ecophon
SAINT-GOBAIN

MAINTENANCE GUIDE

FOR ACOUSTIC CEILINGS, BAFFLES AND WALL ABSORBERS

SAINT-GOBAIN

PROJECT INFORMATION

Company	
Address	
Postal code	
City	
Homepage/url	
E-mail	
Contact person	
Phone	
Project name	
Description	
Remark	

ECOPHON ACOUSTIC CEILINGS AND WALL ABSORBERS

DEMOUNTING AND INSTALLATION

Clean cotton gloves must always be used when handling ceiling panels and wall absorbers. This applies to handling panels both during installation and maintenance, e.g. installation of light fittings and servicing of ventilation systems.

When demounting, the panels should be completely removed from the grid and stored on a level surface, laid face to face. This prevents soiling and damage to the panels during the work.

CLEANING

Prevention of soiling and regular cleaning is the basis for a long life, while retaining the appearance and properties of the ceiling.

PREVENTION OF SOILING

A great deal of soiling in the ceiling takes place through the ventilation system, and deposits of dirt commonly occur round air supply vents. Regular maintenance of the ventilation system is therefore an important consideration in minimising soiling.

Pressure differences between the room and the ceiling void should be avoided to ensure that the suspended ceiling does not act as a filter on which particles of dirt and dust can be deposited. The ventilation system should be regulated so that the ceiling void is not under negative pressure relative to the room, so creating an equilibrium. An alternative way of avoiding pressure differences is to fit open grilles, perforated shadow-line trims and open light fittings.

CLEANING METHODS AND INSTRUCTIONS

When wet cleaning, it is important to know if the system is suitable. If there is any doubt, please contact Ecophon. Alternatively, a test can be carried out on an individual panel or test piece.

Note that after washing, the surface may seem rather darker until it has dried out.

GENERAL RECOMMENDATIONS

REQUIREMENTS

To ensure the durability of Ecophon ceiling tiles, a couple of general recommendations should always be followed:

- Perform regular maintenance of the ventilation system
- Avoid pressure differences between the plenum and the room
- Wear clean cotton gloves when handling the tiles

The common cleaning methods for ceiling tiles require the use of a soft microfibre cloth (made of minimum 70% polyester):

DRY CLEANING

Wipe directly with the soft microfibre cloth in gentle, circular movements or with vacuum cleaner set at reduced suction with a soft brush or alternatively with the soft microfibre cloth wrapped around the standard head. Gently vacuum the surface, with very soft contact between the cleaner head and the panels in linear movements.

WET WIPING

Saturate the microfibre cloth with water or with a mild detergent solution adapted to indoor painted surfaces. Wipe in circular movements and with moderate pressure.

NOTE: the use of clips on the back of the panels facilitates cleaning.

Always refer to a product's technical datasheet to ensure its compatibility with the described cleaning methods. For more information about advanced cleaning methods, please check the Advanced cleanability page.

CLEANING OF PRODUCTS IN DEMANDING ENVIRONMENTS

In demanding environments, ceilings panels need to be compatible with advanced cleaning, disinfecting and scrubbing methods. Some specific Ecophon products have been designed and tested for more challenging protocols:

- **Wet cleaning at high pressure**
  Using a high pressure water equipment, ceiling systems with tiles secured with clips can be washed with pressure set between 20 and 40 bar, keeping a distance of at least 0.5 m between the hose and the panel. For an even higher pressure but not exceeding 100 bar, it is recommended to demount the tiles from the grid system, lay them against a rigid surface and keep a distance of at least 1 m between the hose and the panel. In all cases, it is recommended to keep an angle of incidence of 30° and a water temperature of 20°C. Clean the surface in linear movements.
- **Steam cleaning**
  Apply steam to the surface of the panels through a nozzle together with a soft microfibre cloth (made of minimum 70% polyester), in gentle circular movements.
- **Disinfection with Hydrogen Peroxide Vapour**
  According to the test method specified by Bioquell

Note: The use of clips on the back of the panels facilitates cleaning.

INFORMATION ABOUT DISINFECTION

Some specific Ecophon products have been designed to withstand the use of common detergents and disinfecting agents.

