ECOPHON PERFORMANCE BAFFLE

Visual design edge

The system should consist of glass fiber acoustic free-hanging units Ecophon Hygiene Performance Baffle in dimension 1200x600x50mm, hanging vertically and installed with Ecophon Connect grid system: Connect T24 Main runners C3 or C4 suspended every 1200mm with Connect Adjustable hanger C3 or C4 and Connect T24 Cross tees C3 or C4 of 600mm length. The baffle consists of Ecophon Hygiene Performance™ Baffle or Ecophon Hygiene Performance™ Baffle/C4 with Hook and Akutex™ HS surface on both sides. The edges are straight cut and painted. Ecophon Hygiene Performance Baffle system is easily demountable.

The weight of the system (including suspension grid) should be approximately 5 kg/m². Both sides of the panel should feature the Akutex™ HS, colour White 500, water-based painted, easy-to-clean surface for areas with high humidity, occasional direct water and high demands for wet cleaning. The edges should be painted.

Installation: The system should be installed according to Ecophon installation diagram M476C3 or M477C3 or M443C4. The minimum height of installation 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 baffle surface should have a light reflectance of 84%.

Acoustic absorption: The panel type Hygiene Performance Baffle should have the following sound absorption values:
Sound absorption coefficient

	o.d.s	αp Practical sound absorption coefficient						
	mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	αw
In rows	600	0.45	0.40	0.75	0.90	0.90	0.85	0.70
In rectangles	600	0.70	0.45	0.80	0.90	0.90	0.85	0.75

Test results according to EN ISO 354:2003

Fire safety: The baffles 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: Baffles 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: Baffles 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 baffles 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: Baffles should have mould and bacterial resistance classification 0 from method A and C according to ISO 846.

Environmental Footprint: Lifecycle assessment (LCA) of the baffles panels should be performed according to EN 15804 and ISO 14025 and should be third-party verified in an Environmental Product Declaration (EPD). CO_2 emissions of a panel during its lifetime should not exceed 6.73 kg CO_2 equiv / m².

Circularity: The minimum post-recycled content of the baffles should be 57%. Panels and grids should be 100% recyclable.

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

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

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

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