

USG BORAL CINEMA GUIDE

V.02



USG BORAL
INNOVATION INSPIRED BY YOU.™



[USGBoral.com](https://www.usgboral.com)

Plasterboard

Ceilings

Interior Finishes

Metal Framing

Substrates



CONTENTS

Introduction	05
USG Boral Presence In Cinemas Projects	06
Projects Reference	
Case Study	
Cinema's Drywall Partition Assemblies	08
USG Boral Wallboards	
Twin Framing Description	
Auditoria to Public Area Wall Partition	
Auditoria to Auditoria Wall Partition	
Auditoria to Auditoria Extreme Wall Partition-1	
Auditoria to Auditoria Extreme Wall Partition-2	
Curved Walls	
Partition Format	
Cinema's Ceilings Solutions	28
Ceiling Mass Barrier with acoustical Ceiling	
Halcyon™	
Louna™ HI-CAC	
Ensemble™ Monolithic Acoustical Ceiling System	
Donn® Exposed Grid	
Cinema's Interior Finishes	40
Joint Compounds	
Joint Tapes	
Preparation Solutions	
Certification and Compliance	46





INTRODUCTION

Your Auditoria Architectural Finishes Supplier

With over 334 UL assemblies for Ceilings & Drywall Partitions; USG Boral ME is committed to provide innovative products and solutions to build your theater projects.

We are your single source manufacturer for Acoustical Ceiling Systems & Drywall Partitions Assemblies.

- Our systems are integrated with MEP and Lighting.
- Compatibility with claddings (Marble, Ceramic and Porcelain)
- Compatibility with other materials and systems (Sound systems, sprinklers, paint...)

USG Boral ME maintains a longstanding commitment with its employees, customers and communities to reduce environmental impact by using recycled materials whenever feasible to eliminate manufacturing waste. USG Boral ME products contribute toward LEED® credits in different areas. The company has a technical team that offers technical support for all theater projects scales at no cost whenever it is required by the clients, consultants or contractors.

WALL BOARDS

The USG Boral DryWall Partitions Systems are particularly designed to suite the sensitive requirements for all theater applications. Our systems are designed to provide an enhanced acoustic, fire and structural performance with the latest International Building Code (IBC).

ACOUSTICAL CEILING TILES

USG Boral ME locally produces in its Dammam, KSA operation a wide range of acoustical ceiling tiles that covers Mineral Fiber, Soft Fiber, Specialty Ceilings, Metal Tiles and Gypsum Tiles. All Acoustical Ceiling Tiles produced by USG Boral ME comply with both international standards ASTM E1264 and EN 13964.

USG Boral ME acoustical ceilings are designed to increase the aesthetic and functional value of your interiors within a modest ceiling budget.

USG Boral ME famous DONN® DX grid suspension is manufactured locally and is certified to meet the most stringent national and international standards.

METAL FRAMINGS

USG Boral ME is dedicated to provide high quality Metal Framing products including full range of accessories meeting the project needs and in compliance with the statutory and regulatory requirements.

INTERIOR FINISHES

USG Boral ME manufactures and supplies an extensive range of high-quality and consistent joint compounds including bedding and base compounds, finishing compounds, all purpose for patching and skimming compounds to transform your plasterboard joints, angles and fastener heads into one seamless surface.

SUBSTRATES

We design our substrates with ease of use and durability in mind so you can meet your project objectives. Explore our products and learn how you can utilize them for your theater projects. We produce and supply Durock® Cement Boards, Fiberock® Panels and Securock® Panels.

USG BORAL PRESENCE IN CINEMAS PROJECTS

BAHRAIN

- Bahrain City Center Cinemas
- Bahrain Mall
- Cineco Cinemas, Oasis Mall
- Cinepolis Cinemas, Atrium Mall
- Dana Mall
- Five Guys, Avenue Mall
- Vox Cinemas, The Avenues

JORDAN

- Taj Mall Cinemas

KSA

- Vox Cinema, Al Qasr Mall
- Vox Cinema, Kingdom Tower
- Vox Cinema, Red Sea Mall
- Vox Cinema, Riyadh Park
- Vox Cinema, Roof Mall
- Muvi Cinema, Al Arab Mall

KUWAIT

- Vox Cinema, The Avenues Mall

OMAN

- Avenue Mall Cinema
- Cinepolis Cinema
- Cinepolis Sohar
- Muscat Grand Mall Cinemas

QATAR

- Doha City Center Cinemas
- Land Mark Mall
- Mesheireb Cinemas
- Pearl Qatar Grand Cinemas
- Qatar Mall Cinema
- Tawar Mall Cinema

UNITED ARAB EMIRATES

- Abu Dhabi Marina Mall
- Abu Dhabi Trade Center
- Al Ghurair Shopping Center
- Al Jimi Mall
- Burjuman Center
- Burjuman Cinema-Expansion
- City walk
- Dubai Arena
- Dubai Festival City & Extension Cinemas
- Dubai Mall Cinemas
- Dubai Mall Extension
- Dubai Marina Mall Cinemas
- Dubai South Mall
- Fujairah Cinema
- Jumeirah Retail Development
- Khalidiya Mall Cinemas
- Mega Mall, Sharjah
- Mercato Mall
- Mirdif City Center Cinema
- Mirdif City Center Cinema-Expansion
- Sahara Center
- Sega Orbi Entertainment Center
- Uber Cinema
- Vox Cinemas, Al Hamra Mall
- Vox Cinemas, Fujairah City Center

1st

DEVELOPMENT OF
ITS KIND OUTSIDE
OF JAPAN

35^m

WIDE SCREEN
WITH 3D SOUND
SYSTEM

14^m

HEIGHT OF
ACOUSTIC
LIGHTWEIGHT
CURVED WALLS

ORBI CASE STUDY

For the first development of its kind outside of Japan and the first to use gypsum partitions for its auditoria

WELCOME TO ORBI DUBAI

An attraction place like no other consists of twelve different nature zones designed to create experiences that would be impossible in the real world. The centerpiece of the attraction is the Earth Theatre, a 35-metre-wide screen with a powerful 3D sound system where the natural world comes to life through state of the art technologies including fog, vibratory sensations and fragrances.

USG Boral innovative systems and products were able to provide a curved drywall partition to a radius of less than 4 meters using high density plasterboard achieving high acoustic performance's required. 14 meter high lightweight curved walls plus free standing auditoria with high acoustic requirements were also installed. With USG Boral's building materials products you can achieve the most projects complex mechanics, acoustics and fire requirements.



CINEMA'S DRYWALL PARTITION ASSEMBLIES



USG BORAL WALLBOARDS FOR CINEMA APPLICATIONS

USG BORAL SHEETROCK® BRAND GYPSUM PANELS | TYPE X, TYPE C AND REGULAR PANELS



- Quality interior wall and ceiling panels at low cost
- Fire-resistant dry construction
- Score and snap easily
- Resist cracking and warping
- Specialized types for all systems
- Quick installation and decoration

USG FIBEROCK® BRAND AR INTERIOR PANELS



- No face paper to scratch or tear
- Resist denting, breaking and puncturing, even in high-traffic areas as Hospitals corridors
- Provide excellent fire resistance
- Offer an economical alternative to concrete block and plaster construction
- Ideal for healthcare, education and commercial interiors
- Certified, recycled content of 97%

USG DUROCK® BRAND CEMENT BOARD



- Lightweight cement tile backerboard
- Water-durable, mold-resistant substrate for high-moisture areas
- Suitable for use in interior or exterior applications
- Will not rot, warp, delaminate or disintegrate
- Easy to cut and fasten
- Noncombustible

TWIN FRAMING DESCRIPTION

The high wall system consist of two C-Studs braced together with USG Boral acoustic V brace application up to 20 meters, particularly cinema walls where excellent acoustic performance is highly required.

The acoustic V brace is spaced at 1200mm centers vertically connecting our C-studs profiles single or multiple layers of USG Boral.

Plasterboard sheets are then screw fixed to steel framing with bugle headed, drill point gypsum screws.

Acoustically the twin framing system complies with the impact noise isolation requirements' of building code of using the appropriate cavity absorber can meet a range of acoustic performance standards, including 74 dB meeting the acoustic criteria for high cinema walls recommended by acoustic consultants in their "cinema design/construction, noise control requirements" reports.

The acoustic performance of the twin frame wall system can be tailored to design requirements by varying plasterboard layers and thicknesses and acoustic insulation. Up to 74 dB acoustical rating in addition to satisfying low frequency performance criteria for cinema construction.

The twin framing system is rapid and easy to build on site, meaning faster construction and substantial cost savings.

The lightweight Twin Framing systems can reduce foundation size and storage space and related costs.

The Twin Frame is capable of up to 3 hours fire resistance. The system can be constructed to achieve fire resistance ratings to meet various design requirements.

The Twin Frame system can provide walls up to 20 meters in height without noggins are extremely stable and capable of withstanding design pressures without rotation or torsional buckling.

- Non axial load bearing.
- In General, studs spacing is 600 mm wall thicknesses and heights depending on board configuration.
- All maximum spans, limiting structural heights, limiting heights in fire and acoustic capacity tests have been performed using USG Boral standard core plasterboard. Firestop or Wet area Firestop constructed to standard or fire rated Twin Framing wall details. Performance results cannot be assumed with the use of other materials.

SOUND ISOLATION

ECONOMICAL

LIGHTWEIGHT

FIRE RESISTANCE

STRUCTURAL STABILITY

LIMITATIONS

WHY TWIN FRAME

Twin Frame provides many design and construction advantages to a variety of typical building projects.

The superior acoustic performance of the wall enables it to be applied in many areas where high acoustic rating (sound Transmission loss coefficient) is required.

For example inter-tenancy walls in multi-residential or hotel /motel development, cinema walls, commercial construction and exterior of shaft walls in all of the former.

The structural stability of the Twin Frame wall makes it particularly suitable for use in shopping Centre foyers, atriums, in residential conversions of warehouses and other high-wall buildings.

Structural and acoustic performance combined, the Twin Frame is the obvious steel stud wall system for construction of auditoriums, theatres and sport stadiums.

TYPICAL SHOPPING CENTRE COMPLEX

The Twin Frame system can be extensively and usefully applied to shopping Centre developments.

Walls over 3.6 meters in height can be constructed within the atrium or foyer, and as exterior walls. Walls with a high acoustic and fire rating are possible around plant rooms, cold and storage rooms.

The ideal combination of fire and acoustic performance and achievable wall height is demonstrated by use of the Twin Frame System.

As well as achieving wall heights up to 20 meters, the Twin Framing wall minimize noises transfer and is capable of a 72 acoustic rating. It also satisfies the low frequency performance criteria required for cinemas and theaters.

TWIN FRAMING APPLICATIONS - SHOPPING CENTRE COMPLEX

1. Built as separating wall between the interactive entertainment area and the cinemas, the Twin Frame wall will provide excellent acoustic isolation from the transmission of noise from one area to another.

2. The Twin Frame system enables the construction of very high cinema walls with superior acoustic performance to accommodate the latest in cinema screen design and sound technology.

3. Retail tenancies with specific noise control requirements, for example a music/video store, will benefit from twin Frame intertenancy wall.

4. Twin Framed partition walls in the supermarket will separate storage and cool rooms from the remainder of the store, minimizing noise freezers or packing machinery.

