



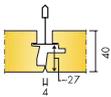
Ecophon Master™ Ds

Ecophon Master™ Ds has a concealed grid and symmetrical edge design, allowing for easy assembly, and integration of light fittings and ventilation. For applications where a suspended ceiling with a concealed grid is required, but individual tiles must be easily demountable.

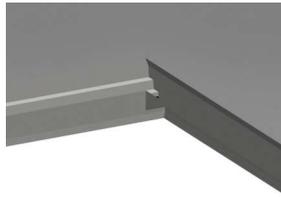


Hoag-Helio Campus, Germany

SYSTEM RANGE



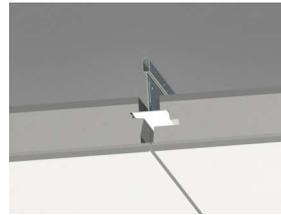
| | |
|-----------------|------------|
| Size, mm | 600x600 |
| T24 | • |
| Thickness (THK) | 40 |
| Inst. Diag. | M236, M242 |



Master Ds tile



Master Ds system



Section of Master Ds system.

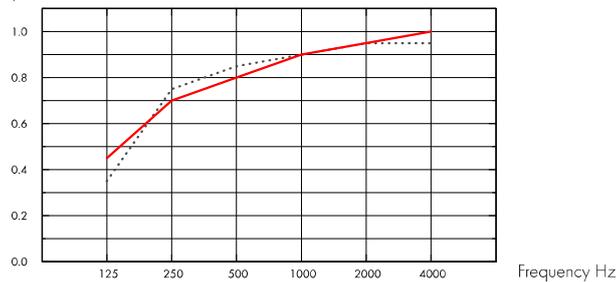


Acoustic

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.

α_p , Practical sound absorption coefficient



..... Master Ds 40 mm, 95 mm o.d.s.
 — Master Ds 40 mm, 200 mm o.d.s.
 o.d.s = overall depth of system

| THK mm | o.d.s. mm | α_p , Practical sound absorption coefficient | | | | | | α_w | Sound absorption class |
|--------|-----------|---|--------|--------|---------|---------|---------|------------|------------------------|
| | | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | | |
| 40 | 95 | 0.35 | 0.75 | 0.85 | 0.90 | 0.95 | 0.95 | A | |
| 40 | 200 | 0.45 | 0.70 | 0.80 | 0.90 | 0.95 | 1.00 | A | |

| THK mm | o.d.s. mm | NRC | SAA |
|--------|-----------|------|------|
| 40 | 95 | 0.90 | 0.91 |
| 40 | 400 | 0.85 | 0.86 |

| THK mm | AC[1.5] | D_{ntw} | CAC dB |
|--------|--|--|---|
| | Articulation Class, ASTM E1111, ASTM E1110 | Weighted normalized flanking level difference, ISO 10848-2 | Ceiling Attenuation Class, ASTM 1414, ASTM E413 |
| 40 | 200 | 31 | 33 |



Indoor Air Quality

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



Environmental Footprint

| | kg CO ₂ equiv/m ² |
|-----------|---|
| Master Ds | 7,10 |

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



Circularity

| | |
|--|------------------|
| Minimum post-consumer recycled content | 63% |
| Recyclability | Fully recyclable |



Fire safety

| Country | 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

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m²). Ceilings with a large amount of integrations require careful planning, design and installation.



System weight

The weight of the system (including suspension grid) should be approximately 6 kg/m².



