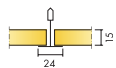


# Ecophon Sombra™ A

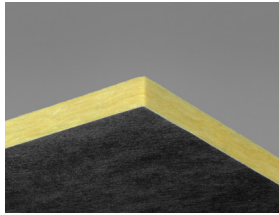
Ecophon Sombra™ A has an exposed grid system. For applications requiring a black ceiling with low light reflection and good sound absorbing properties. Suitable for social venues such as bars and night clubs.



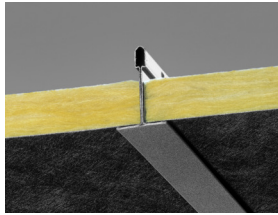
## SYSTEM RANGE



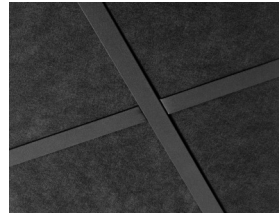
|                 |         |          |
|-----------------|---------|----------|
| Size, mm        | 600x600 | 1200x600 |
| Connect T24     | •       | •        |
| Thickness (THK) | 15      | 15       |
| Inst. Diag.     | M74     | M74      |



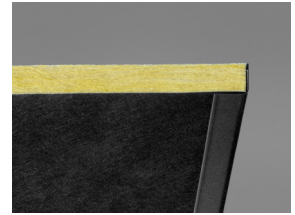
Sombra A tile



Section of Sombra A system



Sombra A system



Sombra A with Connect Angle trim black

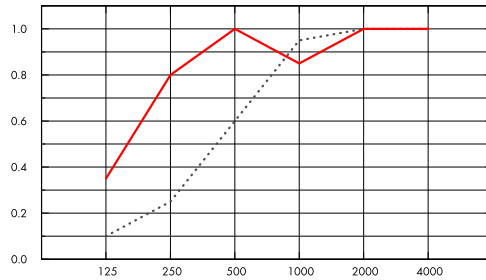
## Acoustic



### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Sombra A 15 mm, 50 mm o.d.s.

— Sombra A 15 mm, 200 mm o.d.s.

o.d.s = overall depth of system

|   | THK<br>mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ | Sound absorption class |
|---|-----------|-----------|---|--------|--------|---------|---------|---------|------------|------------------------|
|   |           |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |                        |
| - | 15        | 50        | 0.10  | 0.25   | 0.60   | 0.95    | 1.00    | 1.00    | 0.55       | D                      |
| - | 15        | 200       | 0.35  | 0.80   | 1.00   | 0.85    | 1.00    | 1.00    | 0.95       | A                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 15        | 50        | 0.70 | 0.71 |
| 15        | 200       | 0.90 | 0.91 |

## Indoor Air Quality



| Certificate / Label          |          |
|------------------------------|----------|
| Eurofins Indoor Air Comfort® | IAC Gold |
| French VOC                   | A+       |
| Finnish M1                   | •        |



## Environmental Footprint



|          | kg CO <sub>2</sub> equiv/m <sup>2</sup> |
|----------|---|
| Sombra A | 2,14                                    |

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 55%              |
| Recyclability                          | Fully recyclable |



### Fire safety

| Country | Fire standard | Class    |
|---------|---------------|----------|
| Europe  | EN 13501-1    | A2-s1,d0 |

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

Black 997, nearest NCS colour sample S 9000-N, 3-4% light reflectance.



### Cleanability

Weekly dusting and vacuum cleaning.



### Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. (The tiles have to be installed according to the arrows on the back of the tile.)



### System weight

The weight of the system (including suspension grid) should be approximately 2,5 kg/m<sup>2</sup>.