5. Noise control requirement for an open foyer or atrium feature at the entrance to the shopping center is easily obtained using the Twin Frame wall system.

CINEMA WALL ACOUSTIC PERFORMANCE TABLE

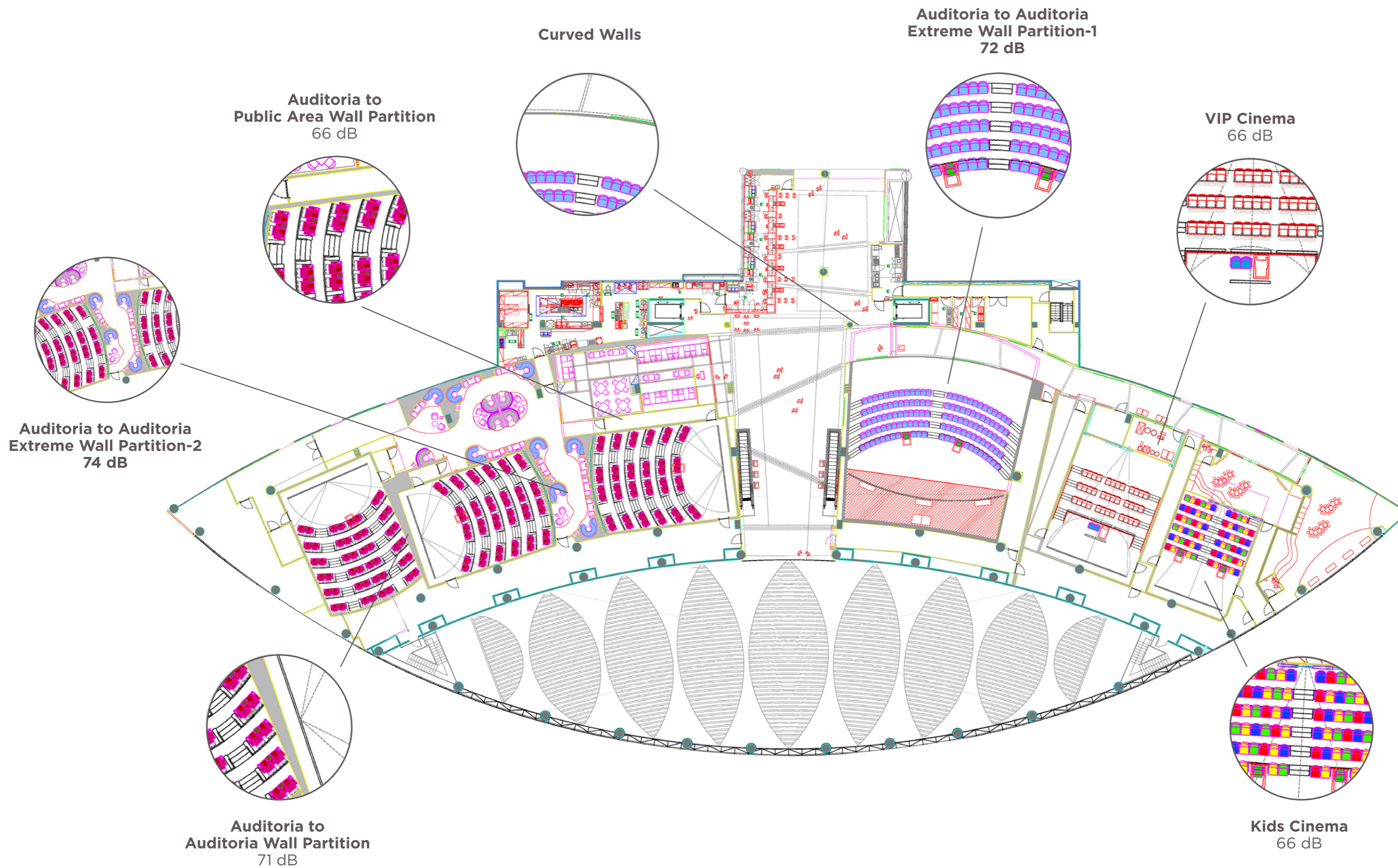
Location	Test Description	octave band center frequency, (Hz)							Acoustic Rating dB
		63	125	250	500	1000	2000	4000	
AUD to Public Area	2 Layers 15.9mm Sheetrock® type X each side with cavity insulation	28	44	56	68	73	76	77	66
AUD to Public Area	Target noise reduction, dB on site	-	-	-	60	-	-	-	60
AUD/AUD	3 Layers 15.9mm Sheetrock® type X each side with cavity insulation	35	51	61	72	75	79	80	71
AUD/AUD	Target noise reduction, dB on site	35	42	55	65	70	75	75	65
AUD/AUD Extreme Wall-1	3 Layers 15.9 type X + 1 Layer 12.7 Fiberock on each side	35	56	60	72	75	78	76	72
AUD/AUD Extreme Wall-1	Target noise reduction, dB on site	-	-	-	66	-	-	-	66
AUD/AUD Extreme Wall-2	1 Layer 15.9 type X + 1 Layer 12.7 + 2 Layers 15.9 type X on each side	38	57	73	79	79	78	70	74

Note:

The wall cavity was maintained at 370 mm for each test. Two (2) layers of 75 mm 24 kg/m³ glass wool insulation was placed within the cavity.



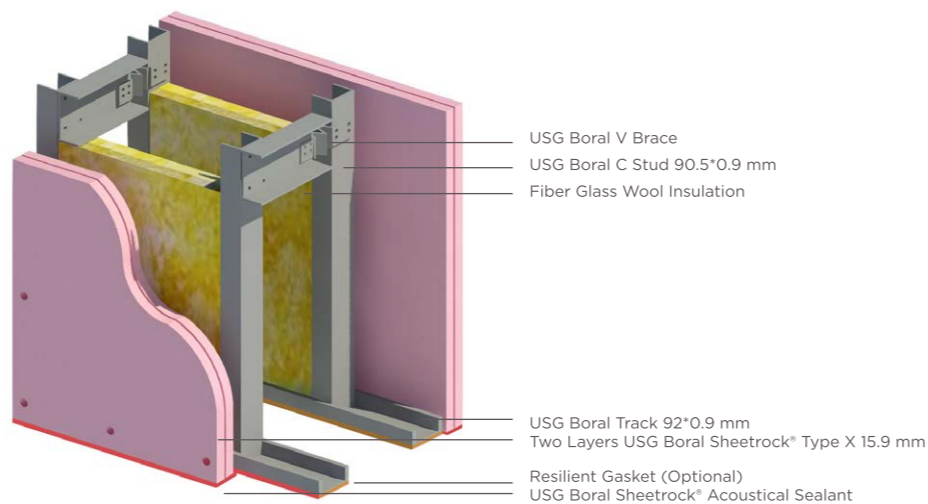
TYPICAL CINEMA FLOOR PLAN



CNW1

AUDITORIA TO PUBLIC AREA WALL PARTITION

ACOUSTIC RATING UP TO 66 dB FOR THE TESTED TWIN FRAME CINEMA WALL PARTITION



WALL CONSTRUCTION

Gypsum Board: Two layers of USG Boral Sheetrock® Firecode type X, 15.9 mm thick tapered edge.

Steel Stud: Two 90.5x36x0.9 mm spaced at 600 O.C.

Top Track: Two 92x50x0.90 mm, or two 92x90x0.9 mm

Bottom Track: Two 92x30 mm, 0.9 mm

Insulation: Two 75 mm thick Glass Wool insulation (24 kg/m³)

Bracing: 92 mm track + V-brace 200 mm from top spaced at 1200 mm O.C.

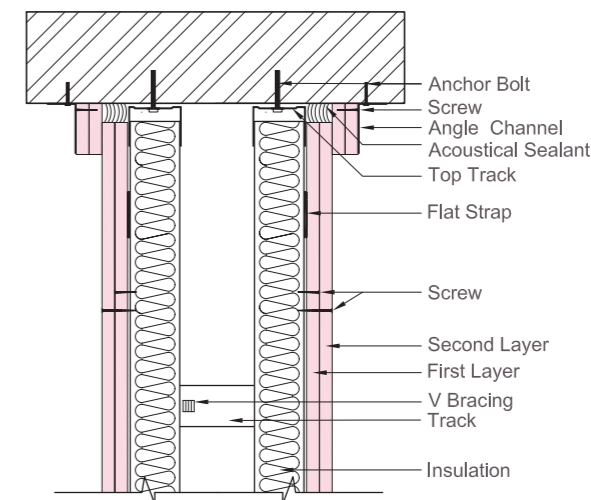
Joint Compound: USG Boral Sheetrock® Brand All-Purpose Joint Compound

Acoustical Sealant: USG Sheetrock® Brand Acoustical Sealant

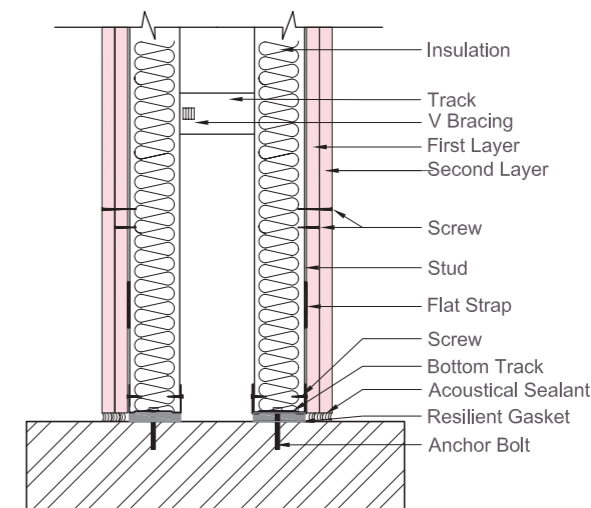
Tapes: USG Sheetrock® Brand Paper Tape

Screws: First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50 mm Screw, Bugle Head – Self Drilling

WALL SECTION - TOP

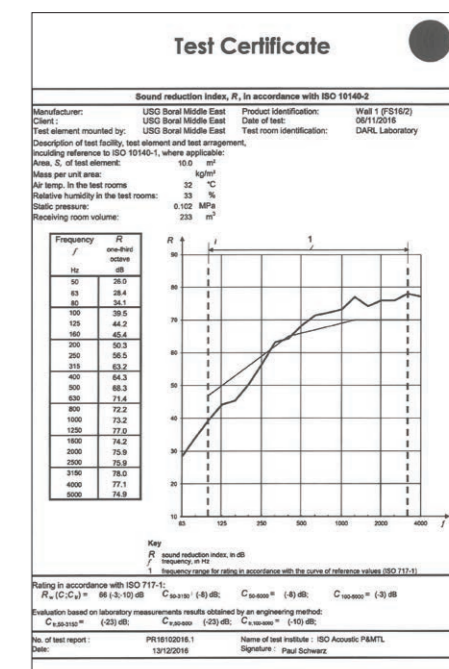


WALL SECTION - BOTTOM



WALL PERFORMANCE CRITERIA / TEST CERTIFICATE

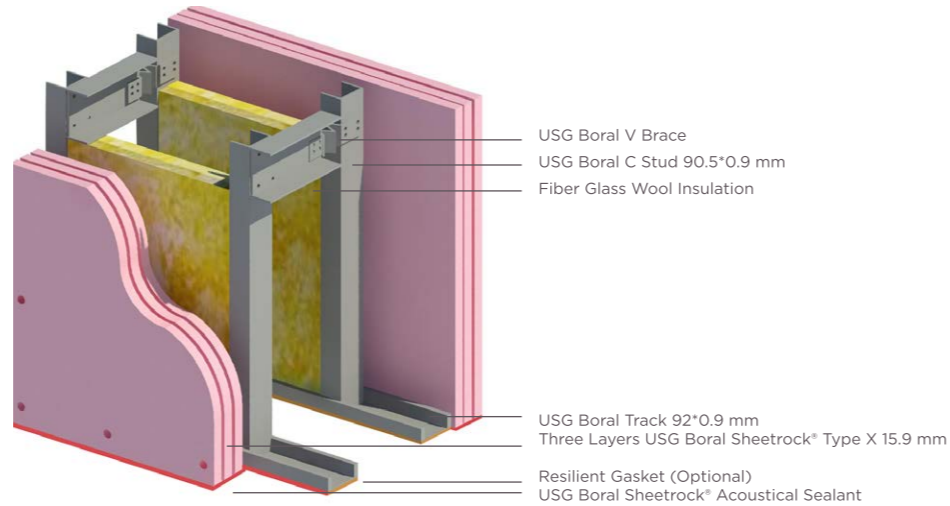
Performance Criteria	USG Boral System	Project Requirements
Wall Width	300 mm	300 mm
System Fire Rating	2 hr.	1 hr.
Acoustic Rating	66 dB	66 dB



