Ecophon Hygiene Advance™ Baffle

Edge design

The ceiling shall consist of vertically suspended, free-hanging glass wool panels, Ecophon Hygiene Advance™ Baffle, with straight edge design. The glass wool shall be fully encapsulated in a high-performance film that is impervious to particles and water.

Format: 1200x600x40 mm

Installation: The panels shall be installed in the Ecophon Connect™ grid system using installation method M259 or M260. The system shall include Connect™ T24 main runners (C3), suspended every 600 mm or 1250 mm with Connect™ adjustable hangers (C3), and Connect™ cross tees (C3) of 1250 mm or 600 mm. Cut tiles must be sealed with Connect Hygiene Advance™ Tape. Penetrations must be sealed with a suitable sealant.

System weight: The weight of the system (including suspension grid) shall be approximately 4 kg/m^2.

Visual appearance: Closest NCS color of the surface shall be NCS S 1000-N, 73% light reflectance

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 354:2003 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	α_w	sound absorption class
In rows	40	600	0.25	0.30	0.55	0.85	0.85	0.70	0.55	D
In rectangles	40	600	0.35	0.35	0.60	0.80	0.85	0.75	0.60	C

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 J.

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 class 3 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)1 for particle elimination kinetics according to NF S90-351.

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 with a maximum recommended frequency of daily cleaning.

- Dusting
- Wet wiping
- Steam cleaning
- Low-pressure cleaning
- High-pressure cleaning

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 2812-1 and classified according to ISO 4628-1, showing resistance to the following substances at the specified concentrations:

Chemical	Concentration
Formalin	37%
Ammoniac	25%
Hydrogen peroxide	30%
Sulfuric acid	5%
Phosphoric acid	30%
Peracetic acid	15%
Hydrochloric acid	5%
Isopropanol	100%
Sodium hydroxide	5%
Sodium hypochlorite	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, certified as M1 according to the Finnish Emission Classification of Building Materials, and hold Eurofins Indoor Air Comfort Gold certification.

Circularity: The panels shall consist of a minimum 64% post-consumer recycled content and be fully recyclable

Carbon footprint: The environmental impact of the ceiling panels shall be assessed in accordance with ISO 14025 and EN 15804, covering life-cycle stages A1 to C4.

The global warming potential shall not be more than 16.23 kg CO_2-equivalent per m^2

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