

Ecophon Fade™ ONE Smooth acoustic plaster – Material & specification description

Acoustic ceiling:

- Seamless acoustic ceiling consisting of acoustic panels made of glass wool with a thickness of 15, 25 or 40 mm and acoustic plaster containing volcanic perlite. Smooth sanded finish.

Installation:

Installation of the glass wool acoustic absorbent 15mm, 25mm or 40 mm thick:

- 1) Panels mounted by Fade Special Washers and screws directly to a suspended steel substructure
or
- 2) Panels mounted to a suspended plasterboard by Fade Special Washers or Fade Special Adhesive
or
- 3) Panels directly mounted to soffit by using Fade Special Adhesive or Fade Special Washers and screws

Installation of the acoustic plaster:

- Joints must be prepared with Fade Special Tape and filled with same acoustic plaster as for the entire installation
- Plaster must be spray applied in two layers with troweling, drying and sanding in between the two layers
- Plaster installed with Fade Colour Dye must be installed with a fine texture as final surface

Acoustic board:

- The acoustic board must be produced using a minimum 70% post-consumer recycled content mainly from recycled glass bottles and jars.

Acoustic plaster finish / Seamless acoustic ceiling finish:

- Two layers of acoustic plaster coats with smooth finish, anti-static, microporous acoustic plaster
- Same acoustic plaster must be the used in all coats and in filling of joints and irregularities
- Acoustic plaster to be used also in joint fillings, maximizing the acoustics area
- Light reflectance of the acoustic plaster must be 73%
- Standard colour of the acoustic plaster must be White NCS S 1002-Y20R, Gloss < 1
- The acoustic plaster must be able to be mixed with a colour additive before application

Indoor climate:

- Must comply with the French regulation on VOC emissions, A+ level
- Must comply with Finsh M1 certificate

Durability and maintenance:

- The product must have a resistance to humidity (RH 100%, 40°C) - ISO DS/EN 6270-2
- The acoustic plaster can be repaired and re-sprayed.
- Surface dust and dirt can be cleaned with a soft, dry brush or compressed air

Sustainability

- The carbon footprint for the acoustic plaster including acoustic board must be 3,38 / 4,54/ 6,27 kgCO₂eq. per m² (GWP-TOT life cycle stages A1-C4 from EPD according to EN 15804+A2) depending on acoustic board thickness used.

Fire rating:

- A2s1d0 as per ISO EN 13501-1

Acoustic Absorption:

- Acoustic measurements should be done according to EN ISO 354 and classified according to EN ISO 11654, and the single value rating for Noise Reduction Coefficient, NRC, according to ASTM C 423.
- The ceiling should have a weighted sound absorption coefficient α_w of minimum 0.85 with 25 mm (overall depth of system: 200mm) or 0.95 α_w with 40 mm acoustic board (overall depth of system: 45 mm)

Suitable substrates:

- Regular gypsum wallboard, MF metal drywall grid system 400 mm c/c or similar, concrete, previously painted substrates, timber/steel frame 400 mm c/c

System weight

- The weight of the system (including suspension grid) should be 3 – 7 kg/m² for the direct fixed mechanical or glued. 5 – 8 kg/m² for direct mechanical installation to suspended grid system. For system mechanical or glued to plasterboard fixed to suspended grids 14 – 18 kg/m²