CNW2

AUDITORIA TO AUDITORIA WALL PARTITION

ACOUSTIC RATING UP TO 71 dB FOR THE TESTED TWIN FRAME CINEMA WALL PARTITION



WALL CONSTRUCTION

Gypsum Board: Three layers of USG Boral Sheetrock® Firecode type X, 15.9 mm thick tapered edge.

Steel Stud: Two 90.5x36x0.9 mm spaced at 600 O.C.

Top Track: Two 92x50x0.90 mm, or two 92x90x0.9 mm

Bottom Track: Two 92x30x0.9 mm

Insulation: Two 75 mm thick Glass Wool insulation (24 kg/m3)

Bracing: 92 mm track + V-brace 200 mm from top spaced at 1200 mm O.C.

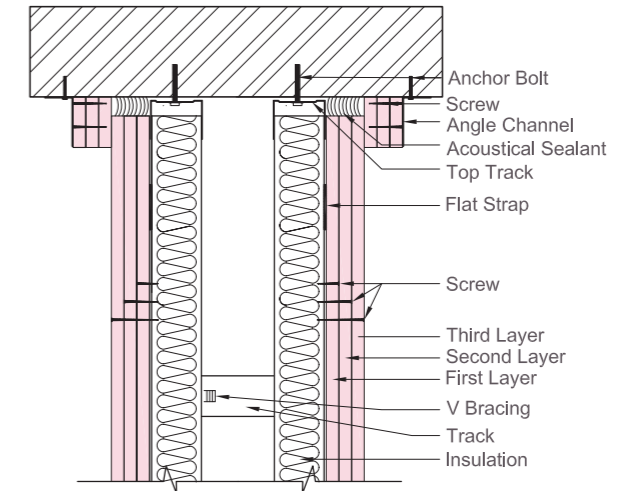
Joint Compound: USG Sheetrock® Brand All-Purpose Joint Compound

Acoustical Sealant: USG Sheetrock® Brand Acoustical Sealant

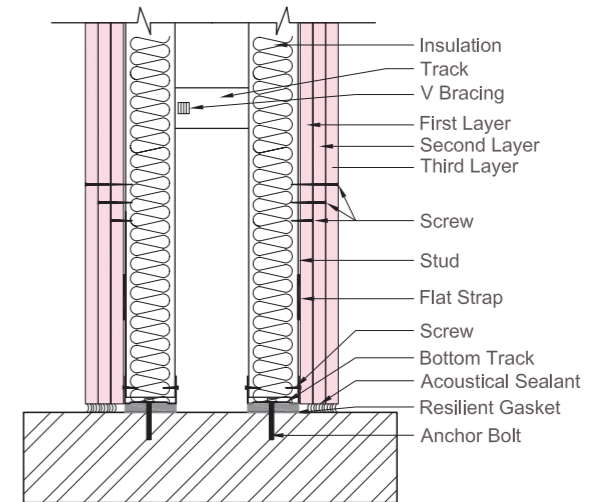
Tapes: USG Sheetrock® Brand Paper Tape

Screws: First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling

WALL SECTION - TOP

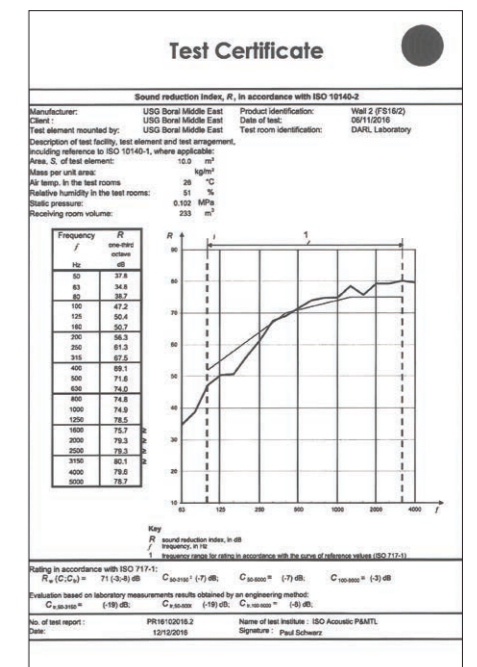


WALL SECTION - BOTTOM



WALL PERFORMANCE CRITERIA / TEST CERTIFICATE

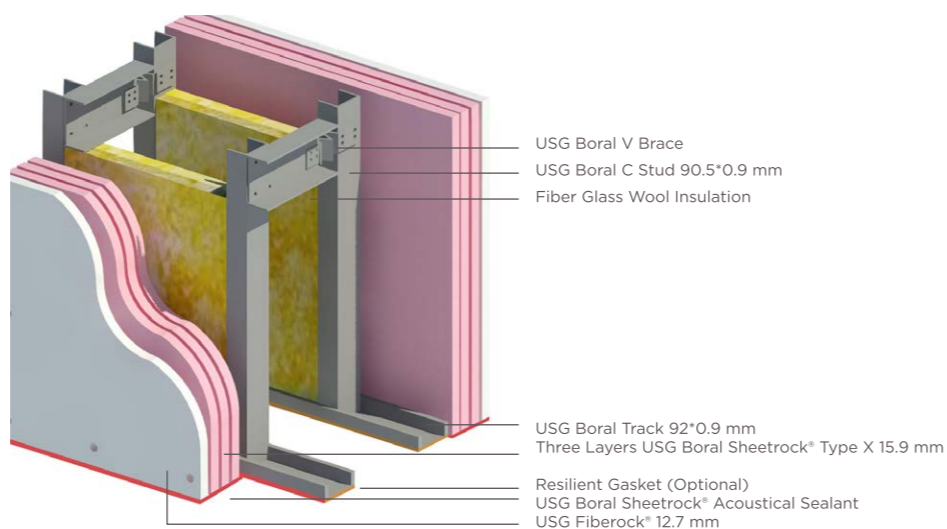
Performance Criteria	USG Boral System	Project Requirements
Wall Width	400 mm	400 mm minimum
System Fire Rating	3 hr.	1 hr.
Acoustic Rating	71 dB	71 dB



CNW3

AUDITORIA TO AUDITORIA EXTREME WALL PARTITION-1

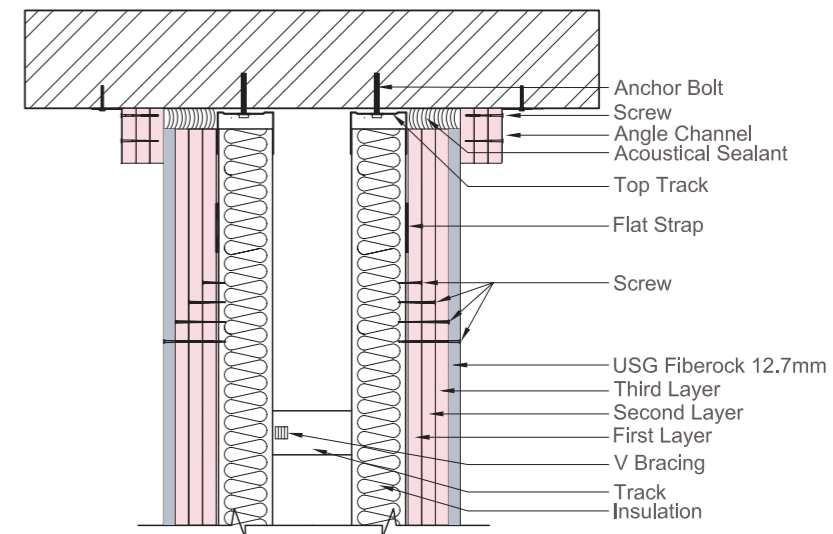
ACOUSTIC RATING UP TO 72 dB FOR THE TESTED TWIN FRAME CINEMA WALL PARTITION



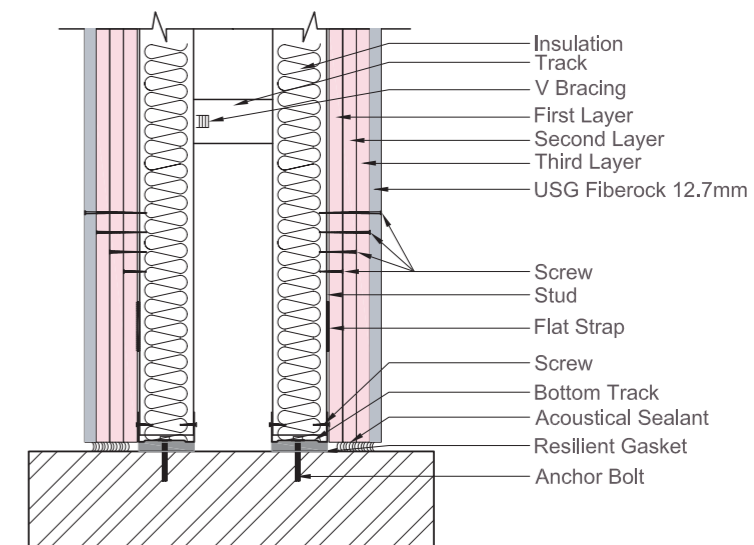
WALL CONSTRUCTION

- Outer Layer:** 1 layer of USG Fiberock® 12.7 mm, each side
- Gypsum Board:** Three layers of USG Boral Sheetrock® Firecode type X, 15.9 mm thick tapered edge.
- Steel Stud:** Two 90.5x36x0.9 mm spaced at 600 O.C.
- Top Track:** Two 92x50x0.90 mm, or two 92x90x0.9 mm thick
- Bottom Track:** Two 92x30x 0.9 mm
- Insulation:** Two 75 mm thick Glass Wool insulation (24 kg/m3)
- Bracing:** 92 mm track + V-brace 200 mm from top spaced at 1200 mm O.C.
- Joint Compound:** USG Sheetrock® Brand All-Purpose Joint Compound
- Acoustical Sealant:** USG Sheetrock® Brand Acoustical Sealant
- Tapes:** USG Sheetrock® Brand Paper Tape
- Screws:** First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling
Forth Layer: 4.2 x 78 mm Screw, Bugle Head – Self Drilling

