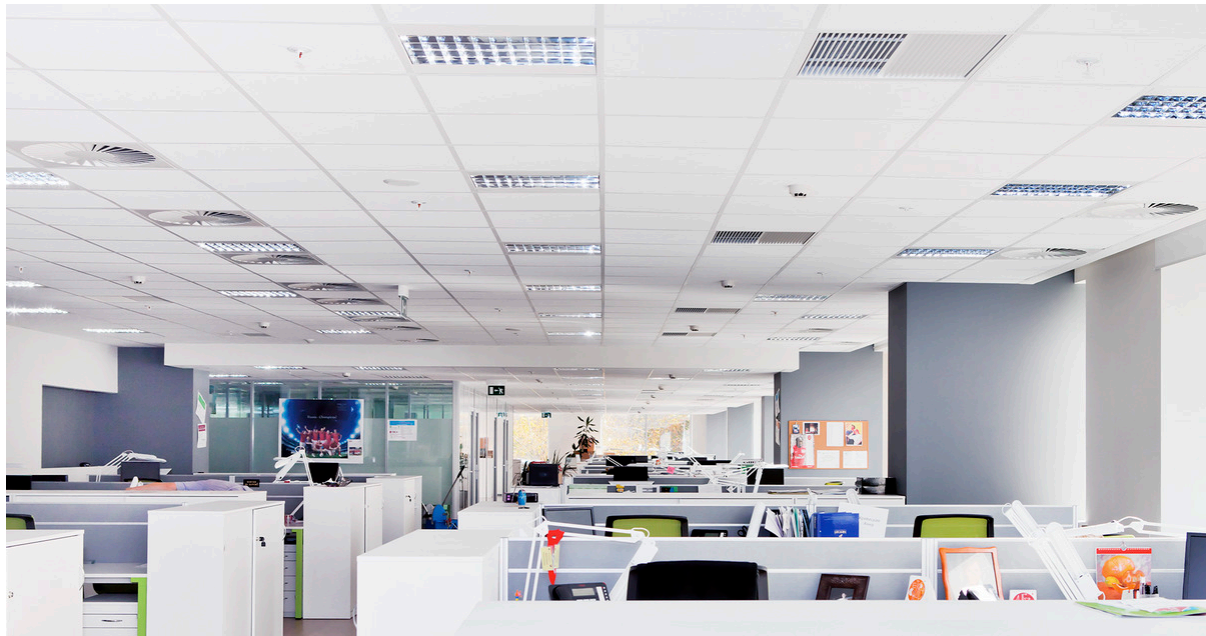


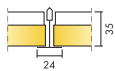
# Ecophon Combison™ Uno A

Ecophon Combison™ Uno A has an exposed grid system with demountable tiles. For use as a sound absorbing ceiling and for sound insulation between rooms if the partitions does not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.

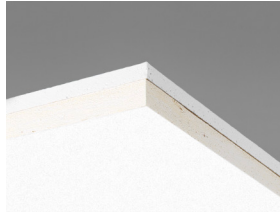


Schneider Electric, Moscow, Russia

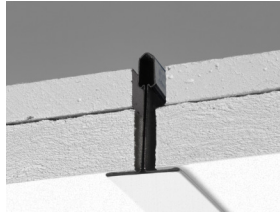
## SYSTEM RANGE



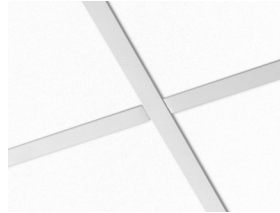
|              |         |          |
|--------------|---------|----------|
| Size, mm     | 600x600 | 1200x600 |
| T24          | •       | •        |
| Thickness    | 35      | 35       |
| Inst. Diagr. | M188    | M188     |



Combison Uno A tile



Section of Combison Uno A system



Combison Uno A system

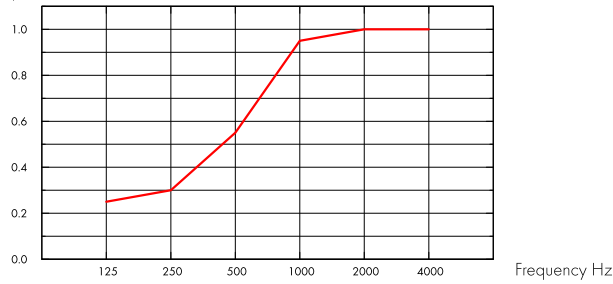
## Acoustic



### 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.

$\alpha_p$ , Practical sound absorption coefficient



— Combison Uno A 35 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 |            |                        |
| 35        | 200       | 0.25  | 0.30   | 0.55   | 0.95    | 1.00    | 1.00    | 0.55       | D                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 35        | 200       | 0.70 | 0.73 |

| THK<br>mm | $D_{ntw}$  | $R_w$                                       | CAC dB  |
|-----------|--|---|---|
|           | Weighted normalized flanking level difference, ISO 10848-2 | Weighted sound reduction index, ISO 10140-2 | Ceiling Attenuation Class, ASTM 1414, ASTM E413 |
| 35        | 43   | 27  | 44  |

## Indoor Air Quality



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



## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 56%*             |
| Recyclability                          | Fully recyclable |

\*this value does not take into account the plasterboard



## 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 A, relative humidity 70% and 25°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.



## System weight

|                                      | kg/m <sup>2</sup> |
|--------------------------------------|-------------------|
| Combison Uno A                       | 11,0              |
| Combison Uno A + Connect Grid System | 12,0              |

Weight information is indicative and subject to variation.



