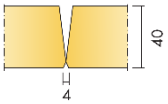
## Ecophon Hygiene Performance™ B

Edge design




The ceiling shall consist of suspended glass wool panels, Ecophon Hygiene Performance™ B, with a bevelled edge design creating a narrow groove between each tile. The visible surface of the ceiling tile shall be Akutex™ HS, a white-painted glass fiber veil with water and stain-resistant properties and resistance to the most common detergents and disinfectants. The edge shall be painted.

**Format:** 600x600x40 or 1200x600x40

**Installation:** The panels shall be installed directly to the soffit using installation method M638. The system shall include Connect™ absorber glue. The panels shall be bonded edge-to-edge to the soffit surface, creating a ceiling with a smooth appearance. The panels shall not be demountable. Minimum demounting depth shall follow the selected installation method.

**System weight:** The weight of the system shall be approximately 3.7 kg/m$^2$.

**Visual appearance:** The closest NCS colour of the surface shall be, NCS S 0500-N, with a light reflectance of 84%

**Fire safety:** The ceiling panels shall be classified as A2-s1,d0 according to EN 13501-1. The glass wool core of the panel shall be classified as non-combustible according to EN ISO 1182.

**Acoustic absorption:** The sound absorption shall be measured according to EN ISO 354 and classified according to EN ISO 11654

| THK mm | o.d.s mm | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 HZ | 4000 Hz | $\alpha_w$ | sound absorption class |
|---|---|---|---|---|---|---|---|---|---|
| *40* | 43 | 0.*15* | 0.*70* | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | A |

**Humidity resistance:** The panel must remain 100% stable in environments with up to 95% relative humidity and 30°C. The panels shall be classified as class C according to EN 13964:2014, Annex F.

**Mould and bacteria resistance:** The panels shall not serve as a breeding medium for mould and bacteria. The panels shall be tested and classified according to ISO 846:2019 methods C (bacteria) and ASTM D3273-16 (fungal growth). The panels shall be classified as class 0 (No growth under the microscope) according to ISO 846:2019 and class 10 (0% growth on the surface) according to ASTM D3273-16

**Clean room:** The ceiling system shall be classified as ISO 4 according to ISO 14644-1:2015. The ceiling tiles shall be approved for rooms of risk zone 4 according to NF S90-351. The panels shall be classified CP(0.5)5 for particle elimination kinetics according to NF S90-351.

**Surface endurance:** To ensure durability of the surface, the panel shall be tested according to ISO 11998 and withstand 200 scrub cycles without any visible damage.

**Cleanability:** The ceiling panel shall withstand frequent and intensive cleaning procedures suitable for hygiene-critical environments. It shall be cleanable using the following methods with a maximum recommended frequency of:

- Daily dusting
- Weekly wet wiping
- Steam cleaning 4/year

The panel shall also tolerate periodic disinfection using hydrogen peroxide vapor and be resistant to UV-C exposure as per BIFMA HCF 8.1-2019.

**Chemical resistance:** The ceiling panel shall be resistant to chemical exposure and maintain surface integrity when subjected to common disinfectants and cleaning agents. The product shall be tested according to ISO 11998, showing resistance to the following substances at the specified concentrations:

| Chemical | Concentration |
|---|---|
| Ethanol | 70% |
| Chlorine | 2.5% |
| Virkon S | 1% |
| Isopropanol | 70% |
| Actichlor plus | 1% |
| LifeClean | Undiluted |
| Oxivir Excel | 0.5% |
| Sumabac D10 | 1% |
| Suredis VT1 | 1% |
| Enduro Chlor YES | 1.5% |
| Aciplusfoam VF59 | 5% |

The panel must not show visual damage, discoloration, or loss of function after exposure to these chemicals under standard test conditions.

**Indoor air quality:** The ceiling panel shall be classified as A+ according to the French VOC regulation and hold Eurofins Indoor Air Comfort Gold certification.

**Circularity:** The panels shall consist of a minimum 57% post-consumer recycled content and be fully recyclable

**CE marking:** The ceiling system must be CE marked according to the European harmonized standard EN13964:2014.