ARPANEL

PRODUCT DATA SHEET

Wall sandwich panel

ARPANEL S MiWo

-standard fastening system

EDITION 3/2026

PRODUCT DATA SHEET

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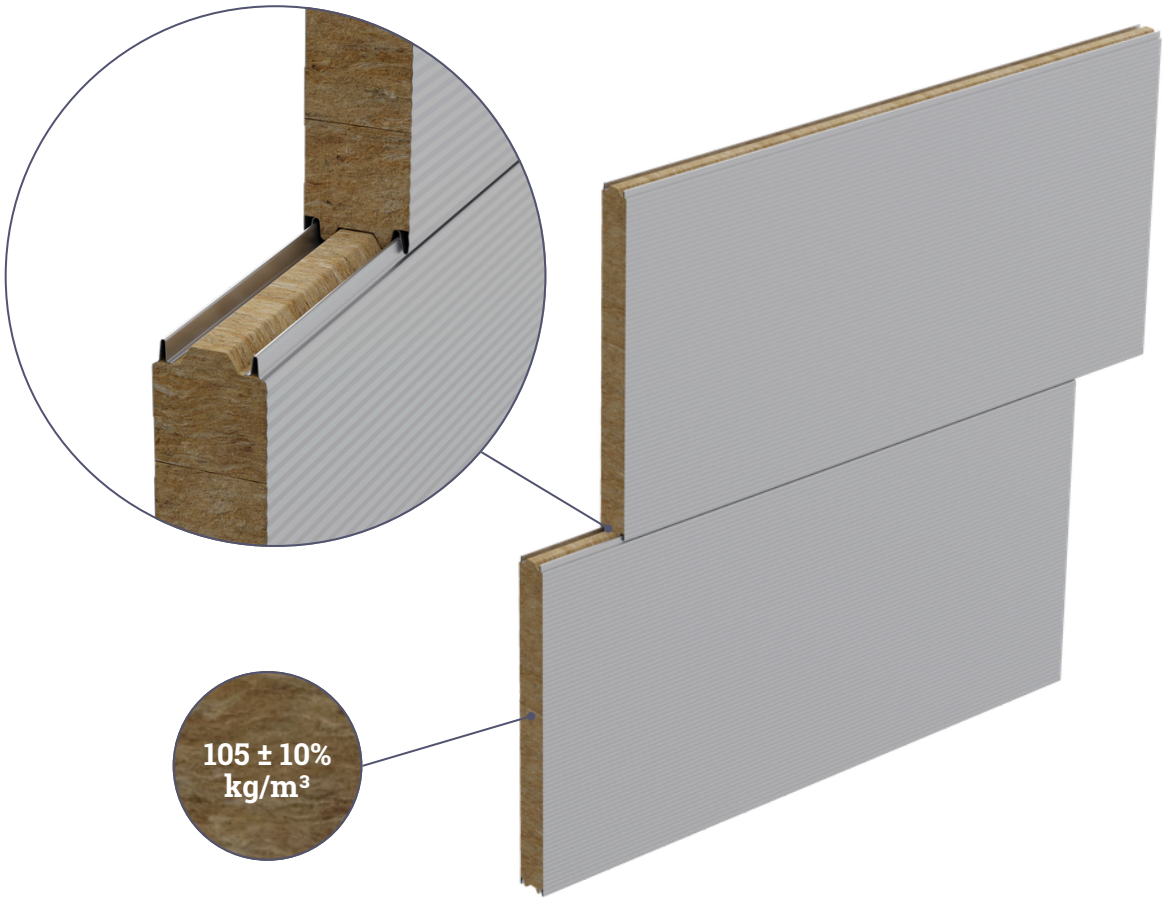
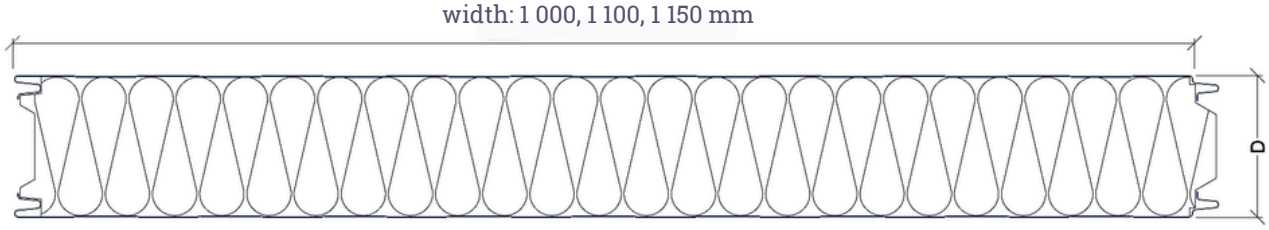
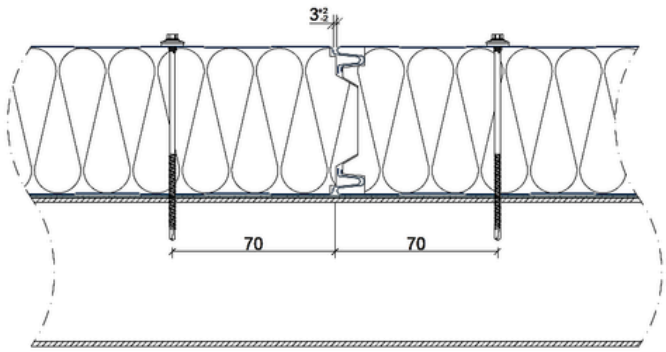


