SOLUTION
CATALOGUE

CINEMA & THEATER
ARCHITECTURAL HANDBOOK

USG ME
INNOVATIVE SOLUTIONS. EVERYTIME.

VER. 03 /2023

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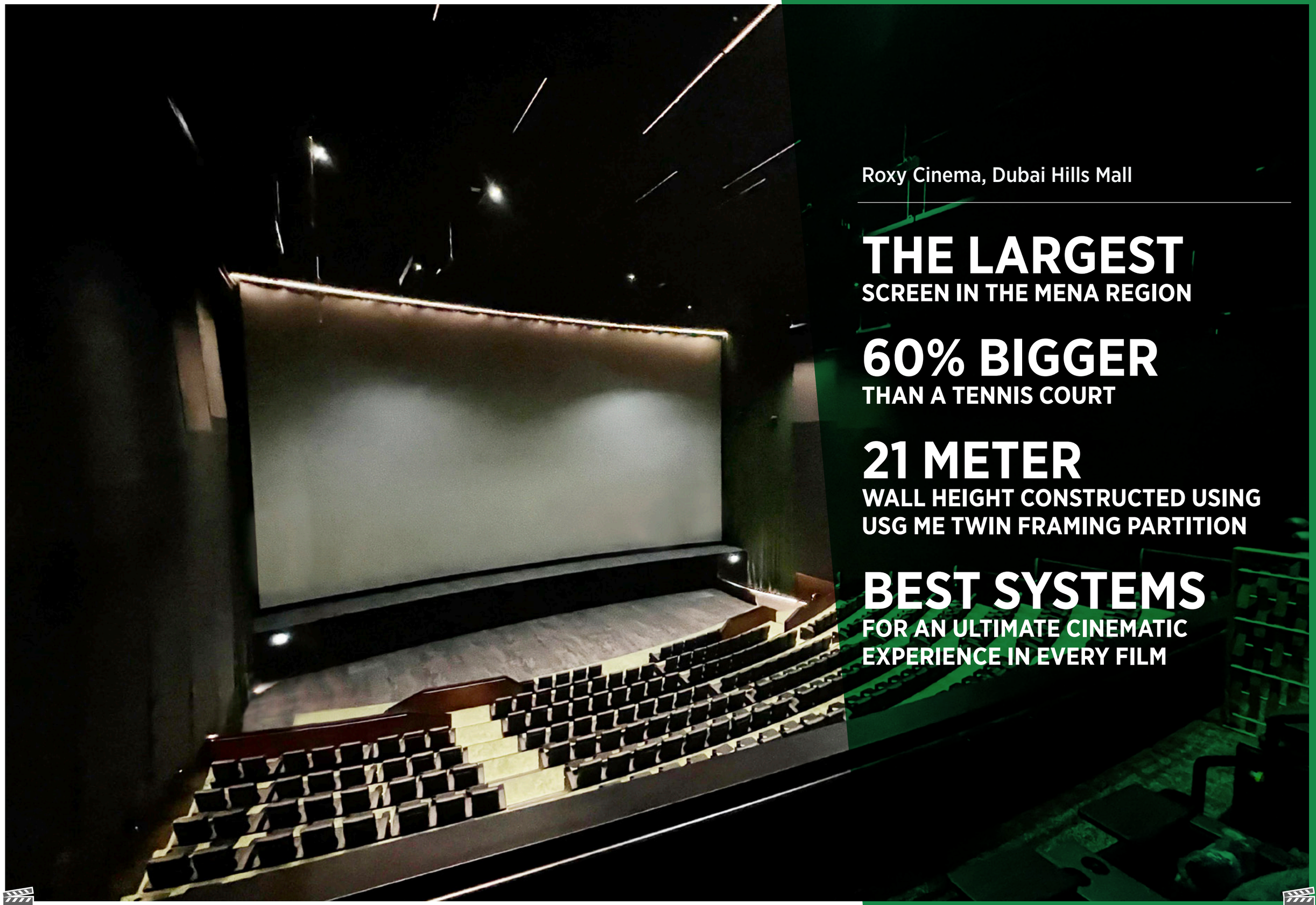


Roxy Cinema, Dubai Hills Mall

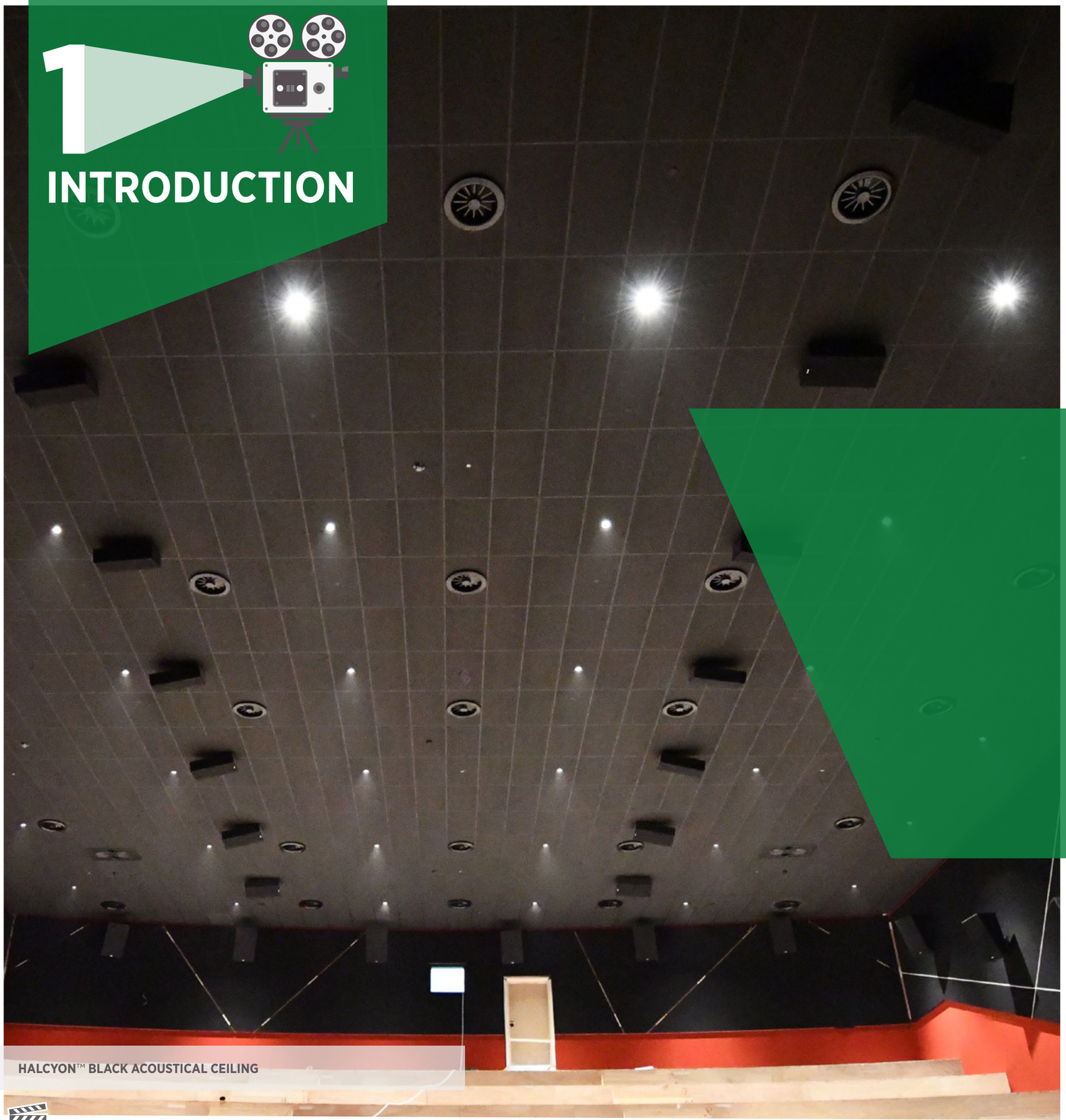
THE LARGEST
SCREEN IN THE MENA REGION

60% BIGGER
THAN A TENNIS COURT

21 METER
WALL HEIGHT CONSTRUCTED USING USG ME TWIN FRAMING PARTITION

BEST SYSTEMS
FOR AN ULTIMATE CINEMATIC EXPERIENCE IN EVERY FILM

1 INTRODUCTION



HALCYON™ BLACK ACOUSTICAL CEILING

INTRODUCTION

Your Auditoria Architectural Finishes Supplier.

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

- Our systems are compatible with MEP and Lighting.
- Compatibility with claddings (Metal, Stone, Tile and Wood)
- Compatibility with other materials and systems (Audio-Visual Systems)

USG 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.

We have a technical team that offers technical support for all cinemas projects at no cost whenever it is required by the clients, consultants or contractors.

SINGLE SOURCE MANUFACTURER FOR CEILING SYSTEMS AND DRYWALL PARTITIONS ASSEMBLIES.

CEILINGS SOLUTIONS

METAL CEILING SOLUTIONS
ACOUSTICAL GYPSUM CEILING
SOFT FIBER CEILING
MINERAL FIBER CEILING
WOOD WOOL CEILING
GYPSUM CEILING TILES
SUSPENDED CEILING GRID
SUSPENDED DRYWALL CEILING

DRYWALL ASSEMBLIES

SKYROCK® BRAND GYPSUM BOARD
SHEETROCK® BRAND GYPSUM BOARD
SOLIDROCK® CEMENT BOARD
FIBEROCK® WALLBOARD
SECUROCK® BRAND GYPSUM BOARD
DUROCK® WALLBOARD
DRYWALL PARTITIONS METAL FRAMING
JOINT COMPOUNDS
PREPARATION SOLUTIONS
SURFACING SOLUTIONS

USG ME CINEMA PORTFOLIO

KINGDOM OF SAUDI ARABIA

- VOX Cinema, Al Jamea Mall
- VOX Cinema, Alqasr Mall
- VOX Cinema, Atyaf Mall
- VOX Cinema, Esplanade Mall
- VOX Cinema, Galleria -Jubail
- VOX Cinema, Hail Strip Mall
- VOX Cinema, Kingdom Tower
- VOX Cinema, Rakaa Mall
- VOX Cinema, Red Sea Mall
- VOX Cinema, Riyadh Front
- VOX Cinema, Riyadh Park
- VOX Cinema, Roof Mall
- VOX Cinema, Sahara Mall

UNITED ARAB EMIRATES

- VOX Cinemas in Al Hamra Mall, Ras Al Khaimah
- VOX Cinemas in Al Jimi Mall, Al Ain
- VOX Cinemas in Reem Mall, Abu Dhabi
- VOX Cinemas in Burjuman Center, Dubai
- VOX Cinemas in Mall of Emirates, Dubai
- VOX Cinemas in Fujairah City Center, Fujairah
- VOX Cinemas in Mercato Mall, Dubai
- VOX Cinemas in Mirdif City Center, Dubai
- VOX Cinemas in Yas Mall, Abu Dhabi
- VOX Cinemas in Zahia City Center, Sharjah

KUWAIT

- VOX Cinema, The Avenues Mall

BAHRAIN

- VOX Cinema, Bahrain City Center
- VOX Cinema, The Avenue

QATAR

- VOX Cinema, Doha oasis

OMAN

- VOX Cinema, Muscat Grand Mall

KINGDOM OF SAUDI ARABIA

- AMC Cinema, Al Aziz
- AMC Cinema, Al Dawadmi
- AMC Cinema, Alkhair Mall
- AMC Cinema, Hafr Al Baten
- AMC Cinema, Panorama Gallery Mall
- AMC Cinema, Stars Avenue Mall

KINGDOM OF SAUDI ARABIA

- Empire Cinema, Al Ahsa
- Empire Cinema, Al Othaim Mall-Riyadh
- Empire Cinema, Al Rashid Mall-Khobar
- Empire Cinema, Hail
- Empire Cinema, Madinah
- Empire Cinema, Rabwa

KINGDOM OF SAUDI ARABIA

- Cinepolis Cinema, Al Jamea Plaza

KINGDOM OF SAUDI ARABIA

- Reel Cinema, Granada Mall

OMAN

- Cinepolis Cinema, Avenue Mall
- Cinepolis Cinema, Oasis Mall Sohar

UNITED ARAB EMIRATES

- Reel Cinemas in Agora Mall, Dubai
- Reel Cinemas in Dubai Mall, Dubai
- Reel Cinemas in Dubai Marina Mall, Dubai

BAHRAIN

- Cinepolis Cinema, Atrium Mall

KINGDOM OF SAUDI ARABIA

- MUVI Cinema, Al Ahsa
- MUVI Cinema, Al Arab Mall
- MUVI Cinema, Al Salam Mall
- MUVI Cinema, Al Taif Mega Mall
- MUVI Cinema, Atelier Mall
- MUVI Cinema, Boulevard
- MUVI Cinema, Boulevard-Onaizah
- MUVI Cinema, Boulevard-Riyadh
- MUVI Cinema, Dharan Mall
- MUVI Cinema, Hamra Mall
- MUVI Cinema, Jubail Mall
- MUVI Cinema, Khaleej Mall
- MUVI Cinema, Mujan Mall
- MUVI Cinema, Nakheel Mall
- MUVI Cinema, Nakheel Mall-Buraida
- MUVI Cinema, Qurtuba Park Avenue-Riyadh
- MUVI Cinema, Tala Mall

