

Ecophon Solo™ Baffle

Ecophon Solo Baffles are 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 Activated Building System) is selected as cooling system.

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/anchor or Solo Baffle/hook and Ecophon Connect accessories with an approximate weight of 2-3 kg/m. The baffles are manufactured from high density, 3rd generation glass wool, with Akutex FT surface on both sides. The edges

are straight cut and painted. Ecophon Solo Baffles are easily demountable systems.



Mallru, Russia

SYSTEM RANGE



Size, mm	1200x200	1200x300	1200x600
Special Fixing	•	•	•
Thickness (THK)	40	40	40
Inst. Diagr.	M232, M322	M232, M322	M232, M322



Solo Baffle/anchor



Solo Baffle/anchor installation



Solo Baffle/hook



Solo Baffle/hook installation



Acoustic

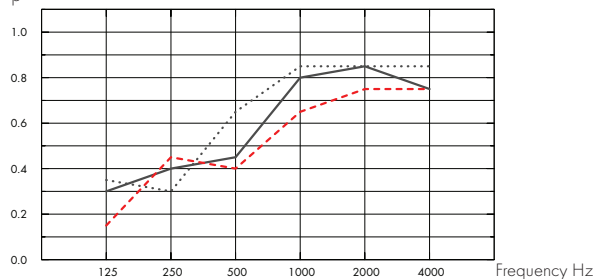
Sound Absorption:

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



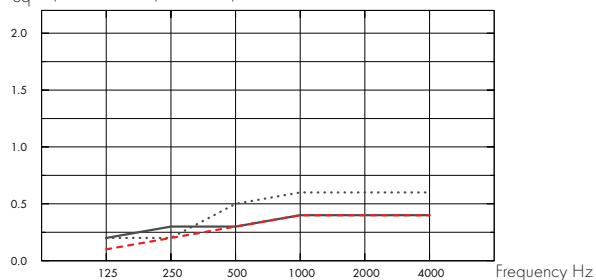
... Solo Baffle 1200x600 spacing 600mm, direct mounting

— Solo Baffle 1200x300, spacing 300mm, direct mounting

--- Solo Baffle 1200x200, spacing 300mm, direct mounting

o.d.s = overall depth of system

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



... Solo Baffle 1200x600

— Solo Baffle 1200x300

--- Solo Baffle 1200x200

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		
c600	40	600	0.35	0.30	0.65	0.85	0.85	0.85	0.60	C
c300	40	300	0.30	0.40	0.45	0.80	0.85	0.75	0.55	D
c300	40	200	0.15	0.45	0.40	0.65	0.75	0.75	0.50	D

	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	600	0.20	0.20	0.50	0.60	0.60	0.60
c600	40	300	0.20	0.30	0.30	0.40	0.40	0.40
c600	40	200	0.10	0.20	0.30	0.40	0.40	0.40



Accessibility

The tiles are demountable.



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance (of which more than 99% is diffuse reflection). Retro reflection coefficient 63 mcd/(m²lx). Gloss < 1.



Influence of climate

The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611).



Indoor Climate

Certificate / Label	
Finish M1	•
French VOC, A+	•
Swedish Asthma and Allergy Association	•
Danish Indoor Climate Label	•
California Emission Regulation, CDPH	•



Environmental influence

Certificate / Label	
The Nordic Ecolabel	•

Fully recycable.



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.



Mechanical properties

Additional live load has to be fixed to the soffit.



