

## Technical data sheet - Hawaphon Sound insulation panel

**Application:** **Hawaphon** is a moulded synthetic foil with compartments filled with steel pellets (1 mm diameter). The fact that the compartments are filled loosely guarantees a low flexural strength. The friction losses among the pellets give rise to a particularly high degree of internal attenuation.

**Hawaphon HAWAPHON** is glued to the full surface of construction panels and is highly effective in sound insulating. It is suitable for use on doors, roller blind boxes, wooden beamed ceilings, facings on solid walls, facades, dividing walls and cupboard partitions.

**Sound insulation:  
amazingly effective**

In the field of acoustics, one and one does not always equal two and an ever greater mass does not always mean better insulation either. It is also the elastic properties and internal friction losses of a construction component that help determine the insulation capacity.

Especially in this weight range of construction panels (approx. 5-30 kg/m<sup>2</sup>), the sound insulation breaks down with increasing mass as a result of the increasing flexural strength of the construction components.

Here are no such discordant notes with **Hawaphon**, however, for the flexural strength remains constantly low in spite of a high mass. For example, the **Hawaphon** panel improves the sound insulation of a 19 mm thick chipboard panel from 30 dB to 38 dB. For the ear, this means almost a 50% reduction.

**Panel construction:** Thermoformed, white PP synthetic foil filled with steel pellets (approx. 11 kg/m<sup>2</sup>) and sealed with a transparent cover film of polyester.

**Article number:** 38000

**Panel dimension:** 1'140 x 730 x 5 mm

**Panel weight:** 9,2 kg/panel or 11 kg/m<sup>2</sup>