

Gym Panel

SOUND ABSORBERS

n55Plus

Datasheet 36



The Products

A high impact resistant acoustic ceiling and wall panel that is both robust and a good sound absorber of reverberant noise because of its high density mineral wool core. Normally fixed at high level to underside of roof or direct to walls and offering significant thermal resistance.

Sizes, Colours and Finishes

Various sizes and thicknesses available to a maximum 3.0m x 1.2m, all to BS Absorber Classification A. Standard panels are white, green or grey decorative glass cloth fabric to the front face and non-woven glass tissue to the reverse. Other colours available subject to discussion.

Thermal conductivity: 0.036 W/mk @ 10°C. Achieves Euroclass Reaction to Fire Class A2-S1 when tested to BS EN 13501-1.

Typical Applications

Sports Halls, Gyms, Changing Rooms, Leisure Halls, Playrooms, School and Village Halls.

JCW 03/2015

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JCWA
ACOUSTIC SUPPLIES

Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

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The Product

The impact resistant Gym Panel is an acoustic ceiling and wall panel manufactured from moisture resistant, high density mineral wool. The front face features a decorative glass cloth fabric and a non-woven glass tissue is used on the reverse side. The Gym Panel will not sustain bacteria, mould or fungus and sealed square edges prevent dust migration. The rugged front surface will withstand intermittent impact from sports balls. Gym panel is normally fixed directly to the underside of a roof or wall at high level and is an effective absorber of high levels of reverberant noise.

Colours and Finishes

Light Reflectance - White - Approx 80%

Also available in coloured fabric face.

Technical Advice

Our qualified and experienced consultants can provide architects, consultants and contractors with expert advice on all aspects of noise control. They can also undertake noise surveys and provide details of anticipated reverberation time improvements to help ensure that the optimum design specifications and acoustic performance are achieved.

Operating Temperature

Gym Panel can be used at normal building temperatures.

Fire performance

Gym Panel achieves Euroclass Reaction to Fire Class A2-S1 when tested in accordance with BS EN 13501-1.

Thermal Conductivity - 0.036 Wm/K @ 10°C

Moisture Resistance

Gym Panel can be used in areas with 90% relative humidity at 25°C. It can also withstand 95% relative humidity at 40°C for short periods.

Impact Resistance

Gym Panel achieves Class 1A impact resistance when tested in accordance with BS EN 13964:2004, suspended ceilings - Requirements and Test Methods, Annex D.

The panel surface will withstand a ball impact speed of 16m/s when fixed directly to the underside of a roof or installed in a suspended ceiling grid system. With the latter the panels should be securely retained.

Note: The JCW Gym Panel has the capability to withstand occasional impact, however we cannot guarantee the visual appearance of the system when continuously impacted by other objects.

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Acoustic Performance

Thickness mm	Depth of void behind panels mm	Sound Absorption Coefficient (tested to BS EN ISO 354)						α_w
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	
25	Fixed directly to substrate	0.20	0.80	1.00	0.90	0.90	0.85	0.90
	With 50mm void behind	0.20	0.80	1.00	0.90	0.90	0.85	0.90
	With 100mm void behind	0.35	0.90	0.95	0.85	0.90	0.85	0.90
	With 200mm void behind	0.35	0.75	0.90	0.85	0.90	0.85	0.90
40	Fixed directly to substrate	0.50	0.80	1.00	0.90	0.90	0.85	0.90
	With 50mm void behind	0.20	0.80	1.00	0.90	0.90	0.85	0.90
	With 100mm void behind	0.35	0.90	0.95	0.85	0.90	0.85	0.90
	With 200mm void behind	0.35	0.75	0.90	0.85	0.90	0.85	0.90

Dimensions and Weight

Thickness mm	Length mm	Width mm	No. of panels per carton	m ² per carton	Weight kg/m ²	
					Panel	Panel & Grid
25	600	600	20	7.20	2.5	4
	1200	600	10	7.20	2.5	4
	1200	1200	5	7.20	2.5	4
40	600	600	12	4.32	3.2	5
	1200	600	6	4.32	3.2	5
	1200	1200	4	5.76	3.2	5

Fixing

Gym Panels can be fixed to ceilings or walls using our standard U-Channel or T-Bar Systems.

Please ask for a detailed Installation Guide.

Gym Panel will NOT carry the weight of recessed light fittings. Lighting must therefore be supported by other means. The minimum distance below an existing substrate that Gym Panel can be effectively installed is shown below:

Thickness mm	Without Access Facility mm	With Access Facility mm
25	52	80
40	52	100

Care and Maintenance

The surface of Gym Panel can be vacuumed with a soft brush attachment or gently wiped using a damp cloth with a mild detergent.

Building Regulation Classification

Gym Panel	Absorber Classification (When tested to BS EN ISO 11654-1997)	
	25mm thick	40mm thick
Fixed directly to substrate	A	A
50mm void behind panels	A	A
100mm void behind panels	A	A
200mm void behind panels	A	A

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