Mechanical properties

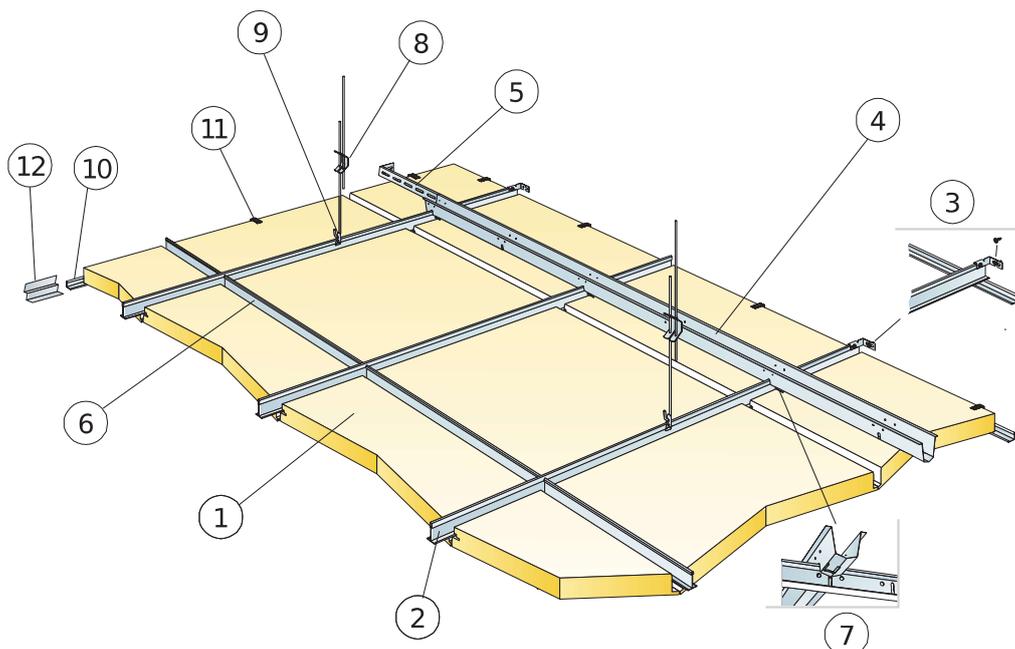
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.



CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. 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.

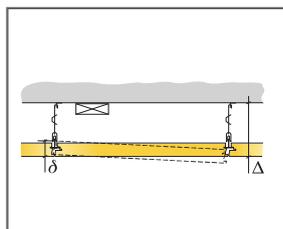
INSTALLATION DIAGRAM (M236) FOR ECOPHON MASTER DS, SUSPENDED INSTALLATION



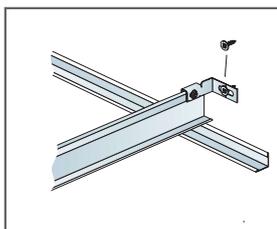
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

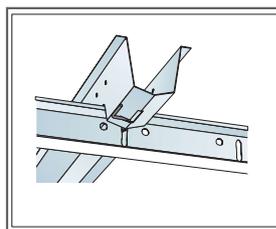
| | Size, mm |
|--|--------------------------------|
| 600x600 | |
| 1 Master Ds | 2,8/m ² |
| 2 Connect T24 Main Runner HD, installed at 600 mm centres | 1,7m/m ² |
| 3 Connect Wall Bracket for T-profiles | 1/suspended row of Main runner |
| 4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm) | 0,7m/m ² |
| 5 Connect Wall Bracket, L=700 mm, for Connect Space Bar | 1/row of Space bar |
| 6 Connect T24 Cross Tee, L=600 mm | 2/row of Main runner |
| 7 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar | 1,4/m ² |
| 8 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm) | 0,7/m ² |
| 9 Connect Hanger Clip (not to be used in swimming hall environments) | 0,7/m ² |
| 10 Connect Angle Trim, fixed at 300 mm centres | as required |
| 11 Connect Perimeter tile clip 40 | 1/300-400mm on any cut edge |
| 12 Connect Shadow-line Trim, fixed at 200 mm centres | as required |
| Δ Min. overall depth of system: 140 mm | - |
| δ Min. demounting depth: 50 mm | - |
| For luminaire integration in panels use Connect Bridging | - |



