



## ACUSTIMODUL-80A

Insulating & sound absorbing acoustic panels

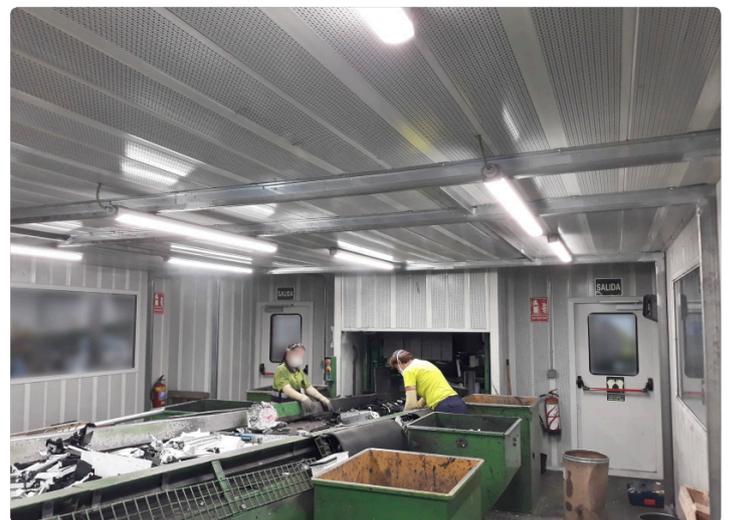
### Presentation

Acustimodul 80 panels range are used for the installation of acoustic cabins, booth and barriers for the soundproofing of all kind of machinery.

### Advantages

Easy and quick to assemble modular panels. Thanks to the dovetail system the unit possesses greater sealing and less leaks, all of which results in greater insulation.

### Applications



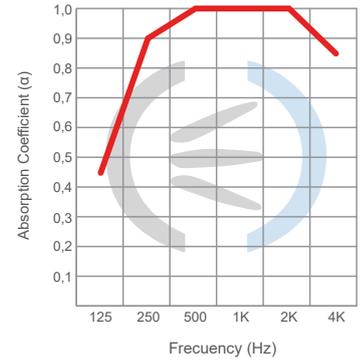
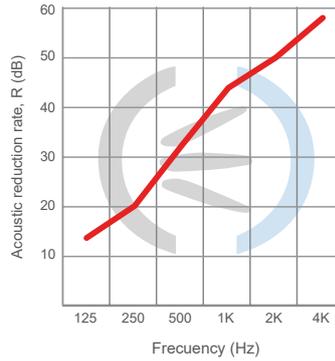
# ACUSTIMODUL-80A

## Insulating & sound absorbing acoustic panels

FC-Acustimodul-80A-EN  
Rev16-13/07/2022

### Technical Data

**Exterior:** 1 mm. pre-lacquered smooth plate.  
**Interior:** 0.5 mm. multi-perforated pre-lacquered plate.  
**Colour:** Light grey similar to RAL 9002.  
**Sound absorbing material:** 70 kg/m<sup>3</sup> rockwool.  
**Finishing:** Rockwool with Black protection tissue.  
**Dimensions of the panels:** 450 x 2000, 2500, 3000 or 4000 mm.  
**Thickness:** 80 mm. Weight: 21 kg/m<sup>2</sup>.  
**Perforation percentage:** 28 %.  
**Maximum allowable working stress:**  $\sigma = 224 \text{ N/mm}^2$ .  
**Young's modulus:**  $E = 210.000 \text{ N/mm}^2$ .



Acustimodul-80A	
Overall acoustic reduction rate, $R_w$ (C;Ctr):	32 (-1;-6) dB
Index to assess airborne sound insulation $DL_R$ :	26 dB - Category B3
Single index to assess the sound absorption $DL_q$ :	15 dB - Category A4
Weighted sound absorption coefficient $\alpha_w$ :	1,00
Acoustic absorption class:	<b>A</b>

### Assembly Instructions



The ground on which the acoustic cabin or enclosures has to be mounted should be totally flat. In the case of acoustic barriers a perimeter leveling concrete band has to be built. Panels should be installed vertically and assembled using the dovetail system. With the help of the special profile, PF80 (see attached diagram) proceed to assemble the 450 mm wide modulated panels. Special width size panels can be manufactured on request according to requirements needs.

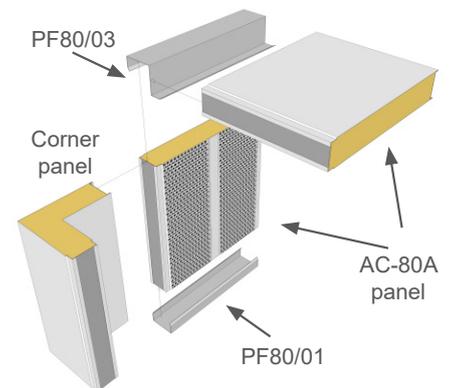
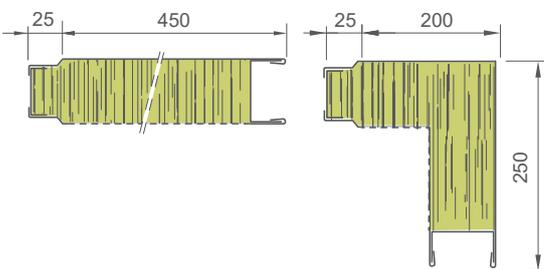
**Cabins or enclosures:** Once the walls have been installed, ceiling assembly can begin using the profiles PF80/03 and finishing profiles PF80/04. For exterior installations where greater leak-proofing is required against rainwater, it is strongly recommended to install an additional waterproof ribbed-panel roof over the cabin.

**Barriers or screens:** We recommend to place reinforced trestles and fixing points every 3 metres.

**Accessories:** Both RSC acoustic doors and VRC or VRCS acoustic glass vision panels are sized to be installed between the modular panels in multiples of 450mm. Silencers for ventilation systems may be installed according to the foreseen global acoustic insulation level.



### Sketches And Plans



### Profile

Made of 1mm pre-lacquered galvanized smooth sheet metal shaped to be assembled with the panels. Maximum length of 3000mm. Special thickness of 2.5mm for barriers and special installations.

