

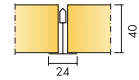


ECOPHON MASTER™ A

Suitable for schools, open plan offices or other premises where strict demands are made on good acoustics and speech intelligibility, and where demountability is vital. Ecophon Master A has an exposed grid system. Each tile is easily demountable.

The system consists of Ecophon Master A tiles and Ecophon Connect grid systems, with an approximate weight of 5 kg/m². The tiles are manufactured from high density glass wool. The visible surface is available with three different surface coatings to meet different sound absorption needs: alpha, beta and gamma. The back of the tile is covered with glass tissue. The edges are primed.

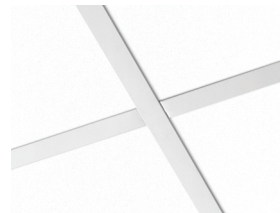
To improve absorption in the low frequency range, Master Extra Bass can be installed on top of the suspended ceiling. For best performance and system quality, use Ecophon Connect grid and accessories. The grid is manufactured from galvanized steel.



Master Ds tile



Section of Master A system



Master A system

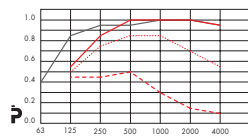
SYSTEM RANGE

Size, mm	600	1200	1200
	x	x	x
	600	600	1200
T24	•	•	•
Thickness	40	40	40
Inst. Diagr.	M56	M56	M56

TECHNICAL PROPERTIES

ACOUSTIC Sound Absorption Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for NRC and SAA according to ASTM C 423.

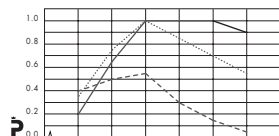
α_p Practical sound absorption coefficient



Frequency Hz

- Ecophon Master A/alpha 200 mm o.d.s.
 - Ecophon Master A/beta 200 mm o.d.s.
 - Ecophon Master A/gamma 200 mm o.d.s.
 - Ecophon Master A/alpha + Master Extra Bass 200 mm o.d.s.
- o.d.s = overall depth of system

α_p Practical sound absorption coefficient



Frequency Hz

- Ecophon Master A/alpha 50 mm o.d.s.
 - Ecophon Master A/beta 50 mm o.d.s.
 - Ecophon Master A/gamma 50 mm o.d.s.
- o.d.s = overall depth of system

Product	Master A / alpha		Master A / beta		Master A / gamma	
o.d.s mm	50	200	50	200	50	200
absorption class	A	A	C	C	E	E
NRC						
SAA						
α_w						

Sound Insulation $D_{n,w}$ =28 dB according to ISO 140-9 and evaluation according to EN ISO 717-1. CAC=30 dB according to ASTM E 1414 and evaluation according to ASTM E 413

Sound Privacy AC(1.5)=200 /alpha according to ASTM E 1111 and E 1110. /beta and /gamma are not suitable.



ACCESSIBILITY The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



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*m-2lx-1. 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 Certified by the Indoor Climate Labelling, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 6 according to ISO 14644-1.



ENVIRONMENTAL INFLUENCE Granted the Nordic Swan eco-label. Fully recyclable.



FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to prEN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003. See Technical properties, Fire safety.

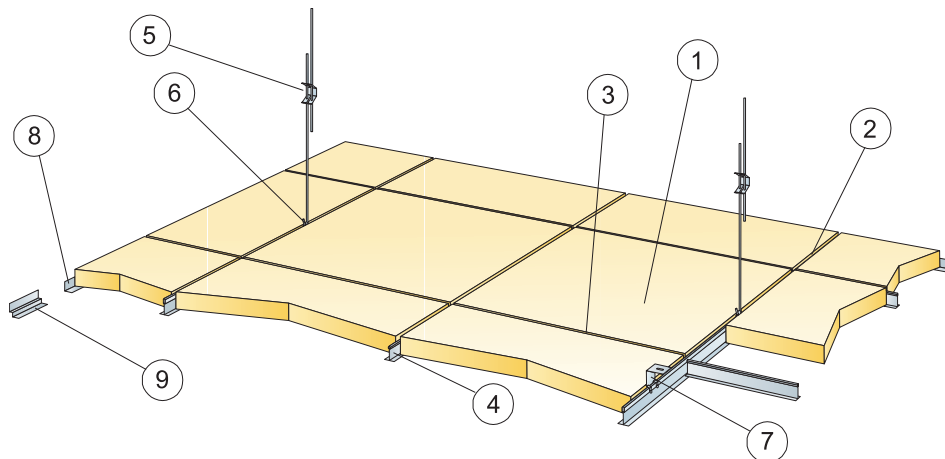
Reaction-to-fire classification		
Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0



MECHANICAL PROPERTIES For information regarding live load and requirements for load bearing capacity, see installation diagrams. Conditions: See Functional demands, Mechanical properties.



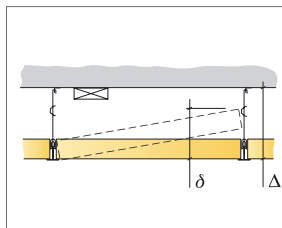
INSTALLATION Installed according to system range which includes information regarding minimum overall depth of system.



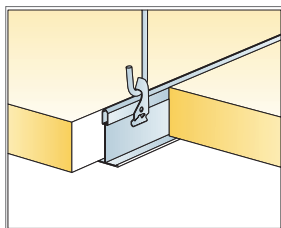
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

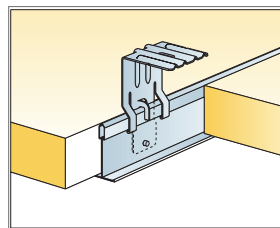
		Size, mm		
		600x600	1200x600	1200x1200
1	Master A	2,8/m ²	1,4/m ²	0,7/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	0,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-	-
5	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	0,7/m ²	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²	0,7/m ²
7	For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²	0,7/m ²
8	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as 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: 170 mm, 200 mm with 1200x1200 mm		-	-	-



See Quantity specification



Suspension with adjustable hanger and clip



Suspension with direct bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	40	160
1200x600	40	160
1200x1200	40	160

Live load/load bearing capacity