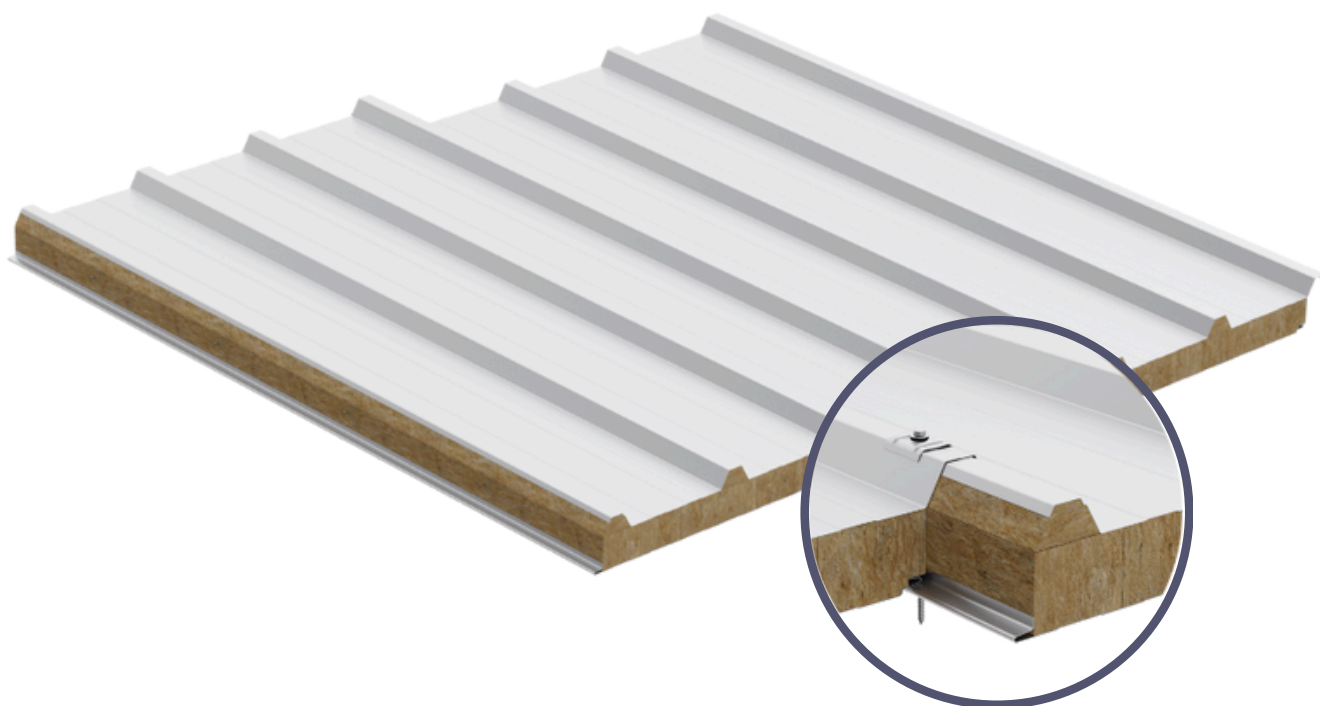


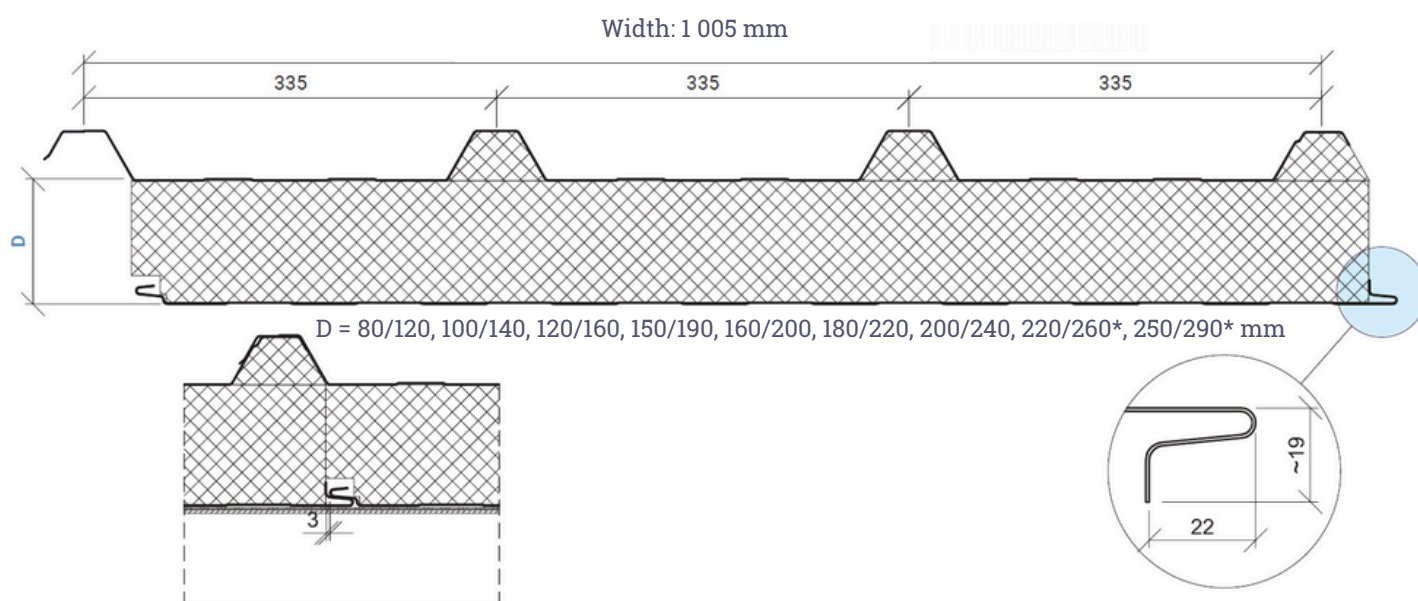
A detailed 3D cutaway illustration of a roof sandwich panel. The top layer is a grey, ribbed metal sheet. Below it is a thick, brown, fibrous insulation core. The bottom layer is another grey, ribbed metal sheet. A metal fastener with a hexagonal head is shown securing the top sheet to the insulation. A screw is shown passing through the bottom sheet. The background is a light blue-grey gradient.

