



ECOPHON

COMBISON™

Sound insulation and absorption in one

A sound effect on people

Saint-Gobain Ecophon contributes to good indoor environments for working, healing and learning. We do this by developing, manufacturing, and delivering acoustic products and systems designed around the natural evolution of human hearing - replicating the outdoor sound experience indoors, because that's just better for people. Having a sound effect on people, in every way we can, is what we do proudly. That promise makes every one of us a passionate advocate for the importance of room acoustics to people's wellbeing - whatever the space, activity or need.

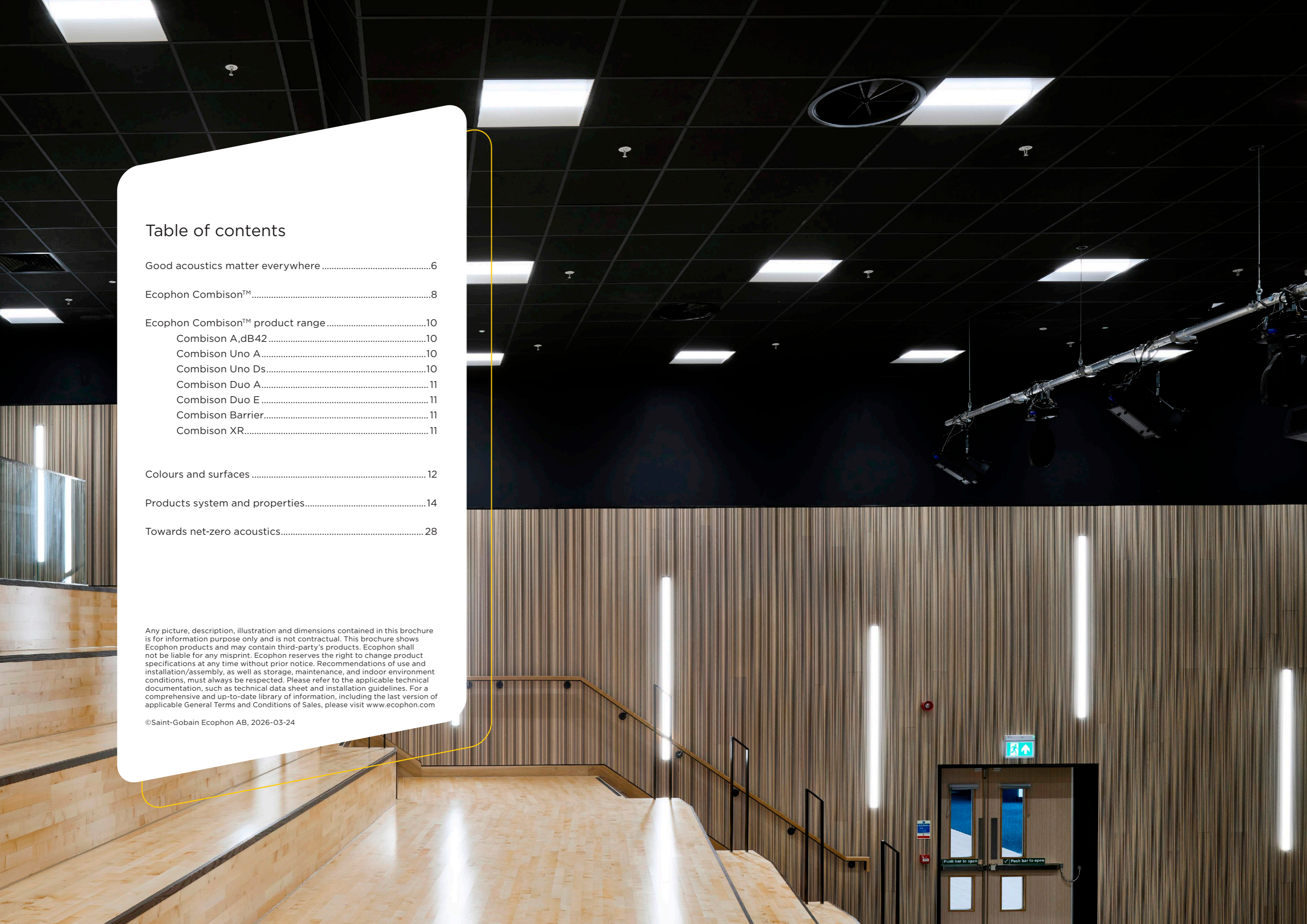


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Good acoustics matter everywhere

The importance of acoustics is underappreciated. Sound impacts us in daily life, and the scientific support for improving our indoor sound environments is well documented.