WALL SECTION - TOP

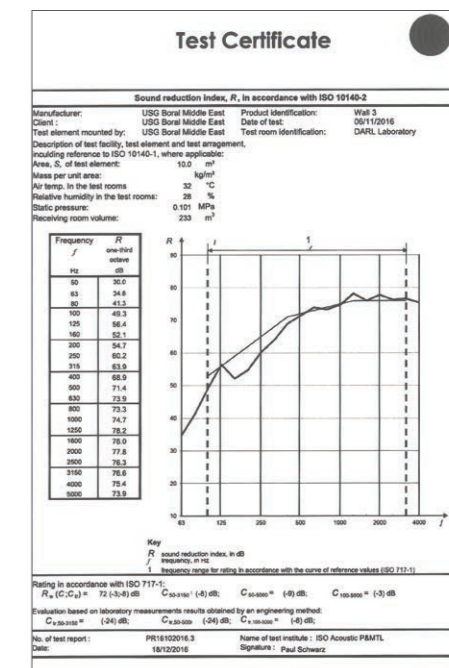


WALL SECTION - BOTTOM



WALL PERFORMANCE CRITERIA / TEST CERTIFICATE

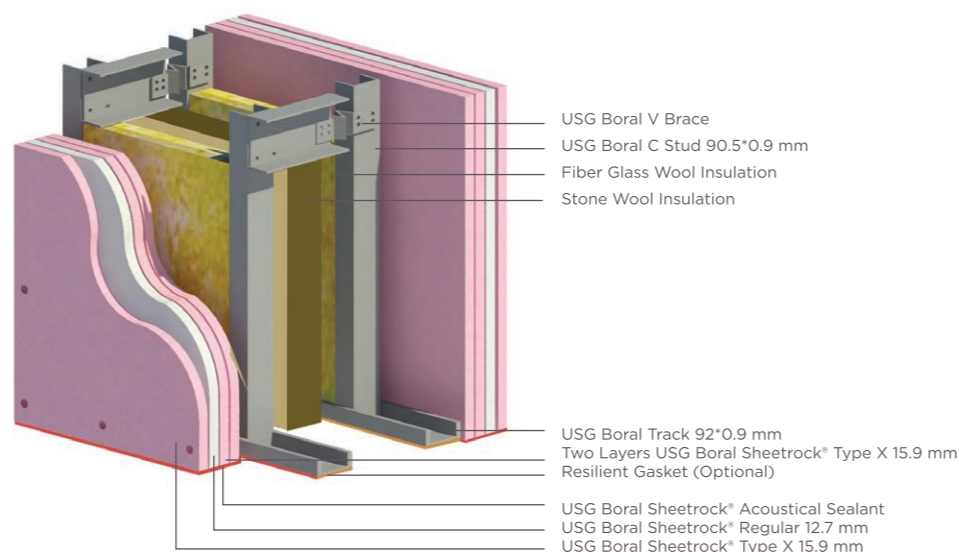
Performance Criteria	USG Boral System	Project Requirements
Wall Width	400 mm	400 mm minimum
System Fire Rating	3 hr.	1 hr.
Acoustic Rating	72 dB	72 dB



CNW4

AUDITORIA TO AUDITORIA EXTREME WALL PARTITION-2

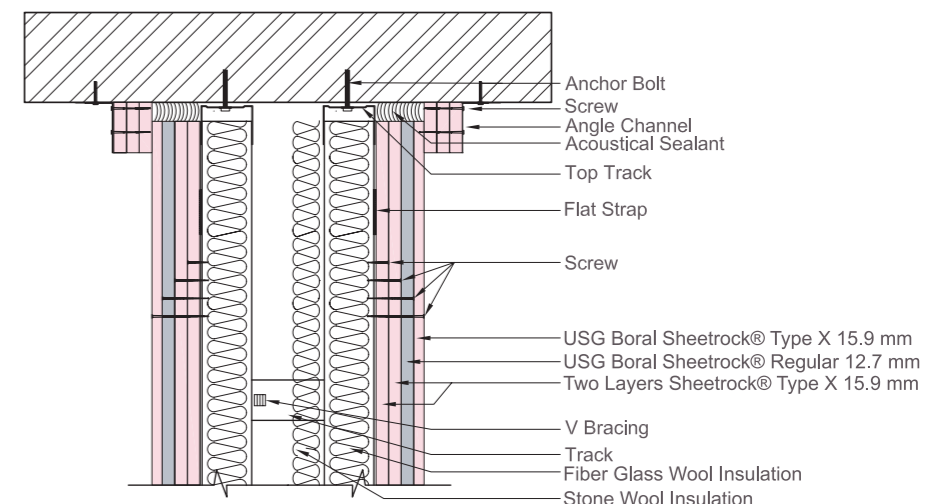
ACOUSTIC RATING UP TO 74 dB FOR THE TESTED TWIN FRAME CINEMA WALL PARTITION



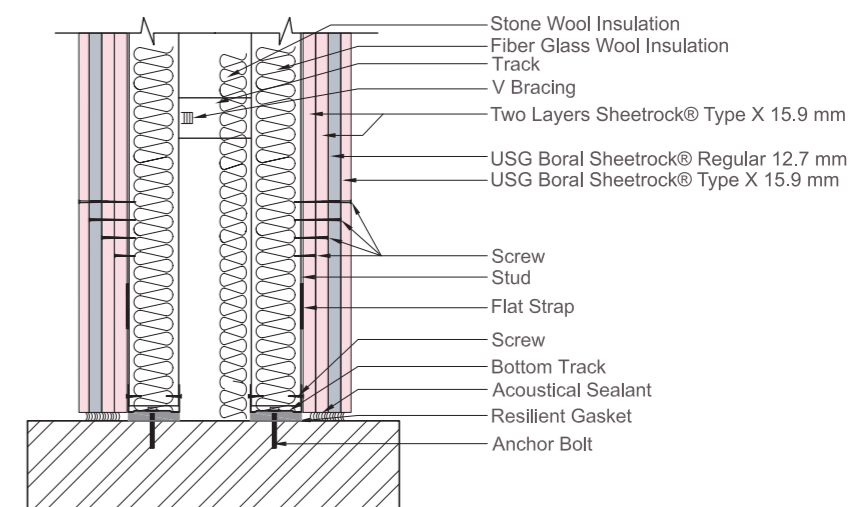
WALL CONSTRUCTION

- Outer Layer:** 1 layer of USG Boral Sheetrock® Firecode type X, 15.9 mm
- Second Layer:** 1 layer of USG Boral Sheetrock® regular 12.7 mm
- Inner Layer:** Two layers of USG Boral Sheetrock® Firecode type X, 15.9 mm thick.
- Steel Stud:** Two 90.5x36x0.9 mm spaced at 600 O.C.
- Top Track:** Two 92x50x0.90 mm, or two 92x90x0.9 mm thick
- Bottom Track:** Two 92x30x 0.9 mm
- Insulation:** Two Layers of 75 mm thick Glass Wool insulation (24 kg/m3)
One Layer 50 mm thick Stone Wool insulation (40 kg/m3)
- Bracing:** 92 mm track + V-brace 200 mm from top spaced at 1200 mm O.C.
- Joint Compound:** USG Sheetrock® Brand All-Purpose Joint Compound
- Acoustical Sealant:** USG Sheetrock® Brand Acoustical Sealant
- Tapes:** USG Sheetrock® Brand Paper Tape
- Screws:** First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling
Forth Layer: 4.2 x 78 mm Screw, Bugle Head – Self Drilling

WALL SECTION - TOP

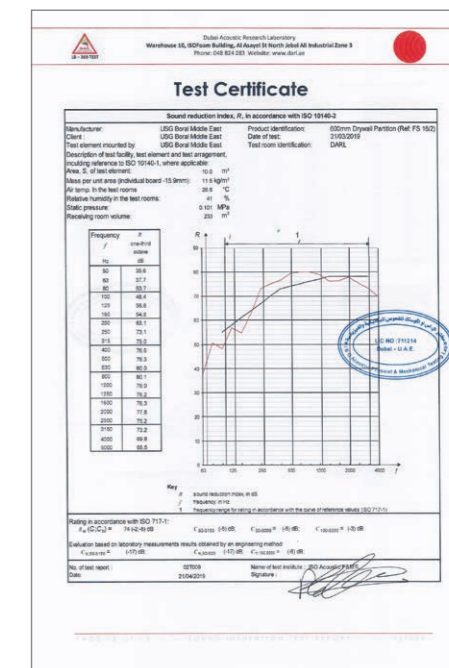


WALL SECTION - BOTTOM



WALL PERFORMANCE CRITERIA / TEST CERTIFICATE

Performance Criteria	USG Boral System	Project Requirements
Wall Width	600 mm	600 mm minimum
System Fire Rating	3 hr.	1 hr.
Acoustic Rating	74 dB	74 dB





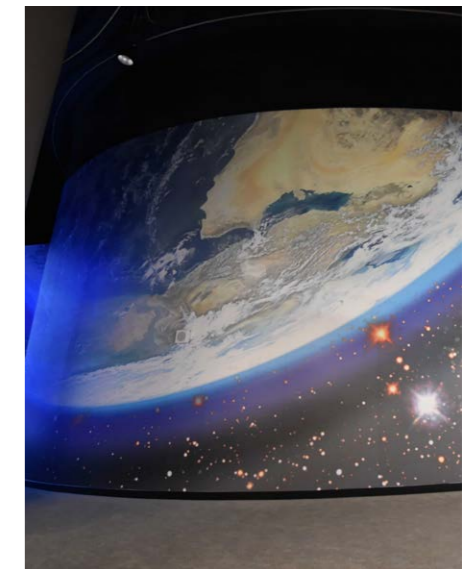
CNW5

CURVED WALLS

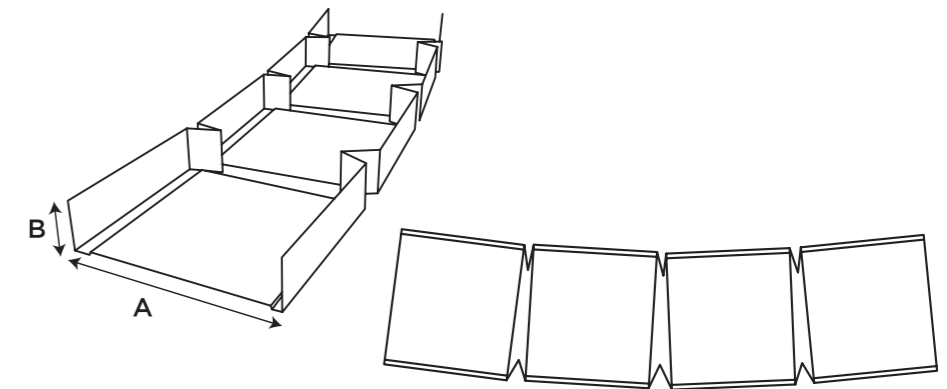
DESCRIPTION

USG Boral ME is committed to provide you integrated systems for Drywall Partitions which are compatible with claddings (Marble, Ceramic, and Porcelain) for curved walls in Wet areas using USG Durock® Cement board, USG Boral Wetstop Gypsum Board, USG Boral Steel studs and curved tracks.