## Mechanical properties

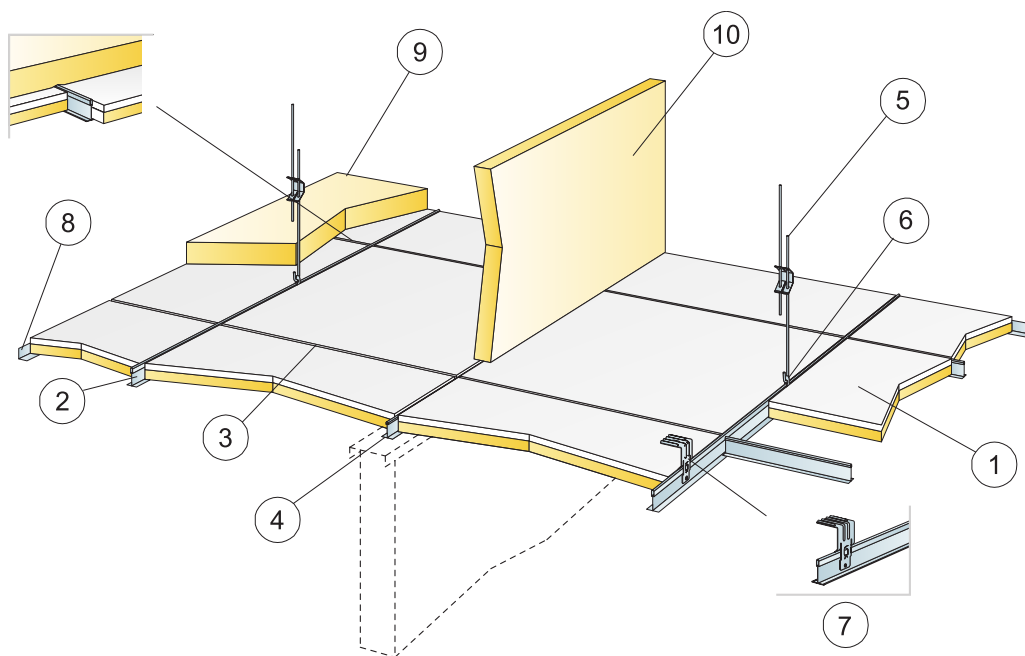
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



## 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.

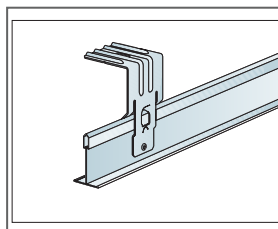
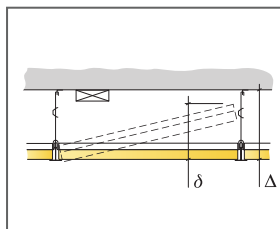
## INSTALLATION DIAGRAM (M188) FOR ECOPHON COMBISON UNO A



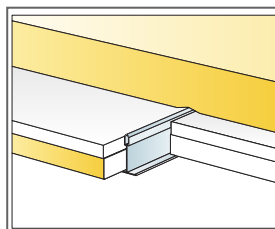
© Ecophon Group

### QUANTITY SPECIFICATION (EXCL. WASTAGE)

|  | Size, mm            |                     |
|--|---------------------|---------------------|
|  | 600x600             | 1200x600            |
| 1 Combison Uno A   | 2,8/m <sup>2</sup>  | 1,4/m <sup>2</sup>  |
| 2 Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)    | 0,9m/m <sup>2</sup> | 0,9m/m <sup>2</sup> |
| 3 Connect T24 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 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 200 mm centres  | as required         | as required         |
| 9 Combison XR (if required)  | as required         | as required         |
| 10 Combison Barrier (if required)  | as required         | as required         |
| Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm | -                   | -                   |
| δ Min. demounting depth: 200 mm  | -                   | -                   |



Direct bracket is secured with pop rivet or screw



Additional absorber on top of ceiling

| Size, mm    | Max live load [N] | Min load bearing capacity [N] |
|-------------|-------------------|-------------------------------|
| 600x600x35  | 0                 | 220                           |
| 1200x600x35 | 0                 | 220                           |

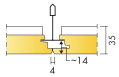
Live load/load bearing capacity

# Ecophon Combison™ Uno Ds

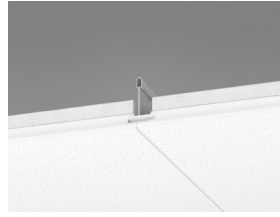
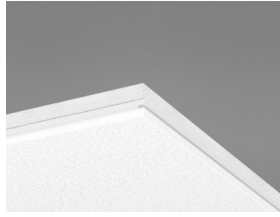
Ecophon Combison™ Uno Ds has a concealed grid, installed in a suspended grid system with demountable tiles. For use as a sound absorbing ceiling and for sound insulation between rooms if the partitions do not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.



