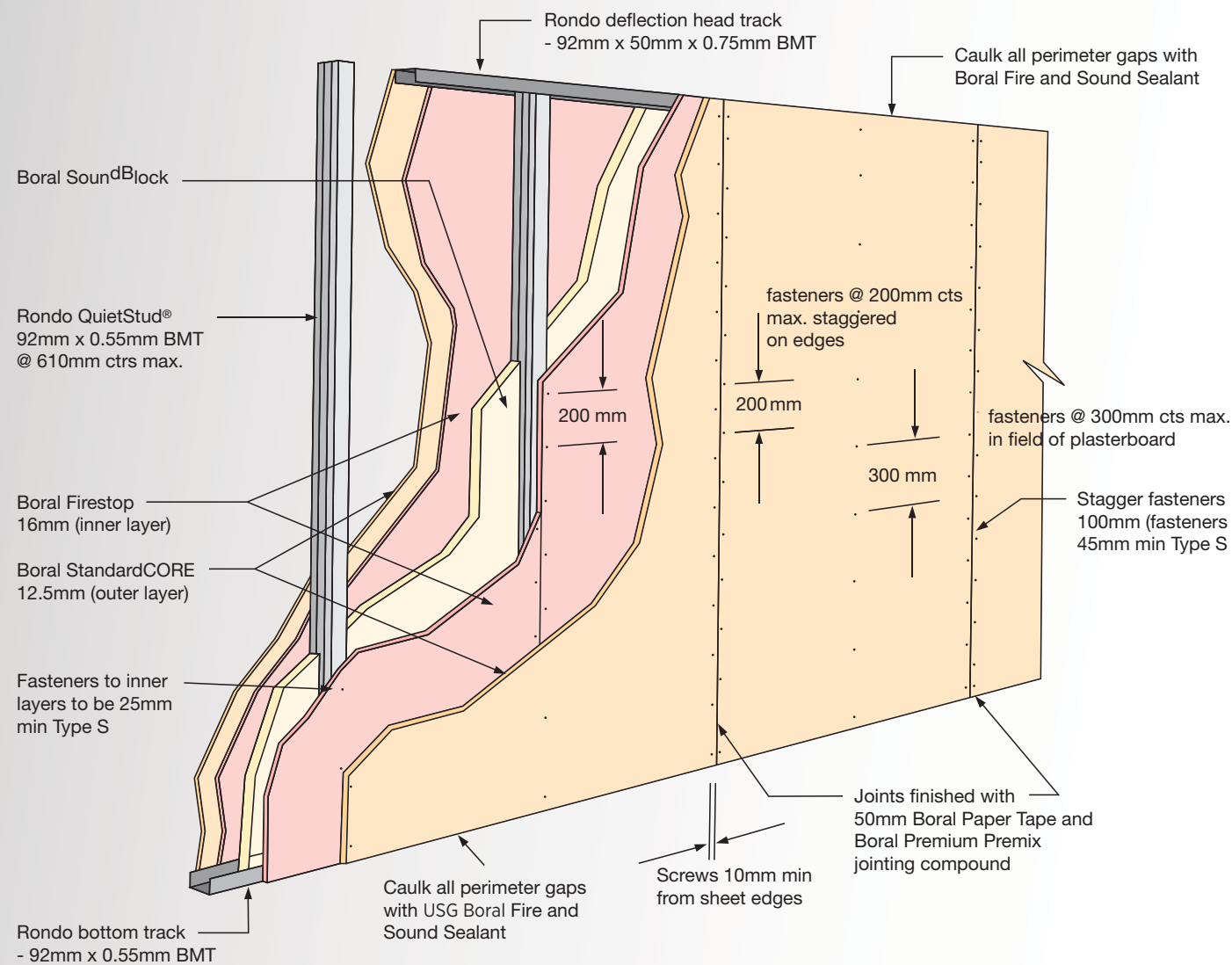


“Reduce stress and increase indoor privacy and comfort with BORAL QuietWall®”



Test Standard

ASTM E90 – 04 “Standard test method for laboratory, measurement of airborne sound transmission loss of building partitions and elements”

Guarantee:

USG Boral warrants all goods manufactured and supplied when handled correctly and installed using the components and accessories specified in accordance with the instructions detailed in USG Boral Technical Literature. Kindly refer to USG Boral Warranty certificate for limits of warranty.

