

**NOW
SHOWING**



Product Enquiries

For further information on this system or other acoustic systems contact your local Technical Sales Manager on **1800 810 018**

Internet

<http://www.plastamasta.com.au>

Manufacturing Facilities

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Registered Office

Lafarge Plasterboard Pty Ltd
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Lafarge Plasterboard is part of the Gypsum Division of the Lafarge Group - the largest building materials company in the world.

For more information on Lafarge visit www.lafarge.com



High
PERFORMANCE
THE WALL PARTITION SYSTEM

*"The Cost
Effective High
Performance
System."*

Starring • High performance fire protection
• Enhanced acoustic performance

Directed by Architects, Property Developers, Builders and
Specifiers of cinema and entertainment areas

Produced by Lafarge Plasterboard



When fire & noise
are an issue, trust...



High PERFORMANCE

THE WALL PARTITION SYSTEM



System Features

This internationally renowned high performance partition system has many key features, which have already been discovered by the developers of several high profile and demanding projects throughout Europe.

It's cost effective

By maintaining projects below budget and at the same time achieving the required fire and acoustic performance, both the developer and builder benefit. The potential savings allow for the inclusion of those special design features specified in foyer or reception areas.

It's innovative

Improvements in sound reduction and acoustic properties are achieved through acoustic braces acting as mechanical strengtheners without creating an acoustic bridge.

It's light

The use of low gauge steel results in a lighter structure but maintains the mechanical properties. As there is no need for steel frame installation trade specialists further cost-savings are possible.

It's high in performance

Meeting the acoustic requirements in entertainment venues where the Sound Transmission Loss in the low frequency range of 63 to 500Hz is required between auditoria, as tested in the National Acoustic Laboratory.

Performance & Installation Specifications

Lafarge MastaBoard Fireshield has a specially formulated fire resistant core that meets the requirements for FRL of up to -/180/180 where required by the Building Code of Australia. It also has a tested acoustic rating of 68 STC when installed in accordance with Lafarge Plasterboard's recommendations. This system, tested at the National Acoustic Laboratory has STC 68 (ATF 1071) and a BRANZ fire test of FRL -/180/180 (FR 2816).

Design Requirements

- Lafarge MastaBoard Fireshield must be installed in accordance with the recommendations in this technical bulletin to achieve the stated (FRL) and (STC)
- Lafarge Plasterboard recommends that the advice of an Acoustic Consultant be sought at the design stage of theatre and entertainment facilities
- Total wall thickness is greater than 400mm
- Careful attention must be applied to possible flanking paths if the system is to perform satisfactorily
- Stud configuration, nogging and brace spacing will vary depending on the wall height (see table below)

STUD CONFIGURATION

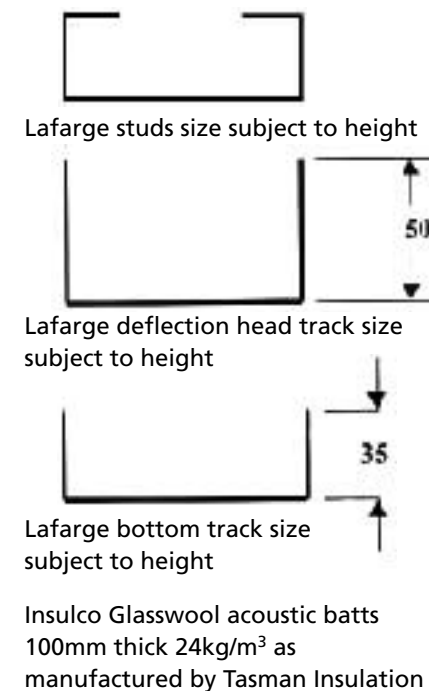
Partition System	Stud sizes and thickness (mm)	Spacing of Acoustic Brace (mm)	Maximum Partition Height (mm)	Maximum Nogging Centres (mm)
A	2/92x35x0.75 lipped stud	1500	8200	1500
		2000	7890	1600
H	2/150x50x1.9 plain C stud	1500	12130	2700
		2000	11370	2700

Warranty

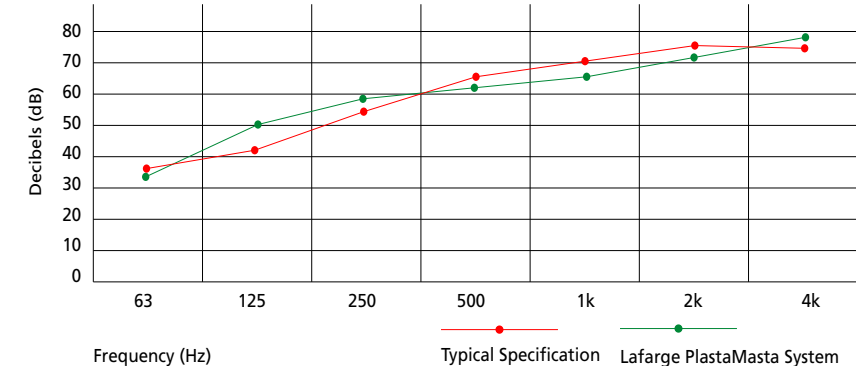
Lafarge PlastaMasta's High Performance Partition System has been designed using extensive research and development undertaken by the Lafarge Gypsum Division. It has been tested in both Australia and New Zealand and complies with all relevant standards. In order to achieve this enhanced performance, installation must be carried out in strict accordance to Lafarge Plasterboard's specification. It is necessary to contact Lafarge Plasterboard's Technical Services Department when designing and installing the Lafarge PlastaMasta High Performance Partition System.

System Description

16mm Lafarge MastaBoard Fireshield
Lafarge Acoustic Brace



Acoustic Performance (STC 68)



High Performance Drawing

The drawing below shows a high performance partition system – assembled as a double stud wall with acoustic bracing using 3 layers of 16mm Lafarge MastaBoard Fireshield on both sides and 100mm Insulco insulation (24kg/m³) lining each side.