### Mechanical properties

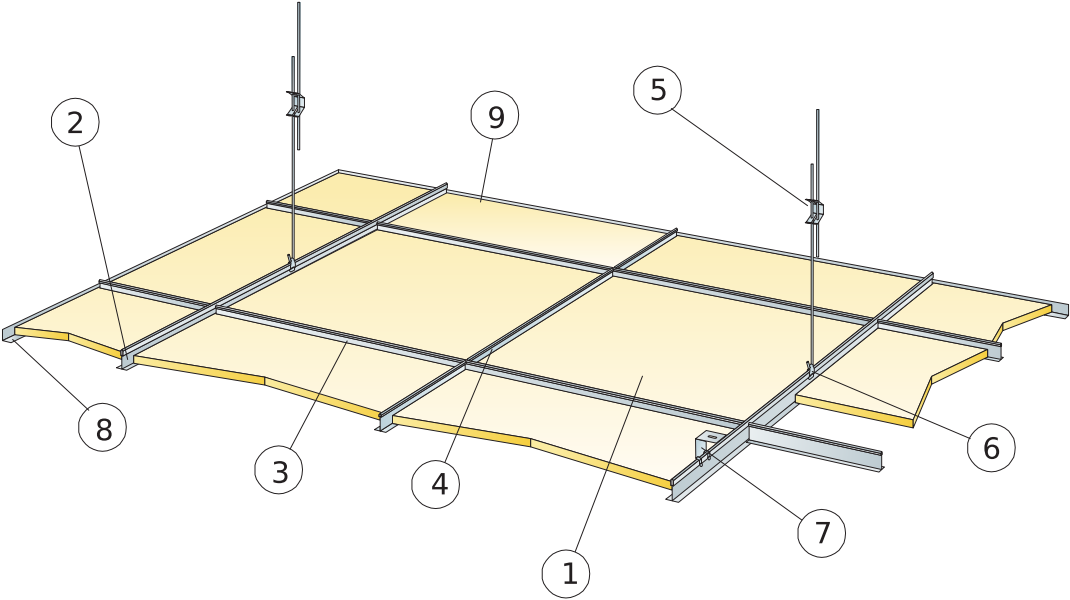
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

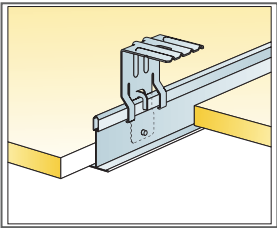
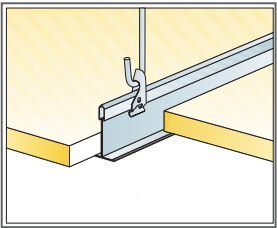
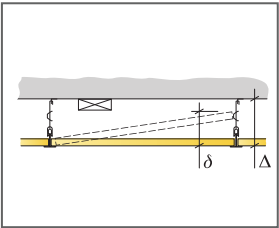
INSTALLATION DIAGRAM (M74) FOR ECOPHON SOMBRA A



© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | Size, mm            |                     |
|---|---------------------|---------------------|
|   | 600x600             | 1200x600            |
| 1 Sombra A  | 2,8/m <sup>2</sup>  | 1,4/m <sup>2</sup>  |
| 2 Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall). | 0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> |
| 3 Connect T24 Cross tee black, L=1200 mm, installed at 600 mm centres   | 1,7m/m <sup>2</sup> | 1,7m/m <sup>2</sup> |
| 4 Connect T24 Cross tee black, L=600 mm   | 0,9m/m <sup>2</sup> | -                   |
| 5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  | 0,7/m <sup>2</sup>  | 0,7/m <sup>2</sup>  |
| 6 Connect Hanger Clip (not to be used in swimming hall environments)  | 0,7/m <sup>2</sup>  | 0,7/m <sup>2</sup>  |
| 7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres   | 0,7/m <sup>2</sup>  | 0,7/m <sup>2</sup>  |
| 8 Connect Angle trim black, (fixed at 300 mm centres)   | as required         | as required         |
| Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm  | -                   | -                   |
| δ Min. demounting depth: 120 mm   | -                   | -                   |



| Size, mm    | Max live load (N) | Min load bearing capacity (N) |
|-------------|-------------------|-------------------------------|
| 600x600x15  | 50                | 160                           |
| 1200x600x15 | 50                | 160                           |

Suspension with adjustable hanger and clip

Fixing with direct bracket

Live load/load bearing capacity