## SYSTEM RANGE



|              |         |
|--------------|---------|
| Size, mm     | 600x600 |
| T24          | •       |
| Thickness    | 35      |
| Inst. Diagr. | M629    |



Combison Uno Ds system

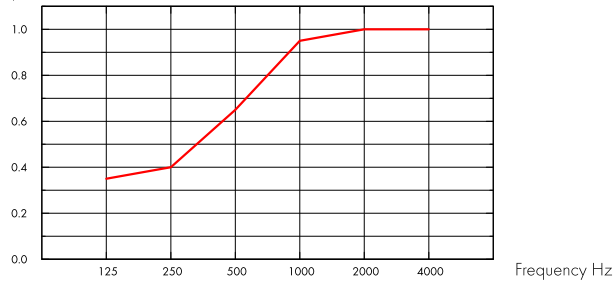
## Acoustic



### 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.

$\alpha_p$ , Practical sound absorption coefficient



— Combison Uno Ds 35 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 |            |                        |
| 35        | 200       | 0.35  | 0.40   | 0.65   | 0.95    | 1.00    | 1.00    | 0.65       | C                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 35        | 200       | 0.75 | 0.75 |

| THK<br>mm | $D_{nfw}$  |  | $R_w$ |
|-----------|--|--|-------|
|           | Weighted normalized flanking level difference, ISO 10848-2 |  |       |
| 30        | 41   |  | 28    |

## Indoor Air Quality



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



## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 56%*             |
| Recyclability                          | Fully recyclable |

\*this value does not take into account the plasterboard



### 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 A, relative humidity 70% and 25°C, according to EN 13964:2014



### Humidity Resistance

Class A, relative humidity 70% and 25°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.



### System weight

|                                       | kg/m <sup>2</sup> |
|---------------------------------------|-------------------|
| Combison Uno Ds                       | 11,4              |
| Combison Uno Ds + Connect Grid System | 12,4              |

Weight information is indicative and subject to variation.



### Mechanical properties

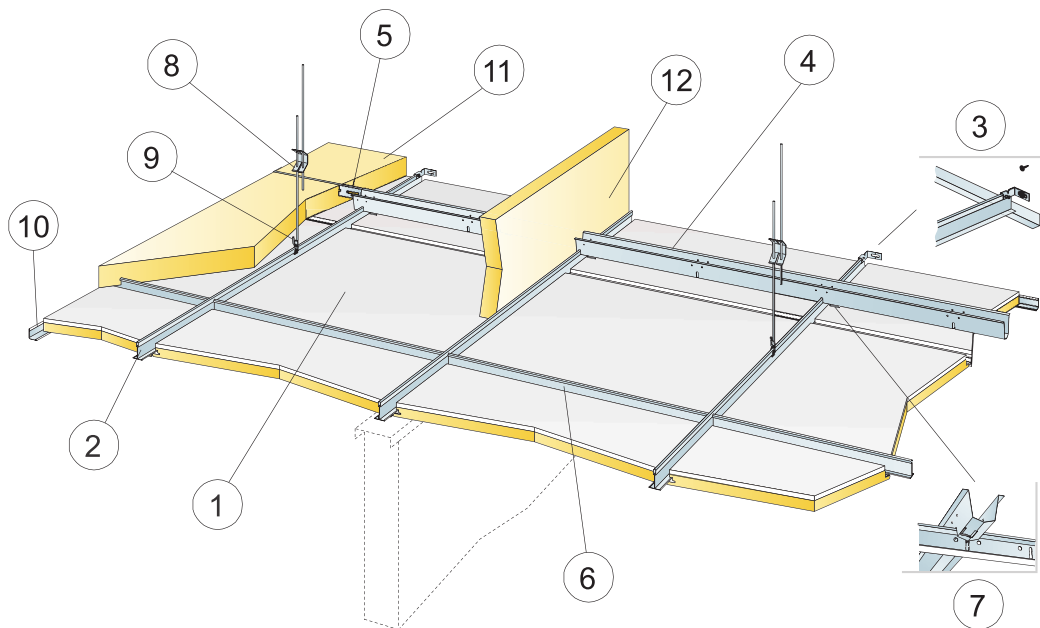
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### 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.

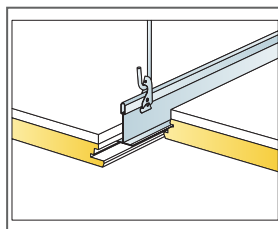
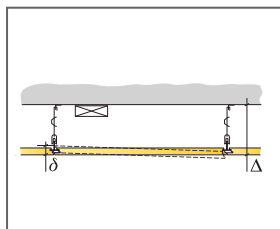
## INSTALLATION DIAGRAM (M629) FOR ECOPHON COMBISON UNO DS. SUSPENDED INSTALLATION



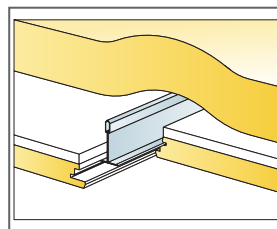
© Ecophon Group

### QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | Size, mm                       |
|---|--------------------------------|
|   | <b>600x600</b>                 |
| 1 Combison Uno Ds   | 2,8/m <sup>2</sup>             |
| 2 Connect T24 Main Runner Pl, installed at 600 mm centres   | 1,7m/m <sup>2</sup>            |
| 3 Connect Wall Bracket for T-profiles   | 1/suspended row of Main runner |
| 4 Connect Space Bar, installed at 900 mm centres (max. distance from wall 300 mm)   | 1,15m/m <sup>2</sup>           |
| 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  | 1,9/m <sup>2</sup>             |
| 8 Connect Adjustable Hanger, installed at 1200x900 mm (max. distance from wall 600 mm). Main Runners resting on partition walls don't need hangers. | 0,95/m <sup>2</sup>            |
| 9 Connect Hanger Clip (not to be used in swimming hall environments)  | 0,95/m <sup>2</sup>            |
| 10 Connect Angle trim, fixed at 200 mm centres  | as required                    |
| 11 Combison XR (if required)  | as required                    |
| 12 Combison Barrier (if required)   | as required                    |
| Δ Min. overall depth of system: 120 mm  | -                              |
| δ Min. demounting depth: 40 mm  | -                              |



Suspension with adjustable hanger and clip



Additional absorber on top of ceiling

| Size, mm   | Max live load [N] | Min load bearing capacity [N] |
|------------|-------------------|-------------------------------|
| 600x600x35 | 0                 | 220                           |

Live load/load bearing capacity

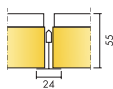


# Ecophon Combison™ Duo A

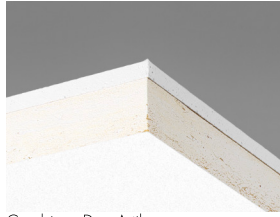
Ecophon Combison™ Duo A has an exposed grid system with demountable tiles. For use as a suspended ceiling with high sound absorption and for sound insulation between rooms if the partitions do not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.



