

# PHONOPRILL PLUS 12,5+5 mm



## ADVANTAGES

- Unsurpassed when used with a metal structure
- High noise reduction
- Perfect handling and easy to cut
- Eco-recycled rubber
- Suitable for both walls and ceilings

## DESCRIPTION

Product consisting of a plasterboard sheet bonded to a soundproofing damping layer made up of a mixture of recycled synthetic rubbers. The panel can be applied to a metal grid or, in some cases, it can be glued directly to the vertical surface using a specific adhesive glue. The soundproofing capabilities of the product are so high that it can also be applied to uninsulated walls. To optimise the acoustics, the system can be placed on top of another plasterboard sheet covered with staggered joints.

### SIZE

|           |                   |                        |
|-----------|-------------------|------------------------|
| Thickness | mm                | 12,5+5 mm              |
| Format    | Sheet             | 1,20 x 2 m             |
| Packaging | Pallet            | 72 m <sup>2</sup>      |
| Weight    | Kg/m <sup>2</sup> | 13,0 Kg/m <sup>2</sup> |

### TECHNICAL INFORMATION

|                      |                |       |                                      |
|----------------------|----------------|-------|--------------------------------------|
| Thermal conductivity | R <sub>w</sub> | 33 dB | UNI EN ISO 140/3<br>UNI EN ISO 717/1 |
|----------------------|----------------|-------|--------------------------------------|

# SPECIFICATION TEXT

The sound insulation of walls, false walls, false ceilings is obtained by mechanical fixing of the PHONOPRILL 125+5 sheet consisting of a 12.5 mm thick plasterboard coupled with a 5 mm thick layer of Polyprill rubber granules.

This product has a soundproofing capability of  $R_w=33$  dB.

The sheet measures 1.20 x 2 m.

To optimize the acoustics, the system must be enclosed by another 12.5 or 15 mm plasterboard sheet, making sure to stagger the joints with respect to those of the Phonoprill sheet. All the joints must then be grouted, and the partition finished.

## PAGE EXTRACTED FROM ORIGINAL CERTIFICATE

|  |   |  |
|--|---|--|
| <br>CSI<br>Certificazione e Testing | <b>RAPPORTO DI PROVA</b><br>(Test Report) | Pag. <b>5</b><br>di/of                   |
|  | N° <b>0054-B/DC/ACU/07</b>                | pag. <b>5</b><br>Date: <b>11/06/2007</b> |

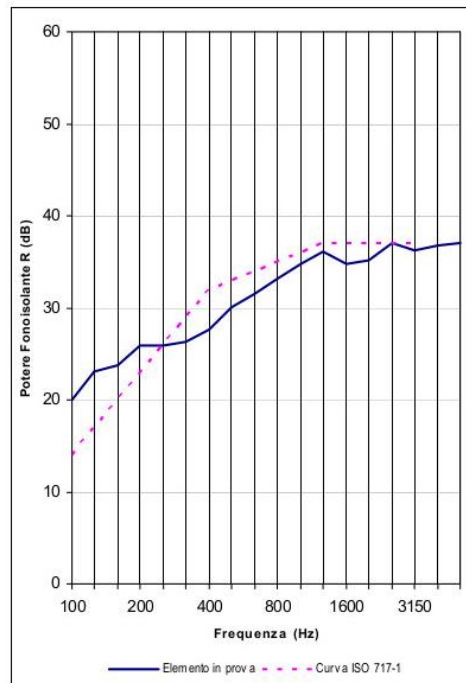
### RISULTATI SPERIMENTALI

Elemento in prova: **Phonoprill 12,5+5**

Area del campione S = 1,3m<sup>2</sup>  
Volume della camera ricevente V = 52m<sup>3</sup>  
Volume della camera emittente 190m<sup>3</sup>

| FREQ.<br>Hz | R<br>dB |
|-------------|---------|
| 100         | 20,0    |
| 125         | 23,1    |
| 160         | 23,7    |
| 200         | 25,9    |
| 250         | 25,9    |
| 315         | 26,4    |
| 400         | 27,7    |
| 500         | 30,0    |
| 630         | 31,6    |
| 800         | 33,2    |
| 1000        | 34,7    |
| 1250        | 36,1    |
| 1600        | 34,8    |
| 2000        | 35,1    |
| 2500        | 37,1    |
| 3150        | 36,3    |
| 4000        | 36,8    |
| 5000        | 37,0    |

