



## TECHNICAL DATA

Fybro

Thermal-acoustic insulation for walls and ceilings

### Technical specification

Airborne noise insulation in ..... mm thick made of polyester fibre; density 40 kg/m<sup>3</sup>. The panels dimensions are 120 cm length, 60 cm width.



- **Thermal-acoustic insulation**
- **not putrefying**
- **hypoallergenic**

| PHYSICAL CHARACTERISTICS | Standard | Unit              | FYBRO 30 | FYBRO 50 | Tolerance |
|--------------------------|----------|-------------------|----------|----------|-----------|
| Thickness                |          | mm                | 30       | 50       | ± 2       |
| Length                   |          | m                 | 1,20     |          | ± 0,005   |
| Width                    |          | m                 | 0,60     |          | ± 0,005   |
| Density                  |          | kg/m <sup>3</sup> | 40       |          | ± 10%     |
| Superficial weight       |          | kg/m <sup>2</sup> | 1,20     | 2,00     | ± 10%     |
| Colour                   |          |                   | green    |          |           |

| ACOUSTIC CHARACTERISTICS  | Standard     | Unit | FYBRO 30 | FYBRO 50 | Tolerance         |
|---|--------------|------|----------|----------|-------------------|
| Wall composition - 29 cm thick<br>A: plaster 1,5 cm + hollow brick 12 cm + plaster 1.0 cm<br>B: Fybro 50<br>C: hollow brick 8 cm + plaster 1,5 cm |              |      |          |          | [A]<br>[B]<br>[C] |
| <b>Transmission Loss Rw</b> <sup>(1)</sup>  | EN ISO 10140 | dB   | -        | 54       |                   |

|   |              |    |    |   |                   |
|---|--------------|----|----|---|-------------------|
| Wall composition - 12.5 cm thick<br>A: gypsum board double layer + 1.25x2 cm ifixed to 75 mm metal frame<br>B: Fybro 30 double layer into metal frame<br>C: gypsum board double layer + 1.25x2 cm ifixed to 75 mm metal frame |              |    |    |   | [A]<br>[B]<br>[C] |
| <b>Transmission Loss Rw</b> <sup>(1)</sup>  | EN ISO 10140 | dB | 56 | - |                   |

| TECHNICAL CHARACTERISTICS                           | Standard   | Unit               | FYBRO 30    | FYBRO 50 | Tolerance |
|---|------------|--------------------|-------------|----------|-----------|
| <b>Thermal conductivity coefficient (λ)</b>         | EN 12667   | W/m <sup>2</sup> K | 0,036       |          |           |
| Resistance factor to the spread of water vapour (μ) | EN 12086   |                    | 3,2         |          |           |
| Fire grade  | EN 13501-1 |                    | B - s2 - d0 |          |           |

### PACKING AND STORING

Each pallet is wrapped and protected with waterproof polythene film. Inside storage is recommended to avoid possible wet storing.

<sup>(1)</sup> Values obtained in Isolgomma acoustic laboratory.

The suggestions and technical information given above represent our knowledge regarding the properties and the product's uses. ISOLGOMMA reserve the right to modify or update this data without prior notice. This document is the property of ISOLGOMMA and all rights are therefore reserved.



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## INSTALLATION INSTRUCTIONS

### PLASTERBOARD WALL



Lay the under wall strip in the dry floor.



Fix metal stud on the floor, wall and ceilings



Fix the vertical metal studs on the ceiling and bottom guides by screwing



Fix the gypsum boards on one side.  
Insert the Fybro panel



Cover the insulation layer by screwing the second gypsum boards on the metal studs



Apply the plastic mesh tape in the gypsum boards jointing lines and grouting

### DOUBLE WALL



Lay the under wall strip in the dry floor.



Build the wall.



Build up the wall by caring to joint the blocks with mortar on both vertical and horizontal joints.



Apply in the first wall a layer of row mortar of about 1 cm thickness.



Build the second wall with the same process of the first one and insert the panel in the cavity



Realize the final plastering.



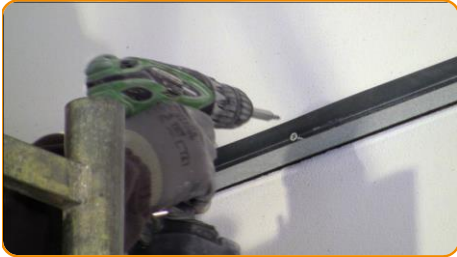
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INSTALLATION INSTRUCTIONS

SUSPENDED CEILING



Fix metal stud along the perimeter of the room at a fixed distance from the ceiling



Mark and fix the acoustic hangers



Fix to hangers the metal studs of primary grid



Fix the metal studs of primary grid along the perimeter channel



Insert the metal stud of secondary grid in the perimeter channel



Fix the metal stud of secondary grid to the primary grid with the appropriate connector



Place on top of the primary and secondary grid the insulation panels



Lean the gypsum board to the metal frame  
Fix the gypsum board by screwing



Apply the plastic mesh tape in the gypsum board jointing lines  
Grouting