



PRODUCER OF SANDWICH PANELS

## TECHNICAL INFORMATION SHEET

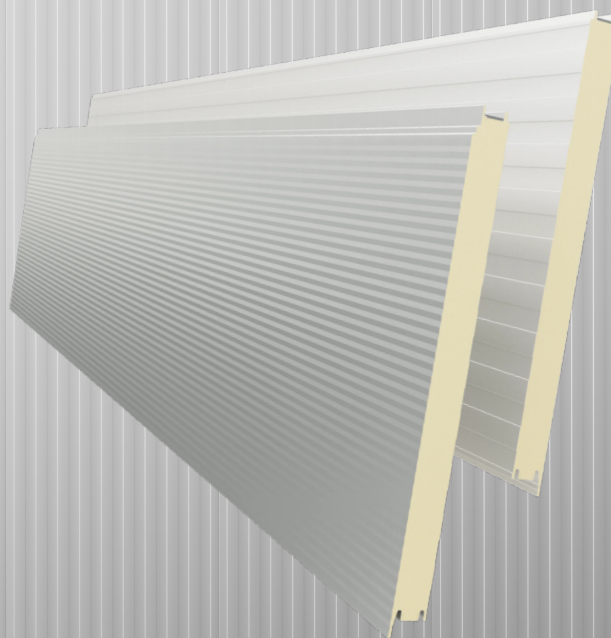
### PolTherma PS

PIR wall sandwich panel - hidden joint

Thickness 60, 80, 100, 120, 160 mm

Covering area 1025 mm

Uds 0,14 - 0,43 [W/m<sup>2</sup>K]



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## I. GENERAL CHARACTERISTICS

### a. Application

Poltherma PS is a wall sandwich panel with a core made of rigid polyurethane foam PU and it is installed onto the support construction with the use of fasteners in an invisible to see way (so called invisible fastening). It is allowed to install the panels onto the steel, reinforced concrete and wooden constructions. PolTherma PS is dedicated as wall material in buildings of versatile purposes ranging from agricultural buildings, through warehouses to industrial buildings.

PolTherma PS panels should be used in accordance to a technical design prepared for a particular building, taking into consideration technical parameters of the panels declared by the producer. Application of PolTherma PS must be in compliance with binding regulations and norms, including the guidelines from the Infrastructure Ministry Directive from 12 April 2002 concerning the location and the technical conditions that a building should fulfill. (Dz. U. nr 75/2002, position. 690 with the later changes).

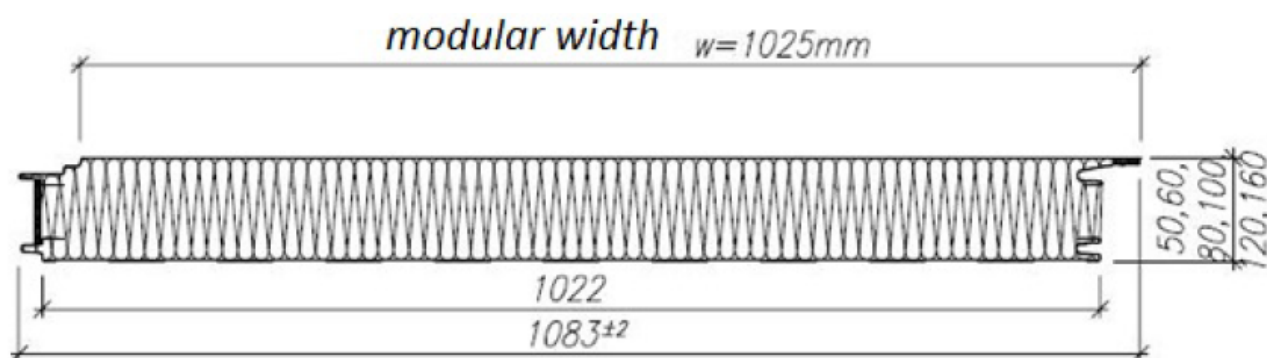
### b. Characteristics

PolTherma PS panel is characterized by its above-average modular width, which is 1025mm, very advantageous acoustic and durability parameters, very good thermo insulation and air and water tightness, and easiness in installation in both vertical and horizontal layout. The biggest advantage of PolTherma PS panels is the invisible fastening method, which allows to preserve the elegance and the modern style of a façade, especially in the vertical layout of the panels.

