



# IzoRoof EPS

Roof sandwich panel with expanded polystyrene core. High surface profile.

- ① Profiled lining with a unique surface design.
- ② Large lining bend radius guarantees durability of the protective coating.
- ③ Profiled edges guarantee tightness of joint.
- ④ Capillary action preventing chamber.
- ⑤ EPS core.

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

**EPS core** - expanded polystyrene,  $\lambda = 0,040 \text{ W/m}^2\text{K}$ .

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

| <b>Mechanical properties</b>               |   |      |      |      |      |      |      |      |      |      |      |      |
|--|---|------|------|------|------|------|------|------|------|------|------|------|
| thickness                                  | 60*   | 75*  | 80   | 100* | 120  | 125* | 140  | 150* | 160  | 175  | 200* | 250* |
| modular width [mm]                         | 1080  |      |      |      |      |      |      |      |      |      |      |      |
| total width [mm]                           | modular width +74 mm  |      |      |      |      |      |      |      |      |      |      |      |
| length [mm]                                | 2000 - 15000**  |      |      |      |      |      |      |      |      |      |      |      |
| weight 0,5/0,4 [kg/m <sup>2</sup> ]        | 8,8   | 9,0  | 9,1  | 9,4  | 9,7  | 9,7  | 10,0 | 10,2 | 10,3 | 10,5 | 10,9 | 11,7 |
| weight 0,5/0,5 [kg/m <sup>2</sup> ]        | 9,7   | 9,9  | 10,0 | 10,3 | 10,6 | 10,7 | 10,9 | 11,0 | 11,2 | 11,4 | 11,8 | 12,5 |
| <b>Insulating power</b>                    |   |      |      |      |      |      |      |      |      |      |      |      |
| U [W/m <sup>2</sup> K]                     | 0,61  | 0,50 | 0,47 | 0,38 | 0,32 | 0,31 | 0,28 | 0,26 | 0,24 | 0,22 | 0,19 | 0,16 |
| <b>Burning behaviour</b>                   |   |      |      |      |      |      |      |      |      |      |      |      |
| reaction to fire                           | -   |      |      |      |      |      |      |      |      |      |      |      |
| fire propagation                           | B <sub>ROOF</sub> (t <sub>1</sub> )   |      |      |      |      |      |      |      |      |      |      |      |
| <b>Acoustic properties</b>                 |   |      |      |      |      |      |      |      |      |      |      |      |
| <b>acoustic resistance coefficient:</b>    |   |      |      |      |      |      |      |      |      |      |      |      |
| R <sub>w</sub> [dB]                        | NPD   |      |      |      |      |      |      |      |      |      |      |      |
| R <sub>A1</sub> [dB]                       | NPD   |      |      |      |      |      |      |      |      |      |      |      |
| R <sub>A2</sub> [dB]                       | NPD   |      |      |      |      |      |      |      |      |      |      |      |
| acoustic absorption coefficient $\alpha_w$ | -   |      |      |      |      |      |      |      |      |      |      |      |
| <b>Leakproofness</b>                       |   |      |      |      |      |      |      |      |      |      |      |      |
| Air permeability                           | $\leq 1,5 \text{ m}^3/\text{h}^*\text{m}^2$ at pressure difference of 50 Pa |      |      |      |      |      |      |      |      |      |      |      |
| Blowing rain resistance                    | A class - absolute leakproofness at 1,200 Pa                                |      |      |      |      |      |      |      |      |      |      |      |

\* AT-15- 5340/2014 applies to sandwich panels with panel thickness of: 50, 60, 75, 100, 125, 150, 200, 250 [mm]

\*\* maximum length depending on the panel colour – see the "Tips for colour selection" section

Sandwich panels are manufactured according to Technical Approval AT-15-5340-2014