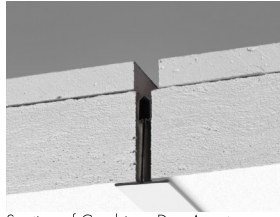
## SYSTEM RANGE



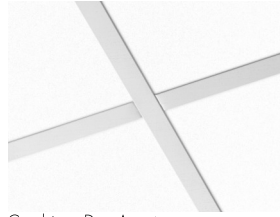
|             |         |
|-------------|---------|
| Size, mm    | 600x600 |
| T24         | •       |
| Thickness   | 55      |
| Inst. Diag. | M85     |



Combison Duo A tile



Section of Combison Duo A system



Combison Duo A system

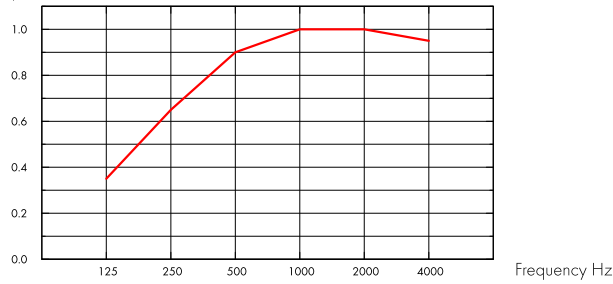
## Acoustic



### 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.

$\alpha_p$ , Practical sound absorption coefficient



— Combison Duo A 55 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 |            |                        |
| 55        | 200       | 0.35  | 0.65   | 0.90   | 1.00    | 1.00    | 0.95    | 0.90       | A                      |

| THK<br>mm | o.d.s. mm | NRC  | SAA  |
|-----------|-----------|------|------|
| 55        | 200       | 0.90 | 0.91 |
| 54        | 400       | 0.90 | 0.90 |

| THK<br>mm | AC(1.5)<br>Articulation Class, ASTM<br>E1111, ASTM E1110 | $D_{nfw}$<br>Weighted normalized flanking level<br>difference, ISO 10848-2 | $R_w$<br>Weighted sound reduction<br>index, ISO 10140-2 | CAC dB<br>Ceiling Attenuation Class,<br>ASTM 1414, ASTM E413 |
|-----------|--|--|---|--|
| 55        | 190  | 43   | 32  | 44   |

## Indoor Air Quality



| Certificate / Label         |          |
|-----------------------------|----------|
| Euofins Indoor Air Comfort® | IAC Gold |
| French VOC                  | A+       |



## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 62%*             |
| Recyclability                          | Fully recyclable |

\*this value does not take into account the plasterboard



### 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 A, relative humidity 70% and 25°C, according to EN 13964:2014



### Humidity Resistance

Class A, relative humidity 70% and 25°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.



### System weight

|                                      | kg/m <sup>2</sup> |
|--------------------------------------|-------------------|
| Combison Duo A                       | 12,5              |
| Combison Duo A + Connect Grid System | 13,5              |

Weight information is indicative and subject to variation.



### Mechanical properties

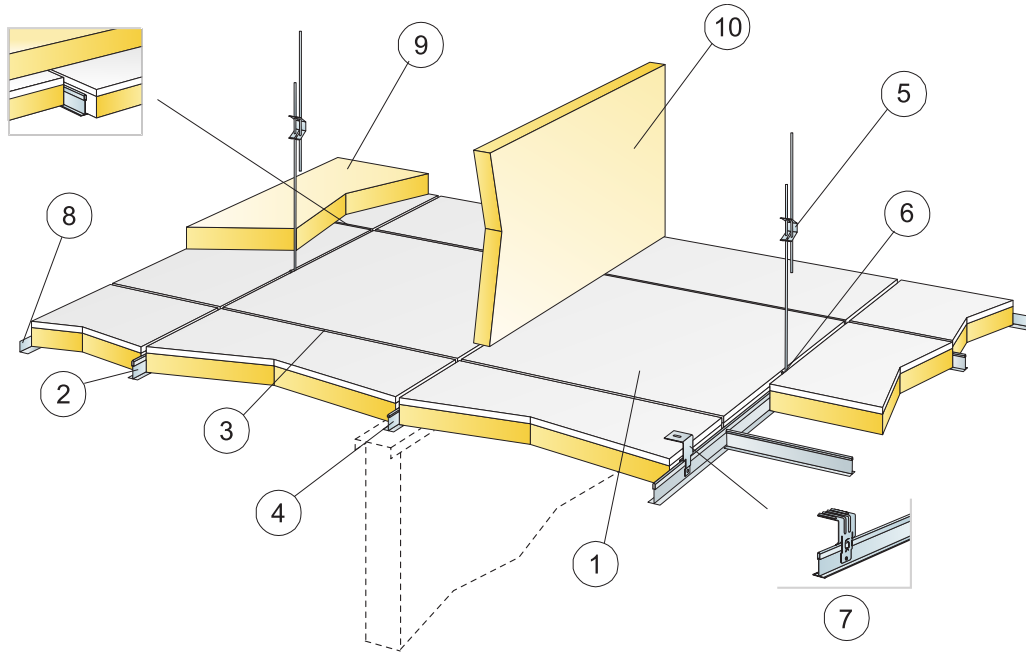
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### 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.