Moreover, for dry areas USG Boral Sheetrock® brand gypsum boards, USG Boral Steel studs and curved tracks are used to construct curved wall partitions.



CURVED TRACK



PARTITION FORMAT

Wall Location	System Description	Acoustic Rating	Fire Rating	Wall Loading (approx.)	Wall Thickness	Framing						Insulation	Boarding		
						Floor Track	Top Track	Stud	Spacing	Bracing	Flat Strap		Board Thickness	No. of Layers	Board Type
Between Auditoriums	3 x 15.9mm Type X Both side on twin frame of 92 track	71db	2Hrs	85kg/m2	400 mm 450 mm 500 mm 550 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick = 25mm deflection 92 x 90 x 0.90mm thick = 50mm deflection	90.5x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm Ver c/c	58mm/0.60-1.5 thick	Double layer 75mm thick Glasswool 24kg/m3 density	15.9mm	3 each side + 1 additional layer for speakers if Recommended	Type X
Between Auditoriums	3 x 15.9mm Type X Both side on twin frame of 92 track	71db	2Hrs	85kg/m2	400 mm 450 mm 500 mm 550 mm	92 x 30 x 0.90 mm thick	92 x 50 x 0.70mm thick = 25mm deflection 92 x 90 x 0.70mm thick = 50mm deflection	0.90x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm Ver c/c	58mm/0.60-1.5 thick	Double layer 75mm thick Glasswool 24kg/m3 density	15.9mm	3 each side + 1 additional layer for speakers if Recommended	Type X
Between Auditoriums	1x 12.7 Fiber rock Board+3 x 15.9mm Type X Both side on twin frame of 92 track	72db	2Hrs	95kg/m2	400 mm 450 mm 500 mm 550 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick = 25mm deflection 92 x 90 x 0.90mm thick = 50mm deflection	90.5x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm Ver c/c	58mm/0.60-1.5 thick	Double layer 75mm thick Glasswool 24kg/m3 density	15.9mm	3 each side + 1 additional layer for speakers if Recommended	Type X + 12.7mm Fiberock® boards
Between Auditoria & public space	2 x 15.9mm Type X Both side on twin frame of 92 track	66/68db	2Hrs	70kg/m2	300 mm 320 mm 340 mm 360 mm	92 x 30 x 0.70mm thick	92 x 50 x 0.90mm thick = 25mm deflection 92 x 90 x 0.90mm thick = 50mm deflection	90.5x 34 x 0.70mm thick	600mm on O.C. twin frame structure	V brace at 1200mm Ver c/c	58mm/0.60-1.5 thick	Double layer 75mm thick Glasswool 24kg/m3 density	15.9mm	2 each side	Type X
Between Auditoria & public space	2 x 15.9mm Type X Both side on twin frame of 92 track	66/68db	2Hrs	70kg/m2	300 mm 320 mm 340 mm 360 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick = 25mm deflection 92 x 90 x 0.90mm thick = 50mm deflection	90.5x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm Ver c/c	58mm/0.60-1.5 thick	Double layer 75mm thick Glasswool 24kg/m3 density	15.9mm	2 each side	Type X
Between Auditoria & projection room	Wall Type 3 - 2 x 15.9 Type X on 148.5 C Studs / 0.60mm thickness	42db	2Hrs	55kg/m2	213 mm	150 x 30 x 0.60mm thick	150 x 50 x 0.60mm thick	148.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	Single layer 75mm thick Glasswool 24kg/m3 density	15.9mm	2 each side	Type X
Between Auditoria & projection room	Wall Type 3 - 2 x 15.9 Type X on 148.5 C Studs / 0.60mm thickness	42db	2Hrs	57kg/m2	213 mm	150 x 30 x 0.60mm thick	150 x 50 x 0.60mm thick	Back to Back 148.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	Single layer 75mm thick Glasswool 24kg/m3 density	15.9mm	2 each side	Type X
Internal Partition	2 x 12.7mm Sheetrock® Regular type board on 72 Track 0.60mm	51db	1Hr	41kg/m2	122.8 mm	72 x 30 x 0.60mm thick	72 x 50 x 0.60mm thick	70.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	50mm thick Glasswool 14kg/m3 density	12.7mm	2 each side	Sheetrock® Standard Type
Internal Partition	2 x 12.7mm Sheetrock® type C boards on 72 Track 0.60mm	53db	2Hrs	52kg/m2	122.8 mm	72 x 30 x 0.60mm thick	72 x 50 x 0.60mm thick	70.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	50mm thick Glasswool 14kg/m3 density	12.7mm	2 each side	Type C
Internal Non Acoustic Partition	1 x 15mm Regular board on 92 Track 0.60mm on both side	N/A	NFR	26kg/m2	122 mm	92 x 30 x 0.60mm thick	92 x 50 x 0.60mm thick	90.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	N/A	N/A	15mm	one	Sheetrock® Standard Type
Internal Non Acoustic Partition - Bathroom wall	1 x 12.7mm Durock® board on 92 Track 0.60mm on both side	N/A	NFR	30kg/m2	117.4 mm	92 x 30 x 0.60mm thick	92 x 50 x 0.60mm thick	90.5x 34 x 0.60mm thick	400mm on O.C. for tile	N/A	N/A	N/A	12.7mm Durock®	one	Cement board
Internal Non Acoustic Liner wall	1 x 15mm Regular board on 92 Track 0.60mm on one side	N/A	NFR	20kg/m2	107 mm	92 x 30 x 0.60mm thick	92 x 50 x 0.60mm thick	90.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	V brace at 1200mm Ver c/c	N/A	N/A	15mm	one	Sheetrock® Standard Type
Standard type Liner wall	1 x 15mm Regular board on Universal bracket	N/A	NFR	20kg/m2	25 mm to 75 mm	J Track -15 x 19mm x 30mm / 0.60mm thick	J Track -15 x 19mm x 30mm / 0.60mm thick	Furring channel- 18 x 45 x 18 x 0.60mm with Adjustable bracket (Long and short)	600mm on O.C.	800mm verticals USG Boral close fit	N/A	N/A	15mm	1	MR / RG Depends on the location
Vomitory	2 x 15mm Standard board one side on frame of 92 track and 15mm Plywood on the other side on unistrut	N/A	NFR	30kg/m2	122 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick (depend on the site deflection)	90.5x 34 x 0.90mm thick	600mm on O.C. single frame structure	N/A	N/A	N/A	15mm	2	Standard board one side and 15mm Plywood on the other side
Balustrade wall, Handrail	2 x 15mm Standard board one side on frame of 92 track and 15mm Plywood on the other side on unistrut	N/A	NFR	30kg/m2	137 mm including plywood	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick (depend on the site deflection)	90.5x 34 x 0.90mm thick - plywood on seating side	600mm on O.C. single frame structure	N/A	N/A	N/A	15mm	2	Standard board one side and 15mm Plywood on the other side
Auditorium - Liner wall	2 x 15.9mm Type X one side on twin frame of 92 track, braced to the block wall	dependent on background wall	2Hrs	33kg/m2	114 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick (depend on the site deflection)	90.5x 34 x 0.90mm thick	600mm on O.C. single frame structure	V brace at 1200mm Ver c/c	N/A	75mm thk Glasswool 24kg/m3 density	15.9	2	Type X
Store / Ele Rooms	1 x 15.9mm Type X on both side on 92 Steel track	39db without insulation	1Hr	33kg/m2	123.8 mm	92 x 30 x 0.70mm thick	92 x 50 x 0.70mm thick (depend on the site deflection)	90.5x 34 x 0.70mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	N/A	15.9mm	1	Type X
Store / Ele Rooms	1 x 15.9mm Type X on both side on 150 Steel track	42db without insulation	1Hr	37kg/m2	181.8 mm	150 x 30 x 0.70mm thick	150 x 50 x 0.70mm thick = 25mm deflection 150 x 90 x 0.70mm thick = 50mm deflection	148.5x 34 x 0.70mm thick	400mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	N/A	15.9mm	1	Type X
Undercroft Wall, Liner wall	2 x 15.9mm Type X one side on 92 track frame	N/A	1Hr (board side only)	35kg/m2	123.8 mm	92 x 30 x 0.60mm thick	92 x 50 x 0.60mm thick	90.5x 34 x 0.60mm thick	600mm on O.C. single frame structure	N/A	58mm/0.60-1.5 thick	75mm thick Glasswool 24kg/m3 density	15.9mm	2	Type X
Undercroft Wall	2 x 15.9mm Type X board and 25mm Shaftwall board on 150mm CH Stud frame Undercroft	54db	2Hrs	60kg/m2	182 mm	J Track 150 / 0.90mm	J Track 150 / 0.90mm	CH Stud 150mm x 0.90mm, E Stud 150mm x 0.90mm thick	600mm on O.C. single frame structure	N/A	N/A	50mm thick Glasswool 14kg/m3 density	-	-	-
Wall Lining to block / Screen Baffle	1 x 15mm Standard Type on the 90.5 Back to back studs	N/A	NFR	20kg/m2	165 mm and more	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick	Back to Back 90.5x 34 x 0.90mm thick	400mm on O.C. single frame structure	Braced back to W1 or w2	N/A	N/A	15mm	1	MR / RG Depends on the location

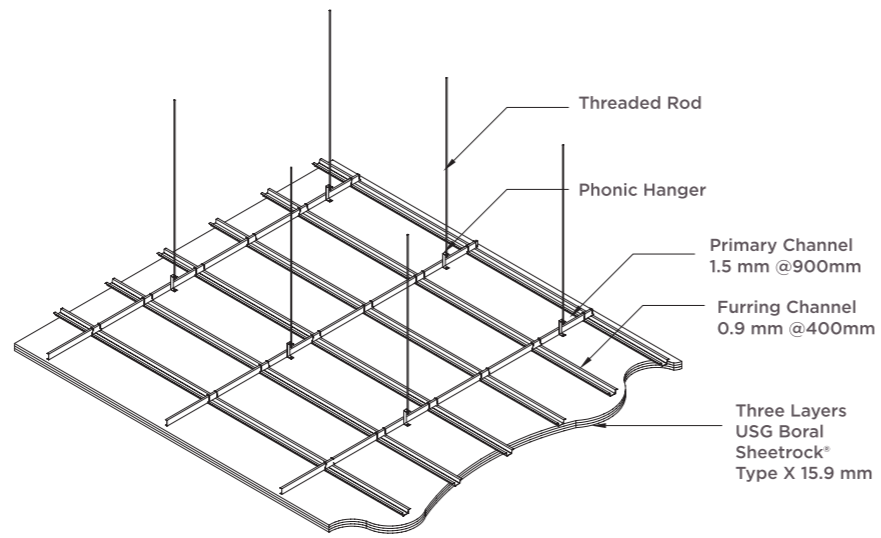
CINEMA'S CEILING SOLUTIONS



CNC1

CEILING MASS BARRIER WITH ACOUSTICAL CEILING

CINEMA CEILING MASS BARRIER



CEILING MASS BARRIER CONSTRUCTION

Gypsum Board: 3 Layers of USG Boral Sheetrock® Firecode type X, 15.9 mm thick tapered edge.

