

# ISOLfon Barrier

## NOISE BARRIER VISCOELASTIC MEMBRANE

### Description

**ISOLfon - Barrier** is a high performance, flexible, mass-loaded vinyl noise barrier, offering superior acoustic transmission loss. Constructed of non-reinforced blend of polymers compounded mineral filled, without lead and bitumen fillers.

It can be used to increase transmission loss between acoustically sensitive spaces. **ISOLfon - Barrier** offers comfort, privacy, confidentiality and protection from external noise by improving the noise insulation of existing structures through retrofitting over existing walls and covering with gypsum board.

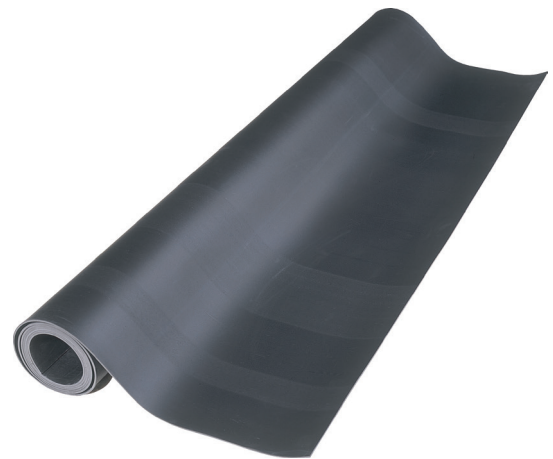
Stiff lightweight panel constructions, such as gypsum board, typically have coincidence dip resonance which allows noise to transmit through a construction. The coincidence dip is dependent on the material's stiffness and thickness and occurs at the point where the sound transmitted through the structure matches the natural frequency of the panel.

**ISOLfon - Barrier** prevents coincidence dip resonance.

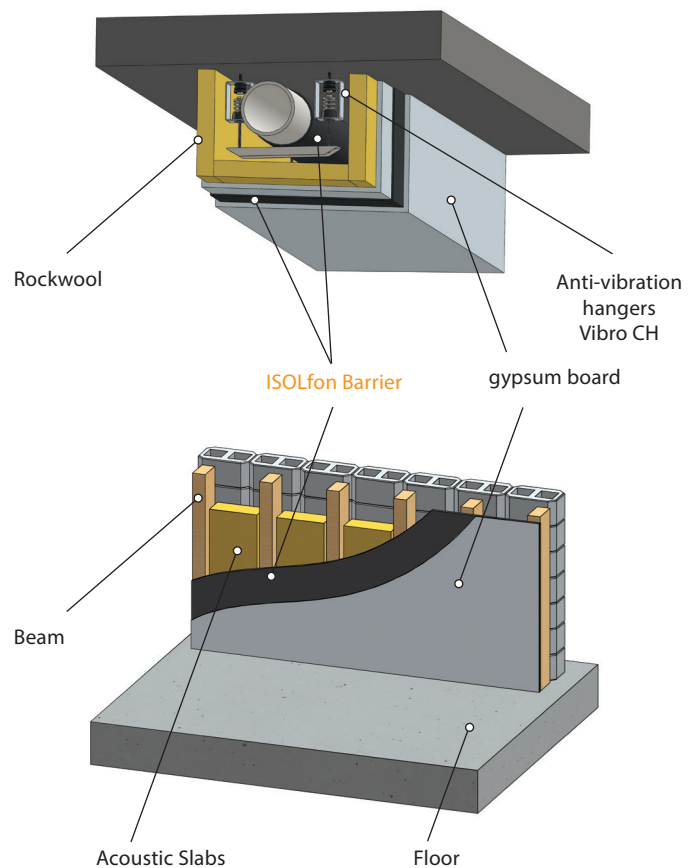
### Applications

**ISOLfon - Barrier** can be used

- Between light weight partitions: wall, ceiling and floor constructions.
- In between of acoustic doors layers.
- Automotive cabin application to reduce engine and road noise transmitting through a structure
- Can be laminated onto lightweight structures to damp vibration and reduce airborne noise
- Piping drainage noise insulation wrapping.



