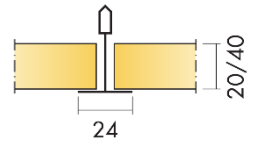


Ecophon Hygiene Protec™ Air A 20/40

Edge design



The ceiling shall consist of suspended glass wool panels, Ecophon Hygiene Protec™ Air A, with a straight edge design. The visible surface of the ceiling tile shall be Akutex™ HP, a white-painted glass fiber veil with particle repellent properties and resistance to the most common detergents and disinfectants. The edges shall be painted, and the backside shall be covered with a tight, painted glass fiber tissue, making it suitable for areas requiring air pressure control.

Format: 600x600x20, 600x600x40, 1200x600x20 or 1200x600x40 mm

Installation: The panels shall be installed in the Ecophon Connect™ grid system using installation method M496. The system shall include Connect™ T24 main runners (C1), suspended every 1200 mm with Connect™ adjustable hangers (C1), and Connect™ cross tees (C1) of 1200 mm and 600 mm.

Panels shall be secured using Connect™ Hygiene clips (20 or 40), which shall be easily removable to allow full panel demountability. Cut perimeter tiles shall have their edges sealed with Connect™ Edge Sealant. Where required, the installation should include Connect™ Inspection Hatch (C3). Minimum demounting depth shall follow the selected installation method.

System weight: The weight of the system (including suspension grid) shall be approximately 3 kg/m² for 20 mm thickness and 4 kg/m² for 40 mm thickness.

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	α_w	sound absorption class
20	200	0.50	0.60	0.70	0.85	1.00	0.90	0.80	B
40	200	0.55	0.80	0.80	1.00	1.00	0.95	0.90	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 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.

Air pressure: The ceiling panels shall be suitable for areas with pressure differentials. The panels shall withstand pressure differentials of up to ± 50 Pa, and the air leakage shall be tested and declared according to EN ISO 9972 :2015.

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%

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 38% 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 4.45 kg CO₂-equivalent per m² for 20 mm ceiling panels.

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