

EWONA[®]

FOR PERFECT ACOUSTICS

- ☐ *Ewona Acustica[®] Basic*
- ☒ *Ewona Acustica[®] Excellence*
- ☐ *Ewona Acustica[®] Premium*
- ☐ *Ewona Acustica[®] 10*

PERFECT INDOOR CLIMATES FOR WORK AND REST



Ewona® acoustic panels are made from heat-bonded polyester fibres. The recycled fibre content of the material is 65% on average. Acoustic panels have been granted the right to use the Allergia- Iho- ja Astmaliitto's (Allergy, Dermatitis and Asthma Association) allergy symbol. The products have also been awarded M1 emission classification.

Acoustic panels do not trap moisture and, therefore, do not provide a breeding ground for mould or other microbes. The dust-free panels are easy to install, and working without protective equipment does not irritate the respiratory tracts or skin. Ewona acoustic panels will not subsequently release harmful particles into the indoor air.



Use

Ewona® acoustic panels are suitable for almost any construction when the goal is to create comfortable and healthy indoor climates. The products absorb sound and can be used to control echoes. They also provide thermal insulation.

Acoustics is one of the most important aspects of any interior design, because acoustics has a significant impact on well-being, health and stamina. Ewona acoustic panels, favored by professionals, are easily moldable and suitable for most spaces.

The acoustic panels are attached without painting and encapsulation, so e.g. making holes does not cause indoor air quality problems later on. Ewona Acustica acoustic panels are particularly suitable for several applications.

Places of use

- Hospitals and nursing homes
- Schools and kindergartens
- Swimming halls
- Sports facilities
- Cinemas and concert halls
- Offices
- Industrial halls and production facilities
- Residential construction
- Many other facilities



Coating

The Ewona Acustica® Excellence acoustic paneling has an acoustic coating. The standard colours are white, grey, and black; other colours are available on special order. The coated Ewona Acustica panels are designed to be glued to suspended ceilings, the ceiling, or the wall, with the coloured surface facing outwards.



Technical specifications

Density (kg/m ³)	24 (50 mm panel), 30 (40 mm panel) ja 36 (30 mm panel)
Panel size (mm)	592 x 592, 592 x 1192 or customer's measurements
Thicknesses (mm)	Common sizes 30, 40, 50, up to 100mm on special request
Uncoated panel colors	White, black, and grey
Coated colors; in store	White, black, and grey
When installing onto a surface, you can use e.g. the following adhesives:	- 1022 Acoustic panel adhesive - 1050 fire-retardant adhesive - FinnTetx-Tetrakem 1021 panel and tile adhesive

EWONA ACUSTICA® EXCELLENCE



Acoustic properties

Absorption classification in roof and wall acoustics

Panel thickness 50mm	Ceiling: A installed onto a surface, A on suspended ceilings Walls: A installed onto a surface, A on suspended ceilings
Panel thickness 40mm	Ceiling: A installed onto a surface, A on suspended ceilings Walls: A installed onto a surface, A on suspended ceilings
Panel thickness 30mm	Ceiling: C installed onto a surface, A on suspended ceilings Walls: C installed onto a surface, A on suspended ceilings

Sound attenuation coefficient α_s , by octave band

Installation & product **125Hz** **250Hz** **500Hz** **1000Hz** **2000Hz** **4000Hz**

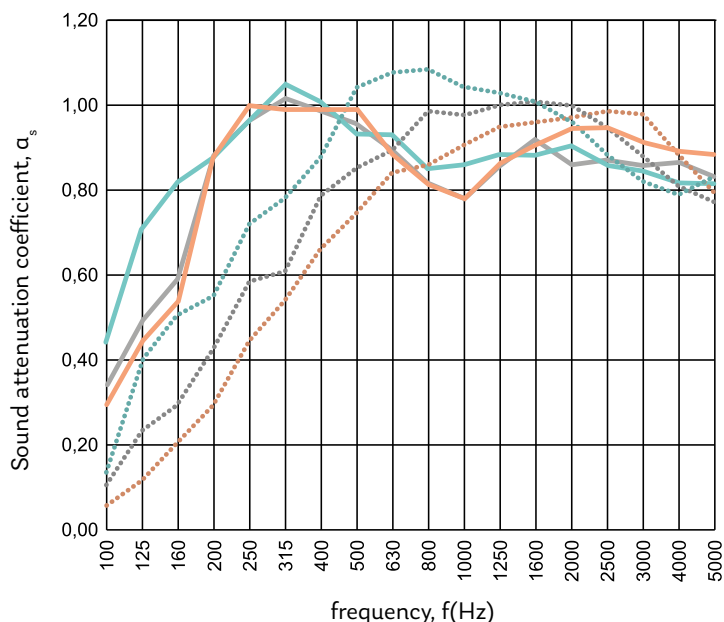
Suspended, type E-2000 installation

30mm panel	0,43	0,95	0,95	0,82	0,94	0,90
40mm panel	0,48	0,96	0,95	0,82	0,89	0,85
50mm panel	0,66	0,96	0,96	0,87	0,89	0,83

