



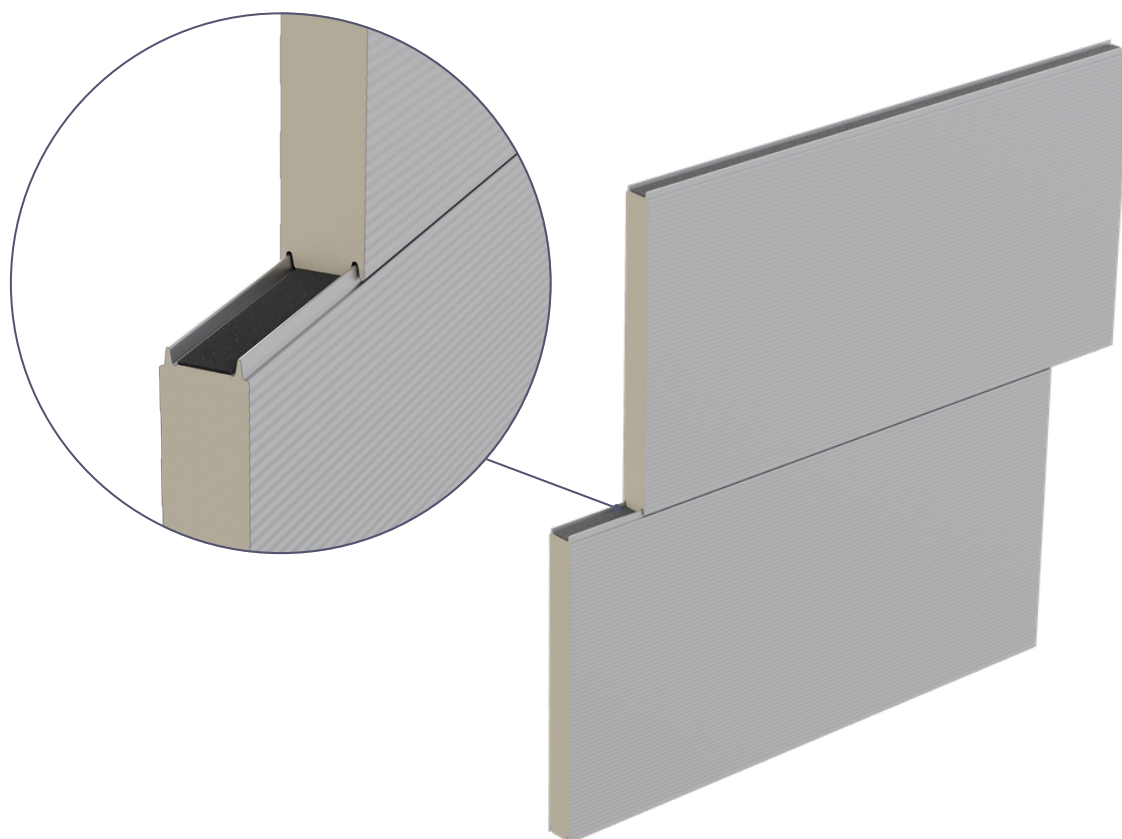
PRODUCT DATA SHEET

Wall sandwich panel

ARPANEL S PIR

- standard fastening system



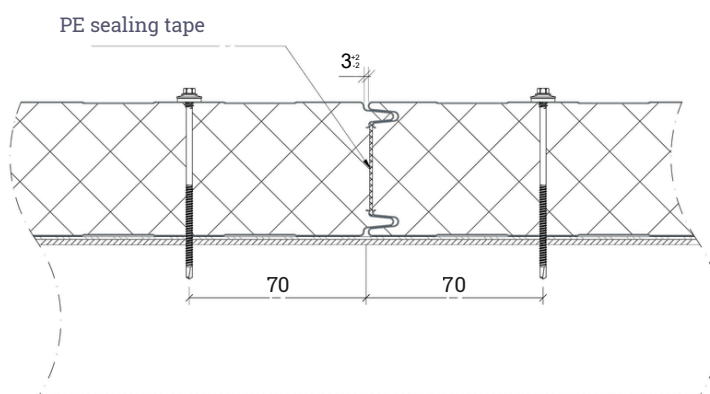


CROSS SECTION

Width: 1 000, 1 100, 1150 mm



D = 60, 80, 100 mm





PARAMETERS

Core thickness [mm]	60	80	100
External facing thickness [mm]	0,5-0,7		
Internal facing thickness [mm]	0,4-0,7		
Core density	40 ± 3% kg/m ³		
Weight [kg/ m ²]	10,4	11,2	11,9
Proper acoustic insulation [Rw(C,Ctr) dB]	25 (-2,-4)		
Sound absorption [αw]	0,15		
Heat transfer coefficient Ud,S = W/(m ² x K)	0,37	0,27	0,22
Reaction to fire	B-s1,d0		
Fire spread according to PN-B-02867	NRO		

Installation details are available in the fire classifications of ARPANEL sandwich panels.

