

# TECHNICAL DATA

*Fybro*

## Thermal-acoustic insulation for walls and ceilings

### Product description and 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.



- hypoallergenic
- eco-compatible
- not putrefying

PHYSICAL CHARACTERISTICS	Unit	FYBRO 30	FYBRO 50	Tolerance
Nominal thickness	mm	30	50	± 10%
Length	m	1,20		± 0.005
Width	m	0,60		± 0.005
Density	kg/m <sup>3</sup>	40		± 10%
Overall Superficial mass	kg/m <sup>2</sup>	1,2	2,0	± 10%
Colour		green		

ACOUSTIC CHARACTERISTICS	Norm	Unit	FYBRO 30	FYBRO 50
<i>Wall composition - 29 cm thick</i> <i>A: plaster 1,5 cm + hollow brick 12 cm + plaster 1.0 cm</i> <i>B: Fybro 50</i> <i>C: hollow brick 8 cm + plaster 1,5 cm</i>				
Transmission loss (Rw)	EN ISO 10140	dB	-	54 <sup>(1)</sup>
<i>Wall composition - 12.5 cm thick</i> <i>A: gypsum board double layer + 1.25x2 cm ifixed to 75 mm metal frame</i> <i>B: Fybro 30 double layer into metal frame</i> <i>C: gypsum board double layer + 1.25x2 cm ifixed to 75 mm metal frame</i>				
Transmission loss (Rw)	EN ISO 10140	dB	56 <sup>(1)</sup>	-

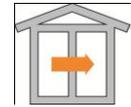
TECHNICAL CHARACTERISTICS	Norm	Unit	FYBRO 30	FYBRO 50
Thermal conductivity coefficient (λ)	EN 12667	W/mK	0,036	
Resistance factor to the spread of water vapour (μ)	EN 12086		3,2	
Fire grade	EN 13501-1		B - s2 - d0	

### PACKING AND STORING

Each pallet is wrapped and protected with a polythene film. Although the wrapping is waterproof, 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



Glue on the metal studs the adhesive strip type Stywall S3-A and fix them 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 and 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



Glue the adhesive strip Stywall S3A to the metal studs and fix them 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



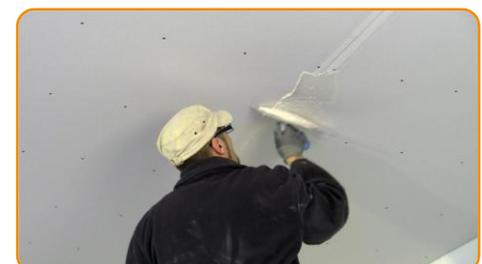
Lean the gypsum board to the metal frame grid



Fix the gypsum board by screwing



Apply the plastic mesh tape in the gypsum boards jointing lines



Grouting