

## PAROC WPS 3n

### Wind protection slab



|                      |   |
|----------------------|---|
| Certification Number | 0809-CPR-1015 / Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland  |
| Designation Code     | MW-EN13162-T5-DS(70,-)-WS-WL(P)-Z(0,10)   |
| Short Description    | Rigid, fire safe stone wool slab with high thermal insulation performance. It is faced with a vapour permeable, windproof Tyvek® membrane.  |
| Application          | Thermal insulation in external walls. The integrated vapour permeable facing creates a wind and waterproof protection of the construction. The seams should therefore be sealed with a special WPS tape in order to minimise air and water leakage. |

PAROC stone wool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C. The insulating properties remain unchanged, but the compressive stress weakens. The softening temperature of stone wool products is over 1000°C.

### Dimensions

| Dimensions                |                           |
|---------------------------|---------------------------|
| Width x Length            | Thickness                 |
| 1200 x 3000 mm            | 50 - 70 mm                |
| 1200 x 1800 mm            | 50 - 70 mm                |
| In accordance with EN 822 | In accordance with EN 823 |

| Dimensional Stability                                    |       |                                   |
|--|-------|-----------------------------------|
| Property   | Value | According to                      |
| Dimensional Stability at Specified Temperature, DS(70,-) | ≤ 1 % | EN 13162:2012 + A1:2015 (EN 1604) |

Other Dimensions Other sizes available on request.

### Packaging

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Package Type Plastic Package, Plastic Packages on a Pallet or Loose Product on a Pallet

## Fire Properties

| Reaction to Fire            |       |                                      |
|-----------------------------|-------|--------------------------------------|
| Property                    | Value | According to                         |
| Reaction to Fire, Euroclass | NPD   | EN 13162:2012 + A1:2015 (EN 13501-1) |

| Continuous Glowing Combustion |       |                         |
|-------------------------------|-------|-------------------------|
| Property                      | Value | According to            |
| Continuous Glowing Combustion | NPD   | EN 13162:2012 + A1:2015 |

| Other Fire Properties |                              |              |
|-----------------------|------------------------------|--------------|
| Property              | Value                        | According to |
| Combustibility        | Base product non-combustible | EN ISO 1182  |

Fire classification is A2-s1, d0 when the Tyvek is on the back side of the product.

## Thermal Properties

| Thermal Resistance               |                                |                                  |
|----------------------------------|--------------------------------|----------------------------------|
| Property                         | Value                          | According to                     |
| Thermal Resistance               | <a href="#">See attachment</a> | EN 13162:2012 + A1:2015          |
| Thermal Conductivity $\lambda_D$ | 0,032 W/mK                     | EN 13162:2012 + A1:2015          |
| Thickness Tolerance, T           | T5                             | EN 13162:2012 + A1:2015 (EN 823) |

| Air Permeability                           |  |              |
|--|--|--------------|
| Property                                   | Value                                  | According to |
| Air Permeability Coefficient for Facing, L | -6 m <sup>3</sup> /m <sup>2</sup> Pa*s |              |

| Direct Airborne Sound Insulation Index |       |                                    |
|--|-------|------------------------------------|
| Property                               | Value | According to                       |
| Air Flow Resistivity AF <sub>R</sub>   | NPD   | EN 13162:2012 + A1:2015 (EN 29053) |

## Moisture Properties

| Water Permeability                                 |                       |                                    |
|--|-----------------------|------------------------------------|
| Property   | Value                 | According to                       |
| Water Absorption, Short Term WS, W <sub>p</sub>    | ≤ 1 kg/m <sup>2</sup> | EN 13162:2012 + A1:2015 (EN 1609)  |
| Water Absorption, Long Term WL(P), W <sub>lp</sub> | ≤ 3 kg/m <sup>2</sup> | EN 13162:2012 + A1:2015 (EN 12087) |

| Water Vapour Permeability           |                            |                         |
|-------------------------------------|----------------------------|-------------------------|
| Property                            | Value                      | According to            |
| Water Vapour Resistance Z           | 0,10 m <sup>2</sup> hPa/mg | EN 13162:2012 + A1:2015 |
| Water Vapour Transmission MU, $\mu$ | NPD                        | EN 13162:2012 + A1:2015 |

## Sound Properties

| Acoustic Absorption Index |       |                                      |
|---------------------------|-------|--------------------------------------|
| Property                  | Value | According to                         |
| Sound Absorption          | NPD   | EN 13162:2012 + A1:2015 (EN ISO 354) |

| Impact Noise Transmission Index (for Floors) |       |                                      |
|--|-------|--------------------------------------|
| Property                                     | Value | According to                         |
| Dynamic Stiffness SD                         | NPD   | EN 13162:2012 + A1:2015 (EN 29052-1) |

## Mechanical Properties

| Compressive Strength   |       |                                    |
|--|-------|------------------------------------|
| Property   | Value | According to                       |
| Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$ | NPD   | EN 13162:2012 + A1:2015 (EN 826)   |
| Compressive Strength CS(Y), $\sigma_m$                       | NPD   | EN 13162:2012 + A1:2015 (EN 826)   |
| Point Load PL(5)   | NPD   | EN 13162:2012 + A1:2015 (EN 12340) |

| Property           | Value | According to            |
|--------------------|-------|-------------------------|
| Compressibility CP | NPD   | EN 13162:2012 + A1:2015 |

| Tensile/Flexural Strength                                 |       |                                   |
|---|-------|-----------------------------------|
| Property  | Value | According to                      |
| Tensile Strength Perpendicular to Faces TR, $\sigma_{mt}$ | NPD   | EN 13162:2012 + A1:2015 (EN 1607) |

## Emissions

| Release of Dangerous Substances to the Indoor Environment |       |                         |
|---|-------|-------------------------|
| Property  | Value | According to            |
| Release of Dangerous Substances                           | NPD   | EN 13162:2012 + A1:2015 |

## Durability

| Durability of Compressive Strength against Ageing/Degradation |       |                                   |
|---|-------|-----------------------------------|
| Property  | Value | According to                      |
| Compressive Creep CC(i1/i2/y) $\sigma_c$ , $X_{ct}$           | NPD   | EN 13162:2012 + A1:2015 (EN 1606) |

Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation, The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.

Durability of Thermal Resistance Against Heat, Weathering, Ageing/Degradation Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.

## Facings

Facing Material

Tyvek® membrane

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