

Rigitone 10/23

Product Data Sheet

Introduction

Rigitone 10/23 is a perforated gypsum acoustic board used in conjunction with **CasoLine MF**, **CasoLine CURVE** or **Gyplyner UNIVERSAL** systems. It creates a totally monolithic surface in acoustic ceilings, islands or vertical wall absorbers where aesthetic design and reverberation control are desired.

Product description

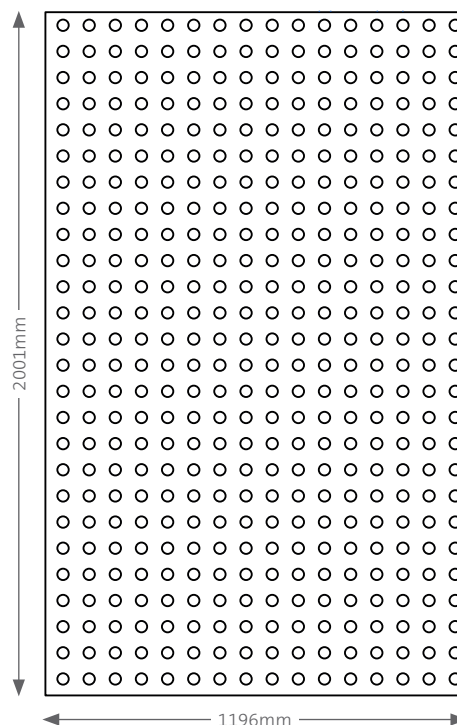
Rigitone 10/23 comprises a 12.5mm gypsum core, with a regular geometric pattern of 10mm circular perforations at 23mm centres. The reverse of the board incorporates an acoustic fleece which provides sound absorption performance.

Board performance

Rigitone boards provide sound absorption when used in conjunction with an air space behind the ceiling or wall. Tests have been carried out to *BS EN 20354: 1993* and *ISO 354: 1985* with either a 50mm or 200mm plenum depth.

Increased levels of sound absorption can be achieved by including 75mm Isover TS48 slab glass mineral wool over the back of the ceiling. The single figure rating practical sound absorption coefficients α_w , and sound absorption classes, are calculated in accordance with *BS EN ISO 11654: 1997*. The Noise Reduction Coefficient (NRC) is calculated in accordance with *ASTM C423-90a: 1992*.

Rigitone boards can be used in conjunction with the **CasoLine CURVE** system to form a curved finish with a minimum radius of 5000mm.



Physical properties

Board size	2001mm x 1196mm
Board thickness	12.5mm
Perforation size	10mm circles
Perforation spacing	23mm centres
Perforated area	14.8%
Edge type	Square edge
Acoustic class	Class C
α_w (up to)	0.65
NRC (up to)	0.85
Reaction to fire	A2-s1,d0
Weight (approx)	10 kg/m ²
Moisture resistance	up to 70% RH

Product performance

Rigitone 10/23 Plenum (mm)	Insulation (mm)	Practical absorption coefficient α_p						α_w	Class	NRC
		125	250	500	1000	2000	4000			
50		0.10	0.25	0.65	0.90	0.55	0.25	0.45	D	0.60
200		0.35	0.70	0.85	0.60	0.50	0.35	0.50	D	0.70
200	50	0.65	0.95	0.90	0.80	0.65	0.45	0.65	C	0.85

Application and installation

Handling and storage

Rigitone boards should be stored flat on a level surface and protected from dampness. To avoid damage to the special acoustic tissue bonded to the back face, Rigitone boards should not be pulled over the edges of the stack of boards below.

Installation

Rigitone boards are installed in the CasoLine MF grid system. Where plenum depths are restricted, use the Gyplyner UNIVERSAL system. For full details of installation, refer to the British Gypsum Ceilings Installation Guide.

Installation of Rigitone requires a range of accessories and tools. It is important to ensure these are requested at time of order to allow trouble-free installation.

Jointing and finishing

Rigitone boards are fixed and jointed using a dedicated jointing system, supplied separately. Ensure that all required jointing equipment, accessories and tools are available prior to commencing installation of the board.

Rigitone boards have an untreated surface which should be primed using Gyproc Drywall Primer, then matt emulsion painted with a paint roller. Do not use a spray system as this will affect the acoustic properties of the board.

Fixtures

Fixings to the system should always be made into the metal grid or to supplementary framing. Adjustment of the primary grid may be required to support particularly heavy loads. Refer to the British Gypsum White Book for full design information regarding the relevant system.

Environment

Rigitone boards are unsuitable for use in areas subject to continuously damp or humid conditions above 70% RH, or in elevated temperatures consistently above 49°C. They can be exposed to freezing temperatures without risk of damage.

Recyclability

The gypsum core of Rigitone boards is 100% recyclable. CasoLine MF, CasoLine CURVE and Gyplyner UNIVERSAL are also 100% recyclable.

Product standards

All British Gypsum ceiling products are manufactured under management systems which have been independently audited and certified as conforming with *ISO 9001: 2001*. All Rigitone products conform to *EN 14190: 2005* Gypsum plasterboard from reprocessing - requirements and test methods.

Maintenance

Rigitone boards can be redecorated using a roller and suitable matt emulsion paint. The paint should not be applied with a spray diffuser as this will impair the acoustic performance.

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British Gypsum reserves the right to revise product specification without notice. The information herein should not be read in isolation as it is meant only as guidance for the user, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of work. For a comprehensive and up-to-date library of information visit the British Gypsum website at: www.british-gypsum.com. For information about products supplied by Artex Limited or Saint-Gobain Isover please see their respective websites.

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