

PLAKA - dBOUND RAFT

Absorption ceiling elements in mineral wool covered with fabric

REF 12.12.23 - Version V01 - 25/08/2020



Description



Plaka-dBound Raft is designed to absorb sound and enables to achieve the optimum level of acoustic comfort, prevents echo and reverberation and ensures enhanced speech intelligibility.

The Plaka-dBound Raft ceiling elements consist of a core of hard pressed mineral wool with a fabric finish. There are several textiles available with many different colours.

These elements provide a high absorption level in a wide frequency range. The Plaka-dBound Raft ceiling elements not only allow to achieve excellent acoustic results but also superb visual characteristics to enhance the dynamics and appearance of any room

Application fields

- In new buildings and in the renovation field as well
- Entrance halls
- Music rooms
- Multifunctional rooms
- Conference rooms
- Restaurants
- Offices



Properties

Mechanical properties	
Material	Sound-permeable fabric (a wide selection of fabric type camira) Hard pressed mineral wool
Colour	Choose from over 40 colours (Colour samples available)
Weight	3 kg/m ²
Flammability	Core of mineral wool : Class 0 BS476 part 6 Fabric : class 1 BS476 part 7 (fabric class 0 on demand)
Dimensions	Square : side 600mm, 800mm, 1000mm or 1200 mm Rectangle: - Short side 800mm, 1000mm or 1200mm - Long side: 900 mm, 1800 mm, 2400 mm or 2700 mm Circle: diameter 800mm and 1150 mm A choice of 28 unique standard shapes
Thickness	25 mm or 40mm

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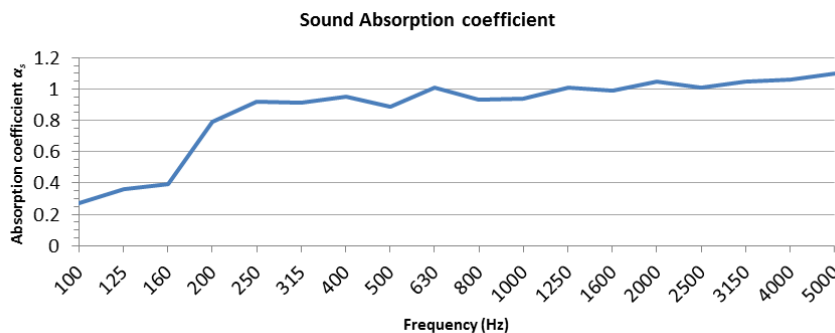


Absorption properties

The following absorption properties apply to panels with a thickness of 25mm and suspended 100mm below the ceiling.

Sound absorption coefficient α_s , measured according to standard EN ISO 354

and α_p practical degree of sound absorption coefficient α_s according to ISO 11654 :



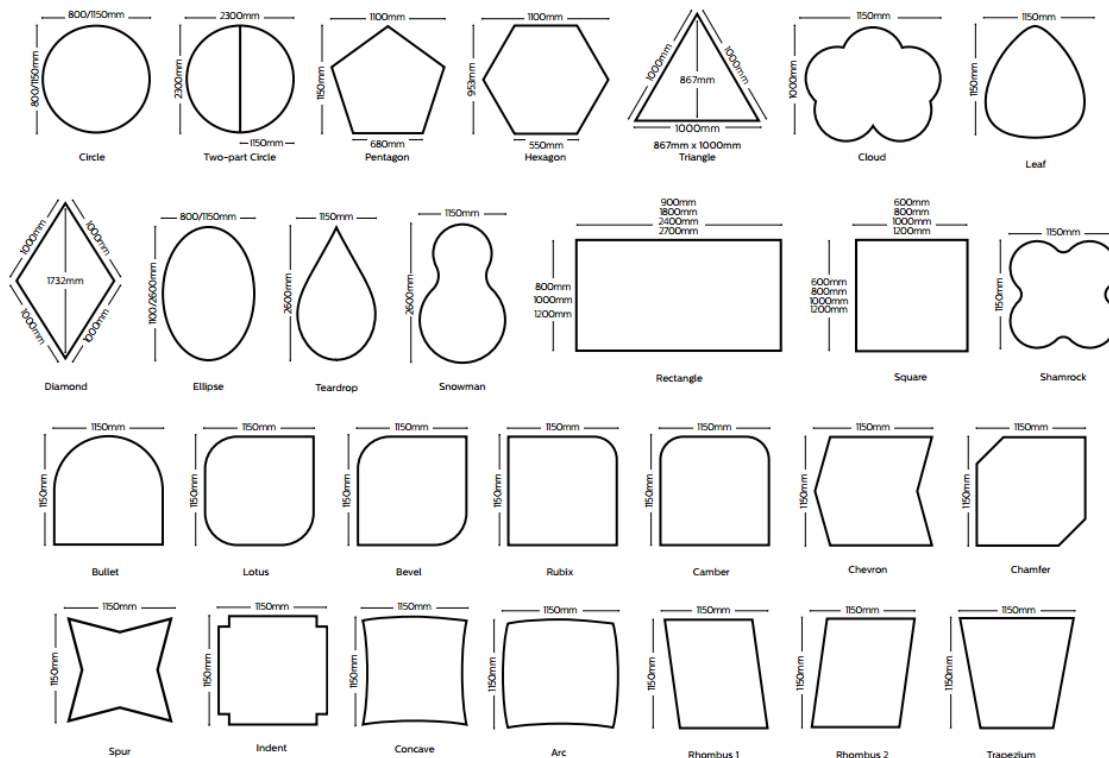
Frequency (Hz)	α_p
125	0,35
250	0,85
500	0,95
1000	0,95
2000	1,00
4000	1,00