And what exactly is an ideal indoor sound environment for people? One based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there is not any sound reflections from ceilings and walls.

That's why most of what we do at Ecophon is about replicating the acoustic qualities found in nature for indoor environments. We want to optimise indoor spaces to our natural way of hearing, so that speech and sound are easy to hear and understand, when needed, improving performance and wellbeing.

Usually, that starts with the ceiling. A wall-to-wall acoustic ceiling is the easiest way to get a large sound-absorbing surface area into a space, and is usually the best way to reduce sound strength, shorten reverberation times, and increase speech clarity and overall hearing comfort.



Up to
43dB
Room to room sound insulation
depending on solution

ECOPHON **COMBISON™**

Sound insulation and absorption in one

Ecophon Combison™ is a high-performance acoustic ceiling solution designed to deliver effective sound insulation between spaces. It is particularly suited for environments where partitions do not extend to the soffit, helping to reduce sound transmission through the ceiling void. By combining sound absorption with sound insulation, Combison enhances acoustic comfort while supporting speech privacy.

- Up to absorption class A depending on chosen solution
- 3 different edge options
- Sound insulation and absorption in one

Product range

ECOPHON COMBISON™

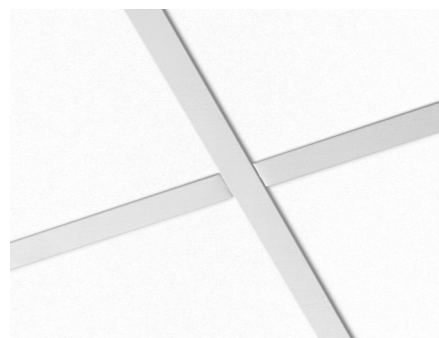
Ecophon Combison™ is available as a complete ceiling system with multiple edge designs and installation options to suit different project requirements. The range includes solutions with exposed, recessed, and concealed grids, with demountable tiles that allow easy access to the plenum. Panels are offered in standard module sizes and thicknesses, with complementary elements that can further enhance acoustic performance, supporting a flexible and well-integrated ceiling design.

ECOPHON COMBISON™ A, dB42



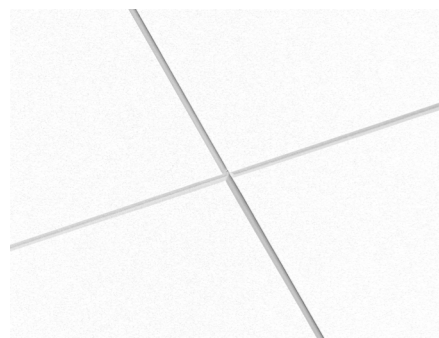
Measurements	Installation method
600x600x50	Suspended ceiling
1200x600x50	Suspended ceiling

ECOPHON COMBISON™ UNO A



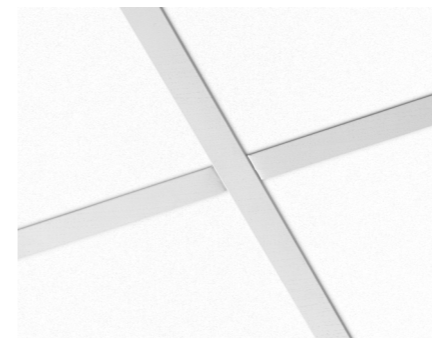
Measurements	Installation method
600x600x35	Suspended ceiling
1200x600x35	Suspended ceiling

ECOPHON COMBISON™ UNO Ds



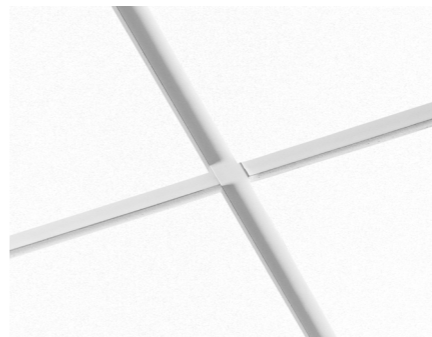
Measurements	Installation method
600x600x35	Suspended ceiling