Furring Channel: USG Boral 22x69x0.90 mm Furring Channel spaced at 400 mm o.c

Perimeter Angle: USG Boral 25x25x0.9 mm L-Angle

Primary Channel: USG Boral 12x38x1.5 mm primary channel spaced at 900 mm o.c

Hanger: 6mm threaded rod spaced at 900 mm. Length varies as per project requirement.

Insulation: 75 mm Glass Wool, 24 kg / m³

Accessories: U- Bracket, Wire Connecting clip, Galvanized hexagonal nut and steel washer, Phonic hanger

Joint Compound: USG Boral Sheetrock® All-Purpose Joint Compound

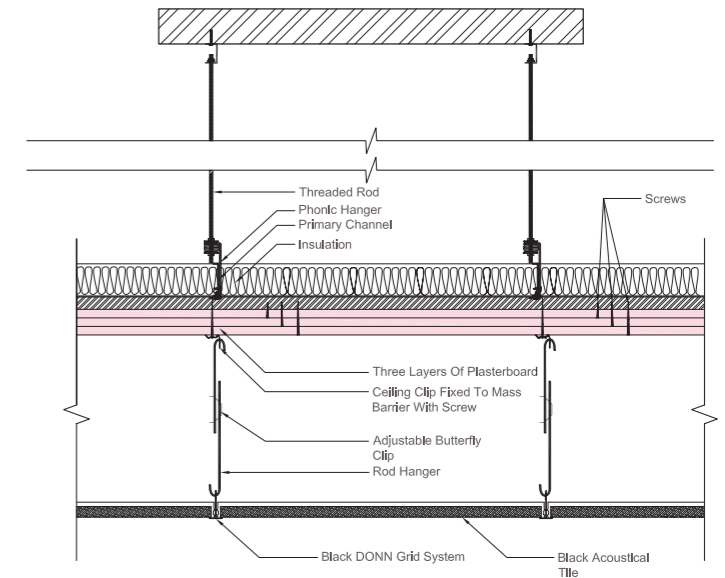
Acoustical Sealant: USG Sheetrock® Brand Acoustical Sealant.

Tapes: USG Sheetrock® Brand paper tape for gypsum board jointing

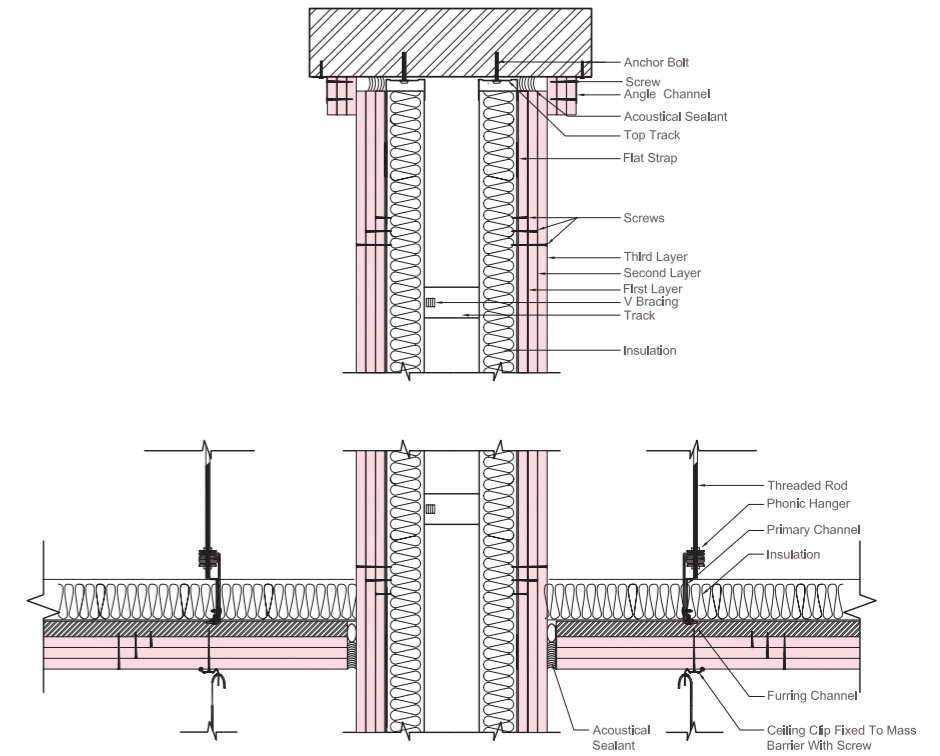
Acoustical Ceiling System Below Mass Barrier: Black acoustical tiles with black DONN DX grid. Refer to the following pages for acoustical ceiling details.

Screws: First layer: 4.2 x 32 mm Screw, Bugle Head - Self Drilling
 Second Layer: 4.2 x 50 mm Screw, Bugle Head - Self Drilling
 Third Layer: 4.2 x 65 mm Screw, Bugle Head - Self Drilling

CEILING MASS BARRIER WITH ACOUSTICAL CEILING



CEILING MASS BARRIER WITH ACOUSTICAL CEILING / WITH WALL INTERSECTION



ON SITE CONSTRUCTION



CNC2

HALCYON™ BLACK

FEATURES & BENEFITS



- Fiber Glass substrate fully demountable reducing installation time
- Exceptional Sound Absorption with NRC values up to 1 & high acoustic sound absorption performance at low frequencies satisfying high performance for cinema construction.
- Impact & Scratch Resistant
- Available in encapsulated sealed edges with aluminum foil back to increase sound attenuation
- Light black tile for ideal application in cinemas and operating theaters

Applications:

- Cinemas and operating theatres
- Restaurants
- Convention halls and concourses
- Bowling Alleys

SOUND ABSORPTION 25MM

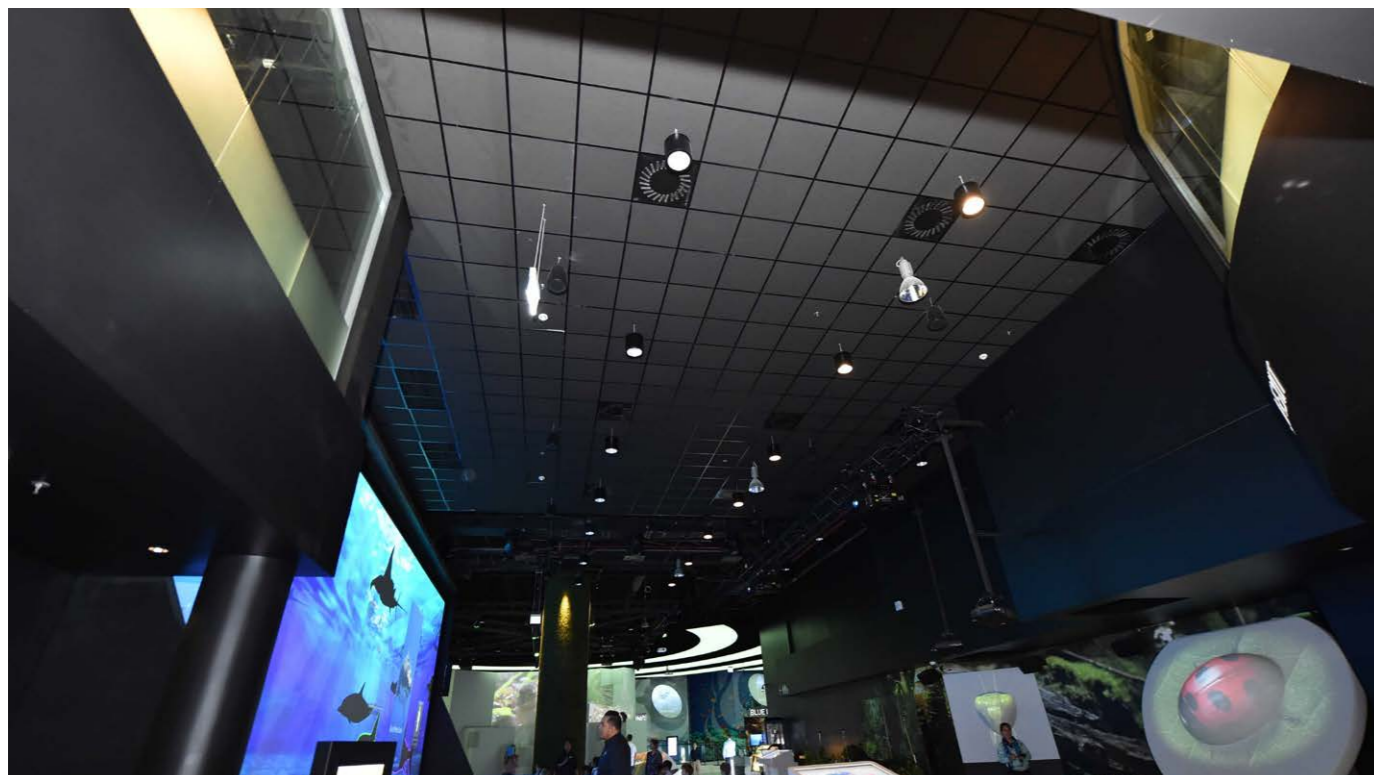
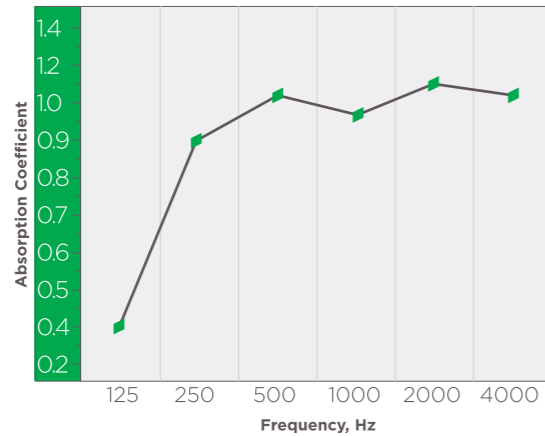
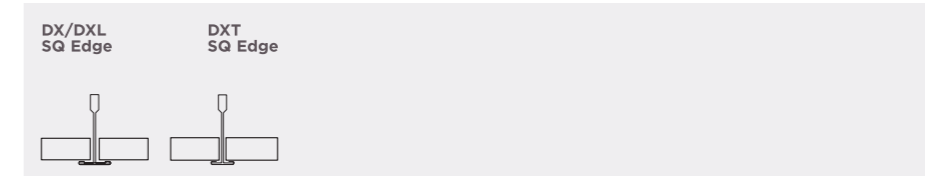


TABLE OF PERFORMANCE

Item	Size (mm)	Edge Detail	NRC	CAC	Recycled Content	VOC Emission
HC6225B HC2425B	600*1200*25 610*1220*25	SQ	0.95	25	40%	N/A
HC6625B HC2225B	600*600*25 610*610*25	SQ	0.95	25	40%	N/A
HC6240B HC2440B	600*1200*40 610*1220*40	SQ	1	31	40%	N/A
HC6640B HC2240B	600*600*40 610*610*40	SQ	1	31	40%	N/A
HCE6240B-AF HCE2240B-AF	600X1200X40 610X1220X40	SQE	0.9	33	40%	N/A
HCE6650B HCE2250B	600X600X50 610X610X50	SQE	0.95	32	40%	N/A
HCE6250B HCE2450B	600x1200x50 610X1220X50	SQE	0.95	32	40%	N/A

EDGE DETAILS



SPECIFICATION DETAILS

Halcyon™ Black Acoustical Ceiling meets the requirements in accordance with ASTM E1264.