α_w rated degree of sound absorption coefficient according to ISO 11654: 1.00

Noise reduction coefficient NRC according to ASTM C 423: 0,95

Sound absorption class: A

Shapes and sizes



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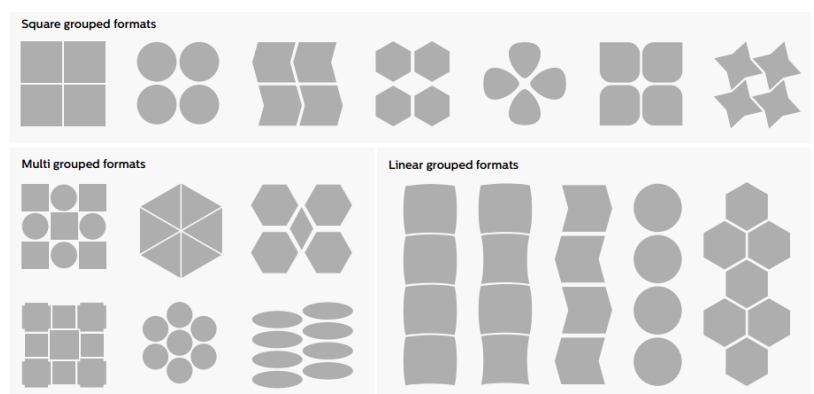
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Combination of acoustic and aesthetic comfort

The acoustic panels are covered with a sound permeable fabric. A selection can be made from an extensive range of fabric colours. The panels are available in 28 unique standard shapes.

The rafts can be hung individually or in innovative groups to create an own unique design as in the examples below:

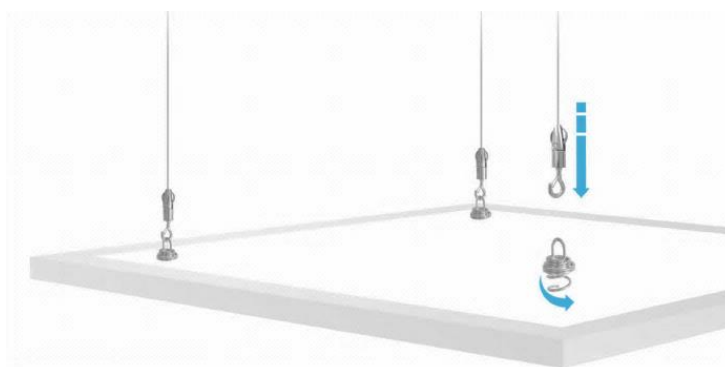


Installation

The installation of the Plaka-dBound Raft elements is easy and quick. The acoustic rafts are simply suspended by steel cables. The spiral hooks should be placed approx. 200mm in from the edge of the Plaka dBound Raft.

Height level adjustment can be carried out by manipulating the length of each cable to suit when it is inserted into the eyelet hook. A hanging kit includes a spiral hook, 2m cable and an eyelet hook.

For angled installations, we recommend the largest panels to be no more than 600mm x 600mm.



The Plaka-dBound Raft ceiling elements must be suspended with clean gloves.

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