ECOPHON COMBISON™ DUO A



Measurements	Installation method
600x600x55	Suspended ceiling

ECOPHON COMBISON™ DUO E



Measurements	Installation method
600x600x55	Suspended ceiling

ECOPHON COMBISON™ BARRIER



Measurements	Installation method
1200x600x40	Barrier installation

ECOPHON COMBISON™ XR

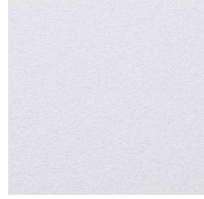


Measurements	Installation method
600x600x50	Installation in grid

Colour and surface

Akutex™ FT

The Akutex™ FT surface features a refined pore structure that enables the glass wool core to provide optimal sound absorption.



White Frost
Light reflectance:
85%.
Nearest NCS
colour sample:
S 0500-N.

Note
Colours may vary slightly between different
production batches. The actual product
colour may differ from the visual reference.



12 Ecophon Combison panels contribute to a healthy indoor environment with superior acoustic absorption, low VOC emissions in line with the strict requirements, and a full chemical transparency with verified Health Product Declarations. The low environmental footprint of our Combison panels is third-party verified in Environmental Product Declarations.

The products do not contribute to fire and the glass wool core of the Master tiles is tested and classified as non-combustible according to EN ISO 1182. Fire classification according to EN 13501-1, see Technical Properties on respectively product.

Note

More product and system information such as installation help and sustainability documentation can be found at www.ecophon.com