BAHRAIN

- NOVO Cinemas, SEEF Muharraq

QATAR

- NOVO Cinemas, Grand Cinemas at Medina Centrale-Pearl Qatar
- NOVO Cinemas, Qatar Mall
- NOVO Cinemas, Tawar Mall

UNITED ARAB EMIRATES

- NOVO Cinemas in World Trade Center, Abu Dhabi
- NOVO Cinemas in Dubai Festival City, Dubai
- NOVO Cinemas in Mega Mall, Sharjah
- NOVO Cinemas in Sahara Center, Sharjah

KINGDOM OF SAUDI ARABIA

- Grand Cinema, Obhor Mall- Jeddah
- Grand Cinema, Taif Mall

UNITED ARAB EMIRATES

- Roxy Cinemas in Box Park, Dubai
- Roxy Cinemas in Dubai Hills Mall, Dubai
- Roxy Cinemas in City Walk, Dubai

BAHRAIN

- Cineco Cinemas, Oasis Mall
- Cineco Cinemas, Amwaj Island
- Cineco Cinemas, Liwan Seef

QATAR

- Cineco Cinemas, Doha City Center

UNITED ARAB EMIRATES

- Cine Royal in Deerfields Mall, Abu Dhabi
- Cine Royal in Khalidiya Mall, Abu Dhabi

OTHERS

KINGDOM OF SAUDI ARABIA

- Jeddah Super Dome

EGYPT

- Cairo Opera House

JORDAN

- Taj Mall Cinemas

QATAR

- Cinemaland, Land Mark Mall

UNITED ARAB EMIRATES

- Al Qana, Abu Dhabi
- Amazon Fulfillment Center, Abu Dhabi
- Centre of Curiosity Museum, Abu Dhabi
- Guggenheim Museum, Abu Dhabi
- Hudayriyat Surf Ranch, Abu Dhabi
- Natural History Museum, Abu Dhabi
- Sea World, Abu Dhabi
- Sega Orbi Entertainment Center, Dubai
- Warner Brothers Theme Park, Abu Dhabi
- Zayed National Museum, Abu Dhabi

TURKEY

- Yenisehir Cultural Center

NIGERIA

- Sky Cinemas, Lagos

CINEMA DRYWALL ASSEMBLIES

USG MIDDLE EAST

IS COMMITTED TO PROVIDE INNOVATIVE PRODUCTS AND SOLUTIONS TO BUILD YOUR CINEMA PROJECTS

TWIN FRAMING DESCRIPTION

The high wall system consist of two C-Studs braced together with a proprietary acoustic V brace supplied by USG Middle East. This high wall system can reach up to 20 meters height, particularly cinema walls where high range acoustic performance is required.

The acoustic V brace is spaced at 1200mm(min.) - 1800mm(max.) centers vertically connecting the C-studs profiles. Gypsum boards are then screw fixed to steel framing with bugle headed, drill point gypsum screws.

Acoustically the Twin Framing system complies with the airborne noise isolation requirements' of building code of using the appropriate cavity absorber that can meet a range of acoustic performance standards up to 78 dB for high acoustic requirement for both low and high frequencies recommended by acoustic consultants in their cinema design/construction acoustic reports.

WHY TWIN FRAME?

Twin frame provides design solution advantages to many building project requirement.

The superior acoustic performance of the partitions enable it to be applied in many areas where high weighted sound reduction (STC/ Rw dB) is required. The structural stability and acoustic performance of the Twin Frame partition makes it particularly suitable to be used outside the cinema industry for shopping center, residential, hotel development, commercial offices, healthcare, educational projects, sport stadiums and other high-wall buildings.

TWIN FRAMING ADVANTAGES

SOUND ISOLATION

The acoustic performance of the Twin Frame wall system can be tailored to design requirements by varying gypsum board layers and thicknesses and acoustic insulation. Up to 78 dB acoustical rating in addition to satisfying low frequency performance criteria for cinema construction.

FIRE RESISTANCE

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

ECONOMICAL

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

LIGHTWEIGHT

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

STRUCTURAL STABILITY

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

LIMITATIONS

- 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 Middle East wallboards. Performance results cannot be assumed with the use of other materials.

UTILITIES INSTALLATION UNDER CEILING MASS BARRIER

ACOUSTICAL HANGERS CONNECTING THE CEILING MASS BARRIER TO THE STRUCTURE

TYPICAL PENETRATION ABOVE THE CEILING MASS BARRIER

TYPICAL MALL - MULTI SCREEN COMPLEX

Walls over 3.6 meters in height can be constructed within the Twin Frame system that can be ideal wall partition solution applied to Mall - Multi Screen Complex development. The perfect 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 airborne noise transfer and is capable of a 78 dB weighted sound reduction. It also satisfies the low frequency performance criteria required for cinemas and theaters.

TWIN FRAMING APPLICATIONS

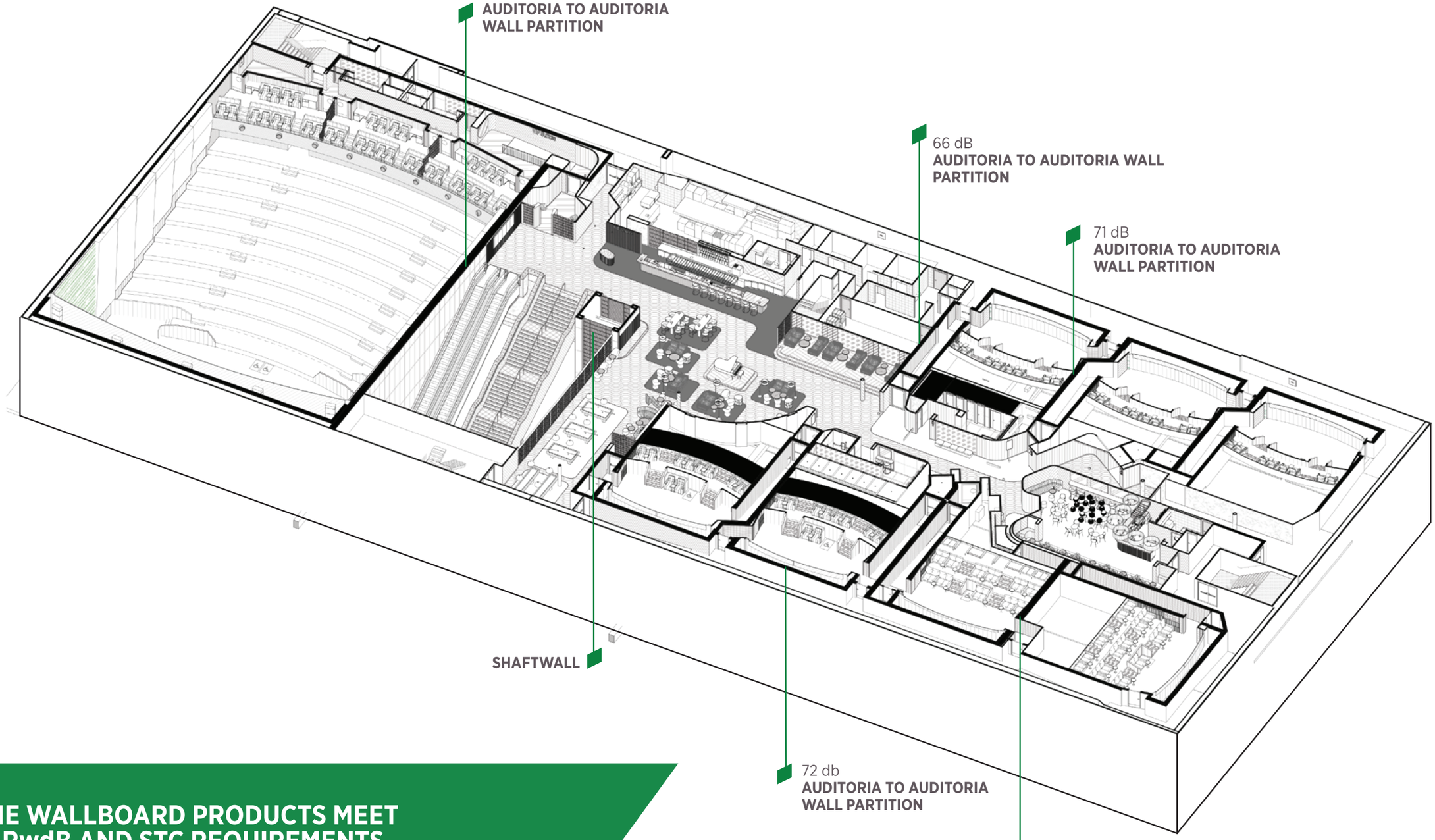
1. Built as separating wall between the interactive entertainment area and the cinemas, the Twin Frame partition will provide excellent acoustic isolation from the transmission of noise from one area to another.
2. The Twin Frame system enables the construction of very high cinema walls with superior 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 large space as the entrance to the shopping center is easily obtained using the Twin Frame wall system.

USG ME DRYWALL ASSEMBLIES ACOUSTIC PERFORMANCE

Location	Test Description	octave band center frequency, (Hz)							Acoustic Rating dB
		63	125	250	500	1000	2000	4000	
66dB AUDITORIA TO PUBLIC AREA WALL PARTITION	2 Layers 15.9mm Sheetrock® type X each side with cavity insulation	28	44	56	68	73	76	77	**66**
71dB AUDITORIA TO AUDITORIA WALL PARTITION	3 Layers 15.9mm Sheetrock® type X each side with cavity insulation	35	51	61	72	75	79	80	**71**
72dB AUDITORIA TO AUDITORIA WALL PARTITION	3 Layers 15.9mm Sheetrock® type X + 1 Layer 12.7 Fiberock on each side with cavity insulation	35	56	60	72	75	78	76	**72**
74dB AUDITORIA TO AUDITORIA WALL PARTITION	1 Layers 15.9mm Sheetrock® type X + 1 Layer Sheetrock® regular 12.7mm + 2 Layers 15.9mm Sheetrock® type X on each side with cavity insulation	38	57	73	79	79	78	70	**74**
78dB AUDITORIA TO AUDITORIA WALL PARTITION	1 Layers 15.9mm Sheetrock® type X + 1 Layer Sheetrock® regular 12.7mm + 2 Layers 15.9mm Sheetrock® type X on each side with cavity and special insulation	42	59	70	76	81	85	85	**78**

TYPICAL CINEMA FLOOR PLAN

TYPICAL CINEMA
FLOOR PLAN



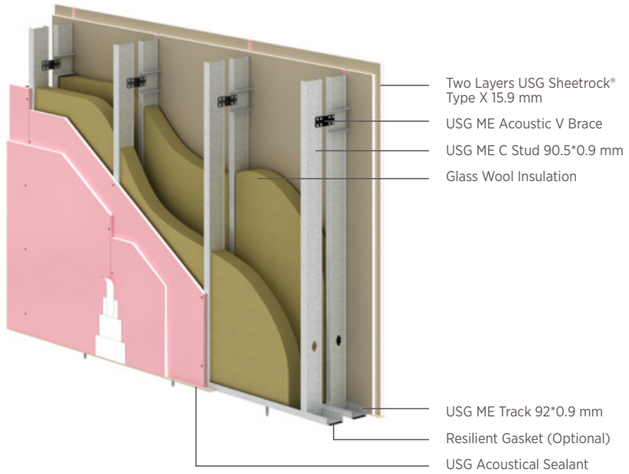
USG ME WALLBOARD PRODUCTS MEET BOTH RwdB AND STC REQUIREMENTS

Acoustic values are based on typical requirements and the location of the partition

CNW1

66 dB - 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 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 up to 92x90x0.9 mm