The products have been exposed to the detergent or disinfection agents repeatedly and evaluated according to ISO 11998:2006 ("Determination of wet-scrub resistance and cleanability of coatings"), with the use of a soft microfibre cloth made of minimum 70% polyester.

The respective list of tested chemicals can be found on the product page of the relevant products.

Note: Always refer to a product's technical datasheet to ensure its compatibility with the described cleaning methods.

Always ensure that the corrosion class of the ceiling grids is compatible with the desired cleaning protocol and cleaning products.

LOADING OF PANELS

The basic rule is that panels should not be loaded. Light fittings, ventilation outlets etc. located in the suspended ceiling must transfer their load to the grid or be attached directly to the structure above. Ecophon panels can, however, bear small loads e.g. halogen spotlights.

FORMAT (MM)	THICKNESS (MM)	MAX HOLE SIZE (Ø MM)	MAX LOAD (GRAMS)
600x600, 1200x600	15	100	300
600x600, 1200x600	≥20	100	500
1200x1200, XL-formats	15-20	–	–

LOADING OF CONNECT GRID

The table below each installation diagram shows the maximum service load, i.e. additional loads such as light fittings, signs, etc. placed on the grid at a minimum spacing of at least 1 meter.

For additional information regarding integration of loads see Connect Bridging at www.ecophon.com

PAINTING

Ceiling panels cannot be painted without changing their fire and acoustic properties. They should therefore not be repainted without analysing the consequences.

SCRAPPING AND RECYCLING

Ecophon ceiling tiles can easily be dismantled and re-used. Both tiles and grids are recyclable. Grids and accessories are sorted as scrap metal, and tiles are non-hazardous.

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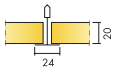
MINERALIS A

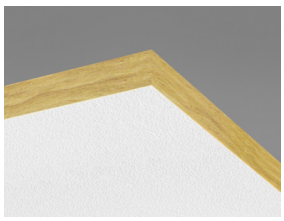
Ecophon Mineralis™ A possui um sistema de perfil visível cada placa pode ser removida para fácil instalação e acesso para manutenção. A sua superfície lisa, suportar limpeza diária com pano úmido. Combinado com um simples design, propriedades acústicas e resistência mecânica, esse produto se torna a escolha adequada para diversos tipos de espaços.

Mineralis A

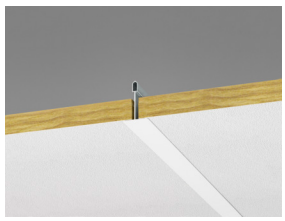
VARIEDADE DE SISTEMAS



Dimensão, mm	1250x625	1250x625
T24	•	•
Espessura	15	20
Inst. Diagr.	M568	M568



Placa Cadence A



Corte do Sistema Cadence A com Connect T24

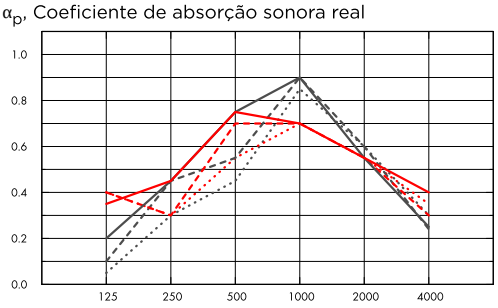
Sistema Cadence A com Connect T24

ACÚSTICA

Absorção Sonora

Resultado de testes de acordo com a EN ISO 354. Classificação de acordo com a EN ISO 11654.

α_p, Coeficiente de absorção sonora real



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o.d.s = overall depth of system (profundidade do sistema)

THK mm	o.d.s mm (profundidade do sistema mm)	α_p, Coeficiente de absorção sonora real						α_w	Classe de absorção sonora
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
15	15	0.05	0.30	0.45	0.85	0.60	0.30	0.50	D
15	400	0.40	0.30	0.55	0.70	0.55	0.35	0.55	D
20	20	0.10	0.45	0.55	0.90	0.60	0.24	0.45	D
20	400	0.40	0.30	0.70	0.70	0.55	0.30	0.50	D
25	25	0.20	0.45	0.75	0.90	0.55	0.25	0.45	D
25	400	0.35	0.45	0.75	0.70	0.55	0.40	0.50	D

SEGURANÇA CONTRA INCÊNDIOS

País		Classe
Brazil	NBR 9442:1986	II - A

ASPECTO VISUAL

Branco, 80% reflexão de luz.