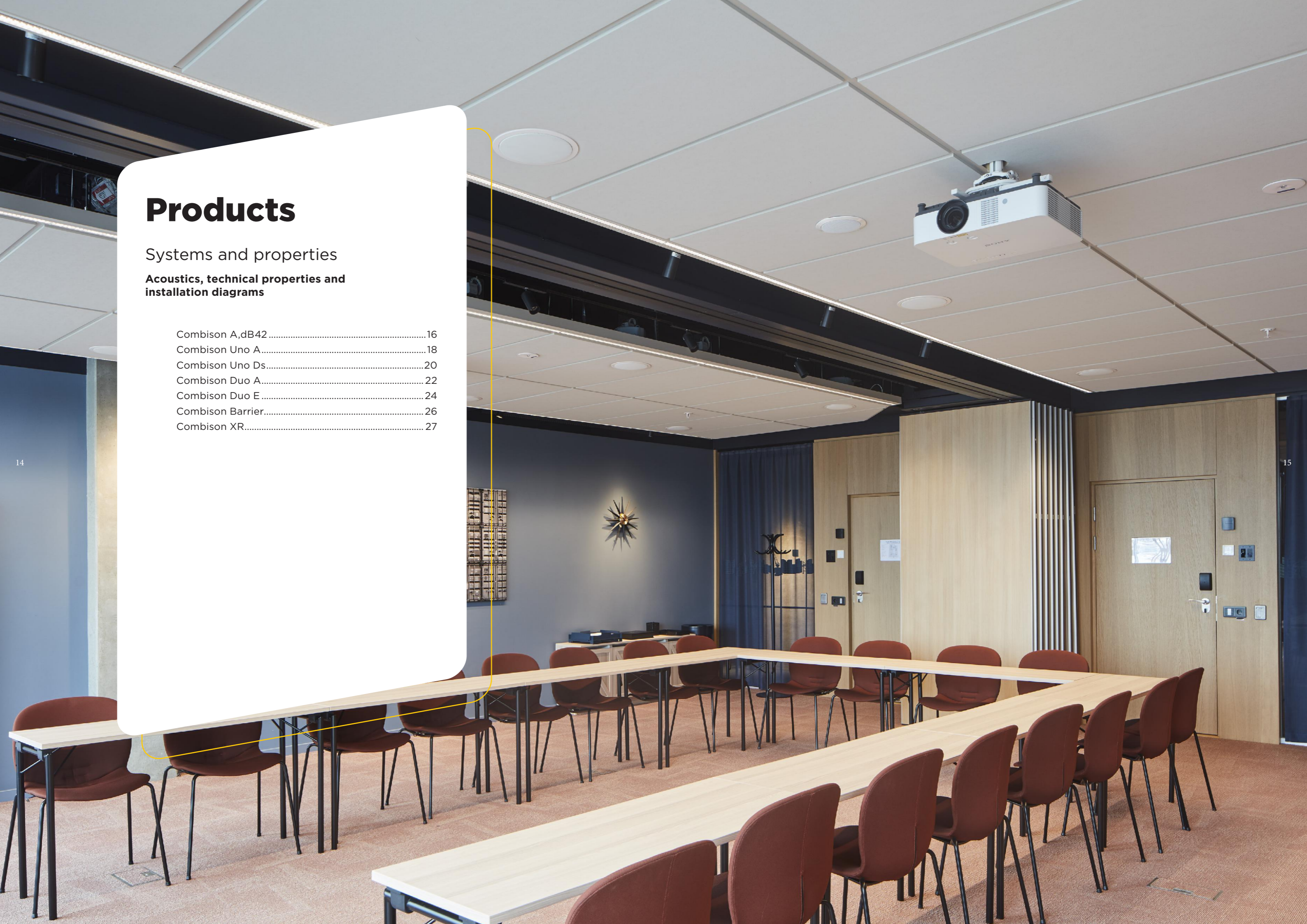


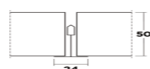
Products

Systems and properties

Acoustics, technical properties and installation diagrams

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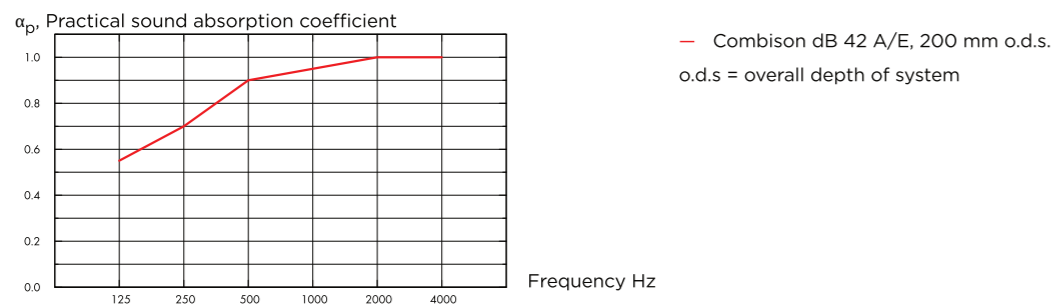


Ecophon Combison™ A, dB 42

ACOUSTICS:

Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.



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		
50	200	0.55	0.70	0.90	0.95	1.00	1.00	0.95	A

THK mm	Product	D_{nfw}	
		Weighted normalized flanking level difference, ISO 10848-2	Weighted sound reduction index, ISO 10140-2
50	-	42	21
-	+ 1 x Barrier	+4	-
-	+ 2 x Barrier	+8	-
-	+ 2 x 1200 XR	+3	-

INDOOR AIR QUALITY:

Certificate / Label

Eurofins Indoor Air Comfort* IAC Gold
French VOC A+

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

	kg CO ₂ equiv/m ²
Combison A dB 42	8,0

CIRCULARITY: Fully recyclable.

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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

VISUAL APPEARANCE: Akutex FT: White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1. For more info see Colours and surfaces.

CLEANABILITY: Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. For more info see Colours and surfaces.

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 600x600x50: A, 8, 2.88, 1200x600x50: A, 4, 2.88,

SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison A, dB 42: 6,8, Combison A, dB 42 + Connect Grid System: 7,8,

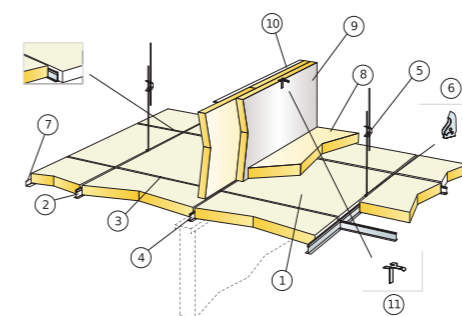
MECHANICAL PROPERTIES: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

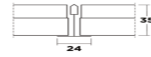
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM IN DETAIL WWW.ECOPHON.COM