BOTTOM TRACK: Two 92x30 mm, 0.9 mm

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

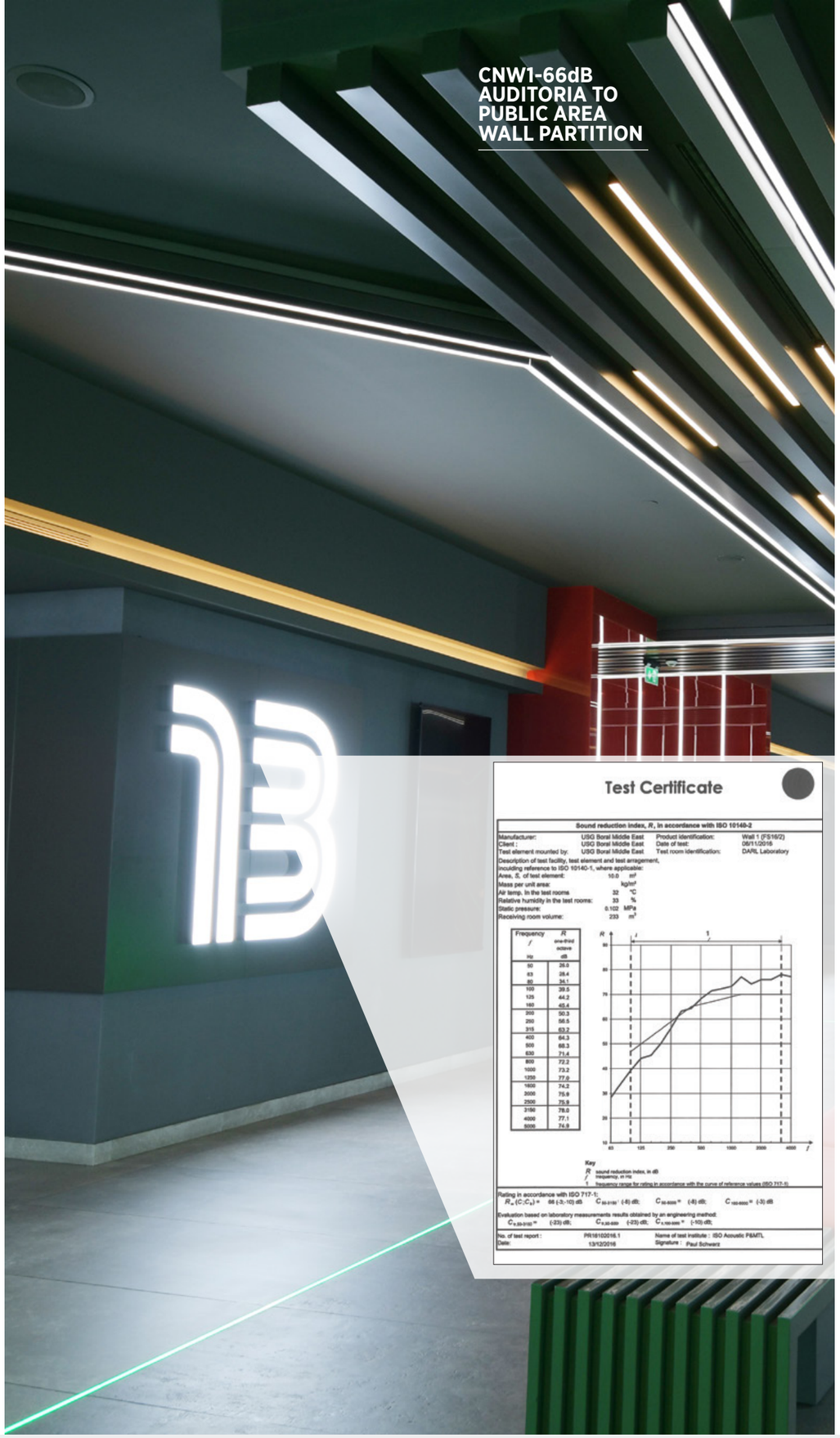
BRACING: 92 mm track + Acoustic V-brace 200 mm from top spaced at 1200 mm (min.), 1800 mm (max.) O.C.

JOINT COMPOUND: Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME 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

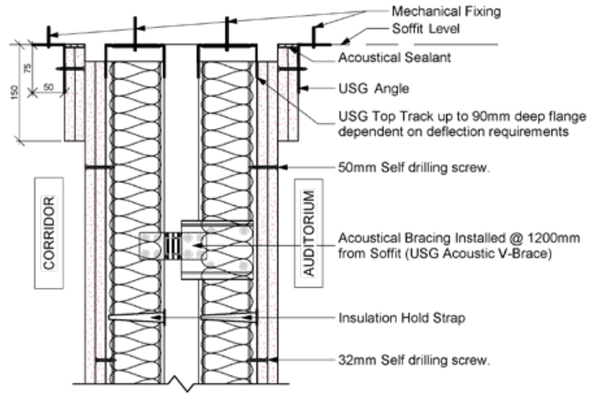


WALL PERFORMANCE CRITERIA

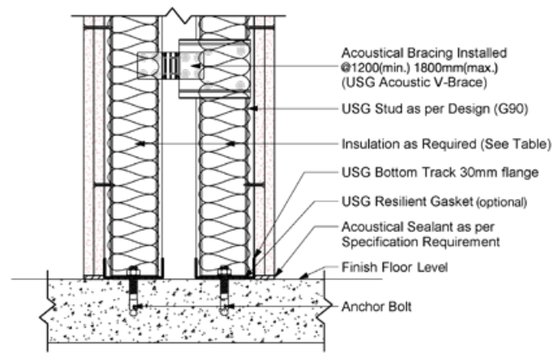
Performance Criteria	USG ME System	Project Requirements
Wall Width	400 mm	400 mm
System Fire Rating	2 hr.	2 hr.
Acoustic Rating	66 dB	66 dB

For maximum partition height; please contact USG ME technical department.

WALL SECTION - TOP

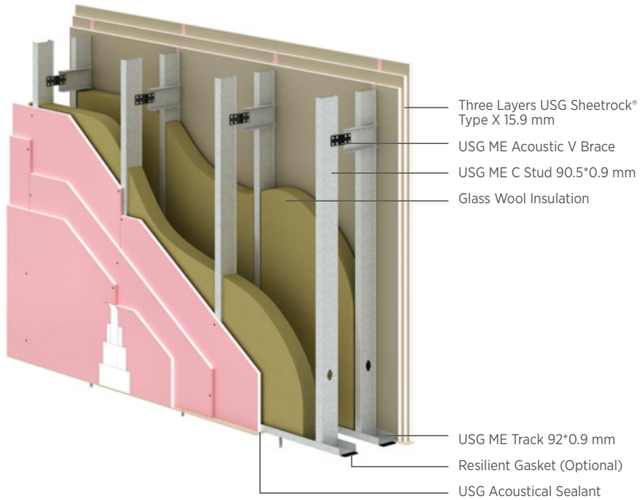


WALL SECTION - BOTTOM



71 dB - 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 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 up to 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 + Acoustic V-brace 200 mm from top spaced at 1200 mm(min.), 1800 mm(max.) O.C.

JOINT COMPOUND: Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME Brand Acoustical Sealant

TAPES: USG Sheetrock® Brand Paper Tape

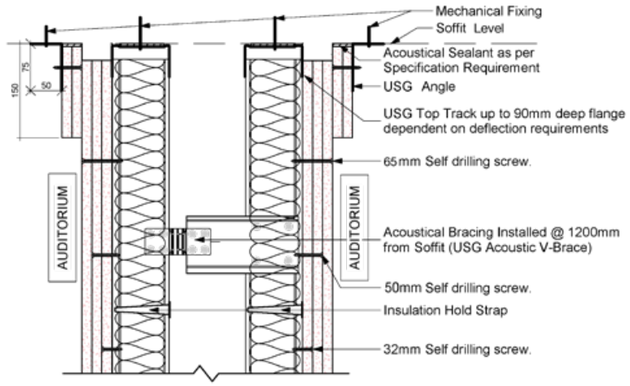
SCREWS: First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling

WALL PERFORMANCE CRITERIA

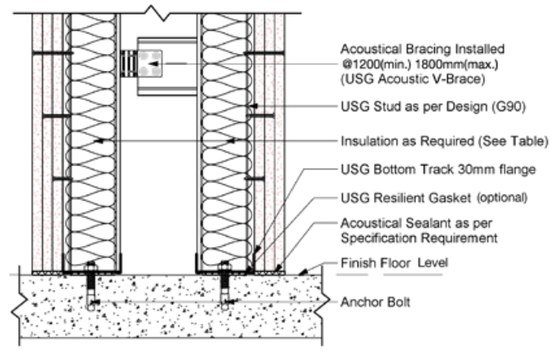
Performance Criteria	USG ME System	Project Requirements
Wall Width	400 mm	400 mm
System Fire Rating	3 hr.	2 hr.
Acoustic Rating	71 dB	71 dB

For maximum partition height; please contact USG ME technical department.

WALL SECTION - TOP



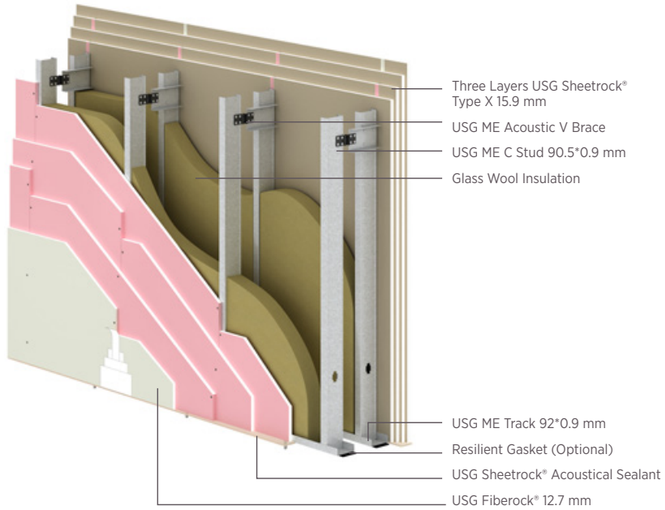
WALL SECTION - BOTTOM



CNW3

72 dB - AUDITORIA TO AUDITORIA WALL PARTITION

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 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 up to 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 + Acoustic V-brace 200 mm from top spaced at 1200 mm(min.), 1800 mm(max.) O.C.

JOINT COMPOUND: Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME 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

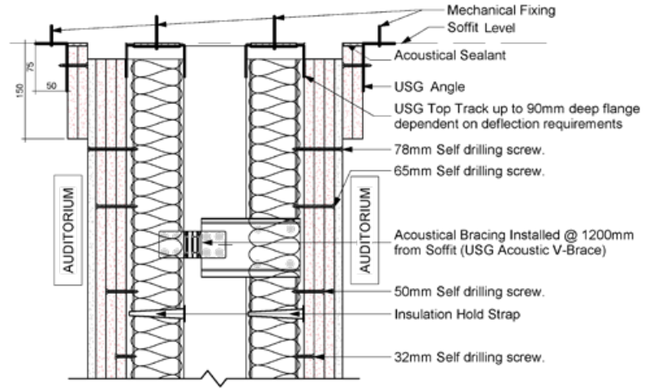
Test Certificate

WALL PERFORMANCE CRITERIA

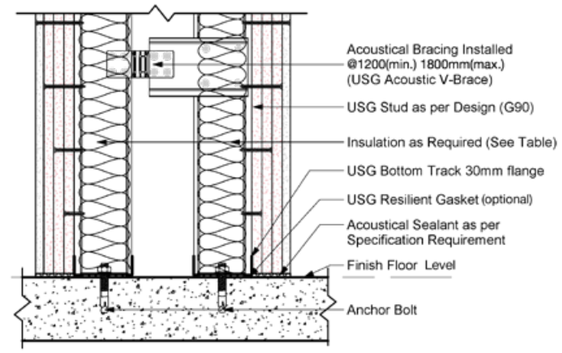
Performance Criteria	USG ME System	Project Requirements
Wall Width	400 mm	400 mm
System Fire Rating	3 hr.	2 hr.
Acoustic Rating	72 dB	72 dB

For maximum partition height; please contact USG ME technical department.

WALL SECTION - TOP



WALL SECTION - BOTTOM

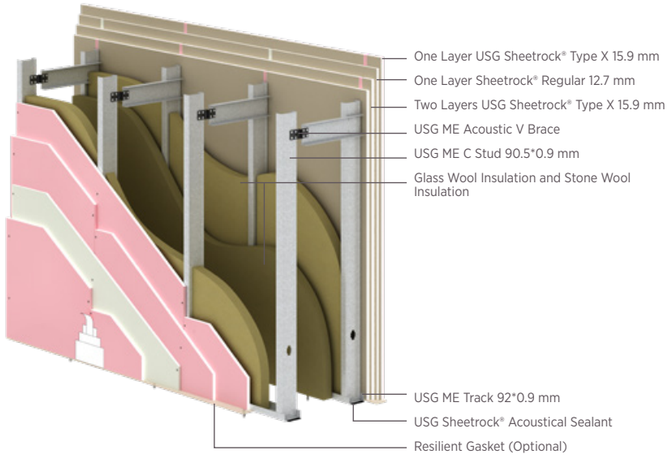


Fiberock® has a high pull out strength enabling the direct fixing of the speaker and handrail without having to use plywood pattressing.

CNW4

74 dB - AUDITORIA TO AUDITORIA WALL PARTITION

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



WALL CONSTRUCTION

OUTER LAYER: 1 layer of USG Sheetrock® Firecode Type X, 15.9 mm

SECOND LAYER: 1 layer of USG Sheetrock® regular 12.7 mm

INNER LAYER: Two layers of USG 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 up to 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 + Acoustic V-brace 200 mm from top spaced at 1200 mm(min.), 1800 mm(max.) O.C.

