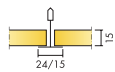


# Ecophon Advantage™ A

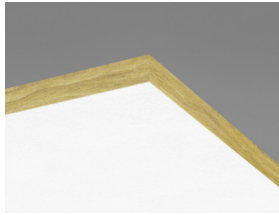
Ecophon Advantage™ A has an exposed grid system with each tile individually demountable for easy access to soffit above. For applications requiring an easy-install suspended ceiling to meet the essential functional demands.



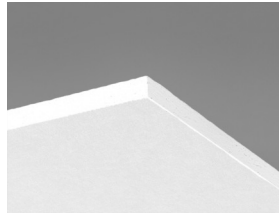
## SYSTEM RANGE



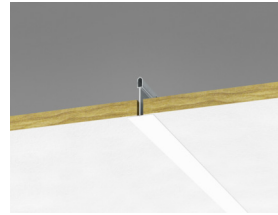
|                 |            |          |
|-----------------|------------|----------|
| Size, mm        | 600x600    | 1200x600 |
| Connect T15     | •          | •        |
| Connect T24     | •          | •        |
| Thickness (THK) | 15         | 15       |
| Inst. Diagr.    | M119, M271 | M119     |



Advantage A tile



Advantage A tile



Section of Advantage A system with Connect T24



Advantage A system with Connect T24

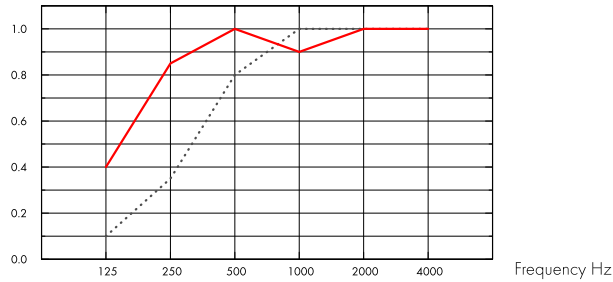


## Acoustic

### 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



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

— Advantage 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  | 0.35   | 0.80   | 1.00    | 1.00    | 1.00    | 0.65       | C                      |
| 15        | 200       | 0.40  | 0.85   | 1.00   | 0.90    | 1.00    | 1.00    | 1.00       | A                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 15        | 50        | 0.80 | 0.81 |
| 15        | 400       | 0.85 | 0.88 |



## Indoor Air Quality

| Certificate / Label          | G35xxxxxx<br>articles | 37xxxxxx<br>articles |
|------------------------------|-----------------------|----------------------|
| Eurofins Indoor Air Comfort® | IAC Gold              | IAC Gold             |
| French VOC                   | A+                    | A+                   |
| Finnish M1                   | •                     |                      |



## Environmental Footprint

|           | kg CO <sub>2</sub> equiv/m <sup>2</sup> |
|-----------|---|
| Advantage | 1,98                                    |

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



## Circularity

|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 48%              |
| 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

White 500. Nearest NCS colour code; NCS S 0500-N. 83 % light reflectance. (The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).



### 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 to be installed according to the arrows on the back of the tile.)



### System weight

|                                   | kg/m <sup>2</sup> |
|-----------------------------------|-------------------|
| Advantage A                       | 1,2               |
| Advantage A + Connect grid system | 2,2               |

Weight information is indicative and subject to variation.



