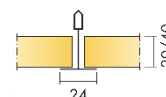


HYGIENE ADVANCE A

Visual design edge



The ceiling should consist of suspended glass fiber ceiling panels Ecophon Hygiene Advance (edge A) with straight edge design. Format 600x600x20 mm, 1200x600x20 mm, 600x600x40 mm, 1200x600x40 mm, installed with Ecophon Connect grid system: Connect T24 Main runners C3 or C4 suspended every 1200 mm with Connect Adjustable hanger C3 or C4, and Connect T24 Cross tees C3 or C4 of 1200 mm and 600 mm length.

The weight of the system (including suspension grid) should be approximately 3 kg/m² for 20 mm thickness and 4,5 kg/m² for 40 mm thickness. The ceiling panels should be fully encapsulated in Advance impervious film, colour White 141, applicable for the most demanding conditions and can sustain daily high pressure cleaning and disinfection with strong chemicals. The encapsulated panel should in a clipped system result in air permeability of 1.1 m³/(hxm²xPa) for 20mm and 0.3 m³/(hxm²xPa) for 40 mm. Connect grid system colour should be Connect White 01.

Installation: The system should be installed according to Ecophon installation guides M252C3 or M246C4. Edges of cut perimeter tiles should be sealed with Connect Hygiene Advance Tape. 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 NCS S 1000-N. The ceiling surface should have a light reflectance of 73%.

Acoustic absorption: The ceiling should be of sound absorption class B for 20 mm thickness and A for 40 mm thickness and have a weighted sound absorption coefficient α_w of 0.85 (20 mm)/0.90 (40 mm) and octave band practical sound absorption coefficients (overall depth of system: 200 mm) of:

THK mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
20	0.40	0.70	0.75	0.85	0.95	0.75
40	0.45	0.75	0.90	0.95	0.95	0.70

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).

Circularity: 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, vacuum cleaning, wet wiping, low pressure cleaning, steam cleaning and the use of hydrogen peroxide vapour. The ceiling tiles should also be resistant to daily 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 Formalin, Ammoniac, Hydrogen peroxide, Sulfuric acid, Phosphoric acid, Peracetic acid, Hydrochloric acid, Isopropanol, Sodium hydroxide and Sodium hypochlorite. Resistance tested according to ISO 2812-1 and classified according to ISO 4628-1 and VDI 2083 Part 17 with result 'excellent' for each chemical.

Clean Room: The ceiling tiles should be classified as ISO 3 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 and should also be verified to meet particle elimination kinetics corresponding to CP(0,5)1.