

## DECLARATION OF PERFORMANCE

No termPIR/GP/1/OSB/1



Unique identification code of the product type\*:

termPIR OSB '[dN] / PIR 'AL[dN][type of edges] / [length x width]

Manufacturer: Gór-Stal sp. z o.o.; ul. Przemysłowa 11; 38-300 Gorlice, Poland / Place of manufacture: Gór-Stal sp. z o.o.; ul. Adolfa Mitery 9; 32-700 Bochnia, Poland

Harmonised standard: EN 13165:2012+A2:2016

The system/s of AVCP:

System 3 and 4 (for termPIR OSB/PIR)

Notified body/ies: 1488 (ITB, Warszawa, PL); 1487 (ICiMB, Kraków, PL)

Intended use/uses: thermal insulation products for buildings

Declared performances:

| essential characteristics                                                                                                                                                                   |                                                                       | performance                                                               | values / classes                                                    |              |                                                                   |              |              |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-------------------------------------------------------------------|--------------|--------------|--|--|
| Thermal resistance<br>(for the specified thickness $d_N$ of the PIR layer, the resistance of OSB and GK has not been considered)                                                            | Thickness tolerance, class                                            | $(20 \leq d_{N,PIR} < 50 \text{ mm}):$<br>$\pm 3 \text{ mm, T1}$          | $(50 \leq d_{N,PIR} \leq 75 \text{ mm}):$<br>$\pm 4 \text{ mm, T1}$ |              | $(75 < d_{N,PIR} \leq 250 \text{ mm}):$<br>$+6/-4 \text{ mm, T1}$ |              |              |  |  |
|                                                                                                                                                                                             | Thermal conductivity, $\lambda_D$                                     | $(20 \leq d_{N,PIR} \leq 250 \text{ mm}): 0,022[\text{W/m}\cdot\text{K}]$ |                                                                     |              |                                                                   |              |              |  |  |
|                                                                                                                                                                                             | Thermal resistance, $R_D [\text{m}^2 \cdot \text{K/W}]$               | 20 mm: 0,90                                                               | 30 mm: 1,35                                                         | 40 mm: 1,85  | 50 mm: 2,30                                                       | 60 mm: 2,75  | 70 mm: 3,25  |  |  |
|                                                                                                                                                                                             |                                                                       | 80 mm: 3,70                                                               | 90 mm: 4,15                                                         | 100 mm: 4,65 | 110 mm: 5,10                                                      | 120 mm: 5,55 | 130 mm: 6,05 |  |  |
|                                                                                                                                                                                             |                                                                       | 140 mm: 6,50                                                              | 150 mm: 6,95                                                        | 160 mm: 7,45 | 170 mm: 7,90                                                      | 180 mm: 8,35 | 190 mm: 8,85 |  |  |
| 200 mm: 9,30                                                                                                                                                                                |                                                                       | 210 mm: 9,75                                                              | 220 mm: 10,2                                                        | 230 mm: 10,7 | 240 mm: 11,1                                                      | 250 mm: 11,6 |              |  |  |
| Reaction to fire (of the product as placed on the market)                                                                                                                                   |                                                                       | -                                                                         |                                                                     |              |                                                                   |              |              |  |  |
| for termPIR OSB/PIR                                                                                                                                                                         |                                                                       | E Class (on the side of OSB) / F Class (on the side of PIR board)         |                                                                     |              |                                                                   |              |              |  |  |
| Durability of reaction to fire against heat, weathering, ageing/degradation                                                                                                                 | Durability of reaction to fire of the product as placed on the market | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Durability of thermal resistance against heat, weathering, ageing/degradation<br>(for the specified thickness $d_N$ of the PIR layer, the resistance of OSB and GK has not been considered) | Thermal conductivity, $\lambda_D$ aggded values                       | $(20 \leq d_{N,PIR} \leq 250 \text{ mm}): 0,022[\text{W/m}\cdot\text{K}]$ |                                                                     |              |                                                                   |              |              |  |  |
|                                                                                                                                                                                             | Thermal resistance, $R_D [\text{m}^2 \cdot \text{K/W}]$ aggded values | 20 mm: 0,90                                                               | 30 mm: 1,35                                                         | 40 mm: 1,85  | 50 mm: 2,30                                                       | 60 mm: 2,75  | 70 mm: 3,25  |  |  |
|                                                                                                                                                                                             |                                                                       | 80 mm: 3,70                                                               | 90 mm: 4,15                                                         | 100 mm: 4,65 | 110 mm: 5,10                                                      | 120 mm: 5,55 | 130 mm: 6,05 |  |  |
|                                                                                                                                                                                             |                                                                       | 140 mm: 6,50                                                              | 150 mm: 6,95                                                        | 160 mm: 7,45 | 170 mm: 7,90                                                      | 180 mm: 8,35 | 190 mm: 8,85 |  |  |
|                                                                                                                                                                                             |                                                                       | 200 mm: 9,30                                                              | 210 mm: 9,75                                                        | 220 mm: 10,2 | 230 mm: 10,7                                                      | 240 mm: 11,1 | 250 mm: 11,6 |  |  |
|                                                                                                                                                                                             | Durability characteristics                                            | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
|                                                                                                                                                                                             | Dimensional stability                                                 | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Deformation under specified compressive load and temperature                                                                                                                                | NPD                                                                   |                                                                           |                                                                     |              |                                                                   |              |              |  |  |
| Compressive strenght                                                                                                                                                                        | Compressive stress, $\sigma_{10}$                                     | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Tensile strength                                                                                                                                                                            | Tensile strength perpendicular to faces                               | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Durability of compressive strenght against ageing/degradation                                                                                                                               | Compressive creep                                                     | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Water permeability                                                                                                                                                                          | Long term water absorption                                            | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
|                                                                                                                                                                                             | Short term water absorption                                           | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
|                                                                                                                                                                                             | Flatness after one-sided wetting                                      | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Water vapour permeability                                                                                                                                                                   | Water vapour transmission, factor. $\mu$                              | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Acoustic absorption index                                                                                                                                                                   | Sound absorption                                                      | NPD                                                                       |                                                                     |              |                                                                   |              |              |  |  |
| Release of dangerous substances to the indoor environment                                                                                                                                   |                                                                       | NPD; European test methods are under development for this characteristic  |                                                                     |              |                                                                   |              |              |  |  |
| Continuous glowing combustion                                                                                                                                                               |                                                                       | NPD; European test methods are under development for this characteristic  |                                                                     |              |                                                                   |              |              |  |  |
| NPD: No Performance Determined                                                                                                                                                              |                                                                       |                                                                           |                                                                     |              |                                                                   |              |              |  |  |
| * The thickness values refer to the PIR core with glass veil cladding (without adding the thickness of the drywall 12.5 mm and adhesive layer).                                             |                                                                       |                                                                           |                                                                     |              |                                                                   |              |              |  |  |