BORAL QuietWall Acoustic System



QuietWall Acoustic System

Redefining Performance of Quiet Indoor Ambience

Prolonged exposure to noisy environments can create anxiety and stress for building occupants, especially those in offices, hospitals, classrooms, and hotel dwellers. Thus, we recommend a minimum STC of 50 to achieve an environment which generates better productivity and comfort for the occupants.

In response to the increasing demand for quiet and peaceful indoor environments, USG BORAL has designed a cost-effective and unique partition system i.e.: QuietWall® acoustic system. This system consists of Rondo QuietStud® (patent-pending), BORAL SoundBlock insulation batt and a combination of USG BORAL standard and fire rated plasterboard to form an effective buffer against unwanted noise.



www.usgboral.com

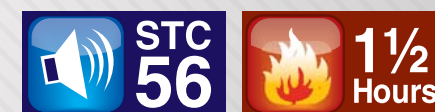
USG Boral Singapore

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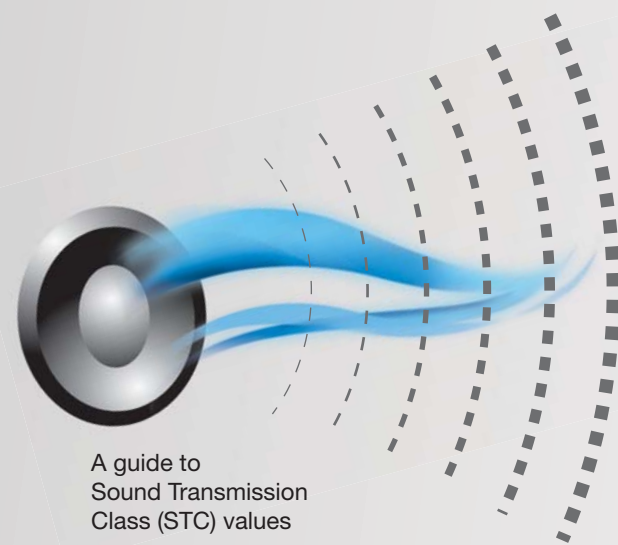
Boral Plasterboard (Malaysia) Sdn Bhd doing business as USG Boral Singapore



Supporting USG Boral Systems



How quiet can BORAL QuietWall® be?



STC

25	Normal speech can be heard easily
30	Loud speech can be heard easily
35	Loud speech can be heard, but not understand
42	Loud speech can be heard only as a murmur
45	Must strain to hear loud speech
48	Only some loud speech can be barely heard
50	Loud speech cannot be heard

With BORAL QuietWall®, builders and developers is able to achieve a breakthrough score of STC 56 that nullifies complaints.

The secret of BORAL QuietWall®

The secret to optimum acoustic performance using standard drywall installation methods lies in its uniquely designed acoustic QuietStud®. The unique kink-web acoustic stud effectively breaks the acoustic bridge between the plasterboard facings reducing transmission of both impact and airborne sound.

Superior performance in a smaller footprint

The improved acoustical performance offered by BORAL QuietWall® saves cost by using fewer plasterboard layers which translates to slimmer partitions on site, maximizing usable room space. A further benefit of BORAL QuietWall® is that the system can be erected fast and as simple as a standard fire rated drywall.

