Ecophon Solo™ Baffle Wave

Ecophon Solo™ Baffle Wave is an acoustic solutions, primarily when it is not possible to install wall-to-wall ceilings. Baffles are suitable in buildings where the volume should be maintained, the natural light is brought into the room from skylights or as an option when TABS (Thermally Activted Building System) is selected as cooling system.

Ecophon Solo™ Baffle Wave gives the room a special design and possibility to express design in shape and colours.
Different possibilities exist to suspend the baffles using Connect™ Baffle profile, Connect Adjustable wire hanger or Connect™ grid system. The systems consist of Ecophon Solo™ Baffle Wave/anchor or Solo™ Baffle Wave/hook and Connect™ accessories with an approximate weight of 2-3 kg/m. The Solo Baffle Wave is available in sizes 1800x600/300x40 and 1800x300/200x40 mm. The baffles are manufactured from high density glass wool, with Akutex™ FT surface on both sides. The edges are straight cut and painted. Ecophon Solo™ Baffle Waves are easily demountable systems.

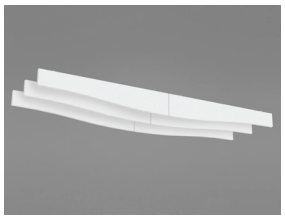


Hallarna, Halmstad, Sweden

SYSTEM RANGE



Size, mm	1800x300	1800x600
Special Fixing	•	•
Thickness (THK)	40	40
Inst. Diagr.	M495, M419	M495, M419



Solo Baffle Wave



Solo Baffle Wave/anchor



Solo Baffle Wave/anchor installation



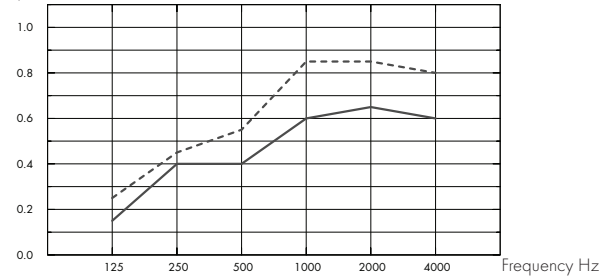
Solo Baffle Wave/hook

Acoustic

Sound Absorption:

Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. 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

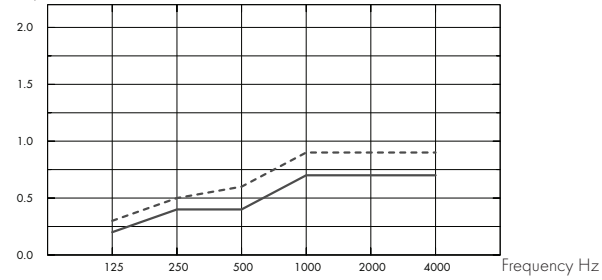


– Solo Baffle Wave 1800x300/200, spacing 600, direct mounting

--- Solo Baffle Wave 1800x600/300, spacing 600, direct mounting

o.d.s = overall depth of system

A_{eq}, Equivalent absorption area per unit (m^2 sabin)



– Solo Baffle Wave 1800x300/200

--- Solo Baffle Wave 1800x600/300

o.d.s = overall depth of system

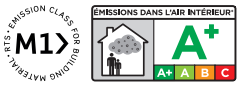
	THK mm	o.d.s. mm	α_p, Practical sound absorption coefficient						α_w
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
c600	40	200	0.15	0.40	0.40	0.60	0.65	0.60	0.50
c600	40	300	0.25	0.45	0.55	0.85	0.85	0.80	0.65

	THK mm	o.d.s. mm	NRC	SAA
c600	40	200	0.50	0.52
c600	40	300	0.70	0.68

	THK mm	o.d.s. mm	A_{eq}, Equivalent absorption area per unit (m^2 sabin)					
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
c600	40	200	0.20	0.40	0.40	0.70	0.70	0.70
c600	40	300	0.30	0.50	0.60	0.90	0.90	0.90

Indoor Air Quality

Certificate / Label	
Finnish M1	•
French VOC, A+	•



Environmental Footprint

Solo Square, Kg CO_2 equiv/m^2: 8,07

From EPD in conformity with ISO 14025 / EN 15804

Circularity

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 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 demountable.