Harmonised standard: EN 13165:2012+A2:2016

NPD: No Performance Determined

\* The thickness values refer to the PIR core with glass veil cladding (without adding the thickness of the drywall 12.5 mm and adhesive layer).

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) no 305/2011, under the sole responsibility of the manufacturer identified above.

GÓR-STAL" Sp. z o.o.  
38-300 Gorlice, ul. Przemysłowa 11  
tel. 018 353 98 00  
REGON 852712117 NIP 738-19-45-154

DYREKTOR ZAKŁADU

Krzysztof Łukaszyk

Bochnia, 2021.03.25

translation into EN: 2024.10.05

signature and seal of the authorized person

\* Explanation of the markings of unique identification code of the product type:

designation of 'PIR' (type = type of PIR board [AL (PIR board with a gas-tight coating containing aluminum, designed for gypsum adhesive)], dN = nominal thickness of the PIR board in mm  
type of edges = type of board end [TAG (tongue and groove), LAR (stepwise milling), FIT or no designation (flat milling)])

designation of 'OSB' (dN = nominal thickness of the OSB board in mm)

dimensions: designation of nominal length and width in mm [e.g., 2600 x 1200]

(e.g. termPIR OSB'8 / PIR'AL100 / OSB'10 / 2500x1200)

# ADDITIONAL TECHNICAL DOCUMENTATION

## for the DECLARATION OF PERFORMANCE

No termPIR/GP/1/OSB/1

The performances **not covered** by this DoP and CE marking:

| essential characteristics                                                                                                                            | performance                                                                                        | board                    |              |               |               |               |               | values / classes    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------|--------------|---------------|---------------|---------------|---------------|---------------------|
| Thermal conductivity, $\lambda_{calc}$ . (acc to. EN 10456)                                                                                          |                                                                                                    | OSB board                |              |               |               |               |               | 0,13 [W/(m·K)]      |
| Sound insulation                                                                                                                                     | R <sub>w</sub> (C;Ctr),<br>EN ISO 717-1                                                            | termPIR OSB'8 / PIR'AL20 |              |               |               |               |               | 25(-1;-3)           |
|                                                                                                                                                      | R(f[Hz]), EN ISO 10140-2                                                                           | boards as above          |              |               |               |               |               | acc. to the Reports |
| Thermal resistance<br>(For the specified thickness $d_N$ of<br>the PIR layer, the resistance of the 8<br>mm thick OSB layer has been<br>considered.) | Thermal resistance, R <sub>D</sub> [m <sup>2</sup> ·K/W]<br>for termPIR<br>OSB'8 / PIR'AL[ $d_N$ ] | 20 mm: 0,95              | 30 mm: 1,40  | 40 mm: 1,90   | 50 mm: 2,35   | 60 mm: 2,80   | 70 mm: 3,30   |                     |
|                                                                                                                                                      |                                                                                                    | 80 mm: 3,75              | 90 mm: 4,20  | 100 mm: 4,70  | 110 mm: 5,15  | 120 mm: 5,60  | 130 mm: 6,10  |                     |
|                                                                                                                                                      |                                                                                                    | 140 mm: 6,55             | 150 mm: 7,00 | 160 mm: 7,50  | 170 mm: 7,95  | 180 mm: 8,40  | 190 mm: 8,90  |                     |
|                                                                                                                                                      |                                                                                                    | 200 mm: 9,35             | 210 mm: 9,80 | 220 mm: 10,30 | 230 mm: 10,75 | 240 mm: 11,20 | 250 mm: 11,70 |                     |

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