

# MONOROCK 365

Rigid slab of volcanic stone wool of high density.

## Application

Thermal and acoustic insulation for lightweight metal roofs of medium-low maintenance.



## Technical Properties

| Property   | Description    |   |                             |   | Standard   |
|--|----------------|---|-----------------------------|---|------------|
| Nominal density (kg/m <sup>3</sup> )                                 | 145            |   |                             |   | EN 1602    |
| Thermal conductivity W/(m*K)   | 0,039          |   |                             |   | EN 12667   |
| Dimensions (mm)  | 1200 x 1000    |   |                             |   |            |
| Fire reaction /Euroclass   | A1             |   |                             |   | EN 13501.1 |
| Thermal resistance (m <sup>2</sup> K/W)                              | Thickness (mm) | Thermal resistance (m <sup>2</sup> K/W) | Thickness (mm)              | Thermal resistance (m <sup>2</sup> K/W) |            |
|  | 40             | 1,00                                    | 80                          | 2,05                                    |            |
|  | 50             | 1,25                                    | 90                          | 2,30                                    |            |
|  | 60             | 1,50                                    | 100                         | 2,55                                    |            |
|  | 70             | 1,75                                    |                             |   |            |
| Thickness tolerance (mm)   | T5             |   |                             |   | EN 823     |
| Dimensional stability at a specific temperature and humidity         | DS (70,90)     |   |                             |   | EN 1604    |
| Compressive resistance (KPa)   | CS (10\Y)50    |   | ( 50 KPa )                  |   | EN 826     |
| Point load (N)   | PL (5) 500     |   | ( 500 N )                   |   | EN 12430   |
| Water vapour resistance  | MU1            |   | ( μ = 1 )                   |   | EN 12086   |
| Short term water absorption (kg/m <sup>2</sup> )                     | WS             |   | ( <1,0 kg/m <sup>2</sup> )  |   | EN 1609    |
| Long term water absorption by partial immersion (kg/m <sup>2</sup> ) | WL (P)         |   | ( < 3,0 kg/m <sup>2</sup> ) |   | EN 12087   |

## Advantages

- Standard solution for roofs of medium-low maintenance. Class B per the UETAC classification. Class B equivalent to accessible roofs of buildings that require 2 annual visits for maintenance of installation of rainwater evacuation or the state of the waterproofing sheet.
- Safety in case of fire. Stone wool solution core: A1 (Non-combustible): security in case of fire as the solution contains the minimum fire load possible avoiding the spread of fire especially in maintenance works.
- Gran resistance to breaking, non-brittle product.
- Thermal and dimensional stability.
- Requires only 1 fixing (applicable to slabs in mechanical fastening system).
- Fast and easy to install.



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