



## PRODUCT DATA SHEET

# RIGITONE 12-20/66

### Introduction

Rigitone 12-20/66 is a perforated gypsum acoustic board used in conjunction with **CasoLine MF**, **CasoLine CURVE** or **GypLyner** 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 12-20/66 comprises a 12.5mm gypsum core, with a regular geometric pattern of 12mm and 20mm circular perforations at 66mm 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.

The single figure rating practical sound absorption coefficients  $\alpha_w$  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*.

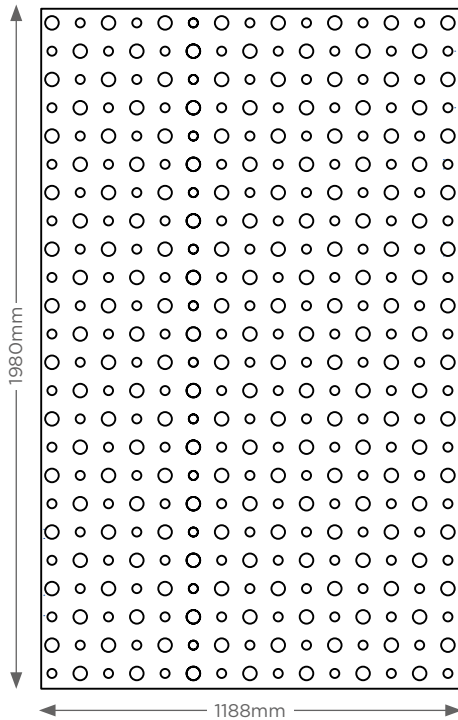
Rigitone boards can be used in conjunction with the **CasoLine CURVE** system to form a curved finish with a minimum radius of 5000mm.

### PHYSICAL PROPERTIES

<b>Board size</b>	1980x1188mm
<b>Board thickness</b>	12.5mm
<b>Perforation size</b>	12mm and 20mm circles
<b>Perforation spacing</b>	66mm centres
<b>Perforated area</b>	20%
<b>Edge type</b>	Square edge
<b>Acoustic class</b>	Class C
<b><math>\alpha_w</math> (up to)</b>	0.70
<b>NRC (up to)</b>	0.90
<b>Reaction to fire</b>	A2-s1,d0
<b>Weight (approx)</b>	9.5 kg/m <sup>2</sup>
<b>Moisture resistance</b>	up to 70% RH
<b>Tissue colour</b>	Black (White tissue available on request)

## Board Performance continued

RIGITONE 8/18Q		PRACTICAL ABSORPTION COEFFICIENT $\alpha_p$						$\alpha_w$	CLASS	NRC
PLENUM MM	INSULATION MM	125	250	500	1000	2000	4000			
50	-	0.10	0.25	0.60	0.85	0.55	0.30	0.45	D	0.55
200	-	0.40	0.70	0.85	0.60	0.50	0.35	0.50	D	0.65
200	50	0.55	0.95	1.00	0.85	0.70	0.55	0.70	C	0.90



Class C acoustic class achieved with a plenum depth of 200mm and 50mm Isover Acoustic Insulation laid over the back of the ceiling.

## 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** system. For full details of installation, refer to the **Gyproc White Book**.

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 acoustic ceiling boards have a pre-sanded and pre-primed edge and do not require any pre-treatment to the board edges prior to installation.

Matt emulsion paint should be applied 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 **Gyproc 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** are also 100% recyclable.

## Product standards

All Gyproc 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: 2015* Gypsum plasterboard from reprocessing - definitions, 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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