M531

Installation diagram (M531) for Ecophon Combison A, dB 42



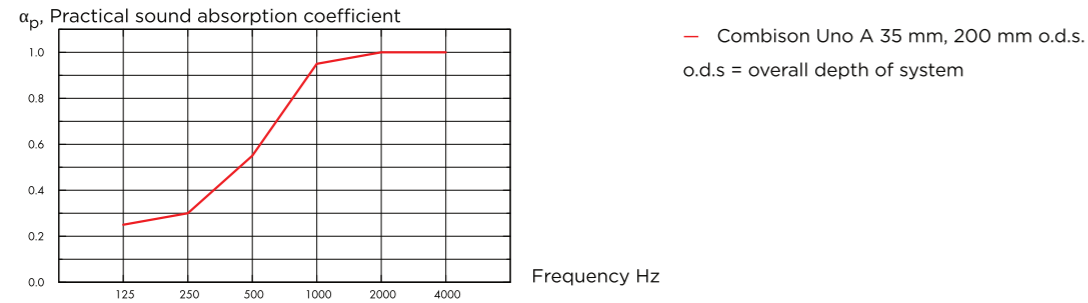


Ecophon Combison™ Uno A

ACOUSTICS:

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.



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		
35	200	0.25	0.30	0.55	0.95	1.00	1.00	0.55	D

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

INDOOR AIR QUALITY:

Certificate / Label	Standard
French VOC	A+

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

	kg CO ₂ equiv/m ²
Combison Uno A (EN 15804+A2)	9,21

CIRCULARITY: *this value does not take into account the plasterboard Minimum post-consumer recycled content: 56%*, Recyclability: Fully recyclable,

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 600x600x35: A, 40, 14.40, 1200x600x35: A, 20, 14.40,

SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison Uno A: 11,0, Combison Uno A + Connect Grid System: 12,0,

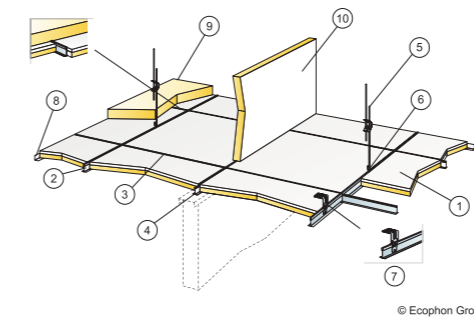
MECHANICAL PROPERTIES: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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 IN DETAIL WWW.ECOPHON.COM

M188

Installation diagram (M188) for Ecophon Combison Uno A



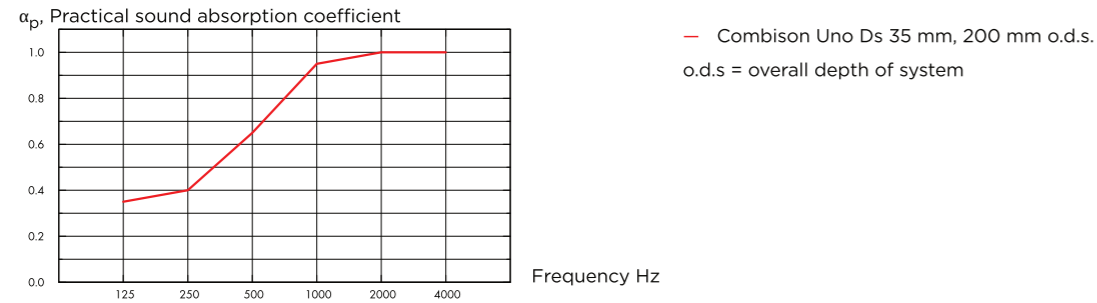
© Ecophon Group

Ecophon Combison™ Uno Ds

ACOUSTICS:

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.



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		
35	200	0.35	0.40	0.65	0.95	1.00	1.00	0.65	C

THK mm	D_{nfw}		R_w	
	Weighted normalized flanking level difference, ISO 10848-2		Weighted sound reduction index, ISO 10140-2	
30	41		28	

INDOOR AIR QUALITY:

Certificate / Label	Standard
French VOC	A+

CIRCULARITY: *this value does not take into account the plasterboard Minimum post-consumer recycled content: 56%*, Recyclability: Fully recyclable,

