

The logo for AR PANEL, featuring the brand name in a bold, white, sans-serif font. The text is centered between two horizontal white lines that have a slight break in the middle, giving it a modern, architectural feel.

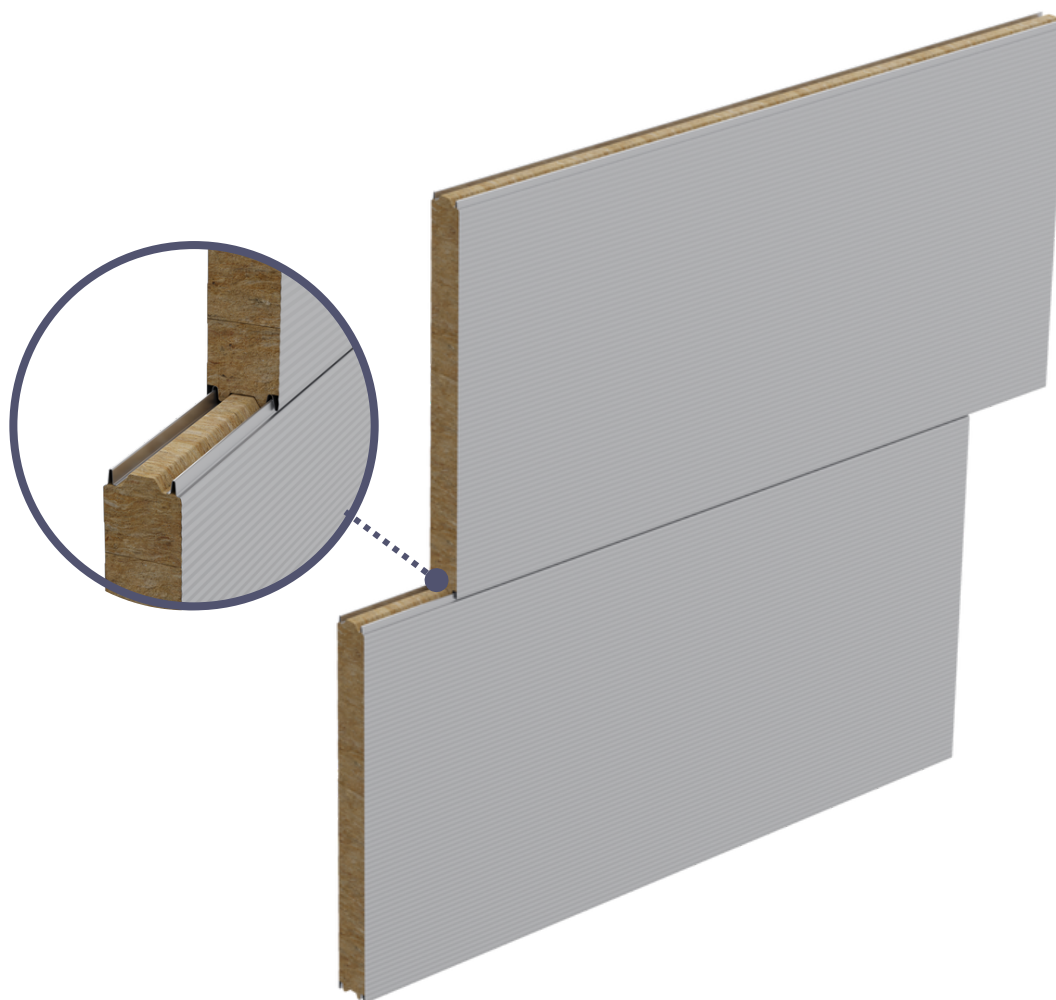
AR PANEL

PRODUCT DATA SHEET

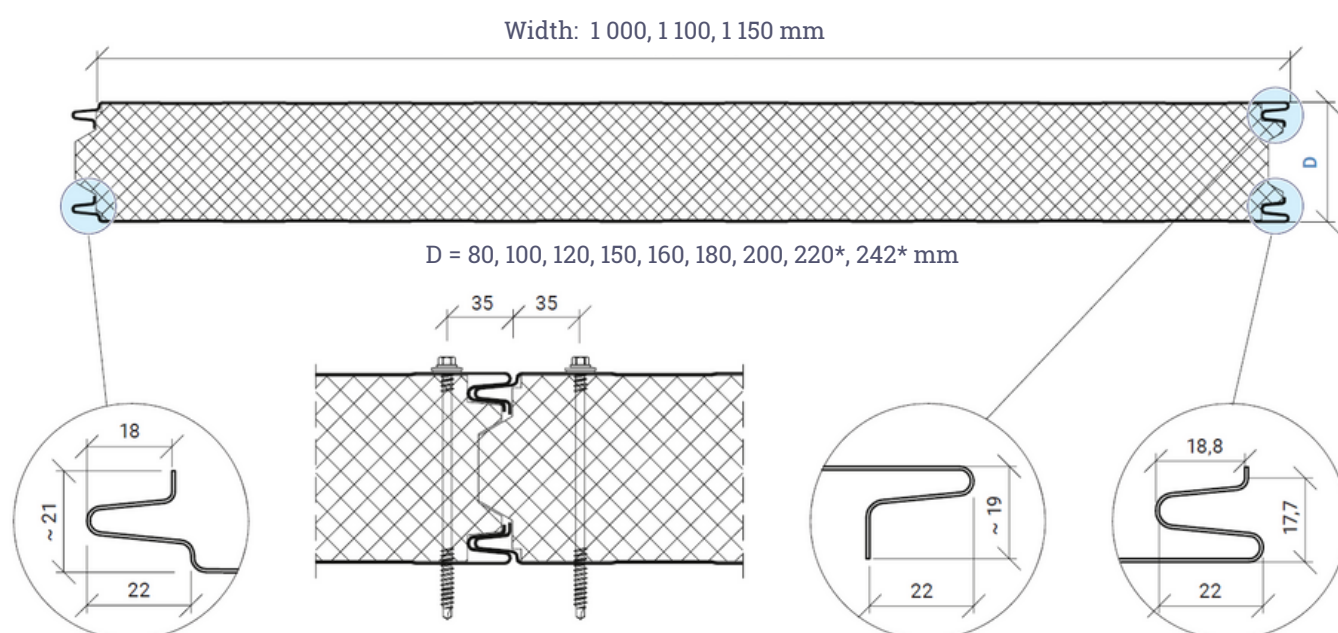
Wall sandwich panel

AR PANEL S MiWo

-standard fastening system



CROSS SECTION



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



PARAMETERS

Core thickness	80	100	120	150	160	180	200	220*	242*
External facing thickness [mm]	0,5 -0,7								
Internal facing thickness [mm]	0,5 -0,7								
Core density	105 ± 10% kg/m³								
Weight [kg/ m²]	17,5	19,6	21,8	25	26,1	28,3	30,4	32,6	35
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	0,2	0,18	0,16
Reaction to fire	A2-s1,d0								
Fire spread according to PN-B-02867	non-fire spreading								

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

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PARAMETERS

Core thickness	80	100	120
INTERNAL WALL			