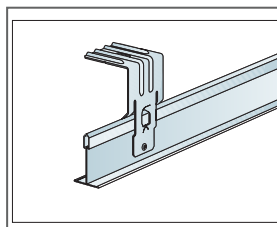
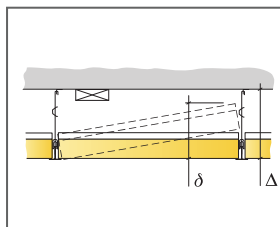
INSTALLATION DIAGRAM (M85) FOR ECOPHON COMBISON DUO A



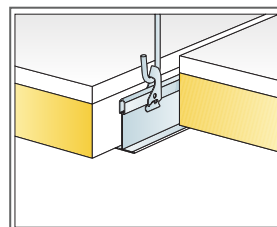
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

|  |  | Size, mm            |
|--|--|---------------------|
|  |  | <b>600x600</b>      |
| 1  | Combison Duo A   | 2,8/m <sup>2</sup>  |
| 2  | Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)    | 0,9m/m <sup>2</sup> |
| 3  | Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres                            | 1,7m/m <sup>2</sup> |
| 4  | Connect T24 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>  |
| 6  | Connect Hanger Clip (not to be used in swimming hall environments)                       | 0,7/m <sup>2</sup>  |
| 7  | For direct installation: Connect Direct Bracket, installed at 1200 mm centres            | 0,7/m <sup>2</sup>  |
| 8  | Connect Angle trim, fixed at 200 mm centres  | as required         |
| 9  | Combison XR (if required)  | as required         |
| 10   | Combison Barrier (if required)   | as required         |
| Δ Min. overall depth of system, with Adjustable hanger: 100 mm, with Direct bracket: 80 mm |  | -                   |
| δ Min. demounting depth: 220 mm  |  | -                   |



Direct bracket is secured with pop rivet or screw



Suspension with adjustable hanger and clip

| Size, mm   | Max live load (N) | Min load bearing capacity (N) |
|------------|-------------------|-------------------------------|
| 600x600x55 | 0                 | 220                           |

Live load/load bearing capacity

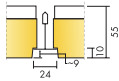
# Ecophon Combison™ Duo E

Ecophon Combison™ Duo E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect. For use as a suspended ceiling with high sound absorption and for sound insulation between rooms if the partitions do not extend all the way up to the soffit.

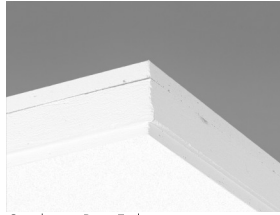


Silens Kålluråd, Stockholm, Sweden

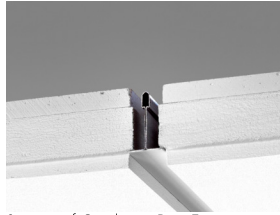
## SYSTEM RANGE



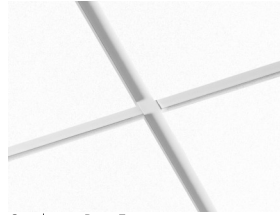
|              |         |
|--------------|---------|
| Size, mm     | 600x600 |
| T24          | •       |
| Thickness    | 55      |
| Inst. Diagr. | M86     |



Combison Duo E tile



Section of Combison Duo E system



Combison Duo E system

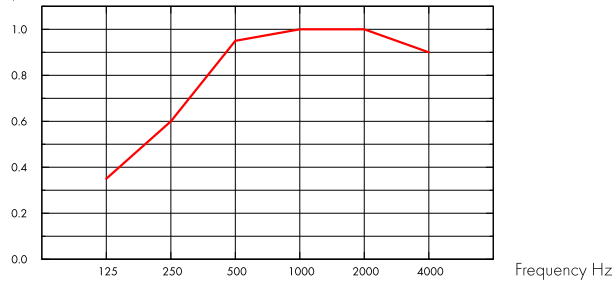
## Acoustic



### 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.

$\alpha_p$ , Practical sound absorption coefficient



— Combison Duo E 55 mm, 200 mm o.d.s.  
o.d.s = overall depth of system

| THK 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 |            |                        |
| 55     | 200       | 0.35  | 0.60   | 0.95   | 1.00    | 1.00    | 0.90    | 0.90       | A                      |

| THK mm | o.d.s. mm | NRC  | SAA  |
|--------|-----------|------|------|
| 55     | 200       | 0.90 | 0.89 |
| 55     | 400       | 0.90 | 0.89 |

| THK mm | AC(1.5)<br>Articulation Class, ASTM E1111,<br>ASTM E1110 | $D_{nfw}$<br>Weighted normalized flanking level difference,<br>ISO 10848-2 | $R_w$<br>Weighted sound reduction index, ISO<br>10140-2 |
|--------|--|--|---|
| 55     | 190  | 39   | 33  |

## Indoor Air Quality



| Certificate / Label         |          |
|-----------------------------|----------|
| Euofins Indoor Air Comfort® | IAC Gold |
| French VOC                  | A+       |



## Circularity



|  |                  |
|--|------------------|
| Minimum post-consumer recycled content | 61%*             |
| Recyclability                          | Fully recyclable |

\*this value does not take into account the plasterboard



### 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 A, relative humidity 70% and 25°C, according to EN 13964:2014



### Humidity Resistance

Class A, relative humidity 70% and 25°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.