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 600x600x35: Ds, 40, 14.40,

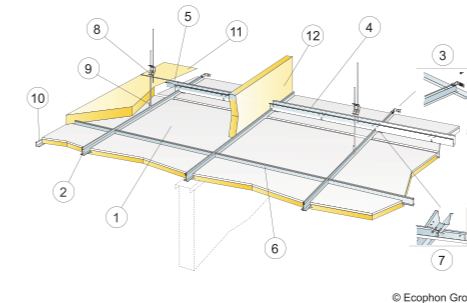
SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison Uno Ds: 11,4, Combison Uno Ds + Connect Grid System: 12,4,

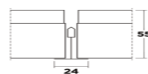
MECHANICAL PROPERTIES: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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 IN DETAIL WWW.ECOPHON.COM

M629
Installation diagram (M629) for Ecophon Combison Uno Ds. Suspended installation



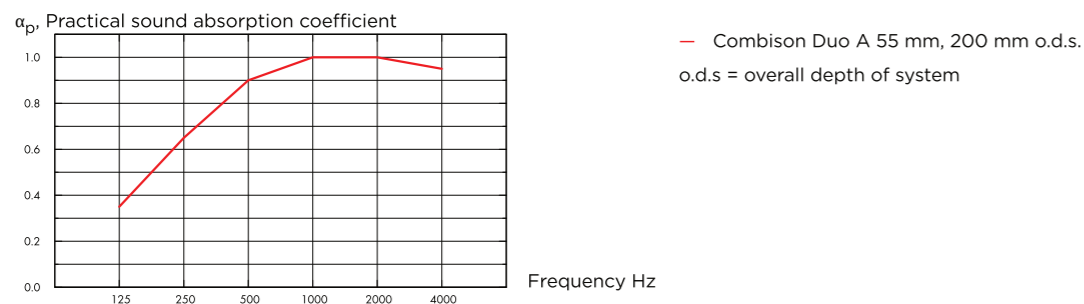


Ecophon Combison™ Duo A

ACOUSTICS:

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.



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		
55	200	0.35	0.65	0.90	1.00	1.00	0.95	0.90	A

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

INDOOR AIR QUALITY:

Certificate / Label	Standard
French VOC	A+

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

	kg CO ₂ equiv/m ²
Combison Duo A (EN 15804+A2)	14,3

CIRCULARITY: *this value does not take into account the plasterboard Minimum post-consumer recycled content: 62%*, Recyclability: Fully recyclable,

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 600x600x55: A, 40, 14.40,

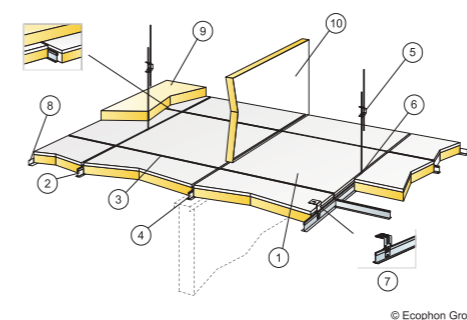
SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison Duo A: 12,5, Combison Duo A + Connect Grid System: 13,5,

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 IN DETAIL WWW.ECOPHON.COM

M85
Installation diagram (M85) for Ecophon Combison Duo A

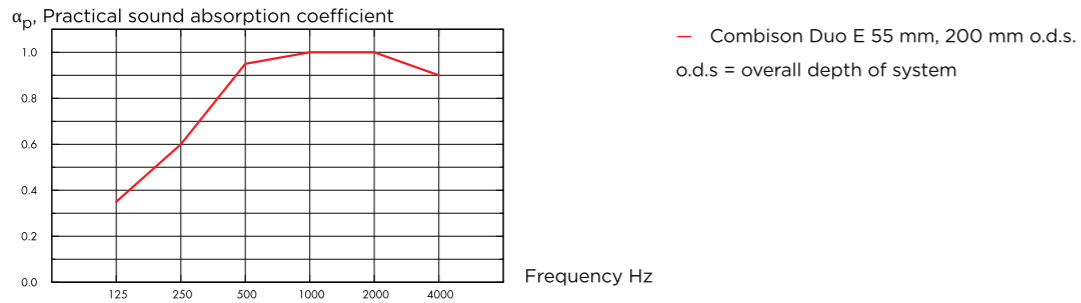


Ecophon Combison™ Duo E

ACOUSTICS:

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.