Fire resistance according to EN 13501-2 vertical	E 45/ EI 45/ EW 45 ≤ 7,5 m E 60/ EI 60/ EW 60 ≤ 4 m	E 120/ EI 60 ≤ 4 m E 90/ EI 60 ≤ 7,5 m	E 120/ EI 120/ EW 120 ≤ 4 m E 90/ EI 90/ EW 90 ≤ 7,5 m
Fire resistance according to EN 13501-2 horizontal	E 60/ EI 60/ EW 60 ≤ 4 m E 60/ EI 45/ EW 60 ≤ 6 m E 45/ EI 45/ EW 45 ≤ 7,5m	E 60/ EI 60/ EW 60 ≤ 6 m E 45/ EI 45/ EW 45 ≤ 7,5 m	E 180/ EI 120/ EW 180 ≤ 4m E 120/ EI 120/ EW 120 ≤ 7,5m
EXTERNAL WALL			
Fire resistance according to EN 13501-2 vertical	E 45(i↔o)/ EI 45 (i↔o)/ EW 45 (i↔o) ≤ 7,5 m E 60 (o↔i)/ EI 60 (i↔o)/ EW 60 (i↔o) ≤ 4 m	E 120 (o↔i)/ EI 60 (o↔i) ≤ 4 m E 90 (o↔i)/ EI 60 (o↔i) ≤ 7,5 m	E 120 (o↔i)/ EI 120 (o↔i)/ EW 120 (o↔i) ≤ 4 m E 90 (o↔i)/ EI 90 (o↔i)/ EW 90 (o↔i) ≤ 7,5 m
Fire resistance according to EN 13501-2 horizontal	E 60 (o↔i)/ EI 60 (i↔o)/ EW 60 (i↔o) ≤ 4 m E 60 (o↔i)/ EI 45 (i↔o)/ EW 60 (i↔o) ≤ 6 m E 45 (i↔o)/ EI 45 (i↔o)/ EW 45 (i↔o) ≤ 7,5 m	E 60 (o↔i)/ EI 60 (o↔i)/ EW (o↔i) 60 ≤ 6 m E 45 (i↔o)/ EI 45 (i↔o)/ EW 45 (i↔o) ≤ 7,5 m	E 180 (o↔i)/ EI 120 (o↔i)/ EW 180 (o↔i) ≤ 4 m E 120 (o↔i)/ EI 120 (o↔i)/ EW 120 (o↔i) ≤ 7,5 m
CEILING			
Ogniodporność wg PN-EN 13501-2:2016 sufit	NPD	EI 30 (a←b) ≤ 4,7 m EI 15 (a←b) ≤ 6,15 m	EI 120 (a←b) ≤ 2 m EI 90 (a←b) ≤ 2,34 m