LIMPEZA

Limpeza diária com aspirador e pano úmido.

ACESSIBILIDADE

As placas são facilmente removíveis. A profundidade mínima de desmontagem está de acordo com os diagramas de instalação.

INSTALAÇÃO

Instalado de acordo com diagramas e guias de instalação.

PESO DO SISTEMA

O peso do sistema (incluindo o sistema de perfis) deve ser aproximadamente 1,9-2,5 kg/m^2.

Forro suspenso

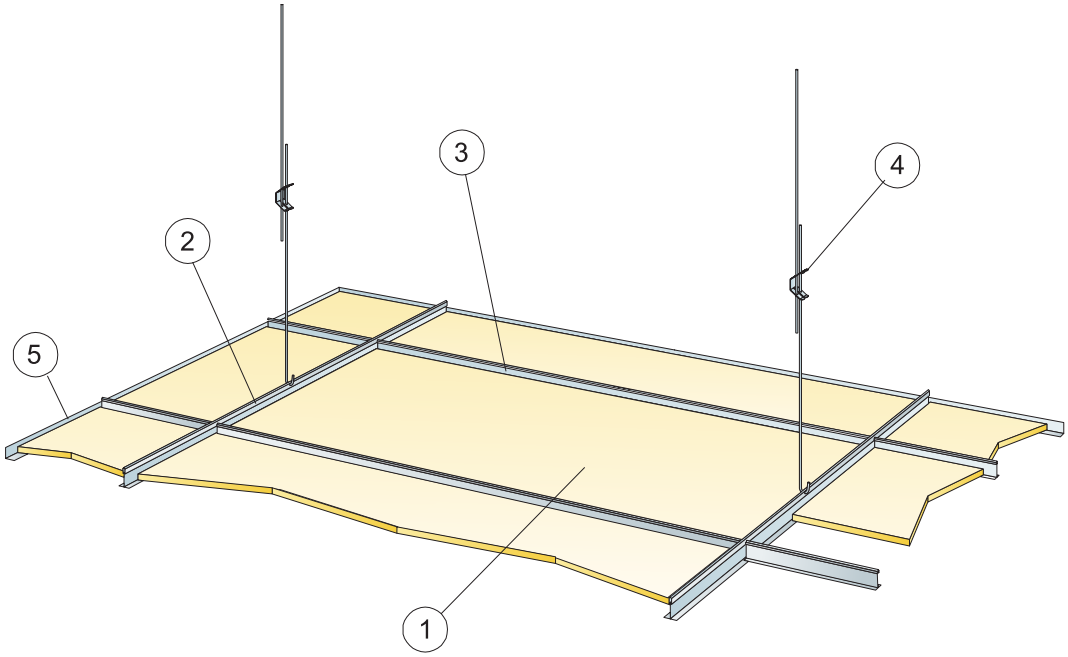
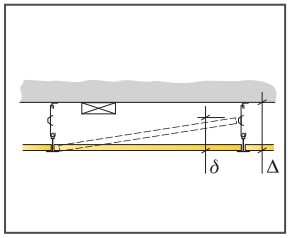


Diagrama de instalação (M568) para Ecophon Mineralis A

Quantidade especificação (excluir perdas)

		Dimensão, mm
		1250x625
1	Mineralis A	1,3/m²
2	Perfil Principal T24 Connect, instalado centralizado em 1250 mm	0,8m/m²
3	Travessa T24 Connect, C=1250 mm, instalada centralizada em 625 mm	1,6m/m²
4	Regulador Connect, instalado centralizado a 1250 mm (distância máx. da parede 600 mm)	0,7/m²
5	Cantoneira Connect Angle, fixada centralizada a 300 mm	como requisitado
	Δ Profundidade mín. total do sistema: 100 mm	-
	δ Profundidade min. de remoção: 120 mm	-



Veja quantidade especificação

Dimensão, mm	Carga viva máxima (N)	Capacidade de carga mínima (N)
1250x625x15	50	160
1250x625x20	50	160

Carga viva/capacidade de carga