

# ROCKWOOL Frontrock Max E

## PRODUCT DESCRIPTION

ROCKWOOL Frontrock MAX E is a dual-density, fully hydrophobic stone wool board. The extremely rigid upper layer provides an excellent resistance to mechanical stress. The lower layer has a density that guarantees improved thermal properties. It is used in external wall systems suitable for all buildings, in order to ensure thermal, acoustic insulation and fire safety.



## APPLICATION

Frontrock Max E boards are designed to be used as thermal, fire and acoustic insulation in external wall systems. Due to its upper layer's high density, it can also be used on fine and thick plastered systems conveniently. Due to its high-pressure strength, it is preferred on facades which are exposed to mechanical pressure, such as those on public buildings. The high dense top layer is indicated with ROCKWOOL logo or a line and should always face outwards.



# ROCKWOOL Frontrock MAX E

## FEATURES:

• A1 Class fire reaction. Does not generate toxic gas or droplets while burning • Its high-dense outer surface increases the mechanical resistance, provides ease of application • It provides excellent heat insulation due to its low thermal conductivity coefficient • Provides sound insulation. • It allows building to breathe • Water repellent • It has dimensional stability.







## PACKAGING

Frontrock boards are packed in polyethylene foil, bearing the name of the manufacturer and a label with the basic product data.

## Dimensions, product range and packaging

| Thickness (mm) | 60 | 70 | 80 | 100 | 120 | 140 | 150 | 160 | 180 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length x Width (mm) | 1000 x 600 | | | | | | | | | |
| $m^2$ / pack | 2,40 | 1,80 | 1,80 | 1,80 | 1,80 | 1,20 | 1,20 | 1,20 | 1,20 | 1,20 |

## Thermal resistance $R_D$

| Thickness (mm) | 60 | 70 | 80 | 100 | 120 | 140 | 150 | 160 | 180 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|
| $R_D$ ($m^2K/W$) | 1,65 | 1,90 | 2,20 | 2,75 | 3,30 | 3,85 | 4,16 | 4,40 | 5,00 | 5,55 |

## Technical parameters

| Property | Symbol | Value | U.M. | Standard |
|---|---|---|---|---|
| Combustibility class | - | A1 | - | SR EN 13501-1 |
| Thermal conductivity coefficient | $\lambda_D$ | 0.036 | $W.m^{-1}.K^{-1}$ | SR EN 12667 |
| Compressive strenght at 10% deformation | $\sigma_{10}$ | ⩾ 20 | kPa | SR EN 826 |
| Tensile strength perpendicular to faces | $\sigma_{mt}$ | ⩾ 10 | kPa | SR EN 1607 |
| Point load strength | $F_p$ | 250 | N | EN 12430 |
| Specific heat | $c_p$ | 1030 | $J.kg^{-1}.K^{-1}$ | SR EN 12524 |
| Short-term water absorption | $W_p$ | ⩽ 1 | $kg.m^{-2}$ | SR EN 1609 |
| Long-term water absorption | $W_{lp}$ | ⩽ 3 | $kg.m^{-2}$ | SR EN 12087 |
| Melting point | $t_t$ | >1000 | °C | DIN 4102 |
| CE certification | EMI: 1415-CPD-35-(C-7/2010) | | | |
| Quality management system | ISO 9001:2000 - Certificate no. VNA0005496 Lloyds Register Quality Assurance Limited Budapest | | | |
| Environment management system | ISO 14001:2004 - Certificate no. VNA0005496 Lloyds Register Quality Assurance Limited Budapest | | | |

The above technical information describe product properties valid at the moment of technical sheet publication. Due to continuos technology development and producer's experience, technical properties of the product might suffer changes.

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