CROSS SECTION



D = 80, 100, 120, 150, 160, 180, 200, 220*, 242* mm



*The 220 mm and 242 mm thickness are produced on special order after consultation with the manufacture

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PARAMETERS

Core thickness	80	100	120	150	160	180	200	220	242
External facing thickness [mm]	0,5 -0,7								
GInternal facing thickness [mm]	0,5 -0,7								
Core density	105 ± 10% kg/m³								
Weight [kg/ m²]	17,5	19,6	21,8	25,0	26,1	28,3	30,4	32,6	35,0
Proper acoustic insulation Rw(C,Ctr) [dB]	30 (-1,-2)	32 (-1,-3)		32 (-2,-4)		32 (-3,-5)	31 (-1,-3)		
Sound absorption [αw]	0,15								
Heat transfer coefficient Ud,S = W/(m2 x K)	0,48	0,39	0,32	0,26	0,24	0,22	0,20	0,18	0,16
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..

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INTERNAL WALLS			
Core thickness	80	100	120
Fire resistance according to EN 13501-2 vertical	E 45 / EI 45 / EW 45 ≤ 7,5 m[1] E 60 / EI 60 / EW 60 ≤ 4 m[1]	E 90 / EI 60 ≤ 7,5 m[1] E 120 / EI 60 ≤ 4 m[1]	E 90 / EI 90 / EW 90 ≤ 7,5 m E 120 / EI 120 / EW 120 ≤ 4 m
Fire resistance according to EN 13501-2 horizontal	E 45 / EI 45 / EW 45 ≤ 7,5 m E 60 / EI 45 / EW 60 ≤ 6 m E 60 / EI 60 / EW 60 ≤ 4 m	E 90 / EI 60 / EW 90 ≤ 7,5 m E 90 / EI 90 / EW 90 ≤ 6 m E 120 / EI 90 / EW 120 ≤ 4 m	E 120 / EI 120 / EW 120 ≤ 7,5 m E 120 / EI 180 / EW 180 ≤ 4 m

EXTERNAL WALLS			
Core thickness	80	100	120
Fire resistance according to EN 13501-2 vertical	E 45 (o↔i) / EI 45 (o↔i) / EW 45 (o↔i) ≤ 7,5 m[1] E 60 (o↔i) / EI 60 (i↔o) / EW 60 (i↔o) ≤ 4 m[1]	E 90 (o↔i) / EI 60 (o↔i) ≤ 7,5 m[1] E 120 (o↔i) / EI 60 (o↔i) ≤ 4 m[1]	E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i) ≤ 7,5 m E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) ≤ 4 m
Fire resistance according to EN 13501-2 horizontal	E 45 (o↔i) / EI 45 (o↔i) / EW 45 (o↔i) ≤ 7,5 m E 60 (o↔i) / EI 45 (i↔o) / EW 60 (i↔o) ≤ 6 m E 60 (o↔i) / EI 60 (i↔o) / EW 60 (i↔o) ≤ 4 m	E 90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i) ≤ 7,5 m E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i) ≤ 6 m E 120 (o↔i) / EI 90 (o↔i) / EW 120 (o↔i) ≤ 4 m	E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) ≤ 7,5 m E 180 (o↔i) / EI 120 (o↔i) / EW 180 (o↔i) ≤ 4 m

CEILING			
Core thickness	80	100	120
Fire resistance according to EN 13501-2:2016 – ceiling	NPD	EI 15 (a←b) ≤ 6,15 m EI 30 (a←b) ≤ 4,7 m	EI 90 (a←b) ≤ 2,34 m EI 120 (a←b) ≤ 2 m

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

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INTERNAL WALL						
Core thickness	150	160	180	200	220	242
Fire resistance according to EN 13501-2 vertical	E 180 / EI 180 ≤ 7,5 m[1] E 240 / EI 240 ≤ 4 m[1]					
Fire resistance according to EN 13501-2 horizontal	EI 120 / EW 180 ≤ 7,5 m[1] EI 180 / EW 180 ≤ 6 m[1]					

EXTERNAL WALL						
Core thickness	150	160	180	200	220	242
Fire resistance according to EN 13501-2 vertical	E 180 / EI 180 (o↔i) ≤ 7,5 m[1] E 240 / EI 240 (o↔i) ≤ 4 m[1]					
Fire resistance according to EN 13501-2 horizontal	EI 120 (o↔i) / EW 180 (o↔i) ≤ 7,5 m[1] EI 180 (o↔i) / EW 180 (o↔i) ≤ 6 m[1]					

CEILING						
Core thickness	150	160	180	200	220	242
Fire resistance according to EN 13501-2:2016 ceiling	EI 90 (a←b) ≤ 2,34 m EI 120 (a←b) ≤ 2 m					

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

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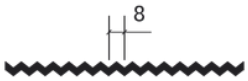
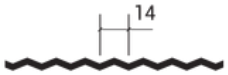
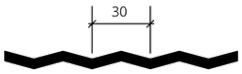
PROFILES

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.

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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 ≤ 100 mm ±2 mm
For D > 100 mm ±2 %
Rectangularity of cut at the length ≤ 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