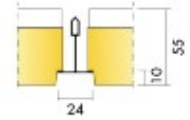


## COMBISON DUO E

### Visual design edge



The ceiling should consist of suspended glass fiber ceiling panels bonded with a 13 mm gypsum board on the back side Ecophon Combison Uno (edge E) with tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. Format 600x600x40 installed with Ecophon Connect grid system: Connect T24 Main runners suspended every 1200 mm with Connect Adjustable hanger C1, and Connect T24 Cross tees of 1200 mm and 600 mm length.

The weight of the system (including suspension grid) should be approximately 14 kg/m<sup>2</sup>. The visible surface of the ceiling tile should be Akutex™ FT, colour White Frost, painted surface with water-based paint. The edges should be painted. Connect grid system colour should be Connect White 01.

**Installation:** The system should be installed according to Ecophon installation diagram M86. Edges of cut perimeter tiles should be coated with Edge Sealant. The panels should be easily removable. 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 85% and gloss level below 1.

**Acoustic absorption:** The ceiling should be of sound absorption class A, should have a weighted sound absorption coefficient  $\alpha_w$  of 0.90 and an octave band practical sound absorption coefficients (overall depth of systems: 200 mm) of:

125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
0.35	0.60	0.95	1.00	1.00	0.90

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

**Sound Insulation:** The weighted normalized flanking level difference (D<sub>nfw</sub>) should be 39 dB, according to ISO 10848-2. 44 dB according to CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413. The addition of Combison XR and Combison Barrier products, installed in the ceiling plenum, can be installed to help increase D<sub>nfw</sub> value up to + 8 dB.

**Fire safety:** The ceiling tiles will be classified A2-s1, d0 according to EN 13501-1; the grid system will be A1. The glass wool core will 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).

**Circularity:** The minimum post-recycled content of ceiling tiles should be 58%. 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.