### System weight

|                                      | kg/m <sup>2</sup> |
|--------------------------------------|-------------------|
| Combison Duo E                       | 12,6              |
| Combison Duo E + Connect Grid System | 13,6              |

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).

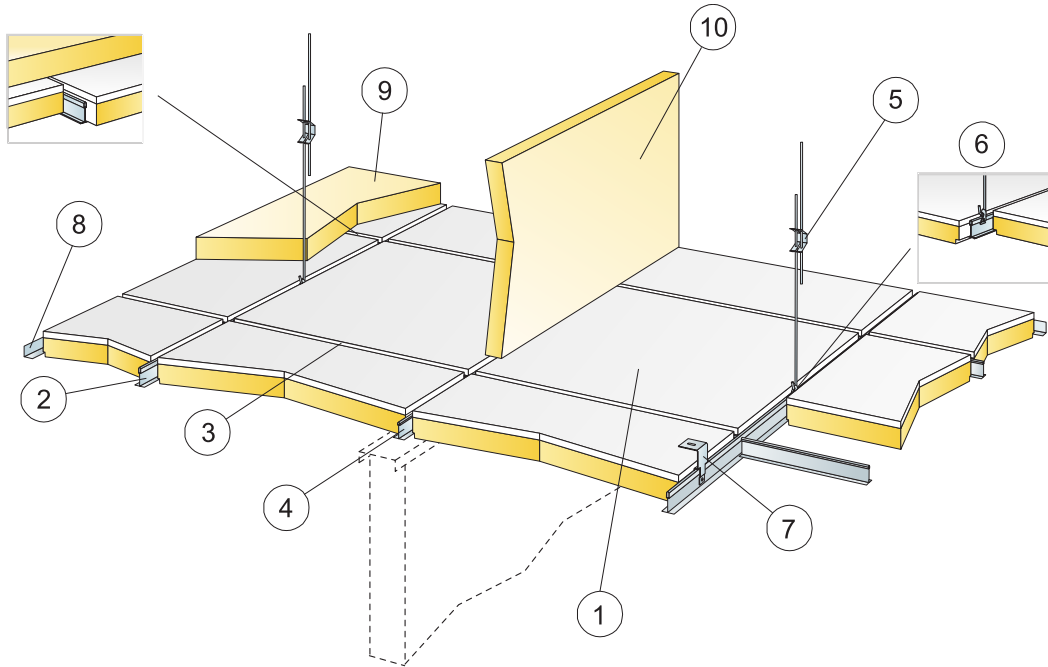


### CE

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.



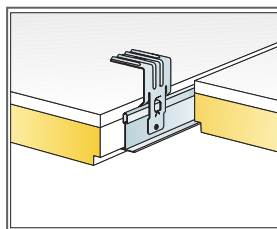
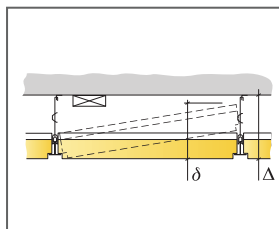
INSTALLATION DIAGRAM (M86) FOR ECOPHON COMBISON DUO E



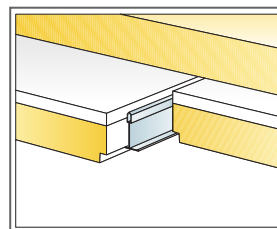
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

|  |  | Size, mm            |
|--|--|---------------------|
|  |  | 600x600             |
| 1  | Combison Duo E   | 2,8/m <sup>2</sup>  |
| 2  | Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)    | 0,9m/m <sup>2</sup> |
| 3  | Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres                            | 1,7m/m <sup>2</sup> |
| 4  | Connect T24 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>  |
| 6  | Connect Hanger Clip (not to be used in swimming hall environments)                       | 0,7/m <sup>2</sup>  |
| 7  | For direct installation: Connect Direct Bracket, installed at 1200 mm centres            | 0,7/m <sup>2</sup>  |
| 8  | Connect Angle trim, fixed at 200 mm centres  | as required         |
| 9  | Combison XR (if required)  | as required         |
| 10   | Combison Barrier (if required)   | as required         |
| Δ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 90 mm |  | -                   |
| δ Min. demounting depth: 230 mm  |  | -                   |



Direct bracket is secured with pop rivet or screw



Additional absorber on top of ceiling

| Size, mm   | Max live load (N) | Min load bearing capacity (N) |
|------------|-------------------|-------------------------------|
| 600x600x55 | 0                 | 220                           |

Live load/load bearing capacity

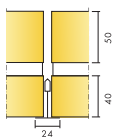


# Ecophon Combison™ XR

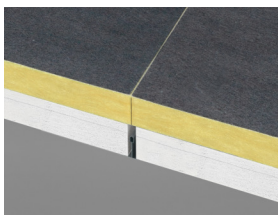
Ecophon Combison™ XR is a complementary product that is installed horizontally on top of the Combison ceiling tiles, to increase the sound reduction level between rooms. The product should cover as much of the ceiling surface as possible for the best acoustic performance.



## SYSTEM RANGE



|             |          |
|-------------|----------|
| Size, mm    | 1200x600 |
| T24         | •        |
| Thickness   | 50       |
| Inst. Diag. | M440     |



Combison XR system

### Acoustic



Addition of Combison XR on top of Ecophon Combison ceiling systems will give increased insulation properties. For detailed information please see corresponding systems for Combison.

| Product       | $D_{nfw}$<br>Weighted normalized flanking level difference, ISO 10848-2 |
|---------------|---|
| + 2 x 1200 XR | + 3   |
| + 100% XR     | + 6   |

### Circularity



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



Not applicable

### Cleanability



Not applicable.

