

## Ty-Mawr Building Board Conforming to EN 13168



### Description PRODUCT DATA SHEET

Panel made of long mineralised fir wood-wool bound with Portland cement.

#### Uses

Elimination of thermal bridges in pillars, beams, inter-storey facings, radiator niches; acoustic insulation of walls; insulation from floor noise; insulation of flat and sloping roofs; permanent formwork to concrete; fire resistant coverings.

#### Dimensions

2400x600; 2000x600; 1200x600; 600x600 mm.

Due to the biological and organic component wood, slight deviations in dimensions and colour cannot be excluded.

#### Finishing of edges

Type A: Leaf edges, Rounded edges; Type B: Lowered edges, with facing profile, Lowered rounded edges with facing profile, Rounded edges hidden profile, Hidden profile mobile panels.

#### Colours

Natural; painted according to the Colour Table, other colours according to type RAL.

#### Advantages

- sound absorbing;
- sound insulating;
- thermal insulating;
- absolute harmlessness and absence of dripping, dense fumes and toxic gases in case of fire;
- non-deformability;
- diffusion open structure;
- heat storing (summer-heat insulation);
- suitable for organic building design;
- easy to apply.

#### Limit of use

- The temperature limit of use is 200 °C;
- Suitable for applications in environments with a continuous relative air humidity up to 90%.

## Technical specifications

### Ty-Mawr Wood Wool Board

| Characteristic                           | Symbol        | Standard                      | Unit               | Description/data                            |        |        |
|--|---------------|-------------------------------|--------------------|---|--------|--------|
| Thickness                                | $d$           | EN 823                        | mm                 | 15  | 25     | 50     |
| Declared thermal resistance              | $R_D$         | EN 12667                      | m <sup>2</sup> K/W | 0,20  | 0,35   | 0,75   |
| Water vapour diffusion resistance factor | $\mu$         | EN 13168<br>4.3.5<br>EN 12086 | --                 | 5   |        |        |
| Short term water absorption              | $W_P$         | EN 1609<br>method A           | kg/m <sup>2</sup>  | 3,35  | --     | --     |
| Reaction to fire                         | --            | EN 13501-1                    | -- Euroclass B     | Euroclass B-s1, d0                          |        |        |
| Compressive stress at 10% deformation    | $\sigma_{10}$ | EN 826                        | kPa                | ≥ 200                                       | ≥ 300  | >150   |
| Bending strength                         | $\sigma_b$    | EN 12089<br>method A          | kPa                | ≥ 1650                                      | ≥ 1250 | ≥ 1000 |
| Chloride content                         | Cl            | EN 13168                      | --                 | ≤ 0,15%                                     |        |        |
| Resistance to water and frost            | --            | --                            | --                 | no alteration after 20 cycles frost/defrost |        |        |
| Specific heat                            | $c_P$         | --                            | kJ/(kgK)           | 2,1   |        |        |
| Linear expansion thermal coefficient     | $\alpha$      | --                            | mm/(mK)            | 0,01  |        |        |

## Delivery details

# Ty-Mawr Wood Wool Board

| Dimensions [cm] | Thickness [mm] | Weight [kg/m <sup>2</sup> ] | Panels per pallet |
|-----------------|----------------|-----------------------------|-------------------|
| 240x60          | 15             | 8                           | 130               |
| 240x60          | 25             | 11,5                        | 88                |
| 240x60          | 50             | 18                          | 44                |

On pallets.

For further information please contact :

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Revision: 01/2009

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