$R_w(C;C_{tr}) = 33 (0; -3)$  dB



Valutazione secondo ISO 717-1 (nella banda 100 ÷ 3150 Hz) basata su misurazioni ottenute in laboratorio

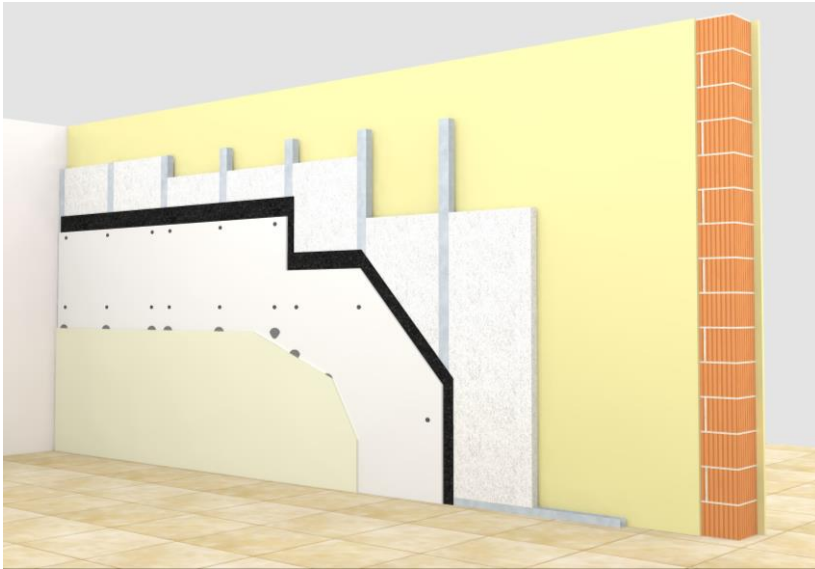
IL RESP. Divisione Costruzioni  
Division Head

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IL RESP. DEL CENTRO  
Managing Director

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## EXAMPLE LAYING



1

Existing brick wall of variable thickness

2

Polywall thermal-acoustic sheet

3

**PHONOPRILL** acoustic sheet fixed to the metal structure

4

Plasterboard sheet fixed at staggered joints with respect to the Phonoprill sheet

## ACCESSORIES FOR CORRECT INSTALLATION



### POLYPRILL STRIP

The product acts as a perimeter and separating band for the vertical partitions, thus preventing the transmission of vibrations. It is laid continuously without interruption at the base of all the walls to be built.



### ROTOCELL AD

This strip is necessary to seal all the joints of the various acoustic products, both for floors and walls.



### ELASTC PAR

The anti-vibration bracket is suitable both for applications on soundproofing false walls and as an anti-vibration suspension for air ducts, motorised systems and other systems in general because it drastically reduces low frequency noise



### ELASTIC ORI

To reduce low frequency noise, available in two thicknesses in The choice of one of the two thicknesses depends on the desired noise reduction, the overall dimensions and design loads.



### NASTRO ALLUMINATO AD

suitable for sealing parquet underlays with vapor barrier

## TECHNICAL INFORMATION

### PLASTERBOARD

| CHARACTERISTIC           | SYMBOLISM    | VALUE                 |
|--------------------------|--------------|-----------------------|
| Thickness                | sp           | 12,5 mm               |
| Unit weight              | P            | 9,3 Kg/m <sup>2</sup> |
| Fire Reaction            | Class        | A2-s1,d0              |
| Thermal conductivity     | $\lambda$    | 0,21 W/mK             |
| Steam resistance factor  | $\mu$        | 10/4                  |
| Longitudinal deformation | $\Delta L_l$ | $\leq 2,4$ mm         |
| Transverse deformation   | $\Delta L_t$ | $\leq 1,2$ mm         |

### RECYCLED NATURAL RUBBER

| CHARACTERISTIC          | SYMBOLISM  | VALUE                 |
|-------------------------|------------|-----------------------|
| Thickness               | sp         | 5 mm                  |
| Densisty                | D          | 680 Kg/m <sup>3</sup> |
| Unit weight             | P          | 34 Kg/m <sup>2</sup>  |
| Reaction to fire        | Class      | B2                    |
| Thermal conductivity    | $\lambda$  | 0,15 W/mK             |
| Steam resistance factor | $\mu$      | permeable             |
| Elongation at break     | $\Delta L$ | 61,5 %                |
| Tensile strength        | $\sigma_t$ | 53 kPa                |
| Working temperature     | T          | -30°C ÷ +80°C         |

**ATTENTION:** This document is not a specific. Will be care of users establish if the product is appropriate for the intended use.

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