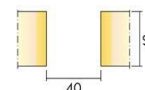


MASTER MATRIX

Visual design edge



The ceiling should consist of suspended glass fiber ceiling panels Ecophon Master with straight edges (edge A), a quick installation with pre-installed anchors and click-in connection to the grid system. Each panel with a hatch function, and fully demountable. In format 600x1200x40 mm, 1200x1200x40 mm, 600x2400x40 mm, 2400x1200x40 mm, 600x1040x40 mm, 1200x1040x40 mm, 2400x1040x40 mm, installed with Ecophon Connect grid system: Connect T24 Main runners suspended every 1800 mm with Connect Tube hanger, and Connect T24 Cross tees of 900 mm length, and Connect Panel connector and Connect Panel cross bar.

The weight of the system (including suspension grid) should be approximately 5-6 kg/m². The visible surface of the ceiling tile should be Akutex™ FT, colour White Frost, painted surface with water-based paint. The edges should be primed. Connect grid system colour should be Connect White 01.

Installation: The system should be installed according to Ecophon installation guides M344 or M345. The panels should be easily removable; each panel is equipped with hatch function. The minimum height of demountability should according to 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 85% and gloss level below 1.).

Acoustic absorption: The ceiling should be of sound absorption class A, should have a weighted sound absorption coefficient α_w of 0.95 and octave band practical sound absorption coefficients (overall depth of system: 255 mm) of:

125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
0.55	0.85	0.85	1.00	1.00	1.00

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

The acoustic performance of Master Matrix in installation method M345 should be measured in Absorption Equivalent Area (Aeq, m²Sabin per unit) according to EN ISO 354.

THK	Ods	Aeq, Equivalent Absorption Area per Panel (m ² sabin)					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
40	255	1.4	4.6	6.0	7.5	7.2	6.9
40	300	1.6	4.5	5.7	7.6	7.4	7.2

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 70% relative humidity and 25°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).

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 5,79 kg CO₂ equiv / m².

Circularity: The minimum post-recycled content of ceiling tiles should be 63%. 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.

Maintenance: Daily dusting and vacuum cleaning. Weekly wet wiping.