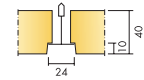




# ECOPHON MASTER™ E



Suitable for schools, open plan offices or other premises where strict demands are made on good acoustics and speech intelligibility. Ecophon Master E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. The visible surface of each tile is 10 mm below the grid. Each tile is easily demountable.

The system consists of Ecophon Master E tiles and Ecophon Connect grid systems, with an approximate weight of 5 kg/m<sup>2</sup>. 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 painted.

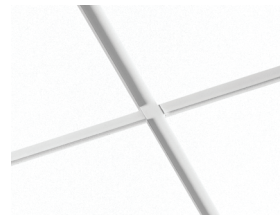
For best performance and system quality, use Ecophon Connect grid and accessories. The grid is manufactured from galvanized steel.



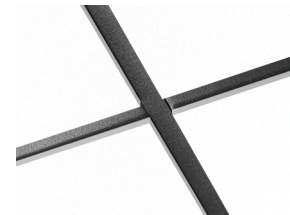
Master E tile



Section of Master E system



Master E system



Master E system with matt black Connect grid.

## SYSTEM RANGE

Size, mm	600	1200
	x	x
	600	1200
T24	•	•
Thickness	40	40
Inst. Diagr.	M58	M58

## 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.

Product	Master E/alpha		Master E/beta		Master E/gamma	
	60	200	60	200	60	200
absorption class	A	A	C	C	D	E
NRC						
SAA						
$\alpha_w$						

Sound Insulation  $D_{st,w}$  = 29 dB according to ISO 140-9 and evaluation according to EN ISO 717-1. CAC=31 dB according to ASTM E 1414 and evaluation according to ASTM E 413.

Sound Privacy AC(1.5) = 190 /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<sup>-2</sup>lx<sup>-1</sup>. 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.

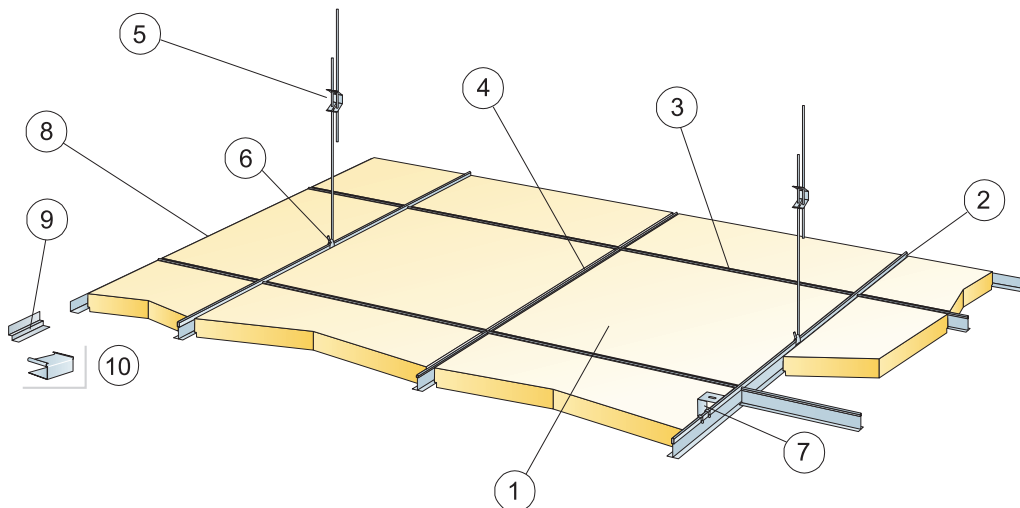
**FIRE SAFETY** The glass wool core of the tiles is tested and classified as non-combustible according to prEN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003. See Technical properties, Fire safety.

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.

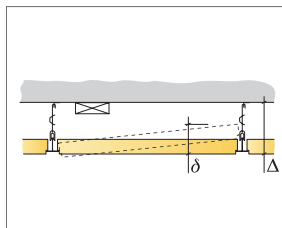
**INSTALLATION** Installed according to system range which includes information regarding minimum overall depth of system.



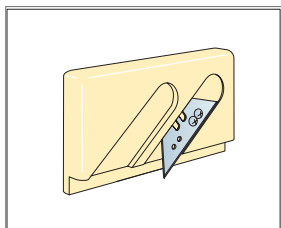
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

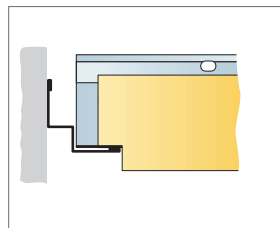
		Size, mm	
		600x600	1200x1200
1	Master E	2,8/m <sup>2</sup>	0,7/m <sup>2</sup>
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>
4	Connect T24 Cross tee, L=600 mm	0,9m/m <sup>2</sup>	
5	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6	Connect Hanger clip	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 300 mm centres	as required	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
10	Connect E-plug (for Shadow-line trim)	as required	as required
Δ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 60 mm		-	-
δ Min. demounting depth: 170 mm		-	-



See Quantity specification



Cutting tool E 0221



Tegular rebate with shadow-line trim.

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

Live load/load bearing capacity