

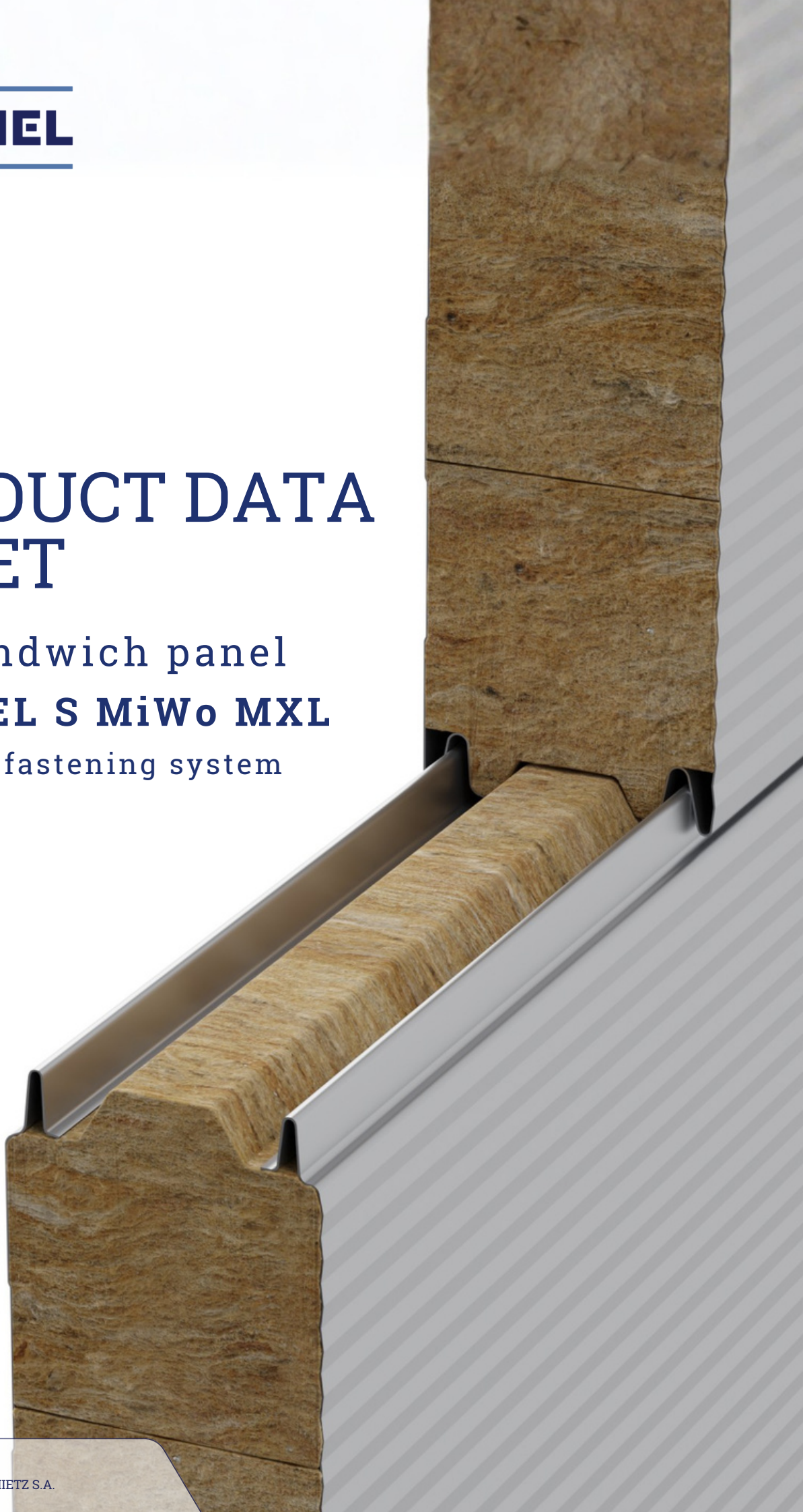


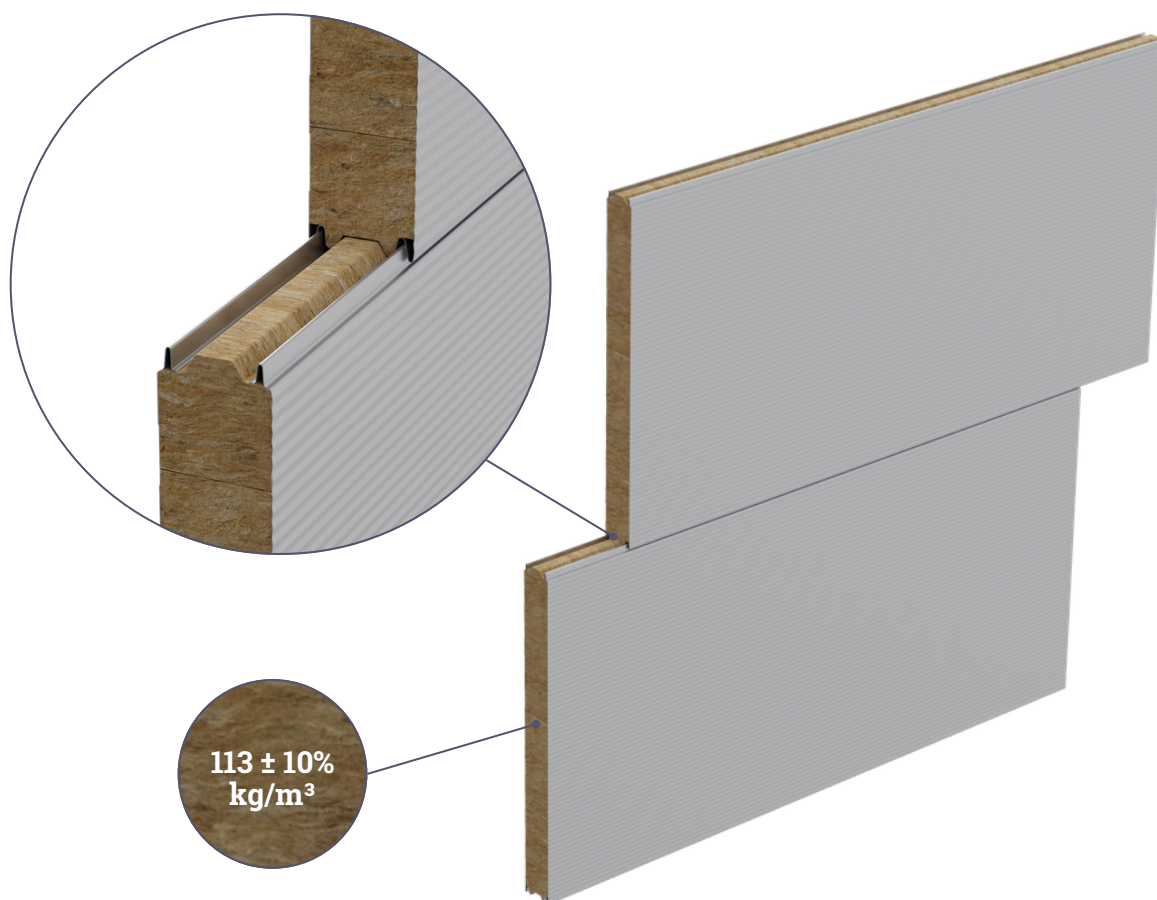
PRODUCT DATA SHEET

Wall sandwich panel

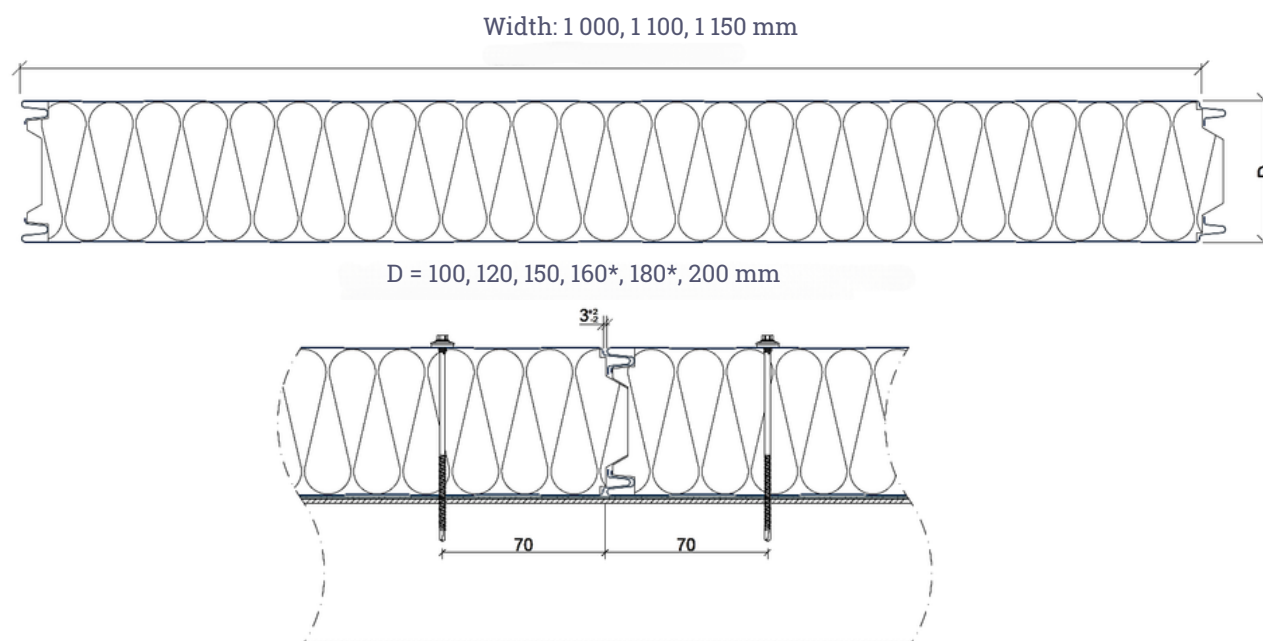
ARPANEL S MiWo MXL

- standard fastening system





CROSS SECTION



*The 160 and 180 mm thickness are produced on special order after consultation with the manufacture.

