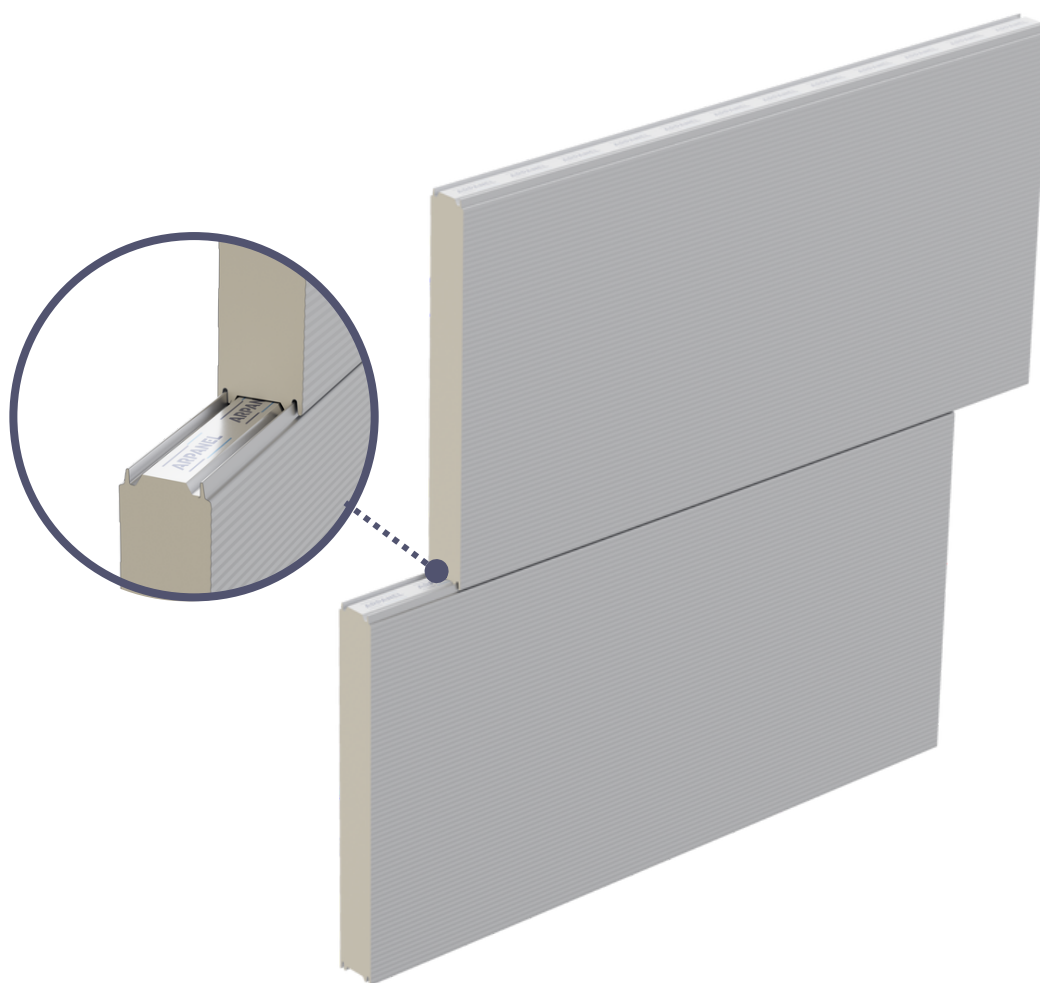


The logo for AR PANEL, featuring the brand name in a bold, white, sans-serif font. It is enclosed within a white rectangular border that has a stylized, stepped appearance on the top and bottom edges.