JOINT COMPOUND: Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME Brand Acoustical Sealant

TAPES: USG Sheetrock® Brand Paper Tape

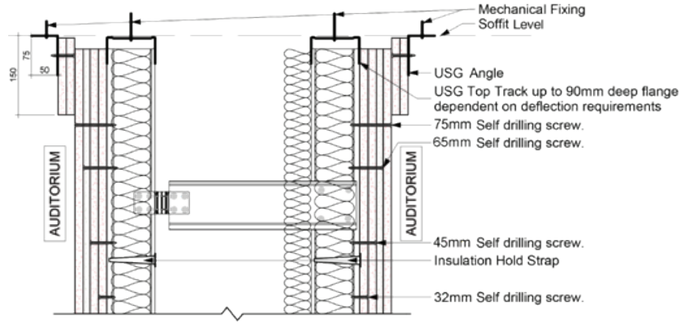
SCREWS: First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 45 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling
Forth Layer: 4.2 x 75 mm Screw, Bugle Head – Self Drilling

WALL PERFORMANCE CRITERIA

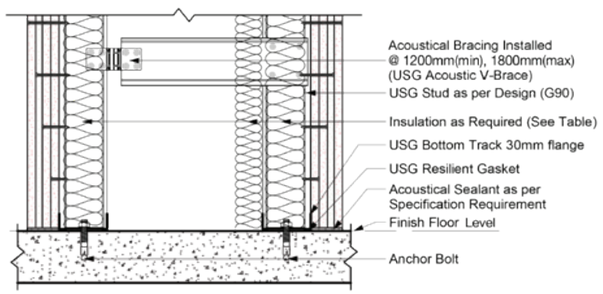
Performance Criteria	USG ME System	Project Requirements
Wall Width	600 mm	600 mm
System Fire Rating	3 hr.	2 hr.
Acoustic Rating	74 dB	74 dB

For maximum partition height; please contact USG ME technical department.

WALL SECTION - TOP



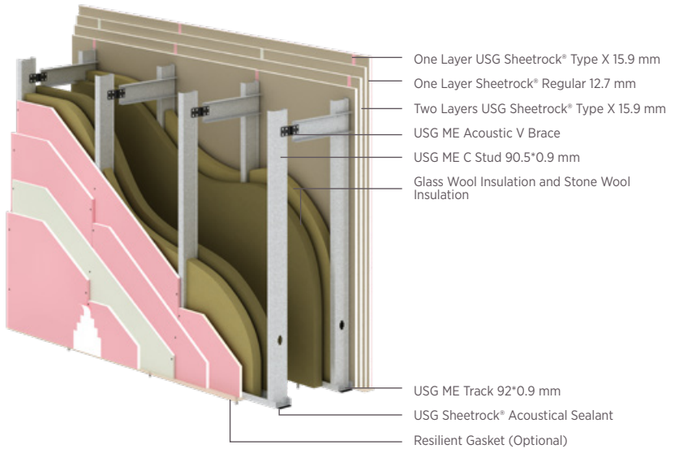
WALL SECTION - BOTTOM



CNW5

78 dB - AUDITORIA TO AUDITORIA WALL PARTITION

ACOUSTIC RATING UP TO 78 dB FOR THE TESTED TWIN FRAME CINEMA WALL PARTITION



WALL CONSTRUCTION

OUTER LAYER: 1 layer of USG Sheetrock® Firecode Type X, 15.9 mm

SECOND LAYER: 1 layer of USG Sheetrock® regular 12.7 mm

INNER LAYER: Two layers of USG 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 up to 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)
Two Layers 60 mm thick Stone Wool insulation (50 kg/m³)

BRACING: 92 mm track + Acoustic V-brace 200 mm from top spaced at 1200 mm(min), 1800mm(max.) O.C.

JOINT COMPOUND: Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME Brand Acoustical Sealant

TAPES: USG Sheetrock® Brand Paper Tape

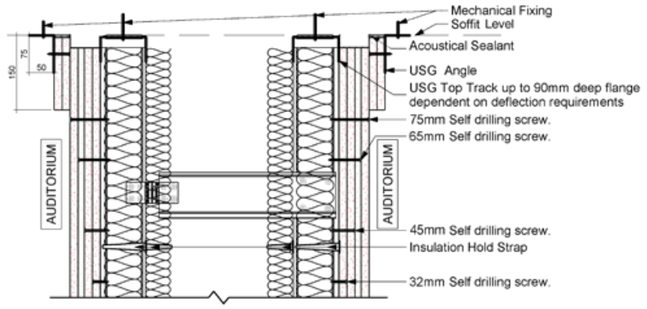
SCREWS: First layer: 4.2 x 32 mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 45 mm Screw, Bugle Head – Self Drilling
Third Layer: 4.2 x 65 mm Screw, Bugle Head – Self Drilling
Forth Layer: 4.2 x 75 mm Screw, Bugle Head – Self Drilling

WALL PERFORMANCE CRITERIA

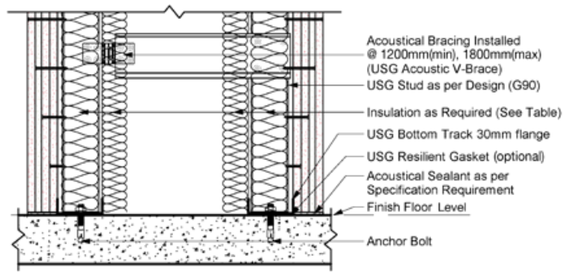
Performance Criteria	USG ME System	Project Requirements
Wall Width	600 mm	600 mm
System Fire Rating	3 hr.	2 hr.
Acoustic Rating	78 dB	78 dB

For maximum partition height; please contact USG ME technical department.

WALL SECTION - TOP



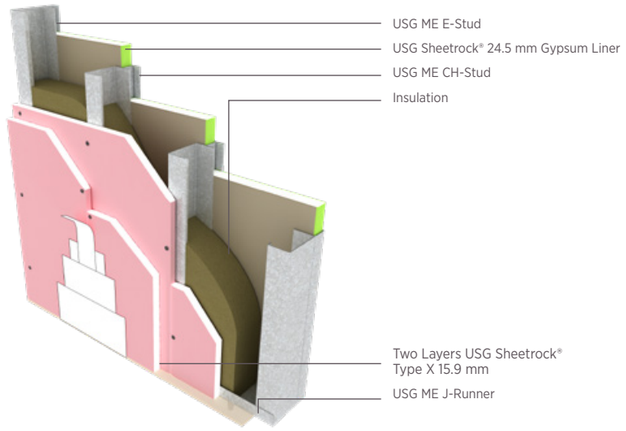
WALL SECTION - BOTTOM



CNSH1

SHAFTWALL

FIRE RATING UP TO 2 HOURS FOR THE TESTED WALL PARTITION



WALL CONSTRUCTION

SHAFTWALL LINERBOARD : One layer of 1" (25.4mm) thick USG Sheetrock® brand Gypsum Liner or Securock Liner® friction fit

GYPSUM BOARD : Two layers of USG Sheetrock® Firecode Type X, 15.9 mm

CH-STUD : 4" (101.6mm) x 0.9mm thick CH-Stud spaced at 600mm OC

E-STUD : 4" (101.6mm) x 0.9 mm thick E-Stud installed at corners

J-RUNNER : 4" (101.6mm)x0.9 mm thick J-Runner installed at top and bottom

INSULATION : 75mm thick Mineral Wool insulation (14kg /m³)

JOINT COMPOUND : Sheetrock® Brand All-Purpose Joint Compound or Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME Brand Acoustical Sealant

TAPES : USG Sheetrock® Brand Paper Tape

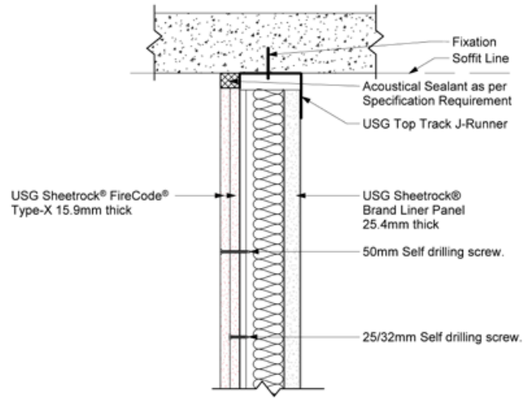
SCREWS : First layer: 4.2 x 32mm Screw, Bugle Head – Self Drilling
Second Layer: 4.2 x 50mm Screw, Bugle Head – Self Drilling

WALL PERFORMANCE CRITERIA

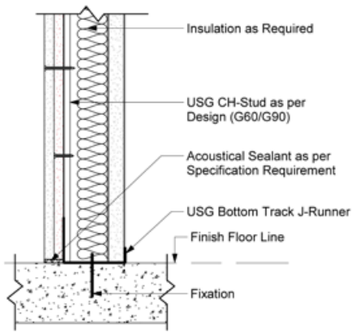
Performance Criteria	USG ME System	Project Requirements
Wall Width	127 mm	150 mm
System Fire Rating	2 hr.	2 hr.
Acoustic Rating	50 dB	50 dB

For maximum partition height; please contact USG ME technical department.

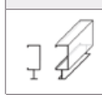
WALL SECTION - TOP



WALL SECTION - BOTTOM



SHAFTWALL STEEL COMPONENTS

CH Stud Sizes	J Runner Size	E Stud Sizes
63.5MM, 101.6MM, 152.4MM	63.5MM, 101.6MM, 152.4MM	63.5MM, 101.6MM, 152.4MM
		

PARTITION FORMAT

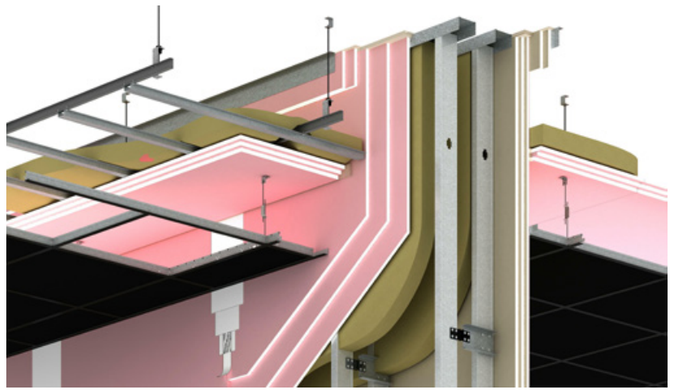
PARTITION FORMAT

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
IMAX	3 x 15.9mm Type X board and 1 x 12.7mm Sheetrock Regular Board on Twin frame 92 track	78dB	3Hrs	93kg/m²	600 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick to 92 x90 x 0.9mm thick	90.5x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm(min), 1800mm(max.) Ver c/c	58mm/ 0.60-1.5 thick	Double layers 75mm Glasswool (24kg/m³) and double layers 60mm stone wool (50kg/m³)	15.9mm, 12.7mm	4 layers + 1 additional layer for speaker if recommended	Type X + 12.7mm Regular board
Between Auditoriums- Extreme Wall 2	3 x 15.9mm Type X board + 1 - 12.7mm Sheetrock Regular Board on Twin frame 92 track	74dB	3Hrs	93kg/m²	600 mm	92 x 30 x 0.90mm thick	92 x 50 x 0.90mm thick to 92 x90 x 0.9mm thick	90.5x 34 x 0.90mm thick	600mm on O.C. twin frame structure	V brace at 1200mm(min), 1800mm(max.) Ver c/c	58mm/ 0.60-1.5 thick	Double layers 75mm Glasswool, one layer 50mm stone wool	15.9mm, 12.7mm	4 layers + 1 additional layer for speaker if recommended	Type X + 12.7mm Regular board \
Between Auditoriums- Extreme Wall 1	1x 12.7 Fiber rock Board+3 x 15.9mm Type X Both side on twin frame of 92 track	72dB	3Hrs	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(min), 1800mm(max.) Ver c/c	58mm/ 0.60-1.5 thick	Double layers 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 Auditoriums	3 x 15.9mm Type X Both side on twin frame of 92 track	71dB	3Hrs	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(min), 1800mm(max.) Ver c/c	58mm/ 0.60-1.5 thick	Double layers 75mm thick Glasswool 24kg/m³ density	15.9mm	3 each side + 1 additional layer for speakers if Recommended	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(min), 1800mm(max.) Ver c/c	58mm/ 0.60-1.5 thick	Double layers 75mm thick Glasswool 24kg/ m³ density	15.9mm	2 each side	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	-	-	-
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
Between Auditoria & projection room	Wall Type 3 - 2 x 15.9 Type X on 148.5 BtoB 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 148.5 x 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	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
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
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
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(min), 1800mm(max.) Ver c/c	N/A	75mm thk Glasswool 24kg/m³ density	15.9mm	2	Type X
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
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
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 0.60mm 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
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®	1	Cement board
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	1	Sheetrock® Standard Type
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(min), 1800mm(max.) Ver c/c	N/A	N/A	15mm	1	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 x19mm 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.	V brace at 1200mm(min), 1800mm(max.) Ver c/c	N/A	N/A	15mm	1	MR / RG Depends on the location
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
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 90.5 x 34x 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

3 CINEMA CEILINGS SOLUTIONS

CEILING MASS BARRIER WITH HIGH NRC ACOUSTICAL CEILING

CINEMA CEILING MASS BARRIER



CEILING MASS BARRIER CONSTRUCTION

GYPSUM BOARD: 3 Layers of USG Sheetrock® Firecode Type X, 15.9 mm thick tapered edge

FURRING CHANNEL: USG ME 22x69x0.90 mm Furring Channel spaced at 400 mm o.c

PERIMETER ANGLE: USG ME 25x25x0.9 mm L-Angle

PRIMARY CHANNEL: USG ME 12x38x1.5 mm primary channel spaced at 900 mm o.c

HANGER: 6mm threaded rod spaced at 900 mm suspended to Acoustic Isolation Hanger. Rod length varies as per project requirement

INSULATION: 75 mm Glass Wool, 24 kg / m^3

ACCESSORIES: U-Bracket, Wire Connecting clip, Galvanized hexagonal nut and steel washer, Acoustic Isolation Hanger

