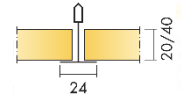


HYGIENE PERFORMANCE PLUS A

Visual design edge



The ceiling should consist of suspended glass fiber ceiling panels Ecophon Hygiene Performance Plus (edge A) with straight edge design. Format 600 x 600 x 20 mm, 1200 x 600 x 20 mm, 600 x 600 x 40 mm, 1200 x 600 x 40 mm, installed with Ecophon Connect grid system: Connect T24 Main runners C3 suspended every 1200mm with Connect Adjustable hanger C3, and Connect T24 Cross tees C3 of 1200mm and 600mm length.

The weight of the system (including suspension grid) should be approximately 3,5 kg/m² for 20mm thickness and 5 kg/m² for 40mm thickness. The visible surface of the ceiling tile should be Akutex™ HS, colour White 500, water-based painted, easy-to-clean surface for hygiene applications where there are high demands for wet cleaning. The edges should be painted. The rear surface of the ceiling tile should be cleanable. Connect grid system colour should be Connect White 01.

Installation: The system should be installed according to Ecophon installation guide M466. Edges of cut perimeter tiles should be coated with Edge Sealant. The panels should be easily removable but can be immobilized with Ecophon Connect Hygiene Clip 20 or 40. The minimum height of demountability should be according to the chosen installation method.

Visual appearance: The closest NCS colour of the white visible surface of the panels and the grids should be S 0500-N. The ceiling surface should have a light reflectance of 84%.

Acoustic absorption: The ceiling should be of sound absorption class A, have a weighted sound absorption coefficient α_w of 0.90 and octave band practical sound absorption coefficients (overall depth of system: 200mm) of:

THK mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
20	0.55	0.80	0.85	0.90	1.00	0.95
40	0.55	0.80	0.85	0.95	1.00	0.95

Values should be measured according to EN ISO 354 and classification according to EN ISO 11654.

Fire safety: The ceiling tiles should be classified A2-s1, d0 according to EN 13501-1; the grid system should be A1. The glass wool core should be tested and classified as non-combustible according to EN ISO 1182.

Mechanical Stability: panels should remain 100% stable in environments reaching up to 95% relative humidity and 30°C temperature. They should be tested according to EN 13964:2014, Annex F.

Indoor Health and Wellbeing: Ceilings panels should comply with the French regulation on VOC emissions, A level. They should also be certified by the Finnish Building Information Group (RTS) with the M1 label. The panels should be free from Substances of Very High Concern (SVHC) above 100 ppm as defined by the European REACH regulation (No 1907/2006).

Mould and Bacterial Resistance: Ceilings panels should have mould and bacterial resistance classification 0 from method A and C according to ISO 846.

Environmental Footprint: Lifecycle assessment (LCA) of the ceiling panels should be performed according to EN 15804 and ISO 14025 and should be third-party verified in an Environmental Product Declaration (EPD). CO₂ emissions of a panel during its lifetime should not exceed 3.21kg CO₂ equiv / m² for 20mm thickness and 4.98kg CO₂ equiv / m² for 40mm thickness.

Circularity: The minimum post-recycled content of ceiling tiles should be 44% for 20mm thickness and 54% for 40mm thickness. Tiles and grids should be 100% recyclable.

CE marking: The ceiling system should be CE-marked according to the harmonised standard EN 13964:2014 ("Suspended ceilings, requirements and tests methods"), with relevant Declarations of Performance (DoPs) issued.

Cleaning: The ceiling tiles should withstand daily dusting and vacuum cleaning. The ceiling tiles should withstand wet wiping, low pressure cleaning, steam cleaning and the use of hydrogen peroxide vapour. The ceiling tiles should also be resistant to high pressure cleaning. Detailed cleaning protocols to be followed are available on ecophon.com.

Surface Endurance: The ceiling tiles should be able to withstand 200 scrubbing cycles, tested according to ISO 11998.

Chemical Resistance and Disinfection: The ceiling tiles should withstand the use of Actichlor plus, LifeClean, Etanol, Chlorine, Virkon S, Isopropanol, Oxivir Excel, Sumabac D10, Suredis VT1, Enduro Chlor VE5 and Acipusfoam VF59. Resistance tested according to ISO 11998.

Clean Room: The ceiling tiles should be classified as ISO 4 in standard conditions according to ISO 14644-1:2015. The ceiling tiles should be approved for rooms of risk zone 4 according to NF S90-351:2013.