## II. PHYSICAL PROPERTIES, TECHNICAL DATA

### a. Dimensions

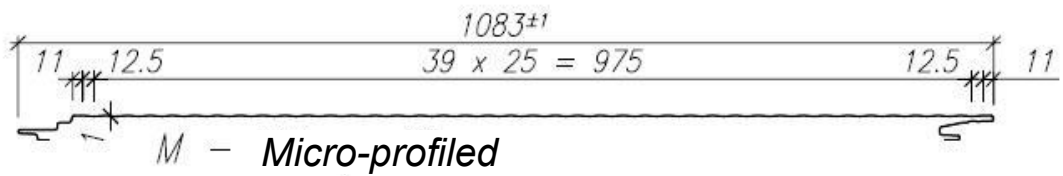
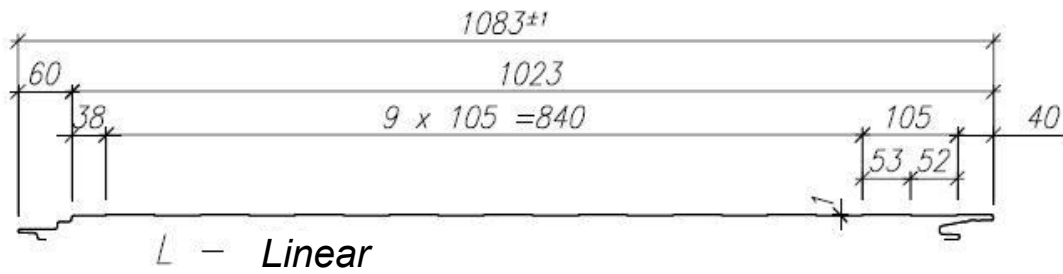
|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| MODULAR WIDTH (COVERING AREA) [mm]: | 1025                                                                    |
| TOTAL WIDTH [mm]:                   | 1083                                                                    |
| AVAILABLE LENGTHS [mm]:             | minimum: standard 2300 for PS 60 and 2100 for the remaining thicknesses |
|                                     | maximum: 13500 (for PS60 panel) and 16000 for the remaining thicknesses |
| AVAILABLE THICKNESSES (CORE) [mm]:  | 60; 80; 100; 120; 160                                                   |



## b. Outer facing profiling

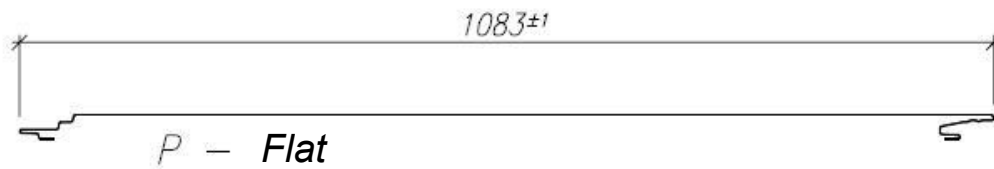
Standard:

- Micro-profiled (M), - Linear (L)



Option:

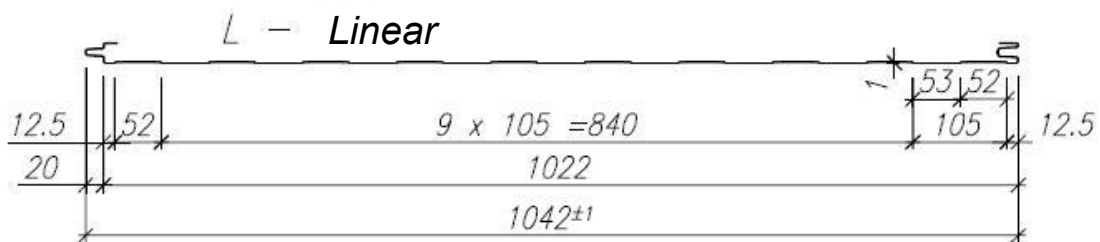
- Flat (P)



## c. Inner facing profiling

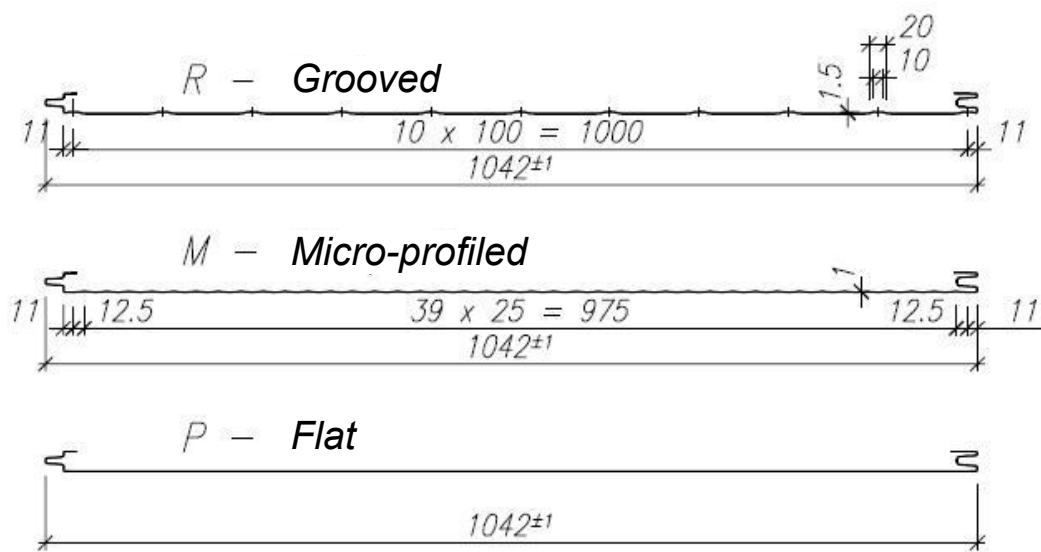
Standard:

- Linear (L)



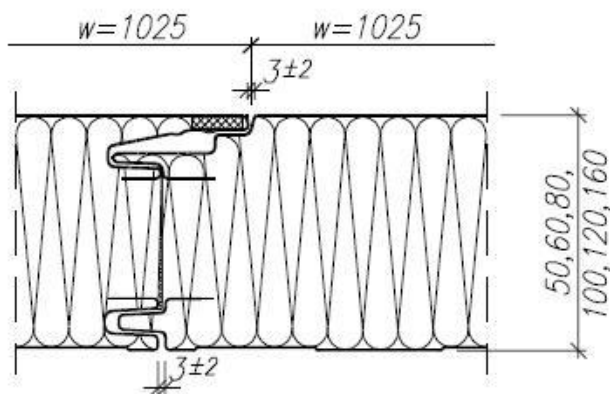
Option:

- Grooved (R), Micro-profiled (M), Flat (P)



#### d. The panel joint

An aluminum film is applied along one edge of the panel, along the second edge of the panel a polyurethane seal reinforced with an aluminum film is applied.



#### e. Mass

| PANEL THICKNESS [mm] | MASS 1 m <sup>2</sup> [kg] |
|----------------------|----------------------------|
| 50                   | 11,1                       |
| 60                   | 11,5                       |
| 80                   | 12,3                       |
| 100                  | 13,0                       |
| 120                  | 13,8                       |
| 160                  | 15,3                       |

#### f. Facings

Steel sheet 0,5 mm thick (outer facing) and 0,5 mm or 0,4mm (inner facing)

#### g. Core

European PU Wall System Core - rigid PU foam with declared density  $38 \pm 3$  kg/m<sup>3</sup> and thermal conductivity coefficient  $\lambda_p = 0,022$  W/(m·K) at +10°C including aging, according to EN 14509:2013-12

#### h. Thermo insulation

| PANEL THICKNESS [mm] | $U_{d,s}$ [W/(m <sup>2</sup> ·K)] |
|----------------------|-----------------------------------|
| 60                   | 0,43                              |
| 80                   | 0,29                              |
| 100                  | 0,23                              |
| 120                  | 0,19                              |
| 160                  | 0,14                              |

#### i. Acoustic parameters

|                           |                                 |
|---------------------------|---------------------------------|
| REAL ACOUSTIC INSULATION: | $R_w(C; C_{tr})$ 26 (-3; -4) dB |
| SOUND ABSORPTION:         | $\alpha_w = 0,15$               |

#### j. Tightness

|                      |                                               |
|----------------------|-----------------------------------------------|
| AIR TRANSMITTANCE:   | $\leq 0,10$ m <sup>3</sup> /m <sup>2</sup> /h |
| WATERPROOFNESS:      | Class A                                       |
| VAPOR TRANSMITTANCE: | Not transmitted                               |

#### k. Fire resistance

NPD

#### l. Reaction to fire

Class B-s2, d0

#### m. Fire spreading rate / Fire resistance of the roof to outside fire

NRO

#### n. Durability

Met for all color groups

#### o. Corrosive tests

Possible to use in environments A1, A2, A3 inside a building and C1, C2, C3 inside and outside of a building

#### **p. Loads**

Load charts have been prepared for all PolTherma PS panels fastened directly onto a support construction with the use of a set of fasteners which characteristic load capacity is 7,0 KN/set. The set of fasteners includes load distributor W01, W02 or W03 and two self-drilling screws that go throughout the panel.

The charts are available on our website [www.europanel.pl](http://www.europanel.pl).

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### **III. ADDITIONAL INFORMATION**

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#### **a. Documentation and certificates**

Declaration of Performance Properties CE