### Mechanical properties

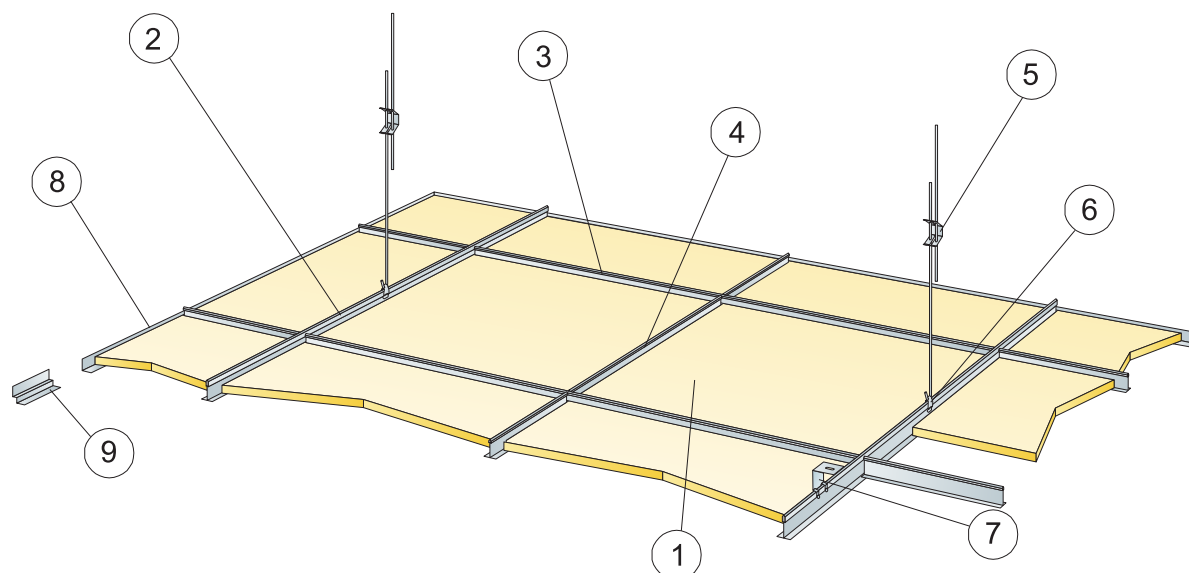
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### 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.

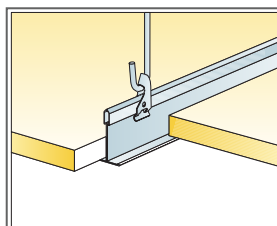
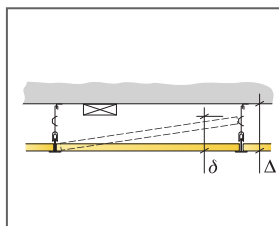
## INSTALLATION DIAGRAM (M119) FOR ECOPHON ADVANTAGE A



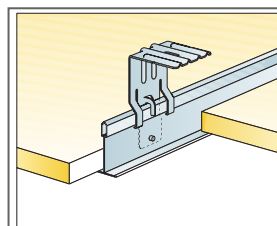
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | Size, mm            |                     |
|---|---------------------|---------------------|
|   | 600x600             | 1200x600            |
| 1 Advantage A   | 2,8/m <sup>2</sup>  | 1,4/m <sup>2</sup>  |
| 2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> |
| 3 Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres  | 1,7m/m <sup>2</sup> | 1,7m/m <sup>2</sup> |
| 4 Connect T24 or T15 Cross tee, 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, fixed at 300 mm centres   | as required         | as required         |
| 9 Connect Shadow-line Trim, 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 (130 mm with 1200x1200)   | -                   | -                   |
| For luminaire integration in panels use Connect Bridging  | -                   | -                   |