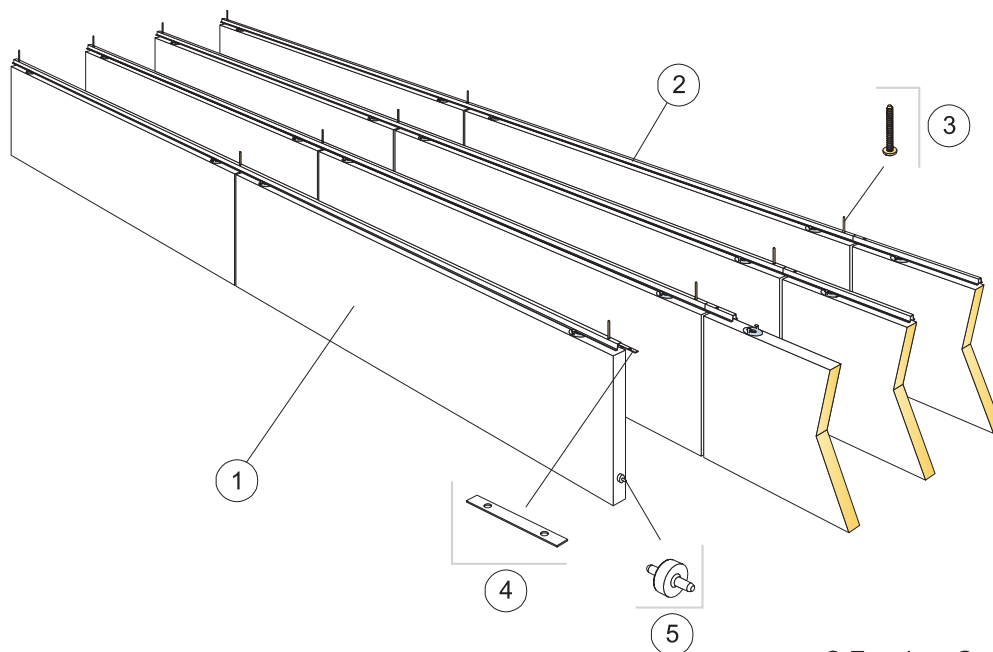
Installation

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



CE

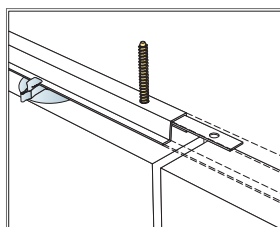
The CE marking confirms important product performance such as sound absorption, emissions, fire safety and load bearing capacity. All Ecophon ceiling products are CE marked according to European standard EN13964, and individual product performance is declared in Declaration of Performance (DoP) documents.



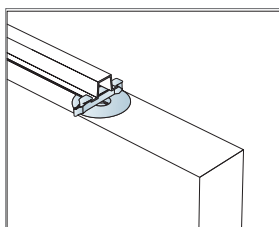
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

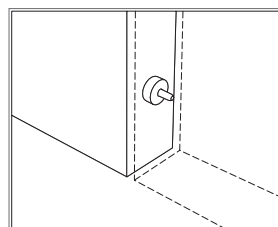
		Size, mm		
		1200x200	1200x300	1200x600
1	Solo Baffle/anchor	2,8/m ²	2,8/m ²	2,8/m ²
2	Connect Baffle profile, installed at 300 mm centres	3,3m/m ²	3,3m/m ²	3,3m/m ²
3	Connect Anchor screw, fixed at 1200 mm centres	2,8/m ²	2,8/m ²	2,8/m ²
4	Connect Profile connector, installed at 2400 mm centres	1,4/m ²	1,4/m ²	1,4/m ²
5	Connect Guiding pin, installed at 1200 mm centres	2,8/m ²	2,8/m ²	2,8/m ²



