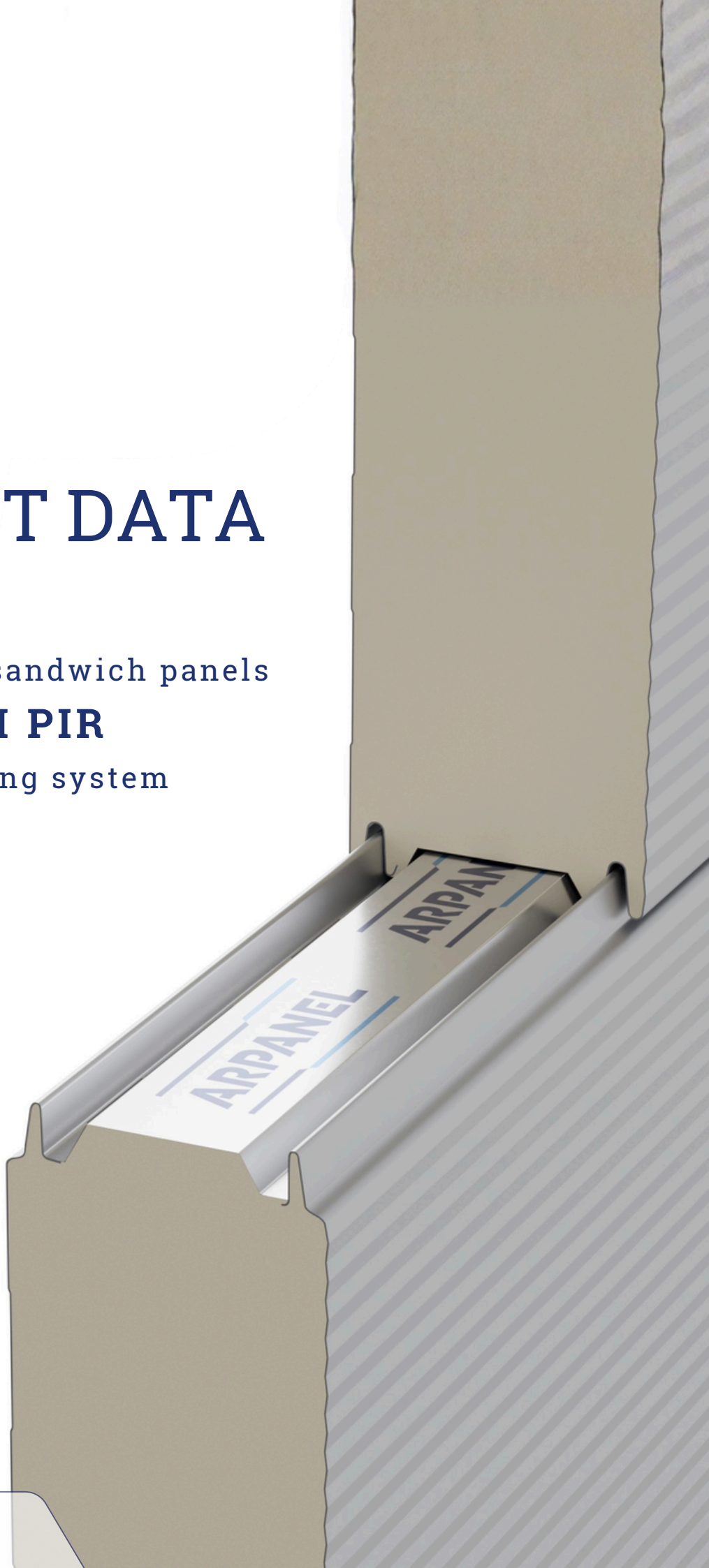
ARPANEL

PRODUCT DATA SHEET

Wall/ Cold store sandwich panels

ARPANEL CH PIR

- standard fastening system



EDITION 5/2026
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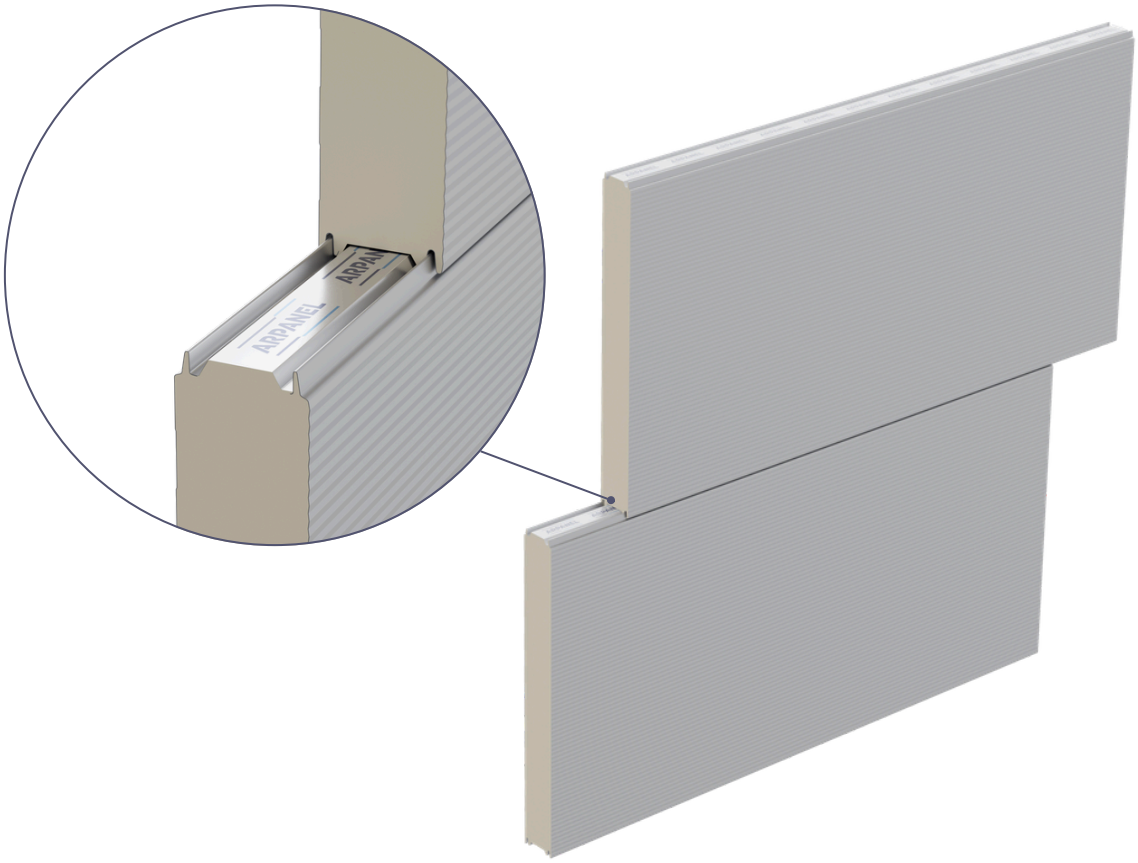
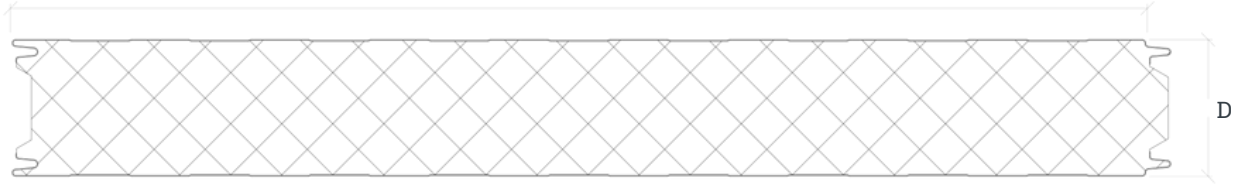
PRODUCT DATA SHEET

ARPANEL CH PIR

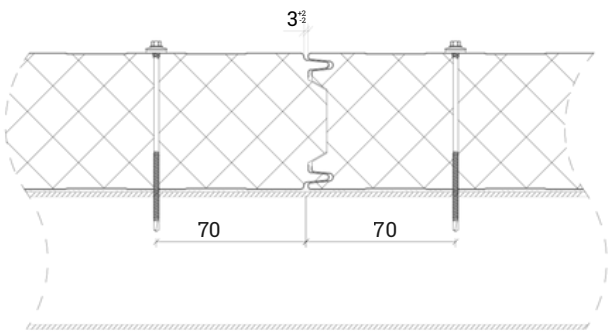


CROSS SECTION

Width: 1 000, 1 100, 1150 mm



D = 120, 140, 160, 200 mm



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ARPANEL CH PIR

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 [kg/m³]	40 ± 3%			
Weight [kg/ m²]	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/(m2 x K)	0,18	0,16	0,14	0,11
Heat transfer coefficient Ud,S = W/(m2 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.

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ARPANEL CH PIR

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 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.

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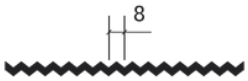
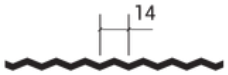
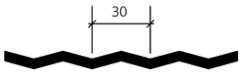
ARPANEL CH PIR

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 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 ≤ 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

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