Installation

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

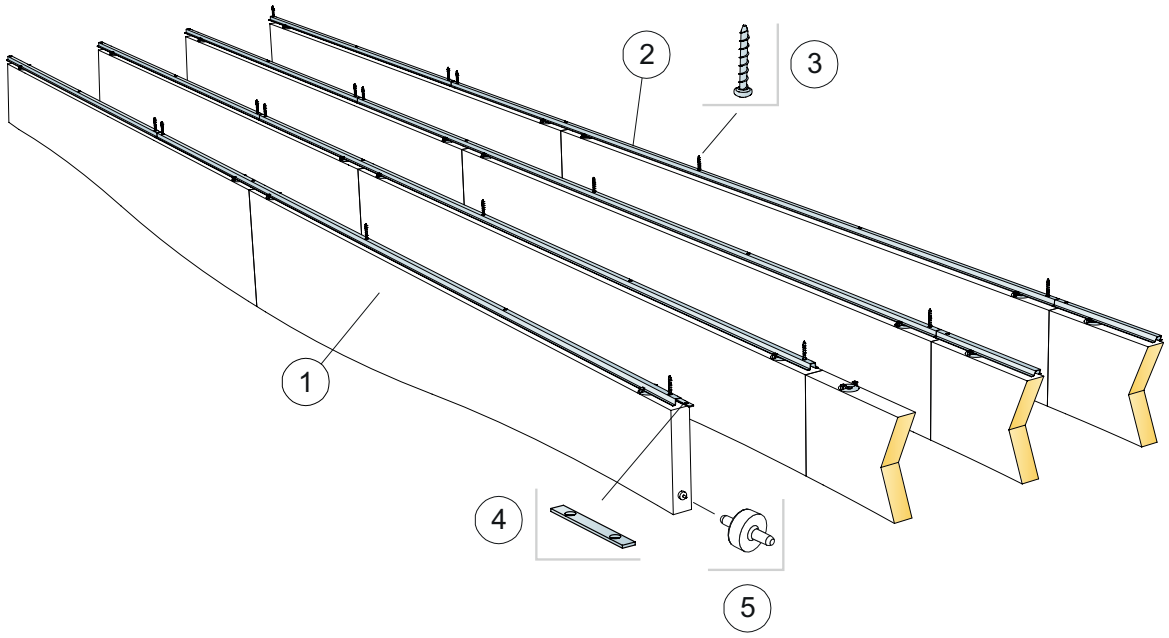
Mechanical properties

Additional live load has to be fixed to the soffit.

CE

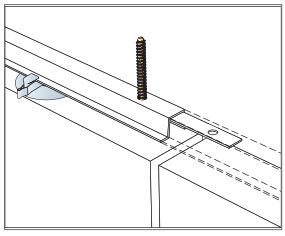
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM (M419) FOR ECOPHON SOLO BAFFLE WAVE/ANCHOR

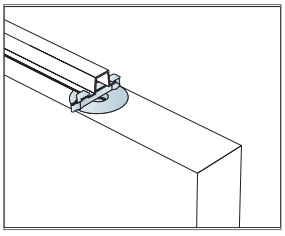


QUANTITY SPECIFICATION (EXCL. WASTAGE)

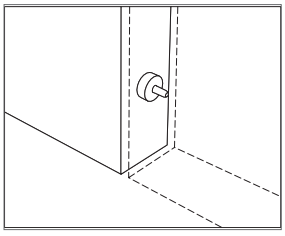
		Size, mm	
		1800x300	**1800x600**
1	Solo Baffle Wave/anchor, installed at 300 mm centres	1,9/m²	1,9/m²
2	Connect Baffle profile, installed at 300 mm centres	3,3m/m²	3,3m/m²
3	Connect Anchor screw, fixed at 1200 mm centres	2,8/m²	2,8/m²
4	Connect Profile connector, installed at 2400 mm centres	1,4/m²	1,4/m²
5	Connect Guiding pin, installed at 1800 mm centres	1,9/m²	1,9/m²



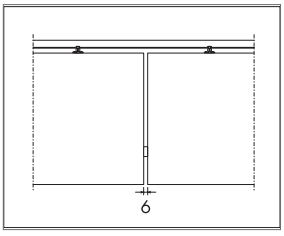
Fixing of Connect Profile connector



The baffles are secured with clips



Connect Guiding pin, used to fix distance and level between panels



Distinct gap of 6 mm between baffles with Connect Guiding pin