

Hi-Clinic

Description

Hi-Clinic is an acoustic ceiling panel manufactured from medium density, moisture resistant mineral wool with a washable, anti-bacterial, pre-painted, decorative surface and edge finish. The reverse side of the panel has a non-woven, glass fibre tissue face which is treated to prevent the formation of fungus and bacteria.



Panels are designed for use in a corrosion resistant suspended ceiling grid system fixed with stainless steel clips in areas where hygiene is of paramount importance or where panels require regular cleaning. As an extremely effective and economic alternative to installing a full suspended ceiling system, **Hi-Clinic** can also be fixed directly to both horizontal and vertical surfaces, subject to the receiving substrate being in suitably good condition.

Hi-Clinic's thermal insulation properties can make a significant contribution to the thermal resistance of a building when used as part of the overall roof construction.

Colour - White

Light Reflectance - Approx 84%

Application

Hi-Clinic ceiling panels are suitable for use in any area with a requirement for a washable surface. They are used extensively in the food and catering industries, hospitals, medical centres, research facilities, educational building, changing rooms and swimming pools.

Technical Advice

Highly qualified building and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

Moisture Resistance

Hi-Clinic ceiling panels are suitable for use in areas with 95% relative humidity at 25°C and can withstand 100% humidity at 40°C for short periods.

Impact Resistance

Hi-Clinic will withstand light to moderate impact when installed directly to a substrate and may withstand light impact when installed in a suspended ceiling grid system fixed with suitable retaining clips.

Operating Temperature

Hi-Clinic ceiling panels are suitable for use at normal building temperatures.

Fire Performance

Hi-Clinic achieves Euroclass Reaction to Fire Class A2-s1, do when tested in accordance with BS EN 13501-1.

Building Regulation Classification

Hi-Clinic	Absorber Classification (When tested to BS EN ISO 11654-1997)	
	18mm thick	40mm thick
Fixed directly to substrate	C	A
50mm void behind panels	C	A
200mm void behind panels	A	A
400mm void behind panels	B	A

Acoustic Performance

Hi-Clinic Thickness mm	Depth of Void Behind Panels mm	Sound Absorption Coefficient (Tested to BS EN ISO 354)						α_w
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
18	Fixed directly to substrate	0.10	0.45	1.00	1.00	0.95	0.85	0.75
	With 50mm void behind	0.10	0.45	1.00	1.00	0.95	0.85	0.75
	With 200mm void behind	0.30	0.75	1.00	0.85	0.95	0.90	0.95
	With 400mm void behind	0.30	0.75	0.70	0.90	0.95	0.85	0.80
40	Fixed directly to substrate	0.20	0.70	1.00	1.00	0.95	0.85	0.95
	With 50mm void behind	0.20	0.70	1.00	1.00	0.95	0.85	0.95
	With 200mm void behind	0.35	0.80	0.95	1.00	0.95	0.80	0.95
	With 400mm void behind	0.30	0.85	0.85	1.00	0.95	0.80	0.90

Dimensions and Weight

Thickness mm	Length mm	Width mm	No of Panels per Carton	m ² per Carton	Nominal Weight kg/m ²	
					Panel	Panel & Grid
18	600	600	32	11.52	1.4	3
	1200	600	16	11.52	1.4	3
40	600	600	12	4.32	2.8	4
	1200	600	6	4.32	2.8	4

Availability

Hi-Clinic panels are generally available to order.

Handling and Storage

Hi-Clinic panels are packed in cardboard cartons and should be stored inside in a dry, well-ventilated area protected from dirt and dust. Cartons should be stored flat, off the ground and no more than six high. DO NOT stack on end. Extreme care should be taken when handling to avoid damage.

Application and Fixing

Hi-Clinic panels are designed for use in a standard, non-corrosive T24 exposed ceiling grid system. Panels should be fixed with stainless steel clips at 300mm centres to hold them firm whilst cleaning. If panels are cut to fit around protrusions, the raw edges should be re-sealed with an appropriate anti-bacterial paint. Further details available on request.

Hi-Clinic panels are NOT designed to carry the weight of recessed light fittings and therefore lighting should be supported by other means.

The minimum distance Hi-Clinic panels can be effectively installed below an existing substrate in an exposed ceiling grid system is as detailed below:

Panel Thickness mm	Without Access Facility mm		With Access Facility mm	
	Without Clips	With Clips	Without Clips	With Clips
18	52	140	80	140
40	52	140	140	140

Alternatively, Hi-Clinic panels can be fixed directly to horizontal and vertical surfaces, providing the receiving substrate is of a suitable condition. Further details available on request.

Care and Maintenance

Hi-Clinic panels can be cleaned daily by gently wiping the surface using a damp cloth with mild detergent.

They can be cleaned up to three times a year with a low pressure jet washer, operating at a maximum 50-60 psi and 40°C. The spray head should be angled at 45° at a minimum distance of 300mm below the surface of the panels.

For Further Information

contact

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