ISOLfon - Barrier roll



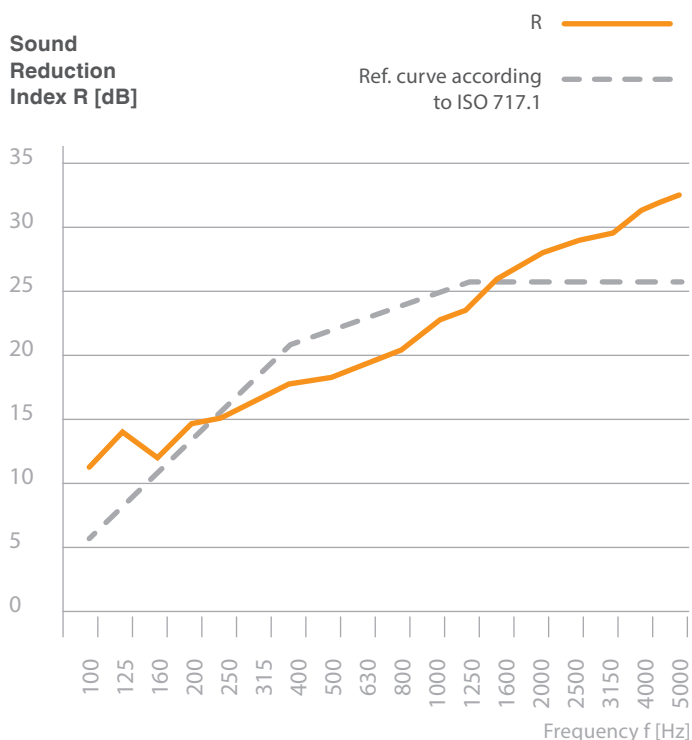
ISOLfon - Barrier Applications

## Technical Characteristics

<b>Tensile Strength</b>	<b>0.9 mPA</b>
<b>Dimensional Tolerances:</b>	<b>&lt; 2% 4 hr at 100 °C</b>
<b>Fire Behaviour:</b> [FMVSS 302]	<b>&lt; 100 mm/min</b>
<b>ISO 3795:1989</b>	<b>&lt; 17.6 mm/min</b>
<b>Temperature Range:</b>	<b>-30°C, +130°C (continuous use)</b>

Weighted Sound Reduction Index according to  
ISO 140.3 & ISO 717.1

**R<sub>w</sub> (C, Ctr) = 26 (0, -3) dB**



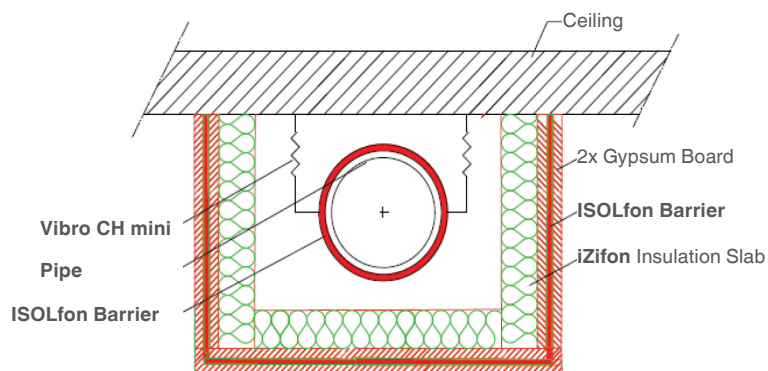
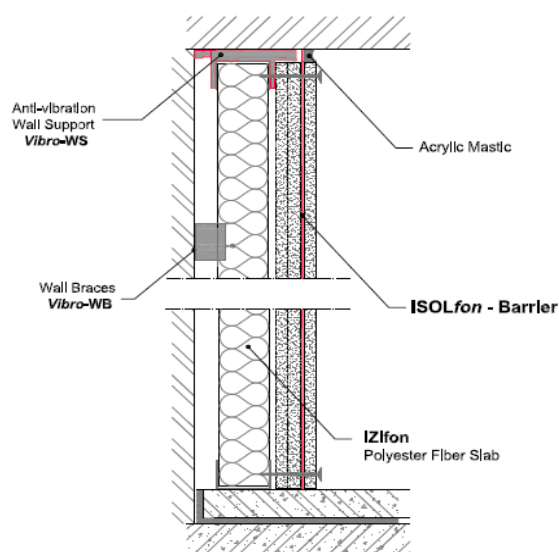
## Dimensions

**BARRIER 3,5 R** **3,5 kg/m<sup>2</sup>**  
rolls 5m x 100cm x 1.8mm

**BARRIER 5 R** **5 kg/m<sup>2</sup>**  
rolls 5m x 100cm x 2.5mm

**BARRIER 10 P** **10 kg/m<sup>2</sup>**  
sheets 120cm x 100cm x 5mm

## Typical Applications



Design and Production according to International  
Standard ISO 9001.2008

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