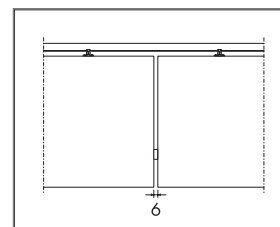
Fixing of Connect Profile connector



The baffles are secured with clips

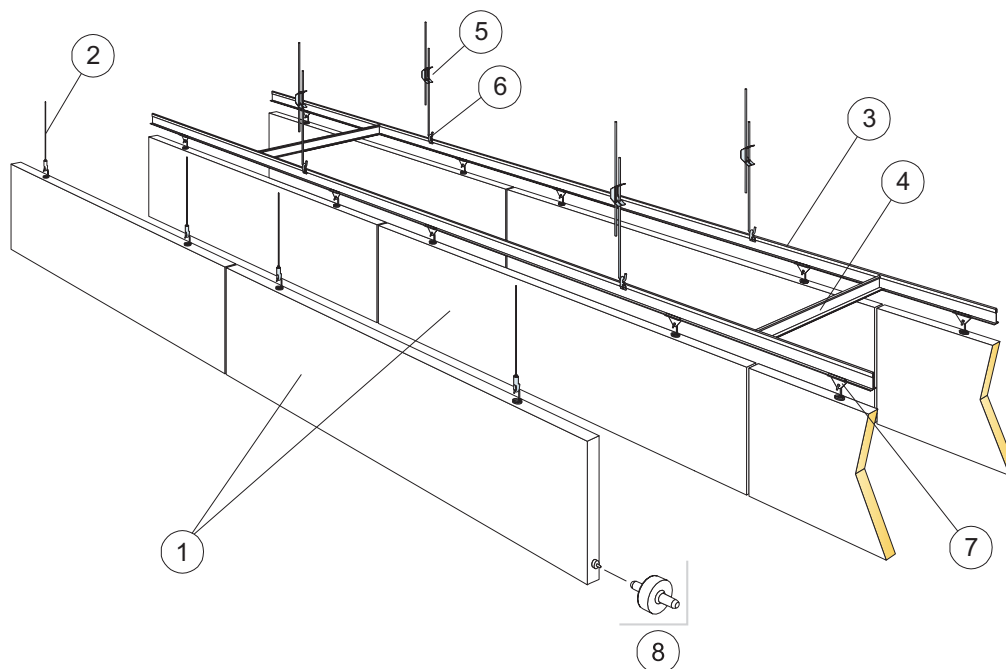


Connect Guiding pin, used to fix distance and level between panels



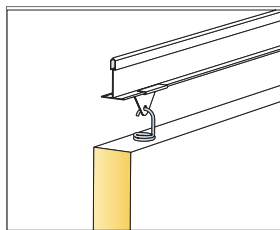
Distinct gap of 6 mm between baffles with Connect Guiding pin

INSTALLATION DIAGRAM (M322) FOR ECOPHON SOLO BAFFLE/HOOK

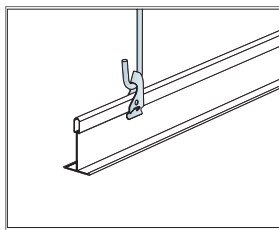


QUANTITY SPECIFICATION (EXCL. WASTAGE)

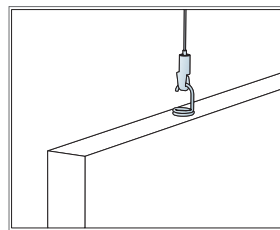
		Size, mm		
		1200x200	1200x300	1200x600
1	Solo Baffle/hook	1,4/m ²	1,4/m ²	1,4/m ²
2	Connect Adjustable wire hanger (Alt 1)	2/panel	2/panel	2/panel
3	Connect T24 Main runner, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm, installed at 1800 mm centres	0,6m/m ²	0,6m/m ²	0,6m/m ²
5	Connect Adjustable hanger c1200	1,4/m ²	1,4/m ²	1,4/m ²
6	Connect Hanger clip	1,4/m ²	1,4/m ²	1,4/m ²
7	Connect Baffle clip	2,8/m ²	2,8/m ²	2,8/m ²
8	Connect Guiding pin, installed at 1200 mm centres	2,8/m ²	2,8/m ²	2,8/m ²



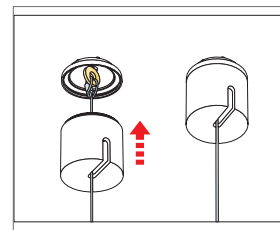
Detail of suspension



Suspension with adjustable hanger and clip



Suspension with Connect Adjustable wire hanger



Installation of Connect Covering cup