



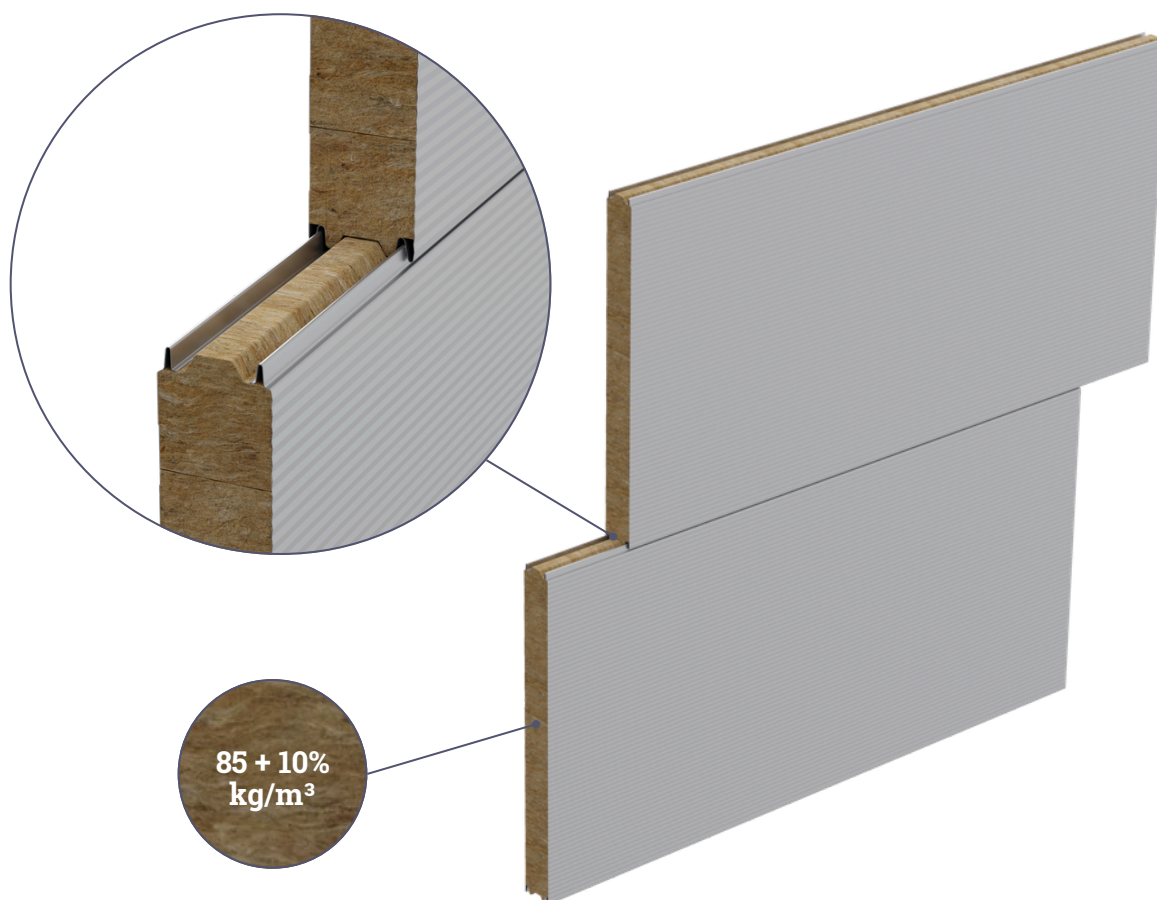
PRODUCT DATA SHEET

Wall sandwich panel

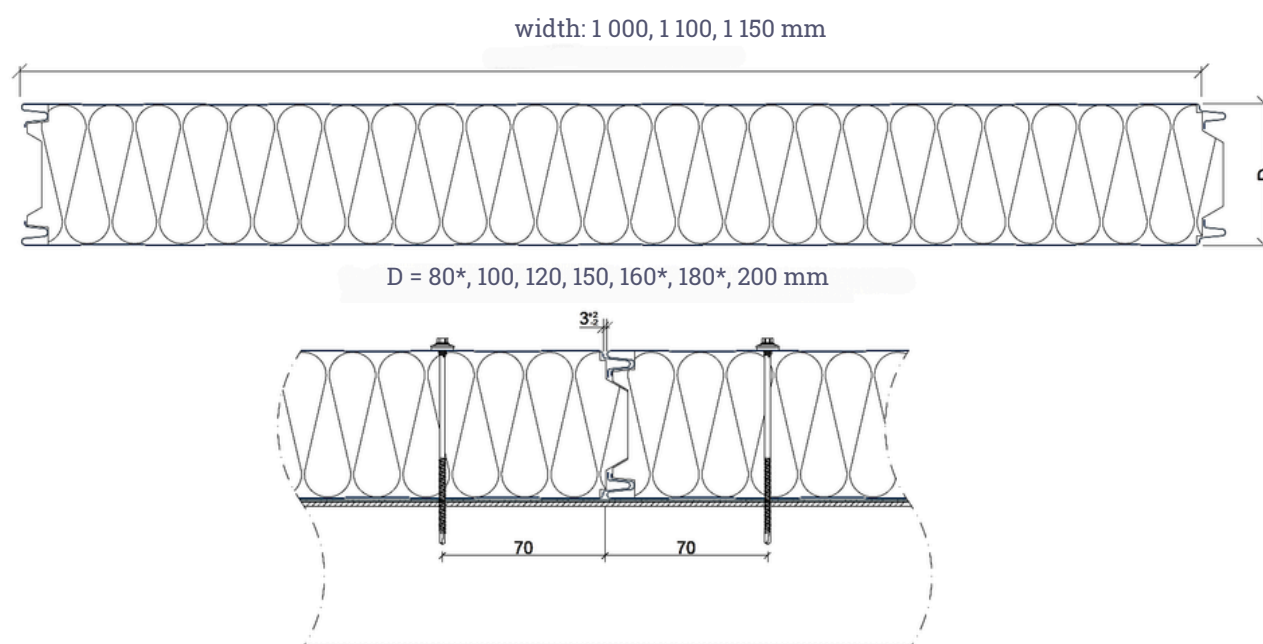
ARPANEL S MiWo Lt

- standard fastening system





CROSS SECTION



*The 80 mm, 160 mm and 180 mm thickness are produced on special order after consultation with the manufacturer.



PARAMETERS

Core thickness [mm]	80	100	120	150	160	180	200
External facing thickness [mm]	0,5 -0,7						
Internal facing thickness [mm]	0,5 -0,7						
Core density	85 + 10% kg/m ³						
Weight [kg/ m ²]	16,1	17,8	19,5	22	22,9	24,6	26,3
Proper acoustic insulation Rw(C,Ctr) [dB]	30 (-2,-3)						31 (-3,-4)
Sound absorption [α _w]	0,15						
Heat transfer coefficient U _{d,S} = W/(m ² x K)	0,46	0,37	0,31	0,25	0,23	0,21	0,19
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]	80	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	NPD						
Fire resistance according to EN 13501-2 horizontal	NPD		E 30/ EI 30/ EW 30 $\leq 7,5m$ E 45/ EI 30/ EW 45 $\leq 6m$ E 45/ EI 45/ EW 45 $\leq 4m$				E 120/ EI 90/ EW 120 $\leq 7,5m$ E 180/ EI 120/ EW 180 $\leq 4m$

EXTERNAL WALL							
Core thickness [mm]	80	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	NPD						
Fire resistance according to EN 13501-2 horizontal	NPD		E 30 (o↔i)/ EI 30 (o↔i) / EW 30 (o↔i) $\leq 7,5 m$ E 45 (o↔i)/ EI 30 (o↔i)/ EW 45 (o↔i) $\leq 6 m$ E 45 (o↔i)/ EI 45 (o↔i)/ EW 45 (o↔i) $\leq 4 m$				E 120 (o↔i)/ EI 90 (o↔i)/ EW 120 (o↔i) $\leq 7,5 m$ E 180 (o↔i)/ EI 120 (o↔i)/ EW 180 (o↔i) $\leq 4 m$

