Profiled edges guarantee tightness of joint.
- ⑦ Protecting strip prevents diffusion, water and gas infiltration and steam penetration into the insulating core.


Suitable for roofs of industrial buildings: production halls, storage buildings, commercial halls, shopping centres, farm buildings.

**PIR core** - stiff polyisocyanurate, thermal conductivity rating  $\lambda = 0,021 \text{ W/m} \cdot \text{K}$ , improved burning behaviour and higher density  $\rho = 40 \pm 3 \text{ kg/m}^3$ .

Steel sheet lining, anticorrosive protection depending on the intended use.

| <b>Mechanical properties</b>               |   |       |       |       |       |       |
|--|---|-------|-------|-------|-------|-------|
| thickness                                  | 60  | 80    | 100   | 120   | 140   | 160   |
| modular width [mm]                         | 1080  |       |       |       |       |       |
| total width [mm]                           | modular width +74 mm                                    |       |       |       |       |       |
| length [mm]                                | 2000-16000*   |       |       |       |       |       |
| mass 0,4/0,5 [kg/m <sup>2</sup> ]          | 10,2  | 11,0  | 11,8  | 12,6  | 13,4  | 14,2  |
| mass 0,5/0,5 [kg/m <sup>2</sup> ]          | 11,1  | 11,9  | 12,7  | 13,5  | 14,3  | 15,1  |
| <b>Insulating power</b>                    |   |       |       |       |       |       |
| U [W/m <sup>2</sup> K]                     | 0,34  | 0,25  | 0,20  | 0,17  | 0,15  | 0,13  |
| <b>Burning behaviour</b>                   |   |       |       |       |       |       |
| fire resistance                            | -   | REI15 | REI15 | REI15 | REI15 | REI15 |
| reaction to fire                           | B-s2, d0  |       |       |       |       |       |
| reaction to external fire                  | B <sub>ROOF</sub> (t <sub>1</sub> )                     |       |       |       |       |       |
| fire propagation                           | NRO   |       |       |       |       |       |
| <b>Acoustic properties</b>                 |   |       |       |       |       |       |
| <b>acoustic resistance coefficient:</b>    |   |       |       |       |       |       |
| R <sub>w</sub> [dB]                        | 26  |       |       |       |       |       |
| R <sub>A1</sub> [dB]                       | 24  |       |       |       |       |       |
| R <sub>A2</sub> [dB]                       | 21  |       |       |       |       |       |
| acoustic absorption coefficient $\alpha_w$ | 0,15  |       |       |       |       |       |
| <b>Leakproofness</b>                       |   |       |       |       |       |       |
| air permeability                           | Perfect leakproofness at pressure difference -50/+50 Pa |       |       |       |       |       |
| blowing rain resistance                    | A class - perfect leakproofness at 1200 Pa              |       |       |       |       |       |

\* non-standard lengths to be agreed with the production department

Panels are manufactured in accordance with PN-EN 14509:2010 and have the  mark.