INTERNAL WALL			
Core thickness [mm]	60	80	100
Fire resistance according to EN 13501-2 vertical	EI 15 $\leq 4 \text{ m}^{(1)}$		E 20 / EI 20 / EW 20 $\leq 7,5 \text{ m}^{(2)}$ E 30 / EI 30 / EW 30 $\leq 3 \text{ m}^{(2)}$
Fire resistance according to EN 13501-2 horizontal	NPD	E 20 / EI 20 / EW 20 $\leq 4 \text{ m}^{(1)}$	E 20 / EI 20 / EW 20 $\leq 7,5 \text{ m}^{(1)}$ E 30 / EI 30 / EW 30 $\leq 4 \text{ m}^{(1)}$

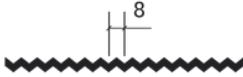
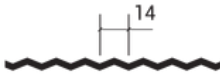
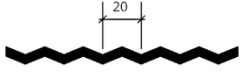
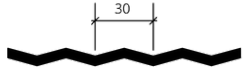
EXTERNAL WALL			
Core thickness [mm]	60	80	100
Fire resistance according to EN 13501-2 vertical	E 15 (i $\leftrightarrow$ o) / EI 15 (i $\leftrightarrow$ o) $\leq 4 \text{ m}^{(1)}$		E 20 (i $\rightarrow$ o) / EI 20 (i $\rightarrow$ o) / EW 20 (i $\rightarrow$ o) $\leq 7,5 \text{ m}^{(2)}$ E 30 (i $\rightarrow$ o) / EI 30 (i $\rightarrow$ o) / EW 30 (i $\rightarrow$ o) $\leq 3 \text{ m}^{(2)}$
Fire resistance according to EN 13501-2 horizontal	NPD	E 20 (o $\leftrightarrow$ i) / EI 20 (o $\leftrightarrow$ i) / EW 20 (o $\leftrightarrow$ i) $\leq 4 \text{ m}^{(1)}$	E 20 (o $\leftrightarrow$ i) / EI 20 (o $\leftrightarrow$ i) / EW 20 (o $\leftrightarrow$ i) $\leq 7,5 \text{ m}^{(1)}$ E 30 (o $\leftrightarrow$ i) / EI 30 (o $\leftrightarrow$ i) / EW 30 (o $\leftrightarrow$ i) $\leq 4 \text{ m}^{(1)}$

CEILING			
Core thickness [mm]	60	80	100
Fire resistance according to PN-EN 13501-2:2016 ceiling	EI 15 (a $\leftarrow$ b) $\leq 1,7 \text{ m}^{(1)}$		EI 30 (a $\leftarrow$ b) $\leq 2 \text{ m}^{(2)}$ EI 15 (a $\leftarrow$ b) $\leq 5,85 \text{ m}^{(2)}$

⁽¹⁾ To maintain the declared fire resistance classification, a fire-resistant sealant must be used.

⁽²⁾ To achieve the specified fire resistance rating, an EPDM gasket must be installed in the panel joint on the external side.

PROFILES

Name	external	internal	cross-section
Micro 8	✓	✗	
Micro 14	✓	✗	
Linear	✓	✓	
Smooth	✓	✓	
Micro 20	✗	✓	
Micro 30	✓	✗	

TYPES OF STANDARD COATINGS

Polyester – PE

*Other types of coatings, e.g. PVDF, PUR PA, HDX, PRISMA, FOODSAFE, HPS, SDP, are available upon request.

ENVIRONMENT IN CASE OF A STANDARD COATING, POLYESTER – PE

A possibility to apply inside, in environments A1, A2, A3 and outside buildings C1, C2, C3.

*For environments characterized by higher aggressiveness, a coating that meets the requirements of a given corrosivity category should be selected.

STANDARD COLORS



AVAILABLE LENGTHS OF PANELS

Standard lengths of panels are from 2,0 m to 18,5 m.

PERMISSIBLE DEVIATIONS FROM DIMENSIONS

According to EN 14509:

Panels with length of ≤ 3 m ± 5 mm

Panels with length of > 3 m ± 10 mm

For the covering width of the sandwich panel, ± 2 mm

At the panel thickness:

For $D \leq 100$ mm ± 2 mm

For $D > 100$ mm ± 2 %

Rectangularity of cut at the length $\leq 0,6$ % of the panel width

Panel:

2 mm per each meter of length, but not more than 20 mm

8,5 mm per each meter of width, but not more than 10 mm

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