

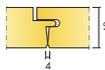
Ecophon Master™ F

Ecophon Master™ F is installed directly to an existing plaster ceiling, boarding, battens or concrete to create a ceiling with a smooth appearance. Suitable for schools, open plan offices or other premises where strict demands are made on good acoustics.

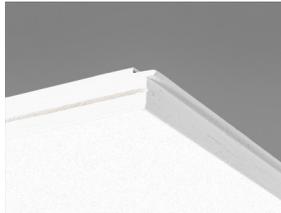


Walkenried Kindergarten, Walkenried, Germany

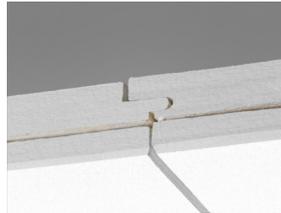
SYSTEM RANGE



Size, mm	600x600	1200x600
Direct	•	•
Thickness (THK)	40	40
Inst. Diag.	M52	M52



Master F tile



Section of Master F system with tongue and groove



Master F system



Master F is installed by screw fixing

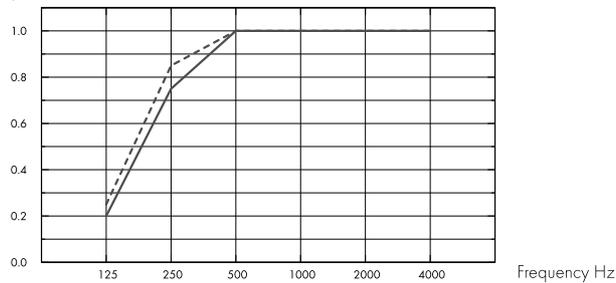


Acoustic

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.

α_p , Practical sound absorption coefficient



- Master F 40 mm, 40 mm o.d.s.
 - Master F 40 mm, 60 mm o.d.s.
- 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		
40	40	0.20	0.75	1.00	1.00	1.00	1.00	1.00	A
40	60	0.25	0.85	1.00	1.00	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
40	40	0.95	0.96
40	60	0.95	0.98



Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•



Environmental Footprint

	kg CO ₂ equiv/m ²
Master F	7,30

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



Circularity

Minimum post-consumer recycled content	63%
Recyclability	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 C, relative humidity 95% and 30°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 not demountable.



Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces. If very uneven surfaces - installation of furring (evenly spaced timber battens) as the substrate for the tiles is recommended.



System weight

The weight of the system should be approximately 5 kg/m².



Mechanical properties

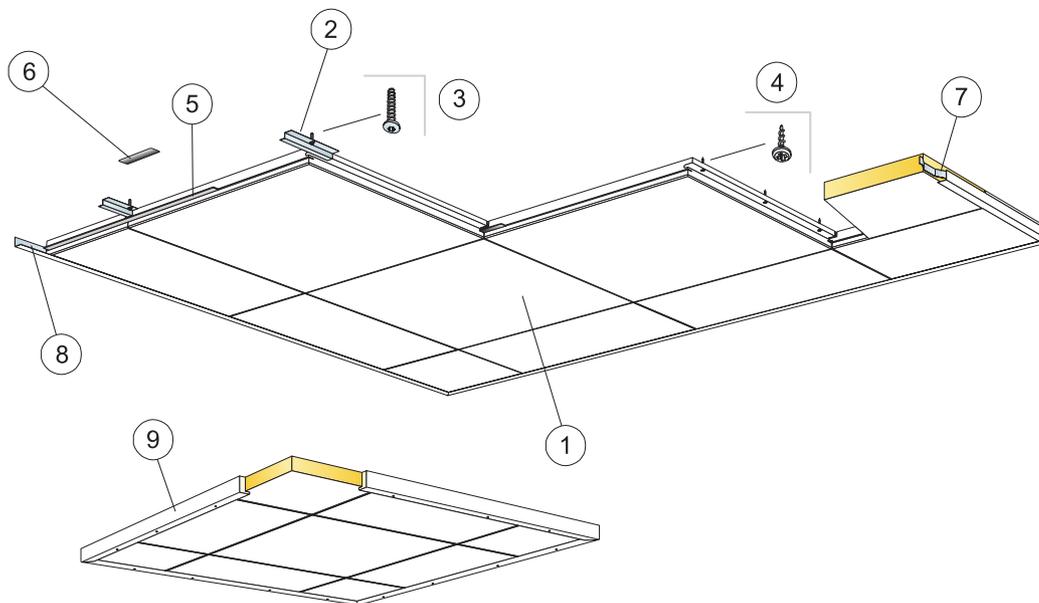
Additional live load has to be fixed to the soffit.



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.

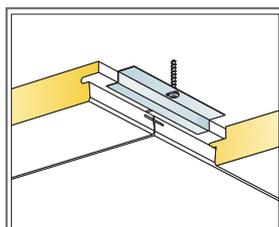
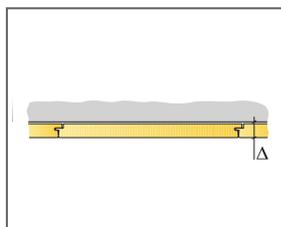
INSTALLATION DIAGRAM (M52) FOR ECOPHON MASTER F



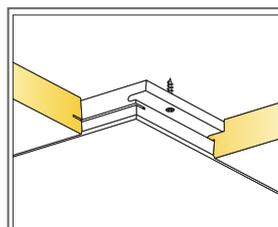
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Master F	2,8/m ²	1,4/m ²
2 Connect Direct fixing plate F 0152, installed at 600 mm centres (for use in concrete)	2,8/m ²	2,8/m ²
3 Connect Anchor screw, installed at 600 mm centres (for use in concrete)	2,8/m ²	2,8/m ²
4 Connect Installation screw MVL (for use in plasterboard or timber)	8,3/m ²	7/m ²
5 Connect Spline F, L=600 mm. Must be used in Sweden, Denmark, Norway and Finland at fireclass 'Tändskyddande beklädnad'	2,8/m ²	1,4/m ²
6 Connect Spline, L=150 mm	2,8/m ²	1,4/m ²
7 Connect Wall spring spacer	1/panel in the last row	2/panel in the last row
8 Connect Angle trim, fixed at 300 mm centres	as required	as required
9 When installing floating ceilings: Connect Wood trim, L=3000, fixed at 500 mm centres	as required	as required
Δ Min. overall depth of system: 40 mm	-	-
δ Min. demounting depth: The system is not demountable	-	-



Installation in concrete



Installation in plasterboard or timber

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x40	-	-
1200x600x40	-	-

Live load/load bearing capacity