### Accessibility



The tiles are demountable.

### Installation



Installed according to installation diagrams, installation guides and drawing aid.



### Mechanical properties

---

Not applicable.



### System weight

---

|             | kg/m <sup>2</sup> | Weight information is indicative and subject to variation. |
|-------------|-------------------|--|
| Combison XR | 1,5               |  |

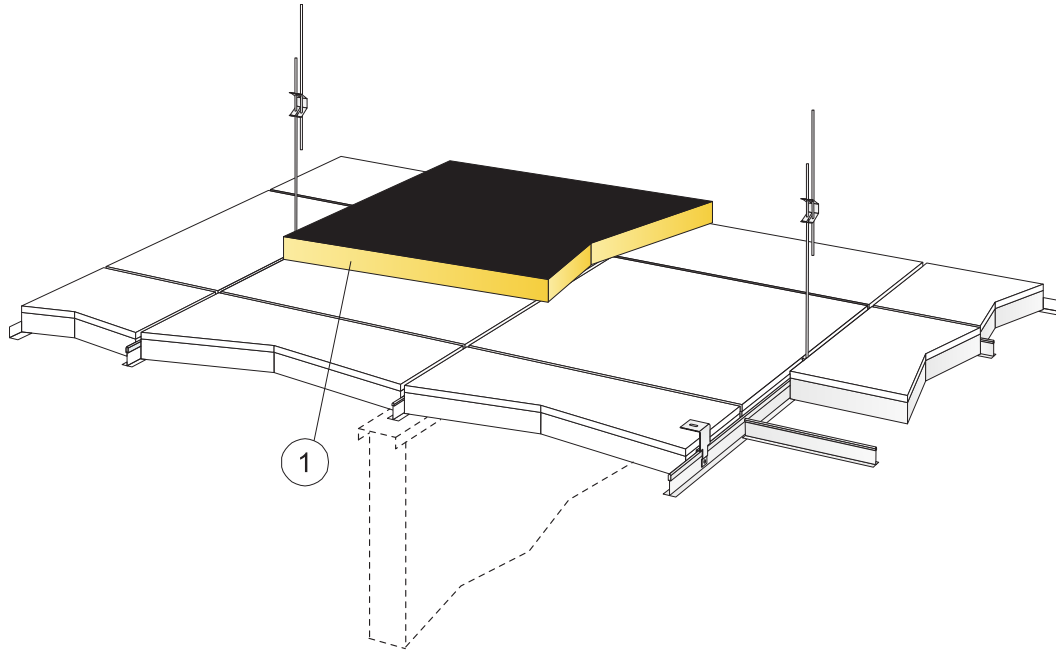


### CE

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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 (M440) FOR ECOPHON COMBISON XR



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### QUANTITY SPECIFICATION (EXCL. WASTAGE)

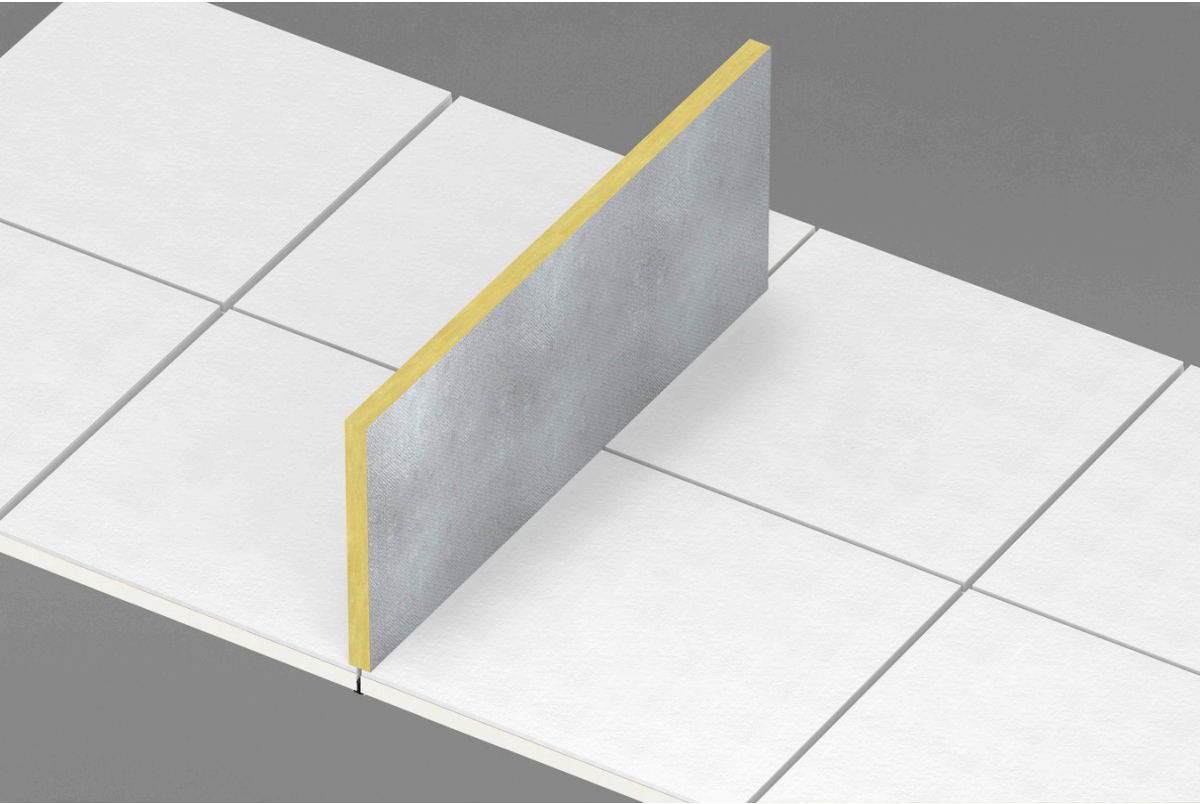
|   |             | Size, mm        |
|---|-------------|-----------------|
|   |             | <b>1200x600</b> |
| 1 | Combison XR | as required     |