See Quantity specification



Connect Wall bracket for T-profiles

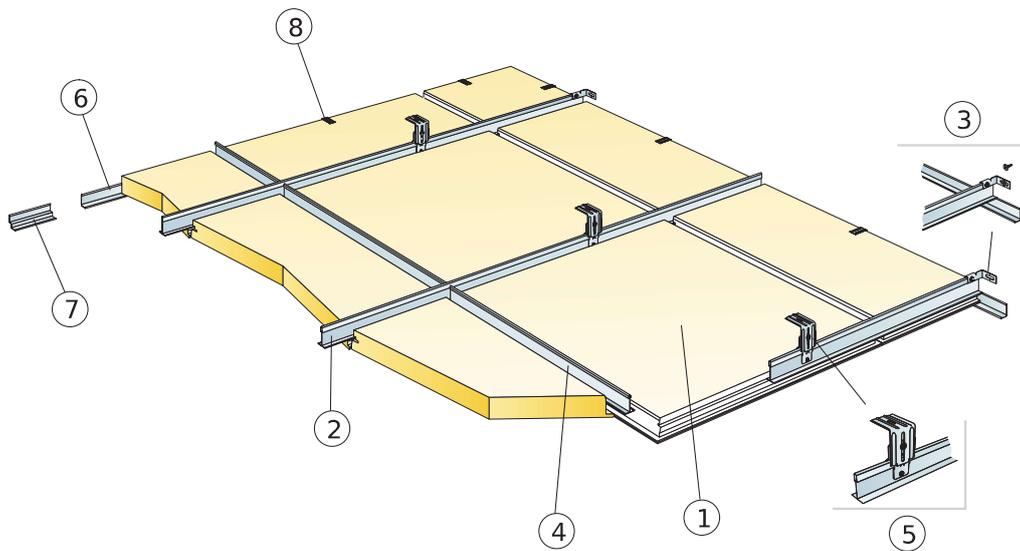


Connection between profiles with space bar winch

| Size, mm | Max live load (N) | Min load bearing capacity (N) |
|------------|-------------------|-------------------------------|
| 600x600x40 | 40 | 160 |

Live load/load bearing capacity

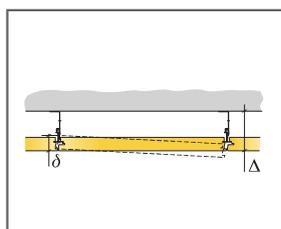
INSTALLATION DIAGRAM (M242) FOR ECOPHON MASTER DS, DIRECT INSTALLATION



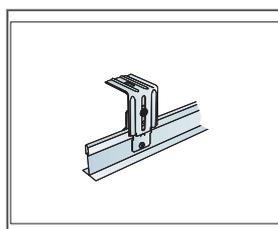
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

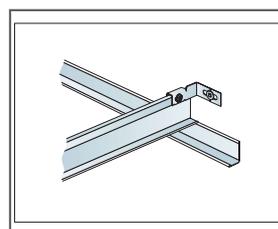
| | Size, mm |
|---|--------------------------------|
| | 600x600 |
| 1 Master Ds | 2,8/m ² |
| 2 Connect T24 Main Runner HD, installed at 600 mm centres | 1,7m/m ² |
| 3 Connect Wall Bracket for T-profiles | 1/suspended row of Main runner |
| 4 Connect T24 Cross Tee, L=600 mm | 2/row of Main runner |
| 5 Connect Adjust direct bracket, installed at 1500 mm centres | 1,1/m ² |
| 6 Connect Angle Trim, fixed at 300 mm centres | as required |
| 7 Connect Shadow-line trim, fixed at 300 mm centres | as required |
| 8 Connect Perimeter tile clip 40 | 1/300-400mm on any cut edge |
| Δ Min. overall depth of system: 95 mm | - |
| δ Min. demounting depth: 50 mm | - |



See Quantity specification



Suspension with direct bracket



Profiles are fixed against the wall

| Size, mm | Max live load (N) | Min load bearing capacity (N) |
|------------|-------------------|-------------------------------|
| 600x600x40 | 40 | 160 |

Live load/load bearing capacity