PRODUCT DATA SHEET

Roof sandwich panel
AR PANEL D MiWo



CROSS SECTION



*The 220 mm and 250 mm thickness are produced on special order after consultation with the manufacturer.



PARAMETERS

Core thickness	80/120	100/140	120/160	150/190
External facing thickness [mm]	0,6 – 0,7			
Internal facing thickness [mm]	0,5 – 0,7			
Core density	105 ± 10% kg/m ³			
Weight [kg/ m ²]	18,7	20,9	23,1	26,3
Proper acoustic insulation [Rw(C,Ctr) dB]	30 (-1;-3)			
Sound absorption [αw]	0,2			
Heat transfer coefficient Ud,S = W/(m ² x K)	0,48	0,39	0,32	0,26
Reaction to fire	A2-s1,d0			
Fire spread through roofs according to EN 13501-5	Broof (t1)			Broof (t1), (t3)
Fire resistance according to EN 13501-2	not classified	RE 120/REI 90		




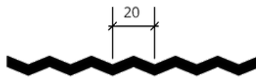
Installation details are available in the fire classifications of ARPANEL sandwich panels.



PARAMETERS

Core thickness	160/200	180/220	200/240	220/260	250/290
External facing thickness [mm]	0,6– 0,7				
Internal facing thickness [mm]	0,5 – 0,7				
Core density	105 ± 10% kg/m³				
Weight [kg/ m²]	27,4	29,6	31,8	33,9	37,2
Proper acoustic insulation [Rw(C,Ctr) dB]	30 (-1;-3)	31 (-1;-3)	NPD		
Sound absorption [αw]	0,2				
Heat transfer coefficient Ud,S = W/(m2 x K)	0,24	0,22	0,2	0,18	0,16
Reaction to fire	A2-s1,d0				
Fire spread through roofs according to EN 13501-5	Broof (t1)		Broof (t1), (t3)	Broof (t1)	
Fire resistance according to EN 13501-2	RE 120/REI 90				

PROFILES

Name	external	internal	cross-section
Trapezoid	✓	✗	
Linear	✗	✓	
Smooth	✗	✓	
Micro 20	✗	✓	

TYPES OF STANDARD COATINGS

Polyester – PE

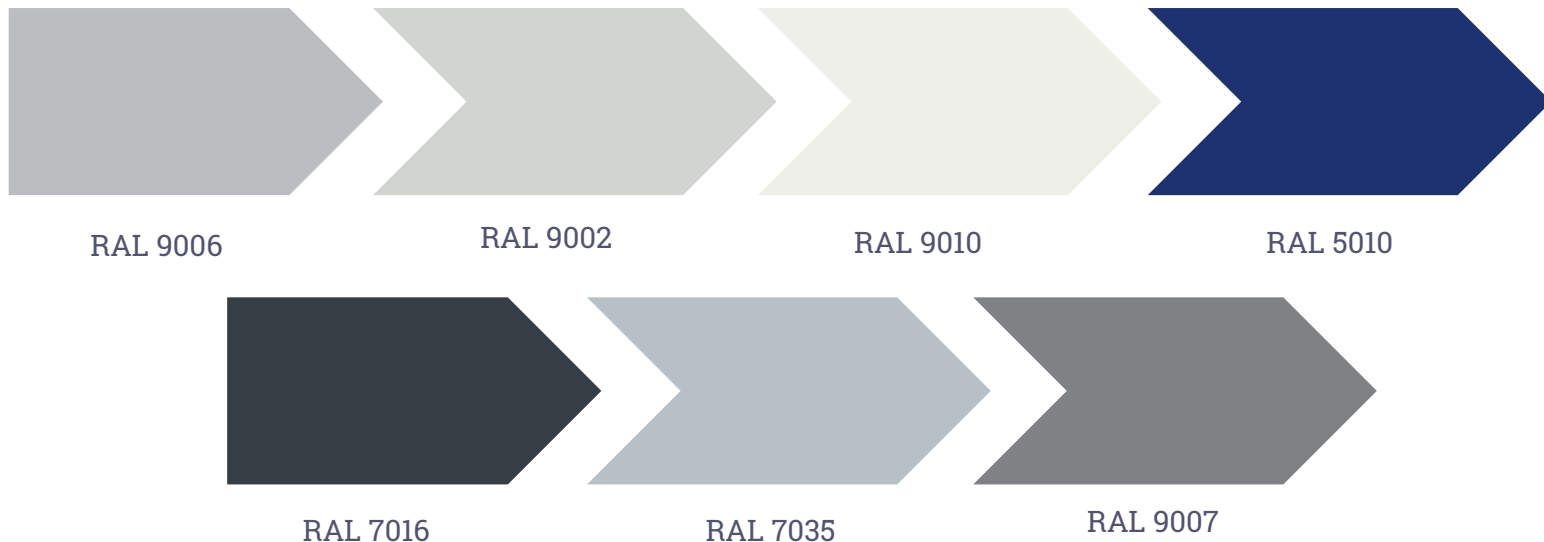
*Other types of coatings, e.g. PVDF, PUR PA, HDX, PRISMA, FOODSAFE, HPS, INOX, SDP, are available upon request.

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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