Suspension with adjustable hanger and clip

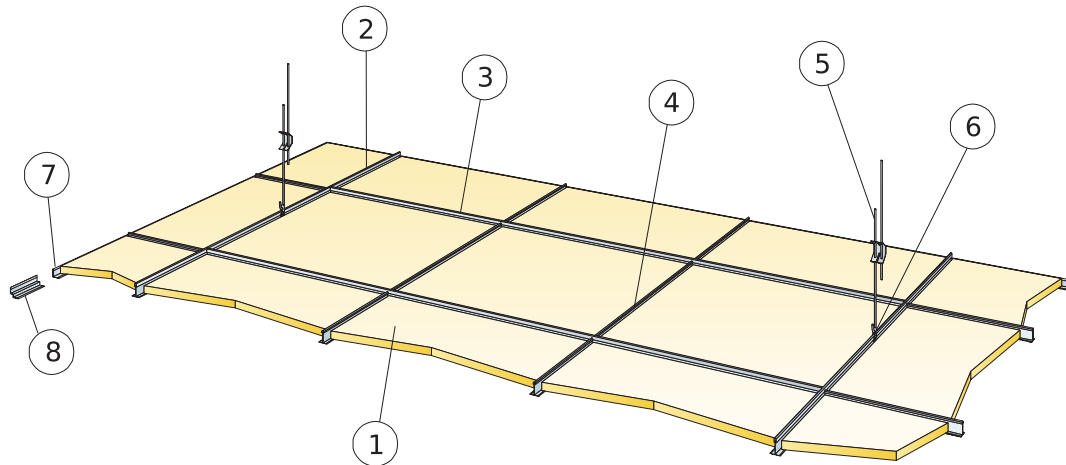


Suspension with direct bracket

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

Live load/load bearing capacity

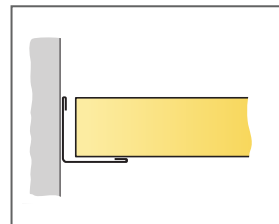
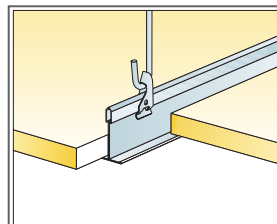
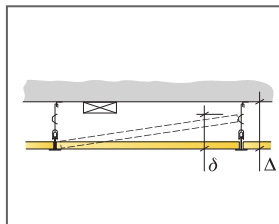
INSTALLATION DIAGRAM (M271) FOR ECOPHON ADVANTAGE A, CONNECT T24 MAIN RUNNER INSTALLED AT 1800 MM CENTRES



© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | Size, mm             |
|---|----------------------|
|   | <b>600x600</b>       |
| 1 Advantage A   | 2,8/m <sup>2</sup>   |
| 2 Connect T24 Main runner, installed at 1800 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall). | 0,56m/m <sup>2</sup> |
| 3 Connect T24 Cross tee, L=1800 mm  | 1,7m/m <sup>2</sup>  |
| 4 Connect T24 Cross tee, L=600 mm   | 1,1m/m <sup>2</sup>  |
| 5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  | 0,46/m <sup>2</sup>  |
| 6 Connect Hanger clip   | 0,46/m <sup>2</sup>  |
| 7 Connect Angle trim, fixed at 300 mm centres   | as required          |
| 8 Alt. Connect Shadow-line Trim, fixed c300   | 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 | 20                | 160                           |

Suspension with adjustable hanger and clip

Straight cut, panel resting on wall trim

Live load/load bearing capacity

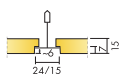
# Ecophon Advantage™ E

Ecophon Advantage™ E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect to accentuate each tile and partially conceal the grid system. For applications requiring an easy-install suspended ceiling and meets essential functional demands.



Wooninc, Netherlands

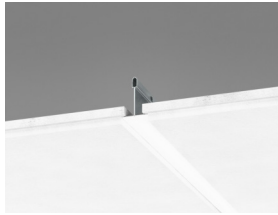
## SYSTEM RANGE



|                 |            |            |
|-----------------|------------|------------|
| Size, mm        | 600x600    | 1200x600   |
| Connect T15     | •          | •          |
| Connect T24     | •          | •          |
| Thickness (THK) | 15         | 15         |
| Inst. Diagr.    | M122, M272 | M122, M272 |



Advantage E tile



Section of Advantage E system with Connect T24



Advantage E system with Connect T24

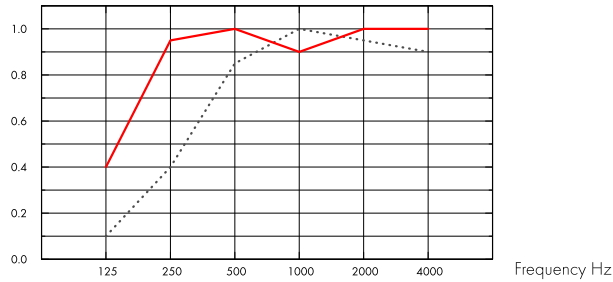
## Acoustic



### 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



.... Advantage E 15 mm, 60 mm o.d.s.