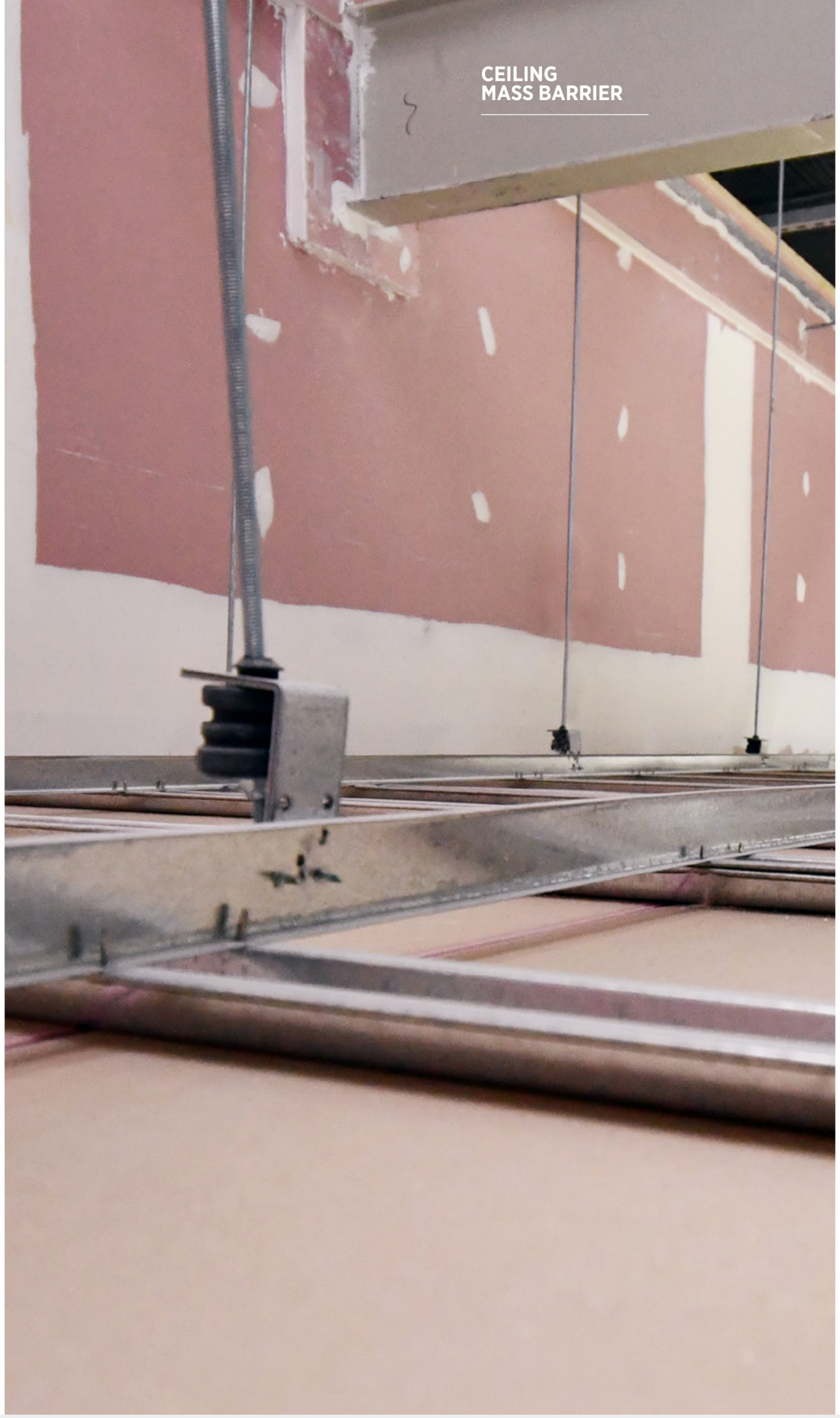
JOINT COMPOUND: USG ME Sheetrock® All-Purpose Joint Compound or USG Premium Premix Joint Compound

ACOUSTICAL SEALANT: USG ME Brand Acoustical Sealant

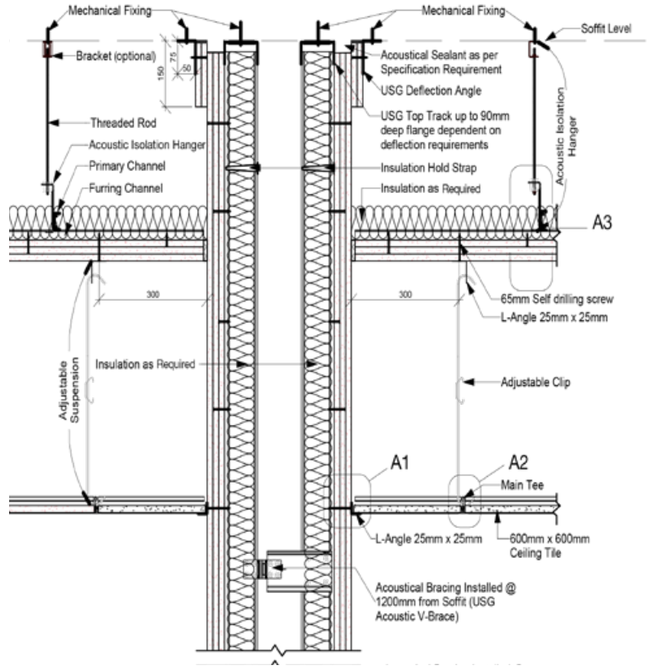
TAPES: USG Sheetrock® Brand paper tape for gypsum board jointing

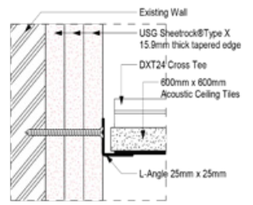
HIGH NRC ACOUSTICAL CEILING BELOW MASS BARRIER: Halcyon™ Black or Louna™ Hi CAC Black tiles with black DONN® DX®/DXL® Fire Rated Suspension System

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

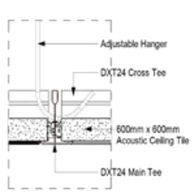


CEILING SECTION - TOP





A1



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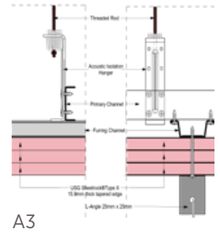


A3

HIGH NRC ACOUSTICAL CEILING BELOW MASS BARRIER

HALCYON™ BLACK

PRODUCT CERTIFIED FOR ENVIRONMENTAL PRODUCT DECLARATION

HIGH SOUND ABSORPTION

VISIT USGME.COM TO ORDER SAMPLES

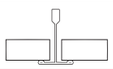
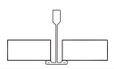
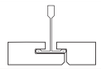
FEATURES & BENEFITS

- Fiberglass substrate with elegant and refined acoustical facing and high performance mineral fleece membrane on the backside. Planks are fully demountable, which reduces installation time.
- Light black tile for ideal application in cinemas and theaters.
- Exceptional sound absorption with NRC values up to 1 & high acoustic sound absorption performance at low frequencies, satisfying high-performance needs for cinema construction.
- Impact & scratch resistant.
- Available with aluminium foil back to increase sound attenuation class.

SPECIFICATION DETAILS

Panel Thickness: 19mm - 50mm
Panel Size: 600 x 600mm and 600 x 1200mm
Noise Reduction Coefficient [NRC]: 0.90 - 1.0
Ceiling Attenuation Class [CAC]: 24 - 35 dB
Color: Black Color similar to RAL 7021
Mold Prevention Application as per ASTM D3273: Rate 10
Humidity Resistance: Maximum 99% RH / 40°C
Surface Burning Characteristics as per ASTM E84: Class A
Thermal Conductivity: λ = 0.034 W/m°K

HALCYON™ BLACK PANEL PROFILE OPTIONS

DX/DXL SQ Edge	DXT SQ Edge	DX/DXL D-BESK Edge	DX/DXL S-BESK Edge
			

- Available in square and concealed edges

LOUNA™ HI CAC BLACK

EN 13964 : 2014 + A1 : 2007

HIGH SOUND ABSORPTION

CEILING ATTENUATION CLASS

FIRECODE

VISIT USGME.COM TO ORDER SAMPLES

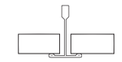
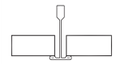
FEATURES & BENEFITS

- Balanced Acoustics. High-NRC and High-CAC.
- Offered in black to meet the growing demand from cinemas and theaters.
- Specifically engineered when high acoustic performance is needed to satisfy high-frequency performance criteria.
- Hybrid ceiling panel is made of soft fiber substrate with wet-felted mineral fiber substrate on the rear side. Finished with painted fiberglass scrim and sealed edge.
- Excellent combination of noise reduction (up to NRC-0.90 for 53mm) and sound attenuation (up to CAC-42).
- Impact & scratch resistant finish scrim.
- Available in different colors.

SPECIFICATION DETAILS

Panel Thickness: 43mm, 53mm
Panel Size: 600 x 600mm and 600 x 1200mm
Noise Reduction Coefficient [NRC]: 0.85 - 0.90
Ceiling Attenuation Class [CAC]: 41 - 42 dB
Color: Black Color similar to RAL 7021
Mold Prevention Application as per ASTM D3273: Rate 10
Humidity Resistance: Maximum 99% RH / 40°C for ClimaPlus™
Surface Burning Characteristics as per ASTM E84: Class A
Thermal Conductivity: λ = 0.036 W/m°K

LOUNA™ HI CAC BLACK PANEL PROFILE OPTIONS

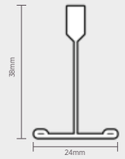
DX/DXL SQ Edge	DXT SQ Edge
	

- Available in square edge

DONN® DX®/DXL® FIRE RATED SUSPENSION SYSTEM

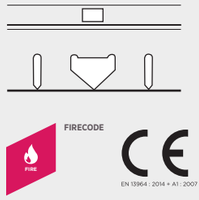
USG ME DONN® BRAND DX®/DXL® T24 AND T15 FIRE RATED SUSPENSION SYSTEM

T24 PROFILE



T15 PROFILE

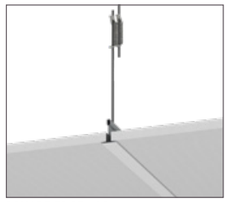
FIRE LANCE



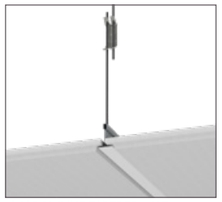
FEATURES & BENEFITS

- Main runners are designed to expand at the fire lance in the event of a fire. This maintains the structural integrity of the ceiling and holds tiles in place.
- DONN® Brand DX®/DXL™ T24 Heavy Duty - Fire Rated and DONN® Brand DX®/DXL™ T15 Centricitee - Fire Rated features a body and cap made of G30 hot-dip galvanized steel as per EN 10346/ASTM A653 with pre-painted capping to ensure that the cap remains clean and rust-free.
- Four-step coating process that outperforms in paint adhesion and corrosion resistance, as proven by industry-standard salt spray tests conducted by an independent laboratory.
- Safe, fast and simple to install & easily accessible.
- Maximum economy and design simplicity.
- Cross-tees with override-ends resist twisting and give professionally finished look with no exposed steel edges.
- Patented QUICK-RELEASE™ clip design: demountable without tools.