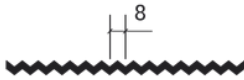
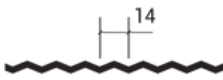
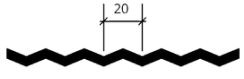
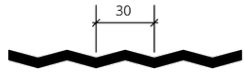
INTERNAL WALL*							
Core thickness [mm]	80	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	NPD	E 60 / EI 45 / EW 60 ≤ 7,5 m E 60 / EI 60 / EW 60 ≤ 6 m E 90 / EI 60 / EW 90 ≤ 4 m					
Fire resistance according to EN 13501-2 horizontal	NPD	E 90 / EI 60 / EW 90 ≤ 7,5m E 120 / EI 90 / EW 120 ≤ 4m	E 90 / EI 60 / EW 90 ≤ 7,5 m E 120 / EI 90 / EW 120 ≤ 6 m E 120 / EI 120 / EW 120 ≤ 4 m	E 120 / EI 120 / EW 120 ≤ 7,5 m E 180 / EI 120 / EW 180 ≤ 4 m	E 120 / EI 120 / EW 120 ≤ 7,5 m E 180 / EI 180 / EW 180 ≤ 4 m	E 120 / EI 120 / EW 120 ≤ 7,5 m E 180 / EI 120 / EW 180 ≤ 6 m E 180 / EI 180 / EW 180 ≤ 4 m	E 120 / EI 120 / EW 120 ≤ 7,5 m E 180 / EI 180 / EW 180 ≤ 6 m E 240 / EI 240 / EW 240 ≤ 4 m

EXTERNAL WALL*							
Core thickness [mm]	80	100	120	150	160	180	200
Fire resistance according to EN 13501-2 vertical	NPD	E 60 (o↔i) / EI 45 (o↔i) / EW 60 (o↔i) ≤ 7,5 m E 60 (o↔i) / EI 60 (o↔i) / EW 60 (o↔i) ≤ 6 m E 90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i) ≤ 4 m					
Fire resistance according to EN 13501-2 horizontal	NPD	E 90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i) ≤ 7,5 m E 120 (o↔i) / EI 90 (o↔i) / EW 120 (o↔i) ≤ 4 m	90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i) ≤ 7,5 m E 120 (o↔i) / EI 90 (o↔i) / EW 120 (o↔i) ≤ 6 m E 120 (o↔i) / EI 120 (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	E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) ≤ 7,5 m E 180 (o↔i) / EI 180 (o↔i) / EW 180 (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) ≤ 6 m E 180 (o↔i) / EI 180 (o↔i) / EW 180 (o↔i) ≤ 4 m	E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i) ≤ 7,5 m E 180 (o↔i) / EI 180 (o↔i) / EW 180 (o↔i) ≤ 6 m E 240 (o↔i) / EI 240 (o↔i) / EW 240 (o↔i) ≤ 4 m

*Maintaining the specified fire resistance performance requires the use of a fire protection tape.

According to fire resistance classification FIRES-CR-278-25-AURE, the specified parameters also apply to ARPANEL S MiWo and ARPANEL S MiWo MXL sandwich panels.

PROFILES

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

TYPES OF STANDARD COATINGS

Polyester – PE

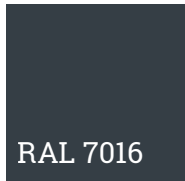
*Other types of coatings, e.g. PVDF, PUR PA, HDX, PRISMA, FOODSAFE, HPS, SDP, are available upon request.

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

						
RAL 9006	RAL 9002	RAL 9010	RAL 5010	RAL 7016	RAL 7035	RAL 9007

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 $\leq 3 \text{ m} \pm 5 \text{ mm}$

Panels with length of $> 3 \text{ m} \pm 10 \text{ mm}$

For the covering width of the sandwich panel, $\pm 2 \text{ mm}$

At the panel thickness:

For $D \leq 100 \text{ mm} \pm 2 \text{ mm}$

For $D > 100 \text{ mm} \pm 2 \%$

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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