— Advantage E 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        | 60        | 0.10  | 0.40   | 0.85   | 1.00    | 0.95    | 0.90    | 0.70       | C                      |
| 15        | 200       | 0.40  | 0.95   | 1.00   | 0.90    | 1.00    | 1.00    | 1.00       | A                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 15        | 60        | 0.80 | 0.80 |
| 15        | 200       | 0.95 | 0.95 |
| 15        | 400       | 0.85 | 0.87 |

## Indoor Air Quality



| Certificate / Label          | G35xxxxxx<br>articles | 37xxxxxx<br>articles |
|------------------------------|-----------------------|----------------------|
| Eurofins Indoor Air Comfort® | IAC Gold              | IAC Gold             |
| French VOC                   | A+                    | A+                   |
| Finnish M1                   | •                     |                      |



## Environmental Footprint



|             | kg CO <sub>2</sub> equiv/m <sup>2</sup> |
|-------------|---|
| Advantage E | 1,98                                    |

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

## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 47%              |
| 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

White 500. Nearest NCS colour code; NCS S 0500-N. 83 % light reflectance. (The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).



### 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 to be installed according to the arrows on the back of the tile.)



### System weight

|                                   | kg/m <sup>2</sup> |
|-----------------------------------|-------------------|
| Advantage E                       | 1,3               |
| Advantage E + Connect grid system | 2,3               |

Weight information is indicative and subject to variation.



### 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).

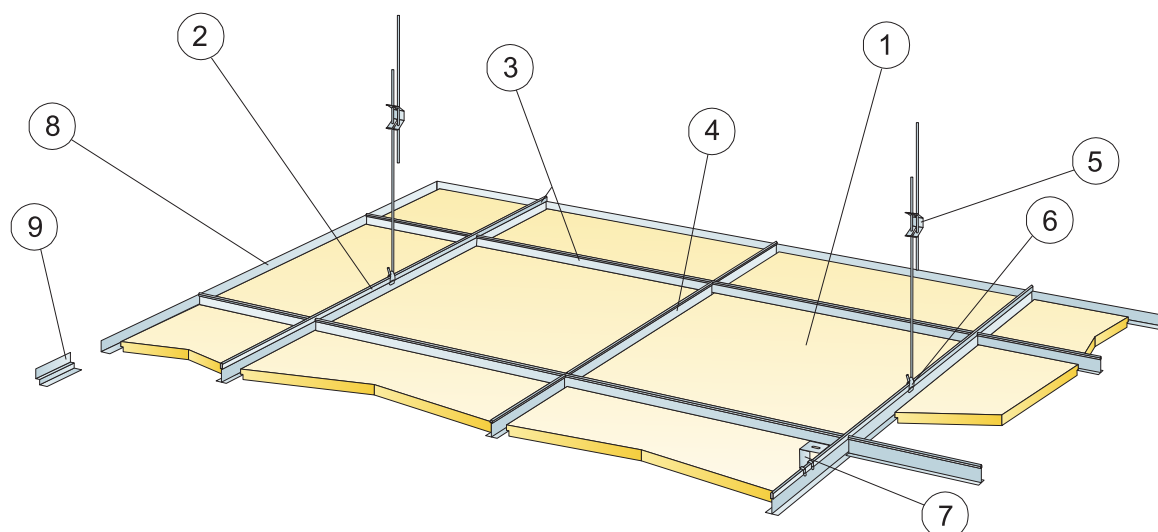


### CE

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



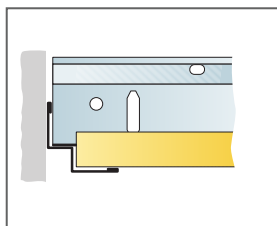
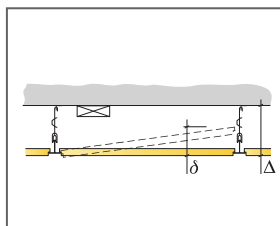
## INSTALLATION DIAGRAM (M122) FOR ECOPHON ADVANTAGE E



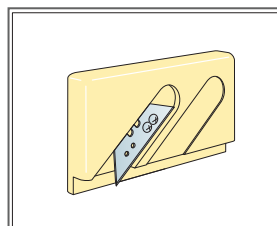
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | Size, mm            |                     |
|---|---------------------|---------------------|
|   | 600x600             | 1200x600            |
| 1 Advantage E   | 2,8/m <sup>2</sup>  | 1,4/m <sup>2</sup>  |
| 2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> |
| 3 Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres  | 1,7m/m <sup>2</sup> | 1,7m/m <sup>2</sup> |
| 4 Connect T24 or T15 Cross tee, 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, fixed at 300 mm centres   | as required         | as required         |
| 9 Connect Shadow-line Trim, fixed at 300 mm centres   | as required         | as required         |
| Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm  | -                   | -                   |
| δ Min. demounting depth: T15: 110 mm, T24: 90 mm  | -                   | -                   |
| For luminaire integration in panels use Connect Bridging  | -                   | -                   |



Straight cut, panel resting on shadow-line trim.