PARAMETERS

Core thickness [mm]	100	120	150	160	180	200
External facing thickness [mm]	0,5 -0,7					
Internal facing thickness [mm]	0,5 -0,7					
Core density	113 ± 10% kg/m³					
Weight [kg/ m²]	20,3	22,6	26,1	27,2	29,5	31,8
Proper acoustic insulation [Rw(C,Ctr) dB]	31 (-1,-3)	31 (-2,-3)				
Sound absorption [αw]	0,15					
Heat transfer coefficient Ud,S = W/(m2 x K)	0,40	0,33	0,27	0,25	0,22	0,20
Reaction to fire	A2-s1,d0					
Fire spread according to PN-B-02867	NRO					

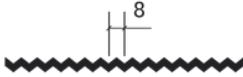
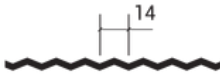
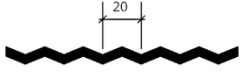
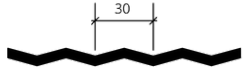
Installation details are available in the fire classifications of ARPANEL sandwich panels.

INTERNAL WALL						
Core thickness [mm]	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	E 90 / EI 60 $\leq 7,5 \text{ m}^{(1)}$ E 120 / EI 60 $\leq 4 \text{ m}^{(1)}$	E 90 / EI 90 / EW 90 $\leq 7,5 \text{ m}$ E 120 / EI 120 / EW 120 $\leq 4 \text{ m}$	E 180 / EI 180 $\leq 7,5 \text{ m}^{(1)}$ E 240 / EI 240 $\leq 4 \text{ m}^{(1)}$			
Fire resistance according to EN 13501-2 horizontal	E 90 / EI 60 / EW 90 $\leq 7,5 \text{ m}$ E 90 / EI 90 / EW 90 $\leq 6 \text{ m}$ E 120 / EI 90 / EW 120 $\leq 4 \text{ m}$	E 120 / EI 120 / EW 120 $\leq 7,5 \text{ m}$ E 180 / EI 120 / EW 180 $\leq 4 \text{ m}$	EI 120 / EW 180 $\leq 7,5 \text{ m}^{(1)}$ EI 180 / EW 180 $\leq 6 \text{ m}^{(1)}$		E 90 / EI 90 $\leq 10 \text{ m}$ E 120 / EI 120 $\leq 8 \text{ m}$ E 180 / EI 180 / EW 180 $\leq 7,5 \text{ m}$ E 240 / EI 240 / EW 240 $\leq 4 \text{ m}$	

EXTERNAL WALL						
Core thickness [mm]	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	E 90 (o↔i) / EI 60 (o↔i) $\leq 7,5 \text{ m}^{(1)}$ E 120 (o↔i) / EI 60 (o↔i) $\leq 4 \text{ m}^{(1)}$	E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i) $\leq 7,5 \text{ m}$ E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) $\leq 4 \text{ m}$	E 180 / EI 180 (o↔i) $\leq 7,5 \text{ m}^{(1)}$ E 240 / EI 240 (o↔i) $\leq 4 \text{ m}^{(1)}$			
Fire resistance according to EN 13501-2 horizontal	E 90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i) $\leq 7,5 \text{ m}$ E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i) $\leq 6 \text{ m}$ E 120 (o↔i) / EI 90 (o↔i) / EW 120 (o↔i) $\leq 4 \text{ m}$	E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) $\leq 7,5 \text{ m}$ E 180 (o↔i) / EI 120 (o↔i) / EW 180 (o↔i) $\leq 4 \text{ m}$	EI 120 (o↔i) / EW 180 (o↔i) $\leq 7,5 \text{ m}^{(1)}$ EI 180 (o↔i) / EW 180 (o↔i) $\leq 6 \text{ m}^{(1)}$		E 90 (i→o) / EI 90 (i→o) $\leq 10 \text{ m}^{(2)}$ E 120 (i→o) / EI 120 (i→o) $\leq 8 \text{ m}^{(2)}$ E 180 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) $\leq 7,5 \text{ m}^{(3)}$ E 240 (o↔i) / EI 120 (o↔i) / EW 240 (o↔i) $\leq 4 \text{ m}^{(3)}$	

⁽¹⁾ To maintain the declared fire resistance classification, a fire-resistant sealant must be used.⁽²⁾ To maintain the declared fire resistance classification, an EPDM gasket must be installed on the external side of the panel joint.⁽³⁾ To maintain the declared fire resistance classification, an intumescent gasket must be used.

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 14,5 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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