

Description

Acoustichoc® is a high density thermo-acoustic panel manufactured from stone wool faced with a white glass fibre tissue reinforced with a glass grid. The reverse is lined with a natural glass fibre tissue. The panels with their specially designed facings are ideal for sports and industrial environments providing high resistance to impact damage and to humidity.

Applications

Any project requiring a combination of all or some of these properties: acoustic control (especially low frequency noise), durability, resistance to humidity, non-combustibility ; such as, sports halls, multi-function halls, gymnasias, schools and industrial premises.

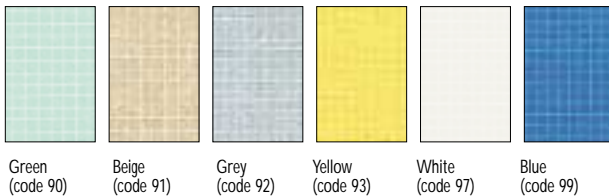


Sizes (modulus) T35 mm

Length	1200 mm	1500 mm
Width	600 mm	1000 mm
Thickness	40 mm	50 mm



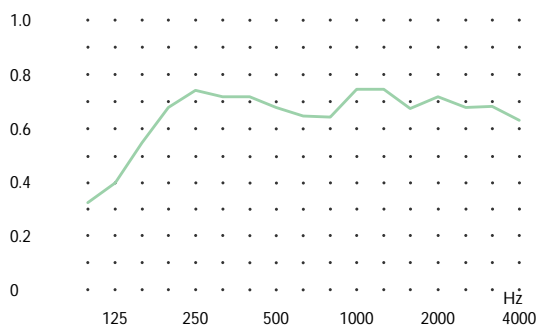
Colours



Acoustic absorption

Acoustichoc® panels provide excellent acoustic absorption, especially at low frequency noise levels. In problematic acoustic environments such as sports halls or plants, it is particularly important that reverberation times are reduced by the use of absorptive materials either on walls or ceiling.

Acoustic absorption coefficient α Sabine



40 mm : $\alpha_w = 0,90$; class A



Fire testing

France :
Acoustichoc® ceilings are classified M0 ; Eurocoustic panels have achieved the highest possible safety standards.
CSTB test report : RA03-0399



Humidity

Maximum resistance to atmospheric humidity: 100 %, ensuring complete rigidity and stability.
CRIR test report : n° 911/510.



Light reflection

White (code 97) : 74%



Thermal insulation values

Thickness	Thermal insulation values
40 mm	$R = 1,14 \text{ m}^2 \text{ K/W}$
50 mm	$R = 1,43 \text{ m}^2 \text{ K/W}$



Impact resistance

The combination of high density stone wool and reinforced facing material give Acoustichoc® high resistance to impact damage as pucks, tennis and golf balls.
CRIR test report : PV N 869/469



Health and environment

Eurocoustic stone wools make it possible to reduce sound nuisance, energy consumption and the emission of greenhouse gases.

The stone wool panels are made with fibres that do not contain any materials classified as carcinogenic (European Directive 97/69/CE).

According to the International Agency for Research on Cancer, stone wools cannot be classified as regards their carcinogenicity to humans (group 3).

We recycle our stone wools.



Installation

Acoustichoc® panels can be installed on a grid system with tees of 35 mm used for suspended ceilings, or flat or inclined under roof panels. Panels should be retained in the framework using a clip and pin to limit movement.

The installation will conform to the requirement of DTU 58-1 standards NFP 68203-1§2 and other DTU in force according to the type of site.

It is recommended that grills be integrated in the ceiling in order to balance pressure between the panels.