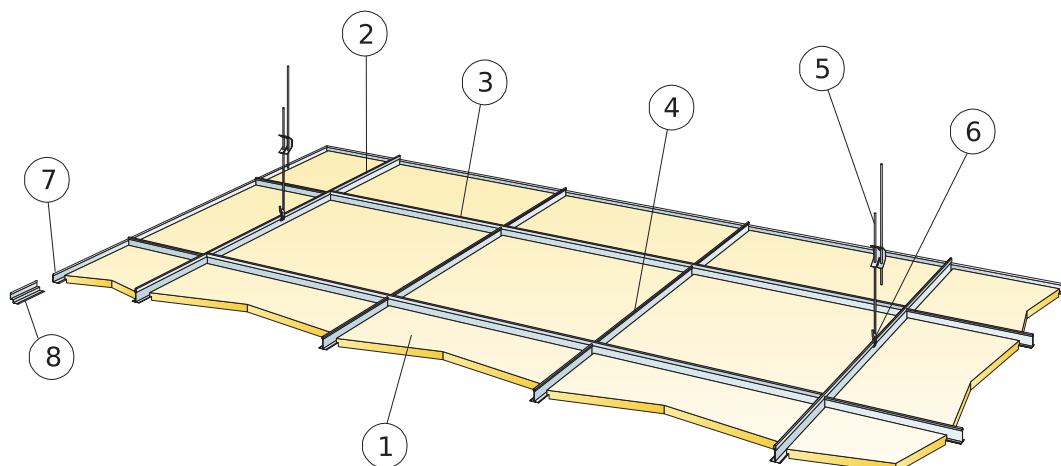


Cutting tool E

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

Live load/load bearing capacity

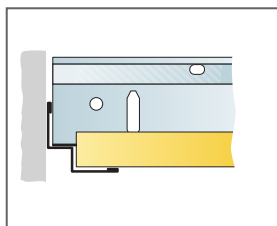
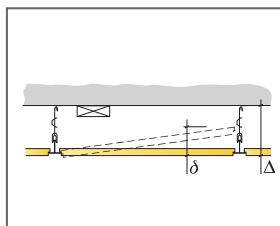
# INSTALLATION DIAGRAM (M272) FOR ECOPHON ADVANTAGE E, CONNECT T24 MAIN RUNNER INSTALLED AT 1800 MM CENTRES



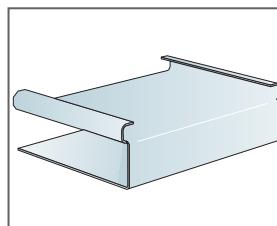
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

|  | Size, mm            |             |
|--|---------------------|-------------|
|  | 600x600             | 1200x600    |
| 1 Advantage E  | 2,8/m <sup>2</sup>  | -           |
| 2 Connect T24 Main runner, installed at 1800 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner 0,56m/m <sup>2</sup> and wall). |                     | -           |
| 3 Connect T24 Cross tee, L=1800 mm   | 1,7m/m <sup>2</sup> | -           |
| 4 Connect T24 Cross tee, L=600 mm  | 1,1m/m <sup>2</sup> | -           |
| 5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)   | 0,46/m <sup>2</sup> | -           |
| 6 Connect Hanger clip  | 0,46/m <sup>2</sup> | -           |
| 7 Connect Angle trim, fixed at 300 mm centres  | as required         | as required |
| 8 Alt. Connect Shadow-line Trim, fixed c300  | 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  | -                   | -           |
| For luminaire integration in panels use Connect Bridging   | -                   | -           |



Straight cut, panel resting on shadow-line trim.



Connect Eplug

| Size, mm    | Max live load (N) | Min load bearing capacity (N) |
|-------------|-------------------|-------------------------------|
| 600x600x15  | 20                | 160                           |
| 1200x600x15 | -                 | -                             |

Live load/load bearing capacity