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		
55	200	0.35	0.60	0.95	1.00	1.00	0.90	A	

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

INDOOR AIR QUALITY:

Certificate / Label	Standard
French VOC	A+

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

	kg CO ₂ equiv/m ²
Combison Duo E (EN 15804+A2)	9,54

CIRCULARITY: *this value does not take into account the plasterboard Minimum post-consumer recycled content: 61%*, Recyclability: Fully recyclable,

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 600x600x55: E, 40, 14.40,

SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison Duo E: 12,6, Combison Duo E + Connect Grid System: 13,6,

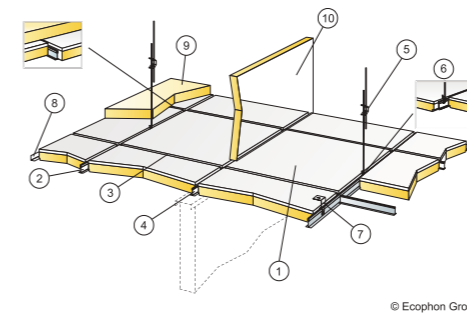
MECHANICAL PROPERTIES: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

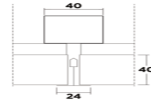
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM IN DETAIL WWW.ECOPHON.COM

M86

Installation diagram (M86) for Ecophon Combison Duo E





Ecophon Combison™ Barrier

ACOUSTICS: 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: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 1200x600x40: Barrier, 6, 4.32,

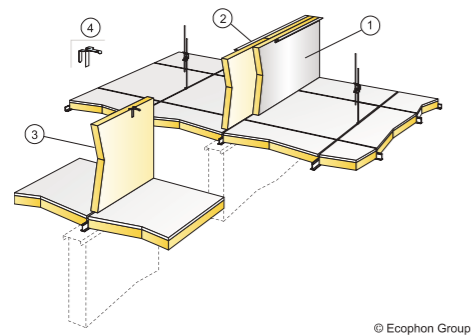
SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison Barrier: 3,3,

MECHANICAL PROPERTIES: No additional live load is allowed.

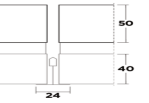
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM IN DETAIL WWW.ECOPHON.COM

M160
Installation diagram (M160) for Ecophon Combison Barrier



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Ecophon Combison XR

ACOUSTICS: 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} Weighted normalized flanking level difference, ISO 10848-2
+ 2 x 1200 XR	+ 3
+ 100% XR	+ 6

CIRCULARITY: Fully recyclable.

FIRE SAFETY: The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

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.

PACKAGING INFORMATION: Information is indicative and subject to change. 1200x600x50: XR, 16, 11.52,

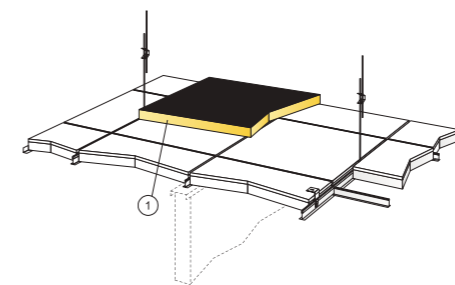
SYSTEM WEIGHT: Weight information is indicative and subject to variation. Combison XR: 1,5,