Thickness: 25mm, 40mm, 50mm

Size: 600 x 600mm, 610 x 610mm, 600 x 1200mm, 610 x 1220mm

Edge Detail Trim: Square, Square Encapsulated

Noise Reduction Coefficient [NRC]: [0.95] [1.0]

Ceiling Attenuation Class [CAC]: [25 - 35 dB]

Light Reflectance Coefficient [LR]: 0.88

Color: Black Color similar to RAL 9004

Surface Burning Characteristics per ASTM E 84: Class A, Flame Spread: 25, Smoke development: 50

Thermal Resistance: 25mm [0.74m² °K/W - R 4.2], 40mm [1.176m² °K/W - R 6.6], 50mm [1.47m² °K/W - R 8]

Humidity Resistance: Maximum 99% RH / 40°C for ClimaPlus

Weight: 25mm [2.4 kg/m²], 40mm [3.4 kg/m²], 50mm [4.5 kg/m²]

Mold Prevention: Fiberglass substrate is inherently resistant to the growth of mold and mildew

Washability / Scrubbability as per ASTM D4828 & D2486: Exceeds 1000 Wash/Scrub Cycles without surface break or the extent of abrasion

Relevant LEED Credit: EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 | IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 | IEQ Credit 8.1 | IEQ Credit 9

CNC3

LOUNA™ HI CAC BLACK

FEATURES & BENEFITS



- Specifically engineered when high acoustic performance is required and satisfying high frequency performance criteria for cinema application.
- Soft Fiber substrate and Wet Felted Mineral Fiber Substrate finished with Painted Fiber Glass scrim and sealed edge
- Exceptional Sound Absorption with NRC values up to 0.9 and CAC up to 42dB
- Impact & Scratch Resistant finish scrim
- Available in Plank Sizes compatible with Logix Integrated Ceiling System

Applications:

- Cinemas and operating theatres
- Convention halls and concourses
- Restaurants
- Bowling Alleys

SOUND ABSORPTION 50MM

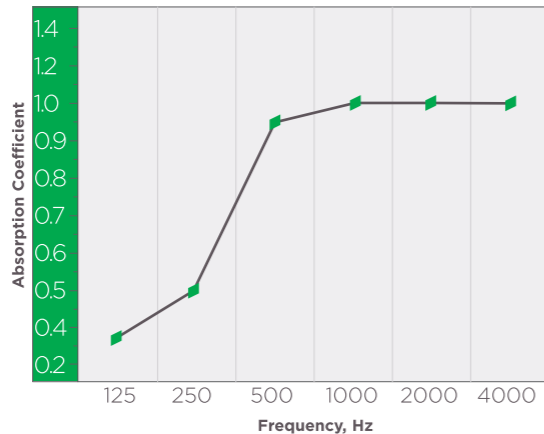
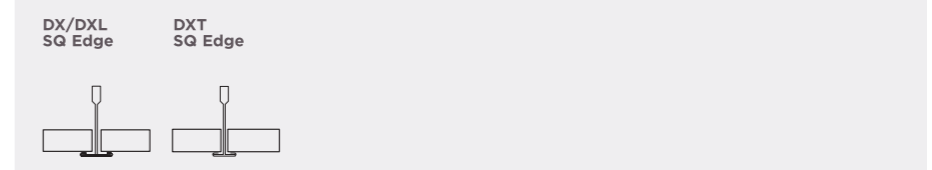


TABLE OF PERFORMANCE

Item	Size	Edge Detail	NRC	CAC	Recycled Content	VOC Emission
LCXE6643B-MF LCXE2243B-MF	600*600*43 610*1220*43	SQE	0.85	42	41%	N/A
LCXE6243B-MF LCXE2443B-MF	600*1200*43 610*1220*43	SQE	0.85	42	41%	N/A
LCXE6650B-MF LCXE2250B-MF	600*600*50 610*610*50	SQE	0.9	40	40%	N/A
LCXE6250B-MF LCXE2450B-MF	600*1200*50 610*1220*50	SQE	0.9	40	40%	N/A

EDGE DETAILS



SPECIFICATION DETAILS

LOUNA™ Hi CAC Black Acoustical Ceiling meets the requirements in accordance with ASTM E1264.

Thickness: 43mm, 50mm

Size: 600 x 600mm, 610 x 610mm, 600 x 1200mm, 610 x 1220mm

Edge Detail Trim: Square Encapsulated

Noise Reduction Coefficient [NRC]: [0.85] [0.90]

Ceiling Attenuation Class [CAC]: [40 - 42 dB]

Color: Black Color similar to RAL 9005

Surface Burning Characteristics per ASTM E 84: Class A, Flame Spread: 25, Smoke development: 50

Thermal Resistance: 43mm [0.977m² °K/W - R 5.5], 50mm [1.176m² °K/W - R 6.6]

Humidity Resistance: Maximum 99% RH / 40°C for ClimaPlus

Weight: 43mm [7.5 kg/m²], 50mm [8 kg/m²]

Mold Prevention: Soft fiber substrate is inherently resistant to the growth of mold and mildew

Washability / Scrubbability as per ASTM D4828 & D2486: Exceeds 1000 Wash/Scrub Cycles without surface break or the extent of abrasion

Relevant LEED Credit: EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 | IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 | IEQ Credit 8.1 | IEQ Credit 9

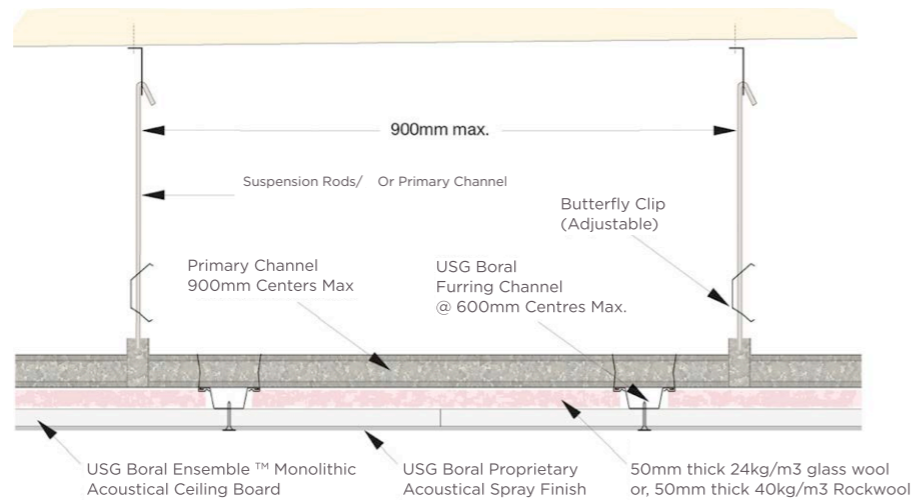
CNC4

ENSEMBLE™ MONOLITHIC ACOUSTICAL CEILING SYSTEM

DESCRIPTION

• **USG Boral Ensemble™ Monolithic Acoustical Ceiling System** is a lightweight, non-combustible, high acoustic seamless ceiling system consist of USG Boral Ensemble™ Brand Panels 12.5mm thick screw fixed to framing system and finished using USG Boral Ensemble Spray Applied Finish.

- USG Boral Ensemble™ Brand Panels 12.5mm thick



CEILING CONSTRUCTION

Lining: USG Boral Ensemble™ Brand Panels 12.5mm thick

Framing: USG Boral Primary Channel
USG Boral Furring Channel
USG Boral Wire Connecting Clip
USG Boral Primary Channel Bracket
USG Boral Butterfly Clip
USG Boral Suspension Rod

Insulation: as required

Fastener: 25mm Type 'S' Needle Point Screws

Joint Tape: USG Boral Paper Tape 50mm width

Jointing Compound: 1st and 2nd Coat : Sheetrock® All Purpose Joint Compound or USG Boral Premium Premix
3rd Coat : Sheetrock® Lightweight All-Purpose Joint Compound

Final Finish: USG Boral Ensemble Spray Applied Finish

To ensure the performance of this system meets the USG Boral Warranty requirements, only USG Boral products are to be used and installed correctly in accordance to USG Boral specifications and recommendations.

APPLICATION

- Cinemas and operating theatres
- Open-plan Areas
- Media Rooms
- Receptions & Lobby Areas
- Restaurants
- Convention halls and concourses

PERFORMANCE

Mass: 6.7 kg/m²

Acoustic rating : NRC 0.65 and α_w 0.70

Insulation : Glass wool 50mm thick 24kg/m³ or Rockwool 50mm thick 40kg/m³ both faced with back fleece

Light reflectance : 0.85

Fire rated: Class A

Finish: White, seamless, spray-applied fine texture with low VOC - emitting material. All colors on the panton range are available

To ensure the performance of this system meets the USG Boral Warranty requirements, only USG Boral products are to be used and installed correctly in accordance to USG Boral specification and recommendations.

ARCHITECTURAL SPECIFICATION

USG Boral Ensemble™ Monolithic Acoustical Ceiling System consist of USG Boral Ensemble™ Brand Panels 12.5mm thick screw fixed staggered onto USG Boral Dry Wall ceiling system (Primary Channel @ 900mm centers max., Furring Channel @ 600mm centers max., Suspension Bracket to connect rod and Primary Channel, 50mm thick 24kg/m³ glass wool or 50mm thick 40kg/m³ Rockwool insulation with back fleece placed on top of panels, board joints to be flush finished using USG Boral Paper Tape 50mm width and SHEETROCK® All Purpose Joint Compound or USG Boral Premium Premix (1st and 2nd coat) and SHEETROCK® Lightweight All-Purpose Joint Compound (3rd coat) jointing compound.

All board surface to be final finished with 2 - 3mm thick **USG Boral Ensemble Spray Applied Finish**, all fixed in accordance to manufacturer's instruction and recommendation.



