

## PAROC WAB 10t

### Wall board



|                      |  |
|----------------------|--|
| 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)-MU1  |
| Short Description    | Rigid, fire safe stone wool board. It is faced with a natural coloured glass tissue.   |
| Application          | Fully-cover insulation layer in e.g. industrial walls. It protects the primary thermal insulation layer from harmful airflow and it breaks cold bridges. |

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                 |
| 1800 x 2400 mm            | 13 - 20 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

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 | A1    | 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        | Non-combustible | EN ISO 1182  |

## Thermal Properties

| Thermal Resistance               |                                |                                  |
|----------------------------------|--------------------------------|----------------------------------|
| Property                         | Value                          | According to                     |
| Thermal Resistance               | <a href="#">See attachment</a> | EN 13162:2012 + A1:2015          |
| Thermal Conductivity $\lambda_D$ | 0,036 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, $\ell$ | $10 \times 10^{-6} \text{ m}^2/\text{Pa}\cdot\text{s}$ | EN 29053     |

| Direct Airborne Sound Insulation Index |       |                                    |
|--|-------|------------------------------------|
| Property                               | Value | According to                       |
| Air Flow Resistivity $AF_R$            | NPD   | EN 13162:2012 + A1:2015 (EN 29053) |

## Moisture Properties

| Water Permeability                          |                         |                                    |
|---|-------------------------|------------------------------------|
| Property                                    | Value                   | According to                       |
| Water Absorption, Short Term $WS, W_p$      | $\leq 1 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 1609)  |
| Water Absorption, Long Term $WL(P), W_{lp}$ | $\leq 3 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 12087) |

| Water Vapour Permeability           |       |                                    |
|-------------------------------------|-------|------------------------------------|
| Property                            | Value | According to                       |
| Water Vapour Resistance Z           | NPD   | EN 13162:2012 + A1:2015            |
| Water Vapour Transmission $MU, \mu$ | 1     | EN 13162:2012 + A1:2015 (EN 12086) |

## 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 Glass fibre tissue

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