MECHANICAL PROPERTIES: Not applicable

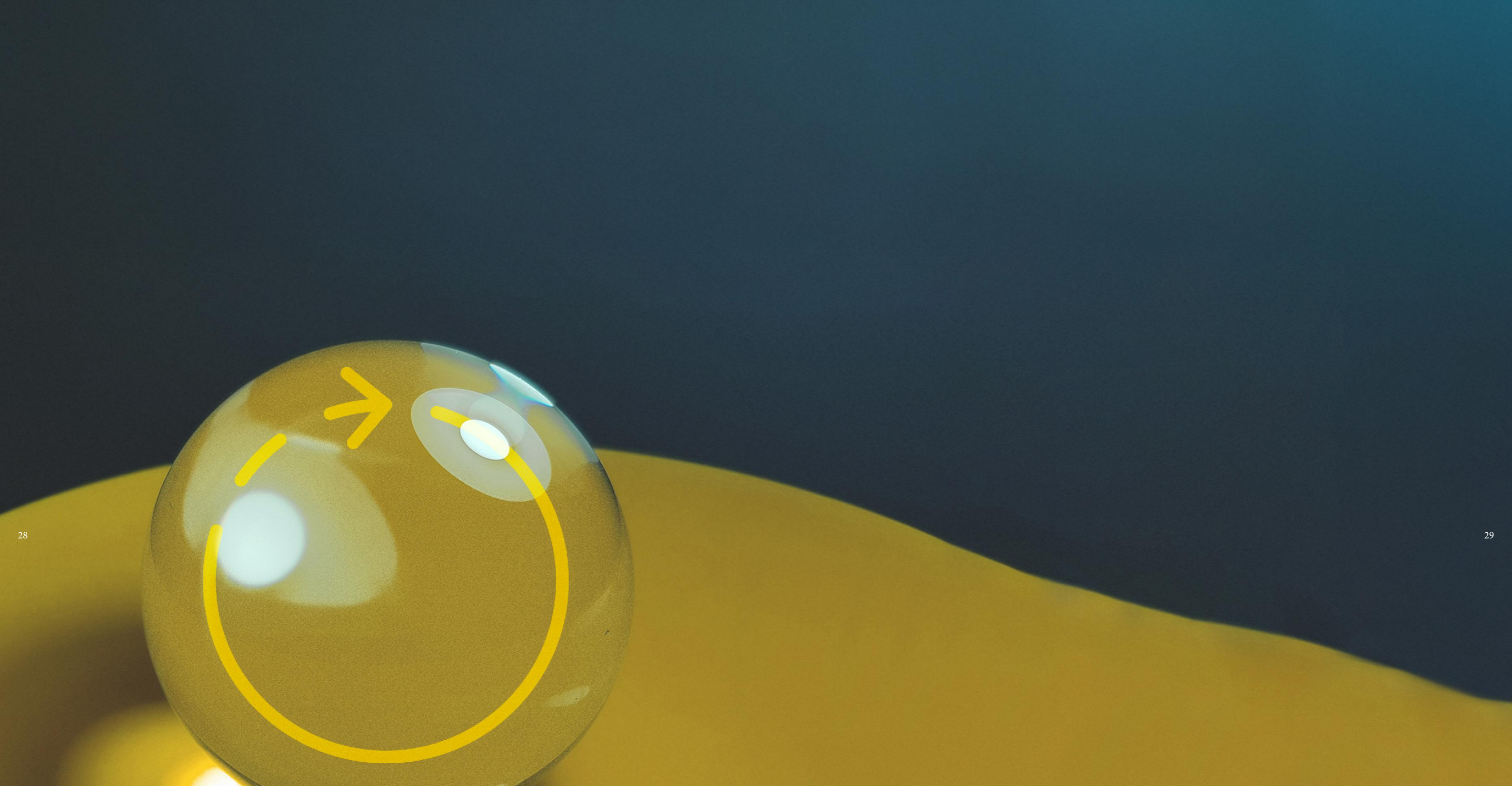
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM IN DETAIL WWW.ECOPHON.COM

M440
Installation diagram (M440) for Ecophon Combison XR



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Sustainability

Towards net-zero acoustics

Sustainability is more than a word – it’s a collective movement to protect people and the planet that requires honest commitment and genuine care. That’s why Ecophon is building on better materials, transparency, and principles, to name just a few.

We actively support an industry-wide drive to standardised, easy-access Environmental Product Declarations for individual products, rather than product families. Their inclusion of full lifecycle data,

from raw material sourcing to end of life, rather than only the favourable stages. A move away from self-declared labels, or non-independently verified sustainability claims.

And for any promises of net zero carbon emission targets to be validated by the Science-Based Targets initiative.

If we’re going to build a sustainable future, it has to start with an honest approach, high ambition and the best of intentions – to build on better together.

Ecophon is the leading supplier of indoor acoustic solutions that improve working performance and quality of life. We believe in the difference sound can make to our everyday lives, and are passionate advocates for the importance of room acoustics to people's wellbeing – whatever the space, activity or need.

Having a sound effect on people is the principle that guides all we do. We're proud of the Swedish heritage and human approach that promise is founded on. Our uncompromising commitment to transparent sustainable practice. And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.



Saint-Gobain Ecophon AB
Box 500, SE-265 03 Hyllinge, Sweden
Phone: +46 (0)42 17 99 00
Fax: +46 (0)42 22 55 55
www.ecophon.com

SE556142516501 • Based in Åstorp