Type A installation directly onto the surface

30mm panel	0,13	0,43	0,75	0,91	0,98	0,88
40mm panel	0,21	0,55	0,85	0,99	0,99	0,82
50mm panel	0,35	0,69	1,00	1,05	0,96	0,82

Sound attenuation coefficient α_s , by one-third-octave band



Ewona Acustica® Excellence

- Suspended, type E-200 installation
- Type A installation directly onto the surface
- 30 mm panel thickness
- 40 mm panel thickness
- 50 mm panel thickness

Absorption classes

Panel thickness 50 mm

E-200: Class A

Type A: Class A

Panel thickness 40 mm

E-200: Class A

Type A: Class A

Panel thickness 30 mm

E-200: Class A

Type A: Class C



Impact resistance

Impact resistant, class 1A, EN 13964



Cleaning

Clean Ewona Acustica® products by vacuuming or brushing. You can remove stuck-on dirt by wiping with a damp cloth. Do not use strong solvents, only water and a diluted detergent solution.



Fire classification

The fire rating of Ewona Acustica® acoustic panels is determined in accordance with EN 13501-1. The method of installation affects the fire class. If the panel will be coated with, for example, plasterboard, the fire class is determined by the plasterboard.

Installation method	Fire class
On a surface	Bs1d0
Suspended	Bs1d0

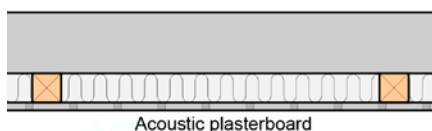


Installation

The Ewona Acustica® acoustic panels are easy and comfortable to install. The installation method is determined based on the application. The pictures show a variety of different installation options. When installing onto a surface, e.g. the following methods are suitable: Fintex Tetrakem 1022 Acoustic and Installation Adhesive, and if necessary, Fintex Tetrakem 1050 Fire Resistant Adhesive.

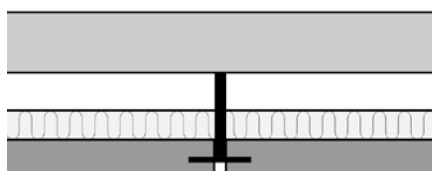
When installed to improve background acoustics for sound reduction above plasterboards and grated ceilings, the Ewona Acustica acoustic panels can be installed without surface coating. The coated panels are installed with the coated side facing outwards.

Ewona® has created its own purpose-made tools for cutting and making holes, but you can use any kind of tools as long as they don't have serrated edges. For example, a foam cutter or similar is very suitable for cutting coated panels.



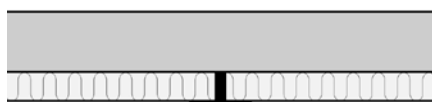
1. Installation between wall framing

The acoustic panels are placed in between the wall framing. Acoustic material, such as acoustic plasterboard, is used in the sheeting, e.g. acoustic plasterboard.



2. Acoustic suspended ceilings: E.g. coffered ceilings

Installation to the ceiling with e.g. a T-bar, intermediate and double corner mouldings (set between the wall and the panel), as well as quick springs and suspension bars. In coffered ceilings, the acoustic panels should be installed on top of the coffers.



3. Mounting to intermediary moulding

Buffer seam installation directly onto the ceiling with e.g. Fintex Tetrakem 1022 Acoustic and Installation Adhesive or Fintex Tetrakem 1050 adhesive. A plastic seam cover moulding should be installed between the panels.



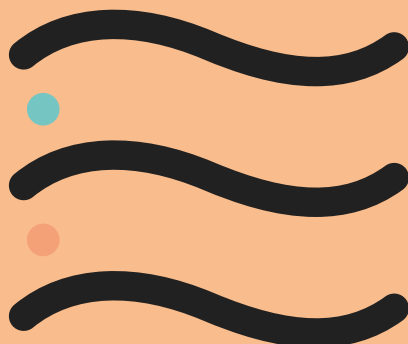
4. Open seam mounting

Installation directly on the ceiling with e.g. Fintex Tetrakem 1022 Acoustic and Installation Adhesive or Fintex Tetrakem 1050 adhesive. Leave an open seam of 5–10 mm between the panels. Recommended only for spaces with high ceilings (gyms, swimming pools) for visual reasons, as the panel edges are not coated.



Disposal of material

At the end of their life cycle, Ewona Acustica® acoustic panels can be sent for textile recycling.



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