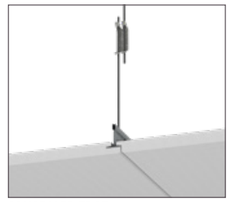
T24 EDGE DETAIL



SQUARE EDGE - SQ

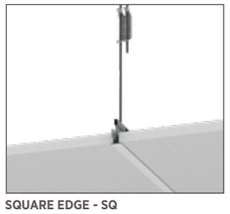


SHADOWLINE TAPERED - SLT

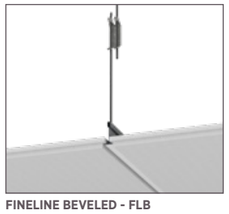


CONCEALED EDGE (BESK, S-BESK, D-BESK)

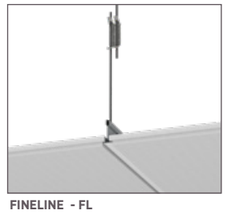
T15 EDGE DETAIL



SQUARE EDGE - SQ



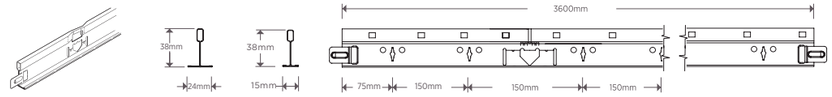
FINELINE BEVELED - FLB



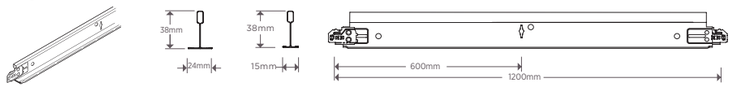
FINELINE - FL

PRODUCT INFORMATION

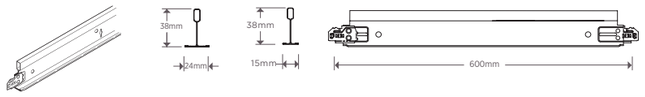
Main Runner



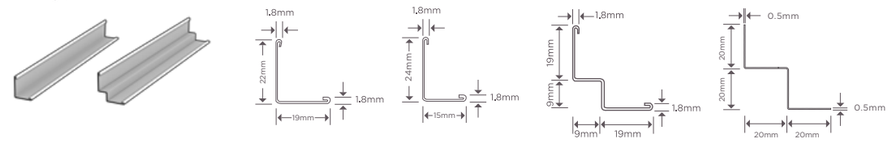
Long Cross Tee



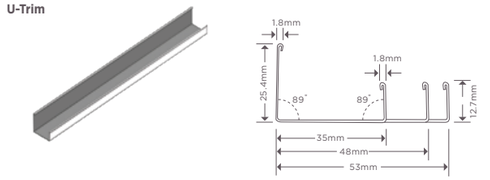
Short Cross Tee



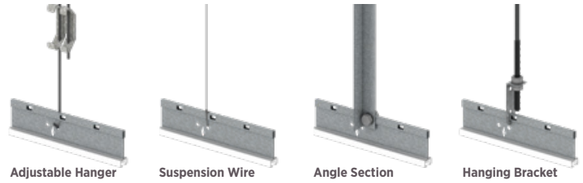
Wall Angle



U-Trim



SUSPENSION OPTIONS



Adjustable Hanger | Suspension Wire | Angle Section | Hanging Bracket

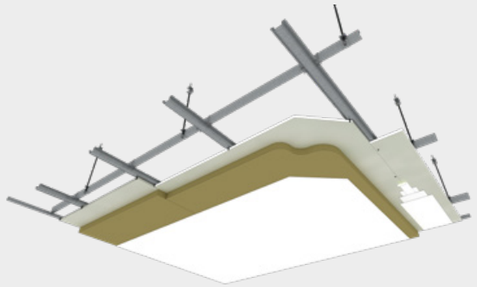
MAXIMUM ALLOWED OF TILES WEIGHT KG PER M²**

Hanger distance (mm)	Applied Load (N)		Equivalent Uniform Load (N/M)		Allowable Midspan Deflection (mm)	Deflection Limit
	T24	T15	T24	T15		
900	79.45	72.01	260.5	236.1	0.339	L/360
1200	44.68	40.50	146.5	132.8	0.339	L/360
1500	35.75	32.40	117.2	106.2	0.339	L/360

*** The load per m² must be distributed uniformly (no point loads) over the ceiling area. After loading, the deflection of any grid component will remain within the maximum deflection per span.*
Please consult USG ME for layouts, load or hanger distance.

MONOLITHIC ACOUSTICAL CEILING

MONOSILENT



VISIT USGME.COM TO ORDER SAMPLES

DESCRIPTION

Monosilent is a lightweight, non-combustible, high acoustic, seamless ceiling system consisting of engineered ceiling panel fixed to frame system and finished with an acoustical spray applied paint.

FEATURES & BENEFITS

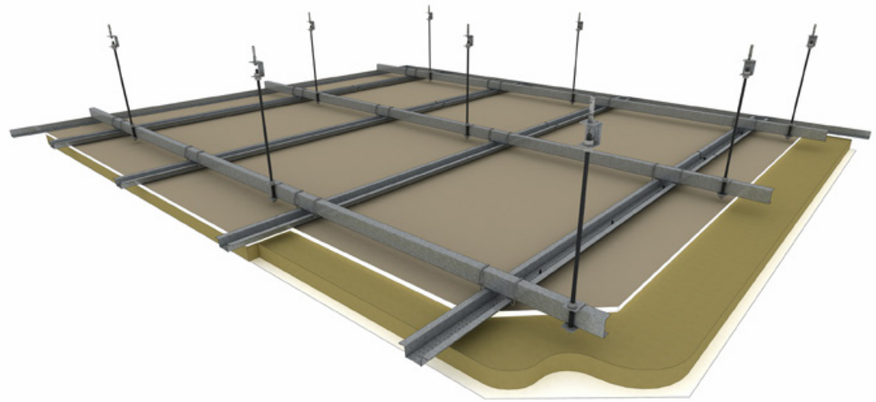
- Seamless plasterboard look with acoustic performance of up to 0.95 NRC and 43 CAC.
- Class A fire rating.
- Class 1 surface burning as per BS 476, Part 7.
- High light-reflective finish (LR-0.85 for white finish) reduces fixture & energy use.
- Acoustically transparent spray-applied finish.
- Ideal for halls when high acoustic performance is required and when low room reverberation time is desired.
- Available in white as standard finish and all other colors are available upon request.

APPLICATIONS

- Corridor between auditoriums
- Cinema ticketing area
- Atriums
- Ballroom
- Executive/board rooms
- Conference rooms

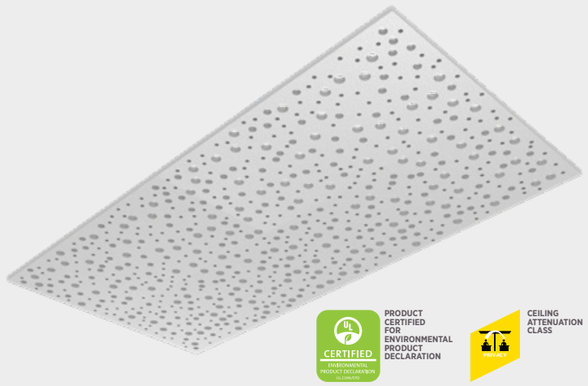
SYSTEM SUMMARY

		Monosilent
Application		Corridor between auditoriums, Cinema ticketing area, Atriums, Ballroom, Executive/board rooms, Conference rooms
Acoustic Performance		NRC 0.95 and CAC 43 for 50mm system
Insulation		Mineral wool insulation as supplied by manufacturer
Light Reflectance		0.85 for white finish
Fire Rated		Class A
Finish		Available in white as standard finish and all other colors are available upon request, seamless, spray-applied fine texture with low VOC-emitting material
Specification	**Framing**	USG Middle East Ceiling Suspension System
	Lining	Seamless ceiling system consisting of engineered ceiling panel
	Joint Tape	Fiberglass mesh tape 50mm width
	Joint Compound	EASYJOINT™ 60 Setting-Type Premium-Jointing Powder
	Final Finish	USG Monosilent Spray-Applied Finish
Warranty		To ensure the performance of this system meets USG ME's Warranty requirements, USG ME products are to be used and installed only in accordance with our specifications and recommendations.



ACOUSTICAL DRYWALL CEILING

SKYROCK® ECOBLOCK - R8-15-20



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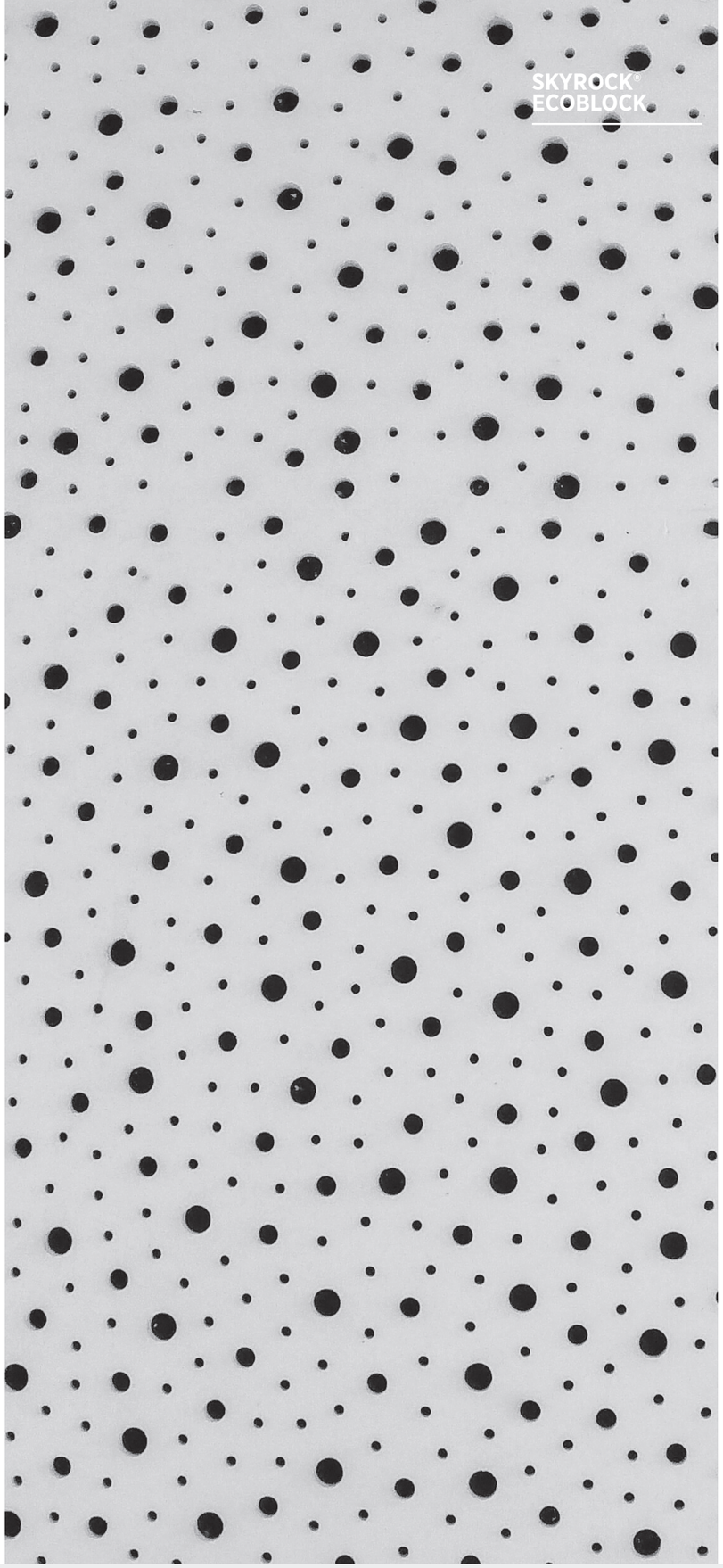


DESCRIPTION

Skyrock® Ecoblock Random Perforation R8-15-20 is manufactured from a specially formulated core encased in recycled face and back liner papers. The panels have long recessed edges for easy application when used with USG Middle East's Acoustical Sealant and EASYJOINT™ 60 Setting-Type Premium-Jointing Powder. The acoustic gypsum boards are punched to specification with precision engineering before being laminated with a non-woven acoustic mat on the back.
These Acoustical Gypsum Boards are ideal for various sound absorption applications with an enhanced aesthetical look.

FEATURES & BENEFITS

- Great Aesthetics, Excellent Noise Absorption
- Tested to achieve 0.75 NRC (Noise Reduction Coefficient) as per ASTM C423.
- Recessed edges allow for finishing to a flat and seamless ceiling or wall.
- Complies with E84 for flame spread and smoke development.

APPLICATIONS

- Large scale cinema spaces
- Public venues such as concert halls, auditoriums and sporting venues
- Theaters lobbies and conference rooms
- Cinema restaurants

FINISHING AND DECORATING

- It is essential that the level of finish is determined at the design stage since each level has specific requirements for substrate tolerances and gypsum board installation jointing and finishing. The desired level of finish may not be achieved unless all of these requirements are met through various stages of construction.
- USG recommends the use of Acoustical Sealant and EASYJOINT™ 60 Setting-Type Premium-Jointing Powder to achieve the best jointing strength.
- For priming and decorating with paint, USG recommends using roller applications.
- Roller application ensures a uniform texture over the entire surface and protects the non-woven acoustic mat on the back face.
- Avoid spray painting as it may block holes, thus affecting acoustic performance.

ADVANTAGES

Performance: Manufactured in a range of configurations to satisfy a multitude of desired aesthetic designs.
Acoustic Performance: Superior NRC capabilities up-to 0.75.
Easy to Install: Scores and snaps easily. Similar installation to conventional plasterboard.