| Size, mm    | Max live load (N) | Min load bearing capacity (N) |
|-------------|-------------------|-------------------------------|
| 1200x600x50 | 0                 | -                             |

Live load/load bearing capacity

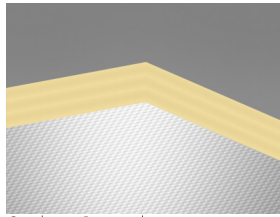
# Ecophon Combison™ Barrier

Ecophon Combison™ Barrier is an acoustic panel that is vertically installed above partitions in the plenum. Creates a sound barrier to improve the room to room sound insulation. Combison Barrier should be used together with other Ecophon systems for best acoustic performance.



### SYSTEM RANGE

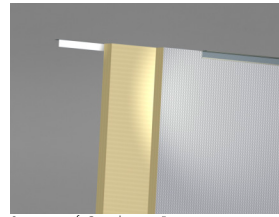
|  |          |
|--|----------|
|  Size, mm | 1200x600 |
| Direct   | •        |
| Thickness  | 40       |
| Inst. Diag.  | M160     |



Combison Barrier tile



Combison Barrier system



Section of Combison Barrier system

### Acoustic



For use as acoustic barrier above partitions in plenum to improve the room to room sound insulation. The Combison Barrier should be used together with other Ecophon systems.

### Circularity



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



Not applicable. The panel has aluminium foil on one side.

### Cleanability



Not applicable.

### Accessibility



The tiles are demountable.

### Installation



Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

### Mechanical properties



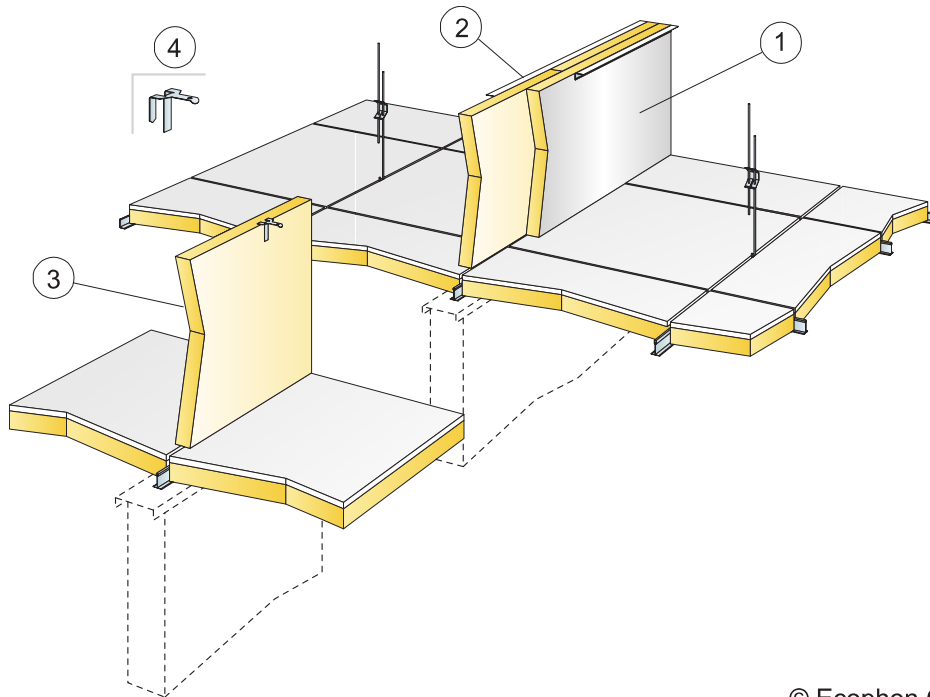
No additional live load is allowed.



### 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.

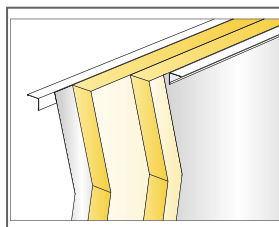
## INSTALLATION DIAGRAM (M160) FOR ECOPHON COMBISON BARRIER



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### QUANTITY SPECIFICATION (EXCL. WASTAGE)

|   | <b>Size, mm</b> |
|---|-----------------|
|   | <b>1200x600</b> |
| 1 Combison Barrier in double layers with displaced joints and exposed alu-foil side | as required     |
| 2 Connect Angle trims position upper part of Barrier panels                         | as required     |
| 3 Combison Barrier in single layer  | as required     |
| 4 Connect Frieze bracket 0043 position upper part of Barrier panels                 | as required     |



Double layers of Combison Barrier with Connect Angle trim

| Size, mm    | Max live load [N] | Min load bearing capacity [N] |
|-------------|-------------------|-------------------------------|
| 1200x600x40 | -                 | -                             |

Live load/load bearing capacity