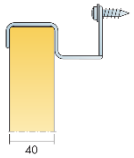
Ecophon Hygiene Performance™ Wall

Edge design



The wall shall consist of suspended glass wool panels, Ecophon Hygiene Performance™ Wall, with a straight edge design. The visible surface of the 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 edges shall be painted, and the backside shall be covered with Akutex™ HS, making it fully sealed and cleanable on both sides.

Format: 1200x600x40 mm

Installation: The panels shall be installed in the Ecophon Connect™ grid system using installation method M467. The system shall include Connect™ wall fixing C3.

System weight: The weight of the system (including suspension grid) shall be approximately 4 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 wall 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
40	80	0.*35*	0.*85*	1.00	1.00	1.00	0.95	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 wall panel shall be classified as ISO class 4 according to ISO 14644-1:2015. The wall panel 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 wall 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
- Low pressure cleaning 2/year
- High pressure cleaning 2/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 wall 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 wall 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 54% post-consumer recycled content and be fully recyclable

Carbon footprint: The environmental impact of the wall 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 7.13 kg CO_2-equivalent per m^2

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