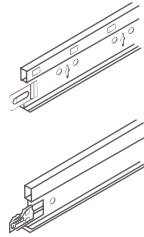
All colors on the panton range are available as final paint coat for USG Boral Ensemble™ Monolithic Acoustical Ceiling

DONN® EXPOSED GRID

DONN®
CENTRICITEE
15mm
EXPOSED
GRID



15mm Tee
System

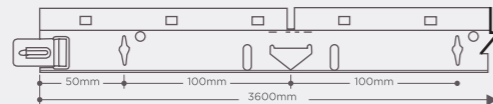


	PROFILE	PRODUCT	PROFILE HEIGHT	COMPONENT LENGTH	THICKNESS	PANEL EDGE OPTIONS
MAIN TEE	Deep	Main Tee-Centricitee Heavy Duty- Fire Rated	38mm	3600/3660mm	0.38mm	A,B,C,D
CROSS TEE	Deep	Cross Tee (Heavy) Cross Tee (Heavy)	38mm 38mm	1200mm 600mm	0.30mm	A,B,C,D
	A Square Edge (SQ)				Patented self centering device in cross tees automatically centers ceiling panel grid module	
USG Boral ME Panel Edge Detail for Cinema Applications						

Fire Rated Option

DONN® DXT15 is available only as a Fire Rated option providing protection up to 2 hours, subject to assembly design

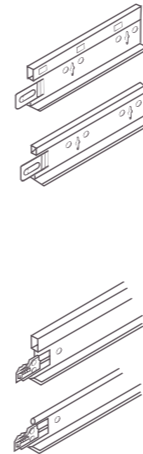
Main Tee (Fire Rated)



DONN® DX
24mm
EXPOSED GRID



24mm Tee
System

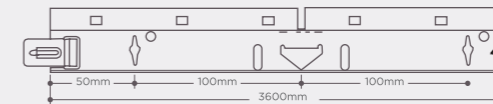


	PROFILE	PRODUCT	PROFILE HEIGHT	COMPONENT LENGTH	THICKNESS	PANEL EDGE OPTIONS
MAIN TEE	Deep	Heavy-Standard Fire Rated	38mm 38mm	3600/3660mm	0.30mm 0.38mm	A,B,C,D A,B,C,D
	Medium	Intermediate Duty	33mm	3600/3660mm	0.30mm	A,B,C,D
	CROSS TEE	Deep	Fire Rated Fire Rated	38mm 38mm	1200/1220mm 600/610mm	0.30mm
Shallow		Light Duty Light Duty	25.5mm 25.5mm	1200/1220mm 600/610mm	0.30mm	A,B,C,D A,B,C,D
		A Square Edge (SQ)				
USG Boral ME Panel Edge Detail for Cinema Applications						

Fire Rated Option

DONN® DXL is available as a Fire Rated option providing protection up to 2 hours, subject to assembly design

Main Tee (Fire Rated)



CINEMA'S INTERIOR FINISHES



FINISHING SOLUTIONS

USG Boral ME manufactures and supplies an extensive range of high-quality and consistent interior finishes including bedding and base compounds, finishing compounds, all purpose for patching and skimming to transform your plasterboard and substrates joints, angles and fastener heads into one seamless surface

CONVENTIONAL WEIGHT JOINT COMPOUNDS

USG Boral ME ready-mixed joint compound are drying-type products that are vastly superior to ordinary ready-mixed compound and are preferred for consistently high-quality work. These formulations are specially premixed to a creamy, smooth consistency essentially free of crater-causing air bubbles. They offer excellent slip and bond and easy workability. Available for hand-tools or machine-tool applications.

SHEETROCK® ALL PURPOSE JOINT COMPOUND

Air-drying compound suitable for all three coat applications and for skimming coat for all plasterboard joints, angles and fastener heads. Complies with ASTM C475.



- Premium grade all purpose joint compound.
- Excellent for skim coating, embedding tape and for filling, finishing.
- Excellent workability, easy application by hand-tool or special mechanical tools.
- Great bond, hard-finish surface and excellent crack-resistance.
- Can be sanded by hand-tool or with mechanical sanding tools.
- Excellent surface for painting.
- Asbestos-free product and qualifies as a low VOC emitting material.

PREMIUM PREMIX JOINT COMPOUND

Air-drying compound suitable for all three coat applications and for skimming coat for all plasterboard joints, angles and fastener heads. Complies with ASTM C475.



- Minimal shrinkage.
- Easy sanding.
- Exceptional crack-resistance.
- Excellent bond.
- Smooth finish.
- Asbestos-free product and qualifies as a low VOC emitting material.

SHEETROCK® DRYING TYPE POWDER JOINT COMPOUNDS

DRYING-TYPE POWDER JOINT COMPOUNDS

These compounds are ideal for heavy fills and they sand easily, allowing fast, smooth finishing. USG Boral ME Powder Joint Compound can be used for a variety of applications including: texturing, filling, smoothing, patching and skimming of interior and exterior plasterboard, glass-mat and concrete substrates. Fast in dry and more economical grade Joint Compound products.

Sheetrock® Brand All Purpose Powder Joint Compounds are top quality, conventionally drying products easy mixing, smooth application and ample working time. Designed for embedding tape, for fill coats and finishing over drywall joints, corner bead, trim and fasteners. Also used for simple, hand applied, texture finishes for decorating variety.



- Fast smooth application.
- Three job-tested types—taping, topping, all purpose.
- Easy to mix, offer ample working time.
- Retain consistency—will not thin out or settle.
- Can be used for simple, hand-applied textures.
- Asbestos-free product and qualifies as a low VOC emitting material.

GENERAL PURPOSE BASECOAT

General Purpose Basecoat is composed of Portland Cement and dry latex polymers specially designed for Glass-Mat and Concrete exteriors walls, ceilings system, (EIFS Exterior Insulation and Finishing System), also it can be used for interior applications.



- Specially formulated for cement board system.
- High flexibility.
- Good bonding to the substrate.
- Used for interior and exterior applications
- Asbestos-free product.
- Asbestos-free product and qualifies as a low VOC emitting material.

DUROCK® BASECOAT

USG Boral Durock® Basecoat is composed of Portland Cement and dry latex polymers specially designed for Durock® Cement Board exteriors walls, ceilings and DUROSCREEN™ 2100 System (EIFS Exterior Insulation and Finishing System), also it can be used for Durock® Cement Board interior applications.



- Specially formulated for Durock® system.
- High flexibility and excellent crack resistance.
- Exceptional bond to the substrate.
- Used for interior and exterior applications
- Asbestos-free product.
- Asbestos-free product and qualifies as a low VOC emitting material.

JOINT TAPE

From the originator of modern joint finishing, USG Boral reinforced tapes add strength and crack resistance for smooth concealment at flat joints and inside corners. USG Boral joint tapes are high quality, easily applied and are available for specialized uses.

SHEETROCK® PAPER JOINT TAPE

USG Sheetrock® Paper Joint Tape is a special fiber tape designed for use with USG Boral ME joint compounds to reinforce joints and corners in gypsum drywall interiors. USG Boral ME Sheetrock® Paper Joint Tape resists cracking and stretching and is lightly sanded for increased bond.



- High tensile strength to resist tearing, stretching and distortion.
- Wafer-thin paper for easier joint treatment.
- Roughened surface for superior bond.
- Accurately center-creased to improve corner treatment.

SHEETROCK® FIBERGLASS DRYWALL TAPE

Sheetrock® Brand Fiberglass Drywall Tape is made with a unique cross-fiberglass construction to provide greater drywall joint strength than conventional fiberglass mesh tapes. Sheetrock® Fiberglass Drywall Tape resists shrinking, tearing, stretching and distortion. It also resists joint cracking that can occur when conventional fiberglass mesh tape is used.



- Self-adhesive tape goes on quickly eliminates bedding coat and provides smooth finished joints with just two coats.
- Use Durock® Basecoat Setting-Type Joint Compound or Sheetrock® Brand Durabond® Setting-Type Joint Compound for first coat over tape.
- Fewer coats of joint compound.
- Ideal for patching.
- Simpler and quicker joint finishing.

DUROCK® BRAND INTERIOR TAPES

Special for joint reinforcement of USG Durock® Cement Board, Securock® Glass-Mat Board and USG Fiberock® Board.



- Alkali-resistant glass-fiber construction.
- Reinforces joints and corners of cement board in exterior substrate applications and interior tile or thin-brick applications.
- 2" wide joint reinforcement.
- Exceptional crack resistance

DUROCK® BRAND EXTERIOR TAPES

Special for joint reinforcement of USG Durock® Cement Board, Securock® Glass-Mat Board and USG Fiberock® Board.



- Alkali-resistant glass-fiber construction.
- Reinforces joints and corners of cement board in exterior substrate applications and interior tile or thin-brick applications.
- 4" wide joint reinforcement.
- Exceptional crack resistance

PREPARATION SOLUTIONS

SHEETROCK® BRAND TUFF HIDE™ PRIMER-SURFACER

Skim coats and primes in one spray application



- Achieves a Level 5 finish faster.
- High build spray for a smoother, more beautiful finish.
- Durable coating hides minor surface defects.
- Excellent for critical light areas.
- Ideal finish for ceilings.
- Dries white; can be tinted to match final top coat.
- For professional use only.

SHEETROCK® BRAND ACOUSTICAL SEALANT

Makes promised ratings a reality



- Excellent sound-flanking material (supports high STC ratings).
- Superior performance as a fire caulk in UL Classified joint and through penetration firestop systems.
- Ideal for use in smoke and/or sound assemblies.
- Meets ASTM C834 specifications for latex sealants.
- Grade 0°F (-18°C) low temperature flexibility, strong bond.
- Low VOC.

FINISHING SOLUTIONS

SHEETROCK® BRAND ENSEMBLE FINISH

Acoustical monolithic finish for Ensemble™ Acoustical Plasterboard



- Fine-textured Finish for USG Boral Ensemble™ Acoustical Plasterboard Ceiling.
- Acoustically transparent, technologically advanced formulation
- White color with a fine, granular texture
- High light reflectance (LR-0.85)
- Lightweight, only 12kg per 17L pail
- Quick drying, recoat in 20-40 minutes
- Applied with pneumatic spray equipment for economical installation



COMPANY CERTIFICATION AND COMPLIANCE

ENVIRONMENTAL STATEMENT

Recycling is only a part of the story. Careful production methods are good for the environment and increase efficiency.

Our practices include:

- Using clean fuels (NG)
- Treating and recycling water (Saving of 300 m3 daily at USG Boral ME)
- Reducing waste (Recycling): Waste from the production line and panels chipped or broken during processing are returned to the manufacturing cycle, keeping them out of landfills
- Offering specialized ceiling panels and wallboards: High-durability acoustical panels extend the useful life of ceilings and walls and reduce operating and replacement costs. Ceiling panels with high light reflectance can enhance indirect lighting, reducing the number of light fixtures needed and lowering energy consumption
- Recycling old ceiling and wallboards panels
- Product life cycle: USG Boral ME's commitment to health, safety and environmental responsibility is evident at every stage in the life cycle chain. USG Boral ME has been granted to ISO 14000 certificate. This indicates that environmental aspects such as emissions into the air, waste handling, utilization of natural resources and energy efficiency are paid attention to at USG Boral ME and the environmental impacts of production are constantly improved. In addition to ISO 14000 certification, USG Boral ME is working to prove the environmental profile of USG Boral ME products by acquiring EPD (Environmental Product Declaration) to it's Ceiling family range.

LEED REQUIREMENTS

USG Boral team can assist you with the required LEED documentation whether you require pre-consumer or post-consumer recycled content for the material being used or other documents.

ASBESTOS FREE

USG Boral acoustical ceiling tiles, gypsum boards and Jointing Compounds have been tested for asbestos content where no asbestos content result was obtained.

GREEN FACTS

- More than 70% of manufacturing waste is recycled into ceiling products
- The majority of the Ceilings product offering contains 50% recycled content or higher
- USG Boral ME mineral fiber ceiling panels incorporate steel mill slag waste as well as post-consumer waste
- USG Boral ME has an Environmental certificate for it's facility in Dammam for compliance with PME (Presidency of Metrology and Environment) according to Local regulations
- All USG Boral ME panels feature low VOC emission and comply with the Collaborative for High Performance Schools (CHPS) standards

ISO CERTIFICATION

USG Boral Middle East is up to date with the latest ISO 9001:2015 and ISO 14001:2015 Certifications.



Australia
China
India
Indonesia
Malaysia
Middle East
New Zealand
Thailand
Philippines
Singapore
South Korea
Vietnam

**7410 (Wasil), Street #23, Cross 76, 2nd Industrial City
Dammam 34326-4201, Kingdom of Saudi Arabia**

+966 13 812 0095 info@usgme.com