



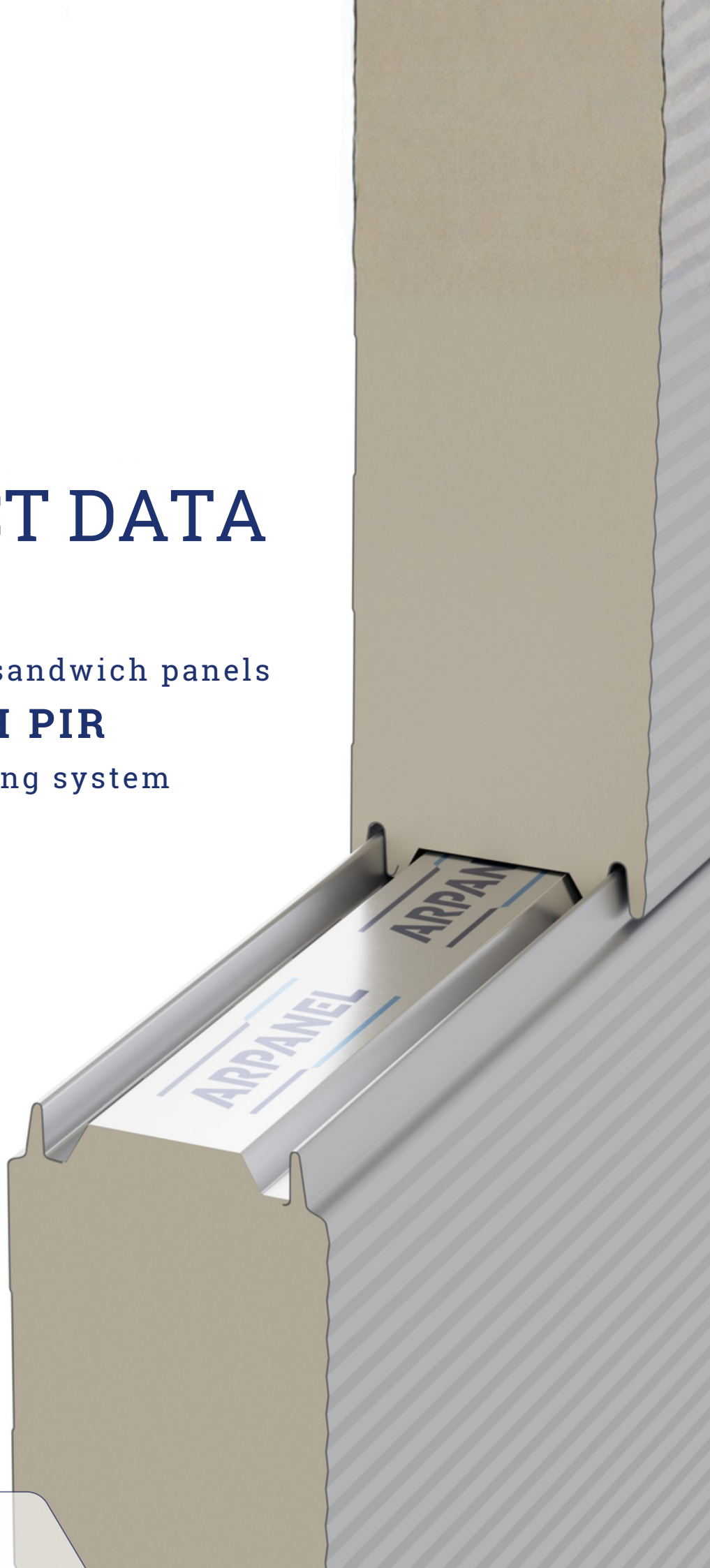
AR PANEL

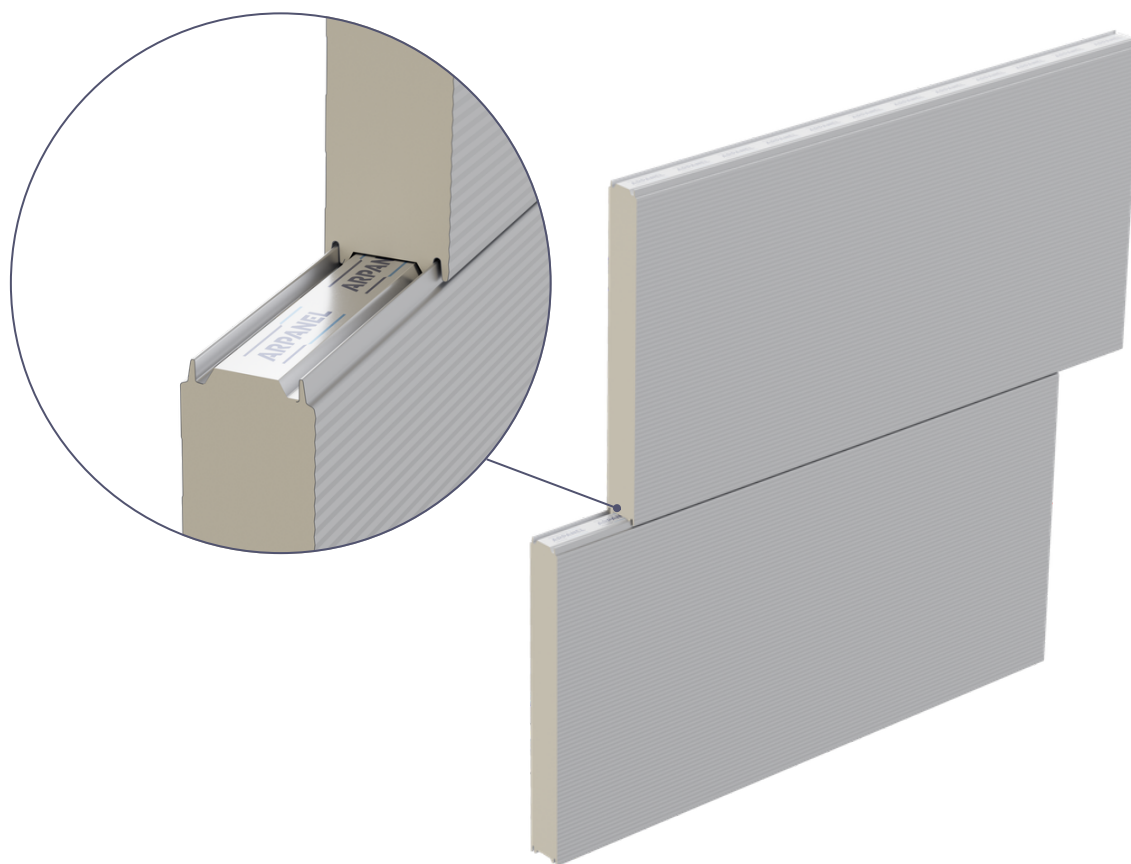
PRODUCT DATA SHEET

Wall/ Cold store sandwich panels

AR PANEL CH PIR

- standard fastening system



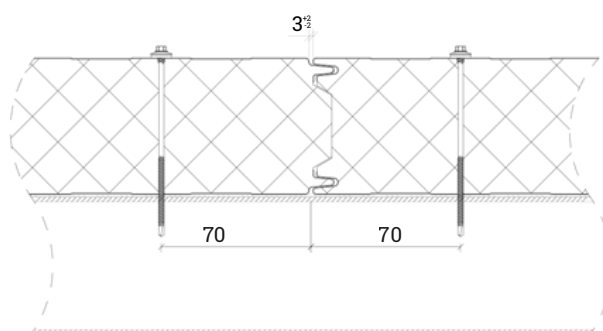


CROSS SECTION

Width: 1 000, 1 100, 1150 mm



D = 120, 140, 160, 200 mm





PARAMETERS

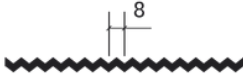
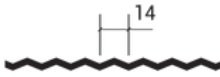
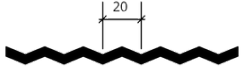
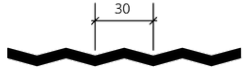
Core thickness [mm]	120	140	160	200
External facing thickness [mm]	0,5 -0,7			
Internal facing thickness [mm]	0,5 -0,7			
Core density	40 ± 3% kg/m ³			
Weight [kg/ m ²]	12,6	13,4	14,2	15,7
Proper acoustic insulation [Rw(C,Ctr) dB]	24 (-2,-4)			
Sound absorption [αw]	0,15			
Heat transfer coefficient Ud,S = W/(m ² x K)	0,18	0,16	0,14	0,11
Heat transfer coefficient Ud,S = W/(m ² x K) (0°C)	0,17	0,15	0,13	0,10