COMPLIANCE

Skyrock® Ecoblock Random Perforation R8-15-20, 17% comply with:
- ASTM C423 for Noise Reduction Coefficient
- E84 for classification for fire propagation and surface flame spread

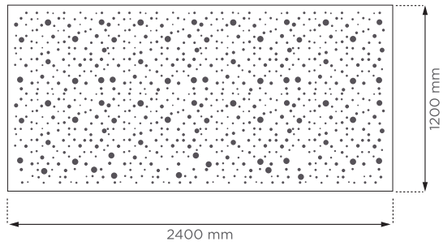
COMPLIANCE

Skyrock® Ecoblock Random Perforation R8-15-20, 17% comply with:
- ASTM C423 for Noise Reduction Coefficient
- E84 for classification for fire propagation and surface flame spread

PRODUCT DATA

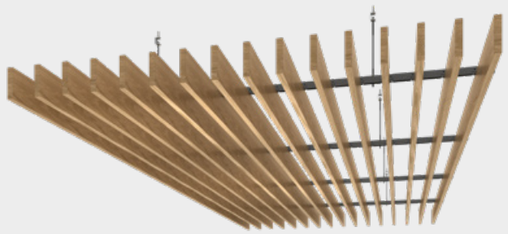
Property	R8-15-20, 17%
Weight (kg/m²)	6.76 kg/m²
Thickness (mm)	12.5
Length (mm)	2400
Width (mm)	1200
Hole Type	Round
Hole Diameter (mm)	8, 15, 20
Layout Drawing	As per the below drawing
Perforation Rate (%)	17% with black acoustic tissue at the back
Noise Reduction Coefficient (NRC*)	0.75
Mounting	E-400

**Insulation (Optional) 24kg/m³ 75mm glass wool as backer panel for higher acoustic values*



SPECIALTY CEILING

CELEBRETTO®
PARALINE BAFFLES



HIGH SOUND ABSORPTION

CEILING ATTENUATION CLASS

VISIT USGME.COM TO ORDER SAMPLES

FEATURES & BENEFITS

- Paraline baffles are metal baffles with easy access to enclosed plenum.
- Available in a wide range of system sizes with different baffles dimensions and finishes, as per a project's requirements.
- Unique modern look that fits any interior design concept.
- Available with an optional closing strip.
- Available in plain and perforated pattern for acoustic performance.
- Special design - metal baffle integrated with linear strip ceiling to improve the space aesthetic and acoustic performance.
- Can be installed directly onto the existing ceiling or with hanging suspension system.

APPLICATIONS

- Entertainment
- Lobbies
- Restaurants
- Cinema Corridor

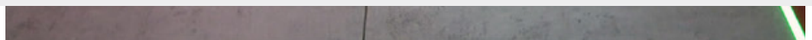
ABSORPTION COEFFICIENT

Frequency, Hz	125	250	500	1000	2000	4000	NRC*
A1 Pattern Standard with Plain Border**	0.15	**0.35**	**0.50**	**0.75**	**0.70**	0.60	**0.60**
A1 Pattern Fully Perforated***	0.30	**0.50**	**0.90**	**1.0**	**1.05**	1.0	**0.85**

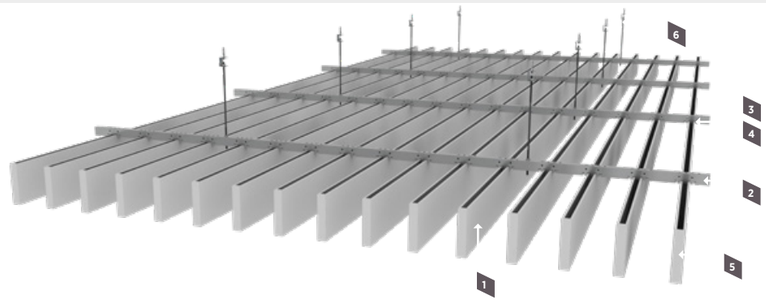
* *Calculated to ASTM C 423-01*

** *Acoustic Fleece and 50mm Soft Fiber Infill*

*** *Acoustic Fleece and 38mm Soft Fiber Infill*



SYSTEM DRAWINGS



1 Paraline Baffles 2 Metal Carrying Channel 3 Baffle Connecting Splice 4 Carrying Channel Connecting Splice 5 End Cap 6 Hanging System

SPECIFICATION DETAILS

Material Classification
Galvanized Steel: Type V
Aluminium: Type VII
Stainless Steel: Type VI
Pattern: A, C, G

Thickness
Powder coat finish: 0.6mm – 1.4mm
Wooden finish: 0.6mm

Baffle Width
30mm / 40mm / 50mm / 80mm / 100mm / 150mm

Baffle Height
50mm / 80mm / 100mm / 150mm / 200mm

Baffle Length
Up to 2400mm

Baffle Spacing (clear gap)
Min 30mm

Light Reflectance Coefficient [LR]
Based on the finish color and perforation pattern, LR up to 0.82

Color
Standard colors are RAL 9016, RAL9006 and RAL9010.
Other RAL colors are available upon request

Surface Burning Characteristics per ASTM E 84
Class A

Additional Information
- Recommended spacing is to be equal to the height of the baffle
- Thickness depends on panel sizes and project requirements
- Consult factory for other panel widths

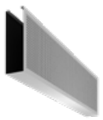
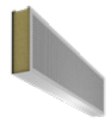
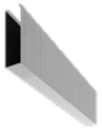
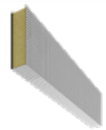
ACOUSTICAL PERFORMANCE

USG Middle East supplies Metal Ceiling panels with a range of acoustical performance to meet the needs of all kinds of projects. A variety of sound-absorbing backing options are available. Consult with the USG Middle East technical team for further guidance.

MATERIAL DESCRIPTION	ACOUSTIC TREATMENT	ACOUSTIC TREATMENT	SOUND ABSORPTION CAC	SOUND ABSORPTION Dnfw
Metal Baffles 2400x100x50mm, 100mm spacing O.C.	A1, Standard with Plain Border	Acoustic Fleece and 50mm SF Infill	0.60	0.55
Metal Baffles 2400x120x40mm, 120mm spacing O.C.	A1, Fully Perforated	Acoustic Fleece and 38mm SF Infill	0.85	0.80

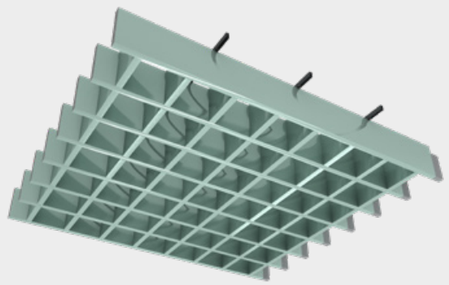
A1 Pattern: Diagonal Pattern. Hole Size Dia: 1.8mm, Open Area: 20%
SF: Soft Fiber

INFILL OPTIONS*

	Plain	Acoustical Fleece	Acoustical Fleece and Soft Fiber
STANDARD WITH PLAIN BORDER			
OPTIONAL FULLY PERFORATED			

** Additional backer options available for NRC and CAC enhanced total acoustical performance*

CELEBRETTO®
CROSSING BAFFLES



HIGH SOUND ABSORPTION

CEILING ATTENUATION CLASS

VISIT USGME.COM TO ORDER SAMPLES

FEATURES & BENEFITS

- Free span solution - eliminates the need for threaded rods and vertical hangers.
- Ideal for corridors that have condensed MEP fixtures.
- Total access to ceiling void, allowing easy maintenance.
- Quick installation.

APPLICATIONS

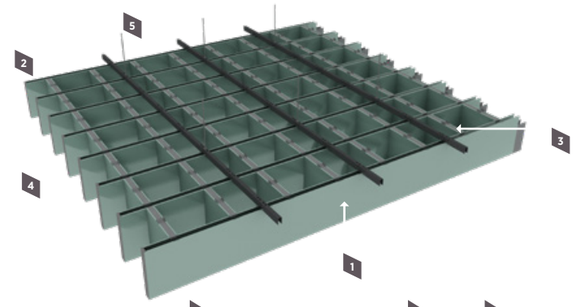
- Entertainment
- Lobbies
- Restaurants
- Cinema Corridor

ABSORPTION COEFFICIENT

Frequency, Hz	125	250	500	1000	2000	4000	NRC*
A1 Pattern Standard with Plain Border**	0.15	**0.35**	**0.50**	**0.75**	**0.70**	0.60	**0.60**
A1 Pattern Fully Perforated***	0.30	**0.50**	**0.90**	**1.0**	**1.05**	1.0	**0.85**

** Calculated to ASTM C 423-01*
*** Acoustic Fleece and 50mm Soft Fiber Infill*
**** Acoustic Fleece and 38mm Soft Fiber Infill*

SYSTEM DRAWINGS



1 Main Baffle 2 Carrying Channel Connecting Splice 3 Crossing Baffle Connecting Splice 4 End Cap 5 Hanging System

SPECIFICATION DETAILS

Material Classification
Galvanized Steel: Type V
Aluminium: Type VII
Stainless Steel: Type VI
Pattern: A, C, G

Thickness
Powder coat finish: 0.6mm – 1.4mm
Wooden finish: 0.6mm

Baffle Width
30mm / 40mm / 50mm / 80mm / 100mm / 150mm

Baffle Height
50mm / 80mm / 100mm / 150mm / 200mm

Baffle Length
Up to 2400mm

Baffle Spacing (clear gap)
Min 30mm

Light Reflectance Coefficient [LR]
Based on the finish color and perforation pattern, LR up to 0.82

Surface Burning Characteristics per ASTM E 84
Class A

Color
Standard colors are RAL 9016, RAL9006 and RAL9010.

Other RAL colors are available upon request

Additional Information
- Recommended spacing is to be equal to the height of the baffle
- Thickness depends on panel sizes and project requirements
- Consult factory for other panel widths

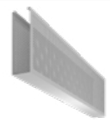
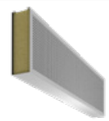
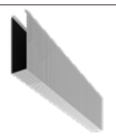
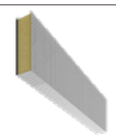
ACOUSTICAL PERFORMANCE

USG Middle East supplies Metal Ceiling panels with a range of acoustical performance to meet the needs of all kinds of projects. A variety of sound-absorbing backing options are available. Consult with the USG Middle East technical team for further guidance.

MATERIAL DESCRIPTION	ACOUSTIC TREATMENT	ACOUSTIC TREATMENT	SOUND ABSORPTION	
			CAC	Dnfw
Metal Baffles 2400x100x50mm, 100mm spacing O.C.	A1, Standard with Plain Border	Acoustic Fleece and 50mm SF Infill	0.60	0.55
Metal Baffles 2400x120x40mm, 120mm spacing O.C.	A1, Fully Perforated	Acoustic Fleece and 38mm SF Infill	0.85	0.80

A1 Pattern: Diagonal Pattern. Hole Size Dia: 1.8mm, Open Area: 20%
SF: Soft Fiber

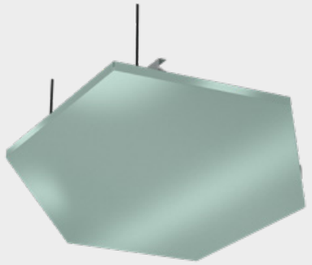
INFILL OPTIONS*

	Plain	Acoustical Fleece	Acoustical Fleece and Soft Fiber
STANDARD WITH PLAIN BORDER			
OPTIONAL FULLY PERFORATED			

** Additional backer options available for NRC and CAC enhanced total acoustical performance*

SPECIALTY CEILING

CELEBRETTO® METAL CANOPIES



HIGH SOUND ABSORPTION

CEILING ATTENUATION CLASS

VISIT USGME.COM TO ORDER SAMPLES

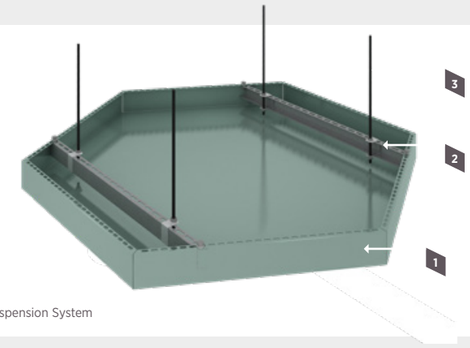
FEATURES & BENEFITS

- Decorative floating elements, which can be configured to various shapes and sizes.
- Exceptional sound absorption with NRC values up to 0.90.
- Wide range of colors and finishes.
- Ideal for providing both visual accents and acoustical control.
- Easy to install.