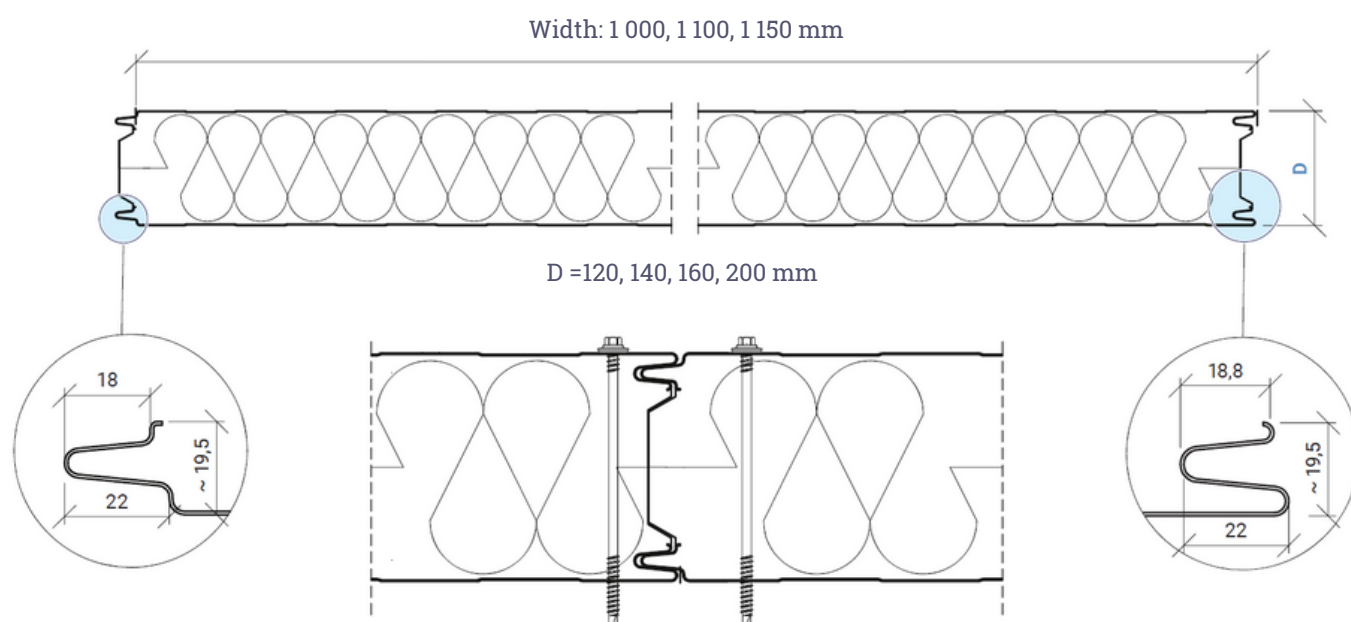
**AR PANEL**

# PRODUCT DATA SHEET

Chłodnicza płyta warstwowa  
**AR PANEL CH PIR**



## CROSS SECTION





## PARAMETERS

| Core thickness                                          | 120                      | 140  | 160  | 200  |
|---------------------------------------------------------|--------------------------|------|------|------|
| External facing thickness [mm]                          | 0,5 – 0,7                |      |      |      |
| Internal facing thickness [mm]                          | 0,4 – 0,7                |      |      |      |
| Core density                                            | 40 ± 3 kg/m <sup>3</sup> |      |      |      |
| Weight [kg/ m <sup>2</sup> ]                            | 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 <sup>2</sup> x K) | 0,17                     | 0,15 | 0,13 | 0,1  |
| Reaction to fire                                        | B-s1,d0                  |      |      |      |
| Fire spread according to PN-B-02867                     | NRO                      |      |      |      |

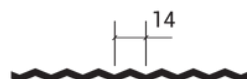
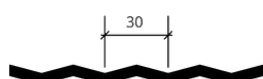
Installation details are available in the fire classifications of ARPANEL sandwich panels.



## PARAMETERS

| Core thickness                                     | 120                                                                                                                                                                                   | 140 | 160 | 200                                                                                                                                             |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERNAL WALL                                      |                                                                                                                                                                                       |     |     |                                                                                                                                                 |
| Fire resistance according to EN 13501-2 vertical   | E 60/ EI 30/ EW 60 ≤ 3 m<br>E 30/ EI 30/ EW 30 ≤ 4 m<br>E 45/ EI 20/ EW 45 ≤ 6 m<br>E 30/ EI 30/ EW 30 ≤ 7,5 m                                                                        |     |     | E 60/ EI 45/ EW 60 ≤ 4m<br><br>E 60/ EI 30/ EW 60 ≤ 6m<br><br>E 45/ EI 30 / EW 45 ≤ 7,5m                                                        |
| Fire resistance according to EN 13501-2 horizontal | E 45/ EI 45/ EW 45 ≤ 3 m<br>E 30/ EI 30/ EW 30 ≤ 4 m<br>E 30/ EI 20/ EW 30 ≤ 7,5 m                                                                                                    |     |     | E 60/ EI 60/ EW 60 ≤ 4 m<br><br>E 45/ EI 45/ EW 45 ≤ 7,5 m                                                                                      |
| EXTERNAL WALL                                      |                                                                                                                                                                                       |     |     |                                                                                                                                                 |
| Fire resistance according to EN 13501-2 vertical   | E 60 (o↔i)/ EI 30 (o↔i)/ EW 60 (o↔i) ≤ 3 m<br>E 30 (o↔i)/ EI 30 (o↔i)/ EW 30 (o↔i) ≤ 4m<br>E 45 (o↔i)/ EI 20 (o↔i)/ EW 45 (o↔i) ≤ 6 m<br>E 30 (o↔i)/ EI 20 (o↔i)/ EW 30 (o↔i) ≤ 7,5 m |     |     | E 60 (o↔i) / EI 45 (i↔o)/ EW 60 (o↔i) ≤ 4 m<br><br>E 60 (o↔i)/ EI 30 (o↔i)/ EW 60 (o↔i) ≤ 6m<br><br>E 45 (i↔o)/ EI 45 (i↔o)/ EW 45 (i↔o) ≤ 7,5m |
| Fire resistance according to EN 13501-2 horizontal | E 45 (o↔i)/ EI 45 (o↔i)/ EW 45 (o↔i) ≤ 3 m<br>E 30 (o↔i)/ EI 30 (o↔i)/ EW 30 (o↔i) ≤ 4 m<br>E 30 (o↔i)/ EI 30 (o↔i)/ EW 30 (o↔i) ≤ 7,5 m                                              |     |     | E 60 (o↔i)/ EI 60 (o↔i)/ EW 60 (o↔i) ≤ 4 m<br><br>E 30 (o↔i)/ EI 30 (o↔i)/ EW 30(o↔i) ≤ 7,5 m                                                   |

## 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 18,5 m.

## PERMISSIBLE DEVIATIONS FROM DIMENSIONS

According to EN 14509:

Panels with length of  $\leq 3$  m  $\pm 5$  mm

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

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

At the panel thickness:

For  $D \leq 100$  mm  $\pm 2$  mm

For  $D > 100$  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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