Reaction to fire	B-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]	120	140	160	200
Fire resistance according to EN 13501-2 vertical	E 30 / EI 20 / EW 30 ≤ 7,5 m E 45 / EI 20 / EW 45 ≤ 6 m E 30 / EI 30 / EW 30 ≤ 4 m E 60 / EI 30 / EW 60 ≤ 3 m			E 45 / EI 30 / EW 45 ≤ 7,5 m ⁽¹⁾ E 60 / EI 30 / EW 60 ≤ 6 m ⁽¹⁾ E 60 / EI 45 / EW 60 ≤ 4 m ⁽¹⁾
Fire resistance according to EN 13501-2 horizontal	E 30 / EI 30 / EW 30 ≤ 7,5 m ⁽³⁾ E 30 / EI 30 / EW 30 ≤ 4 m E 45 / EI 45 / EW 45 ≤ 3 m ⁽³⁾			E 45 / EI 45 / EW 45 ≤ 7,5 m ⁽³⁾ E 60 / EI 60 / EW 60 ≤ 4 m ⁽³⁾
EXTERNAL WALL				
Core thickness [mm]	120	140	160	200
Fire resistance according to EN 13501-2 vertical	E 30 (o↔i) / EI 20 (o↔i) / EW 30 (o↔i) ≤ 7,5 m E 45 (o↔i) / EI 20 (o↔i) / EW 45 (o↔i) ≤ 6 m E 30 (o↔i) / EI 30 (o↔i) / EW 30 (o↔i) ≤ 4 m E 60 (o↔i) / EI 30 (o↔i) / EW 60 (o↔i) ≤ 3 m			E 45 (o↔i) / EI 30 (o↔i) / EW 45 (o↔i) ≤ 7,5 m ⁽¹⁾ E 60 (o↔i) / EI 30 (o↔i) / EW 60 (o↔i) ≤ 6 m ⁽¹⁾ E 60 (o↔i) / EI 45 (o↔i) / EW 60 (o↔i) ≤ 4 m ⁽¹⁾
Fire resistance according to EN 13501-2 horizontal	E 30 (o↔i) / EI 30 (o↔i) / EW 30 (o↔i) ≤ 7,5 m ⁽³⁾ E 30 (o↔i) / EI 30 (o↔i) / EW 30 (o↔i) ≤ 4 m E 45 (o↔i) / EI 45 (o↔i) / EW 45 (o↔i) ≤ 3 m ⁽³⁾			E 30 (o↔i) / EI 30 (o↔i) / EW 30 (o↔i) ≤ 7,5 m ⁽³⁾ E 60 (o↔i) / EI 60 (o↔i) / EW 60 (o↔i) ≤ 4 m ⁽³⁾
SUFIT				
Core thickness [mm]	120	140	160	200
Fire resistance according to PN-EN 13501-2:2016 ceiling	EI 30 (a←b) ≤ 2 m ⁽²⁾ EI 15 (a←b) ≤ 5,85 m ⁽²⁾			

⁽¹⁾ To maintain the declared fire resistance classification, a fire-resistant sealant must be used.⁽²⁾ To achieve the specified fire resistance rating, an EPDM gasket must be installed in the panel joint on the external side.⁽³⁾ Maintaining the specified fire resistance performance requires the use of a fire protection gasket.

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 18,5 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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