Fire rating performance

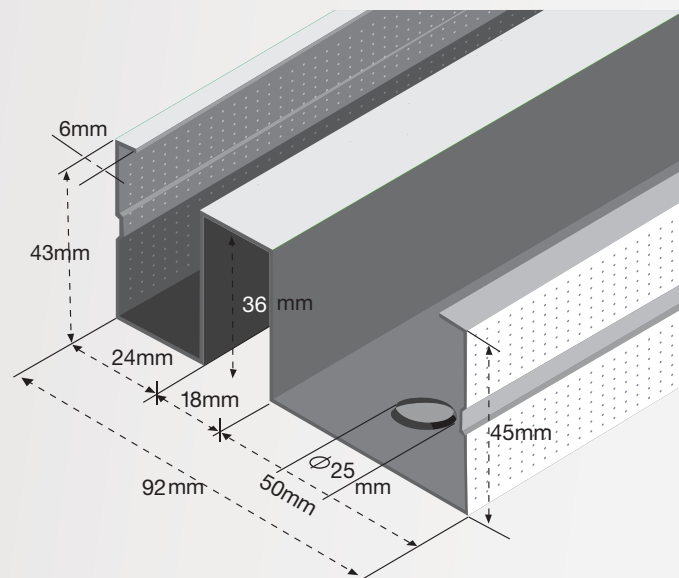
In the event of a fire, QuietWall® provides a one and a half hours fire rating performance as per BS 476 Part 22.

Less costly than older methods

BORAL QuietWall® acoustic system is an economical alternate solution compared to other methods such as resilient channels or space consuming double stud (frame) wall assemblies with similar STC results.

Benefits of BORAL QuietWall®

- Increase comfort levels, reduce stress, increase your productivity and peace of mind.
- Healthcare benefits – quiet hospital environment generally improves patient healing and medical staff satisfaction.
- Slimmer partitions and space-saving footprint
- Bell-mouthed service holes facilitates easier electrical cabling
- Labour saving and cost saving
- Simplicity and ease of installation



DESCRIPTION	PART NO
QUIET STUD 92mm x 45mm x 0.55 BMT	RQST

Applications

Sectors:

- Office – Interiors of offices, meeting rooms, conference rooms, board rooms
- Commercial – Interiors of hotel rooms, conference rooms
- Healthcare – Interiors of patient rooms, nursing stations, patient intake and discharge areas etc.
- Educational – Interiors of classrooms, exam rooms, lecturer halls, school library and universities
- Ideal for any indoor environment where noise and sound needs to be managed



Product Data

Thickness	mm	12.5mm (Boral StandardCORE) 16mm (Boral Firestop)
Edge Details:	Tapered Edge	Yes
Size:	Imperial	1220 x 2440 mm

Specifications:

149mm thick approved BORAL QuietWall® System comprising one layer of BORAL Firestop 16mm thick and one layer BORAL Standard Core 12.5mm thick on both sides screw fixed onto 92mm X 0.55mm BMT Rondo QuietStud® spaced at 610mm centres max., RONDO 92mm X 0.55mm BMT track fixed at base, RONDO 92mm X 50mm X 0.75mm BMT deflection head tracks fixed on top and 50mm thick BORAL SoundBlock in wall cavity. Board surface to be flushed finished using BORAL Paper Tape 50mm width and BORAL Premium Premix jointing compound, perimeter and wall penetrations to be sealed with BORAL Fire and Sound Sealant, all fixed in accordance to manufacturer's instruction and recommendation.

1½ - Hours Fire Rated QuietWall® Acoustic System

System No.	Fire-Rating FRL (Test Ref.)	Description and Physical Data	Acoustic Performance
SS4	1½ Hours -/90/90 PSB 54SO74149/IHN	<p>12.5mm Standard Core 16mm Firestop</p> <p>16mm Firestop 12.5mm Standard Core</p> <p>Mass 43 kg/m²</p> <p>Rondo 92mm x 0.55 BMT QuietStud® * Maximum Wall Height = 4300mm</p> <p>For limiting height above 4300mm, please refer to Boral Technical Department</p>	<p>STC 47 No insulation (92 CS 55)</p> <p>PSB 54SO75042/EMK</p> <p>STC 56 Boral SoundBlock (92 CS 55)</p>