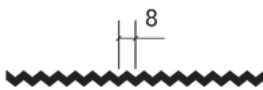
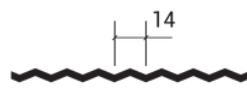
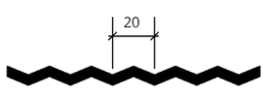
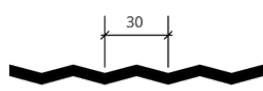


PARAMETERS

Core thickness	150	160	180	200	220*	242*
INTERNAL WALL						
Fire resistance according to EN 13501-2 vertical	E 240/ EI 240 ≤ 4 m E 180/ EI 180 ≤ 7,5 m					
Fire resistance according to EN 13501-2 horizontal	EI 180/ EW 180 ≤ 6 m EI 120/ EW 180 ≤ 7,5 m					
EXTERNAL WALL						
Fire resistance according to EN 13501-2 vertical	E 240/ EI 240 (o↔i) ≤ 4 m E 180/ EI 180 (o↔i) ≤ 7,5 m					
Fire resistance according to EN 13501-2 horizontal	EI 180 (o↔i)/ EW 180 (o↔i) ≤ 6 m EI 120 (o↔i)/ EW 180 (o↔i) ≤ 7,5 m					
CEILING						
Fire resistance according to EN 13501-2:2016 ceiling	EI 120 (a←b) ≤ 2 m EI 90 (a←b) ≤ 2,34 m					

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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

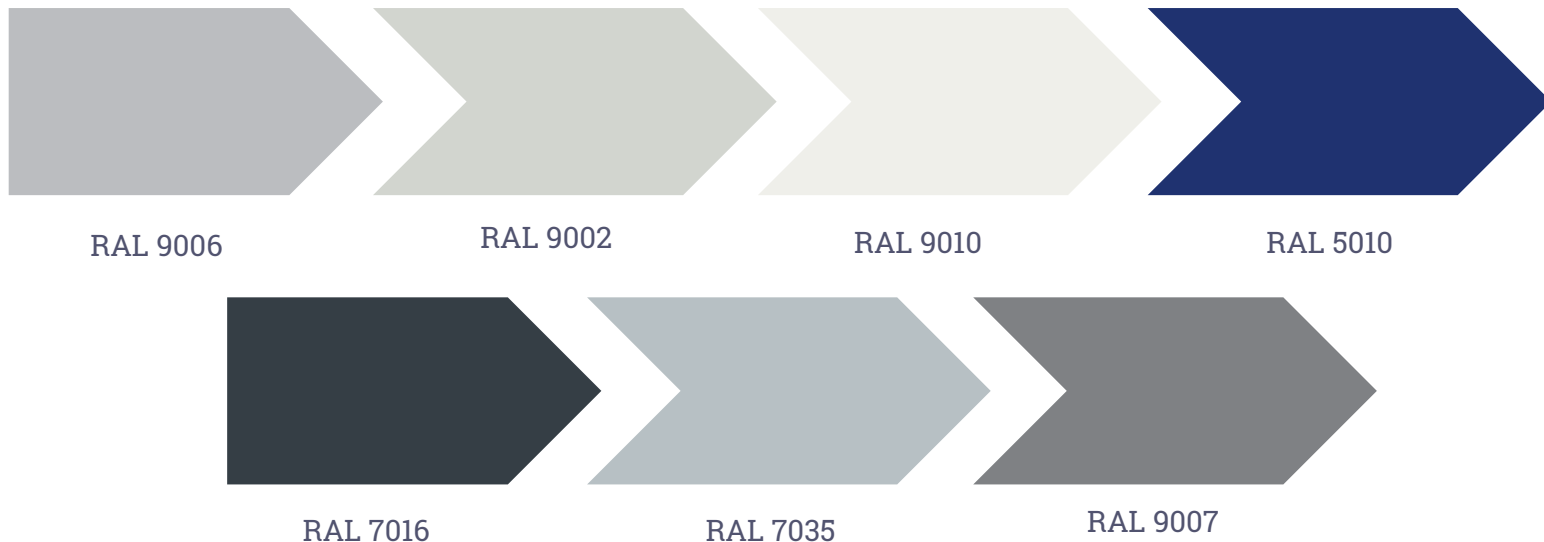
*Other types of coatings, e.g. PVDF, PUR PA, HDX, PRISMA, FOODSAFE, HPS, INOX, SDP, are available upon request.

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



Ask our representative about the availability of other standard colors of ARPANEL sandwich panels.

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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