APPLICATIONS

- Open-plenum areas
- Convention halls and concourses
- Reception and lobby areas
- Media rooms
- Restaurants

SYSTEM DRAWINGS



1 Metal Canopy 2 Slotted Track 3 Suspension System

SPECIFICATION DETAILS

Material Classification
Galvanized Steel: Type V
Aluminium: Type VII
Stainless Steel: Type VI
Pattern: A, C, G

Panel Thickness
Powder coat finish: 0.6mm – 1.4mm
Wooden finish: 0.6mm

Panel Height
50mm to 100mm

Panel Arrangements
Refer to the systems configuration table

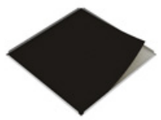
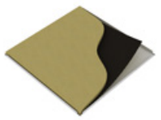
Light Reflectance Coefficient [LR]
Based on the finish color, Up to 0.82

Surface Burning Characteristics per ASTM E 84
Class A

Infill Option
Available in soft fiber infill option

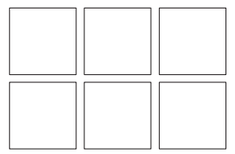
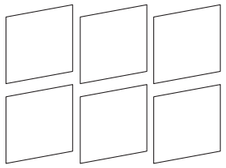
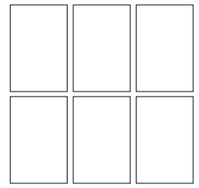
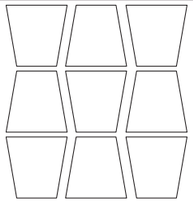
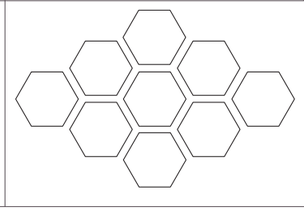
Additional Information
- Thickness depends on panel sizes and project requirements
- Consult factory for other panel widths

INFILL OPTIONS*

Plain	Acoustical Fleece	Acoustical Fleece and Soft Fiber	Acoustical Fleece and Mineral Fiber
			

** Additional backer options available for NRC and CAC enhanced total acoustical performance*

SYSTEMS CONFIGURATIONS*

Square	Parallelogram	Rectangle
		
Trapezoid	**Hexagon**	
		

** Refer to USG Middle East technical team for size limitation and suspension accessories. Other configurations are available upon request.*

COLORS, FINISHES AND PERFORATIONS PATTERN

STANDARD FINISHES

RAL COLORS

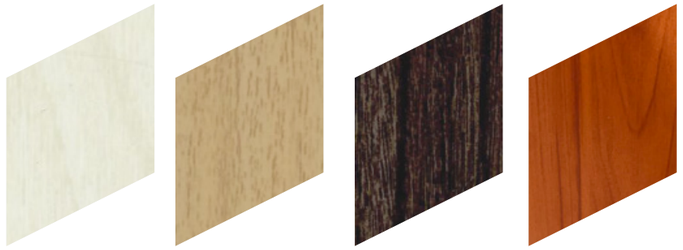
RAL 9016 | RAL 9010 | RAL 9006 | RAL 9007 | RAL 9005 | CUSTOM RAL COLOR*

** Available upon request. Check with our technical team for lead time delivery.*

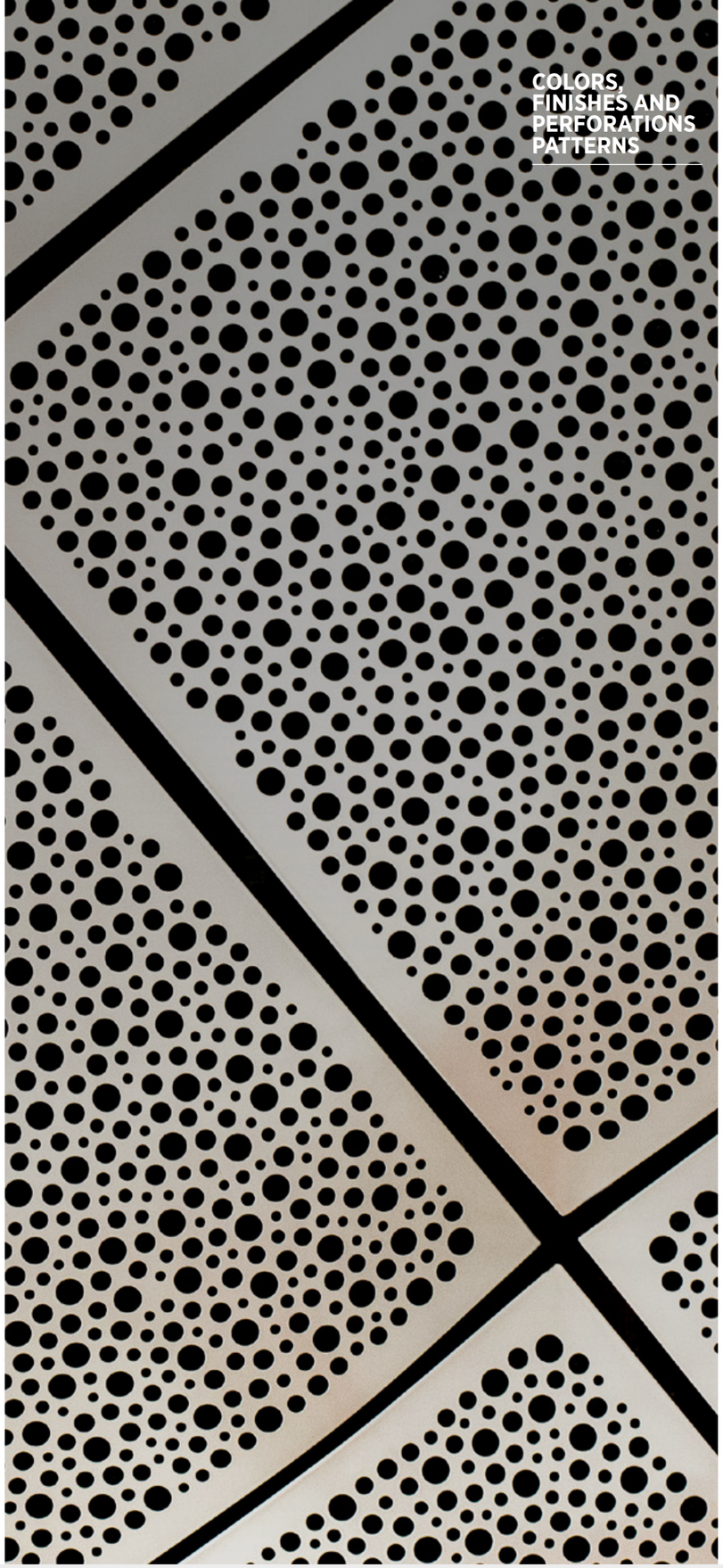
ANTI BACTERIAL FINISH

Available for Standard RAL Colors only

WOODEN FINISHES

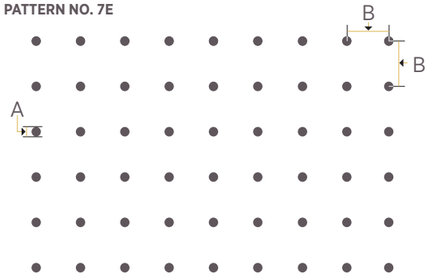


WF1 | WF2 | WF3 | WF4



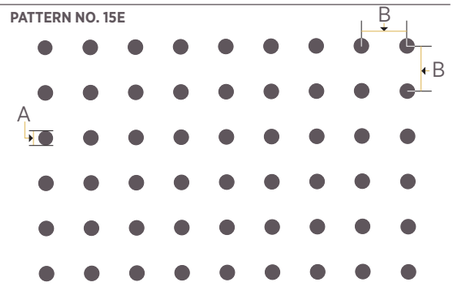
STANDARD PERFORATION PATTERNS

PATTERN NO. 7E



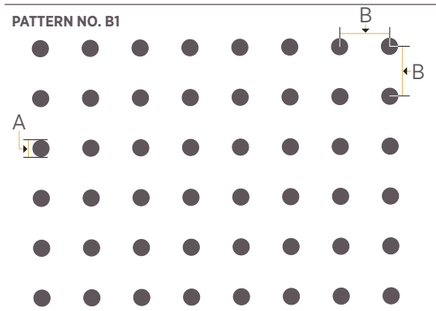
Even Pattern. **Hole Size Dia (A):** 0.75mm, **Pitch (B):** 5mm, **Open Area:** 1%

PATTERN NO. 15E



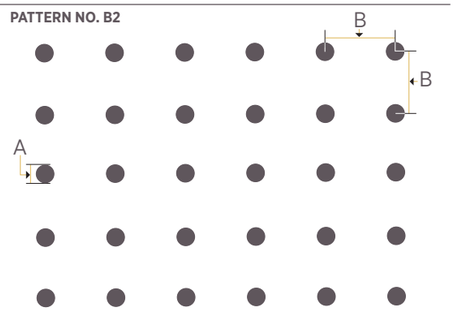
Even Pattern. **Hole Size Dia (A):** 1.5mm, **Pitch (B):** 4mm, **Open Area:** 11%

PATTERN NO. B1



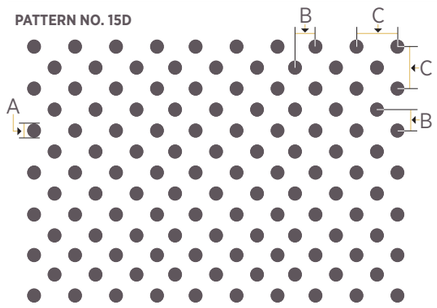
Even Pattern. **Hole Size Dia (A):** 1.8mm, **Pitch (B):** 5mm, **Open Area:** 10%

PATTERN NO. B2



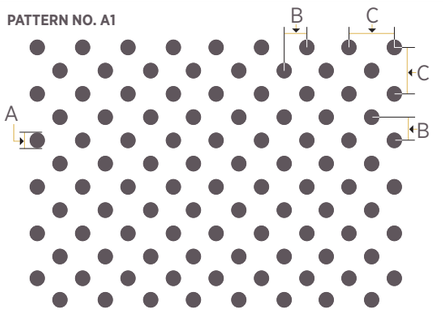
Even Pattern. **Hole Size Dia (A):** 2.5mm, **Pitch (B):** 5.5mm, **Open Area:** 16%

PATTERN NO. 15D



Diagonal Pattern. **Hole Size Dia (A):** 1.5mm, **Pitch(B):** 2mm **Pitch(C):** 4mm, **Open Area:** 22%

PATTERN NO. A1



Diagonal Pattern. **Hole Size Dia (A):** 1.8mm, **Pitch (B):** 2.5mm **Pitch (C):** 5mm, **Open Area:** 20%

CUSTOM COLORS, FINISHES AND PERFORATION PATTERNS ARE AVAILABLE UPON REQUEST

4

CINEMA FINISHING SOLUTIONS

FINISHING SOLUTIONS

Offering the industry's broadest selection of finishing solutions, our high-quality drywall compounds, joint tapes, beads, and trims provide superior performance on every job, every time. Whether you're taping, applying a finish coat, or patching a crack, there is a USG finishing product to meet your needs. Builders, project managers, and architects can count on our broadest selection of finishing solutions to deliver.

GYPSUM SURFACE FINISHING SOLUTIONS

USG Middle East gypsum surface finishing solutions provides professional-grade performance. Sheetrock® Brand All Purpose Joint Compound and Premium Premix are combines single-package convenience with good taping and topping performance. Recommended for laminating and repairing cracks in interior plaster and masonry not subject to moisture, these compounds feature great open time and cold bond, and has smooth and slick properties. This joint compound qualifies as a low VOC emitting material and complies with ASTM C475.
The Gypsum Plaster Setting-Type of Easycoat 30 and Easyjoint™ 60 provides quick set times allow for one-day drywall finishing and next-day decoration of drywalls in interiors and exterior areas. Let our setting-type collection set the pace with a range of formulations that provide a choice in setting times. They provide low shrinkage and superior bond, which make them excellent for projects like laminating gypsum panels, acoustical gypsum boards and above-grade all gypsum surfaces.

CEMENT SURFACES FINISHING SOLUTIONS

Concrete plaster is a type of plaster that is made from a mixture of Portland cement, sand, and water. It is a strong and durable material that is often used as a finish for walls and ceilings. Unlike traditional plaster, which is made from gypsum, concrete plaster is not as brittle and is more resistant to water damage. It is typically applied in multiple layers and can be finished with a variety of textures, depending on the desired look.
Our concrete plaster includes Durock® & General Purpose Setting-Type Basecoat, Easycoat Advanced Formula Ready-Mix and other cementitious surfaces finishing products are commonly used as a finish for both interior and exterior walls and ceilings. This range is often applied to concrete, brick, or masonry surfaces to create a smooth, durable finish. Concrete plaster is also used to repair and resurface damaged walls and ceilings, and to cover up imperfections in the underlying surface. In addition, concrete plaster can be used to create decorative elements such as moldings, cornices, and ceiling medallions.Used in the construction of swimming pools, to create a smooth, waterproof finish.

ACOUSTICAL CEILINGS FINISHING SOLUTIONS

Acoustical plasterboard ceilings require special finishing materials to achieve the required acoustic performance. We offer the Monosilent Compound for the acoustical ceiling joint treatment which is specially formulated to achieve very low shrinkage joint compound for acoustical plasterboard ceilings.
USG ME also offers highly engineered, acoustically transparent spray-applied finish of Monosilent Spray-Applied Finish and Mac Spray-Applied Finish. Sprayed with pneumatic spray texture equipment and yields a fine finish, with a monolithic appearance. The Acoustical transparent finish is available in a standard white color and available in other RAL colors to meet the architect choice.

BONDING SOLUTIONS

Our Setting-Type Bonding Premium Compounds are a plaster-based adhesive formulated to bond gypsum board to masonry, brick or concrete walls and for bonding decorative cornices to plaster surfaces and for reinforcing joints in cornices. These Premium Compounds have high bond strength and offers a long working time, mixes easily to a creamy, lump-free gauge, high strength, excellent adhesion to masonry, brick and concrete walls and decorative cornices. Easybond™ 60 Setting-Type Bonding Premium Compound Provides enhanced plaster adhesion to surfaces like gypsum plaster, cinder block, stone, drywall panels, and other similar materials. Fastbond Hightack Formula is easily applied by Sealant Gun for quick and instant bonding requirements. The Fastbond Hightack Formula has extremely high initial tack and can be applied as a universal adhesive for bonding many building materials such as: stone, concrete, glass, plasterboard, PU, PVC, hard plastics, enamel, ceramic, copper, lead, zinc, tin, aluminium, metals, alloys, stainless steel, HPL and cement fiber panels, wood and paints stems.

SEALANT

USG ME sealants are acrylic-based for use as sealants in fire-rated partitions, smoke barriers and sound-rated assemblies as acoustical barrier. The sealant exhibits exceptional structural integrity, forms a continuous flexible bead that resists collapse and flows into all but the most intricate joints, resists water penetration and offers excellent resistance to thermal shock. These sealants are low-flowing, forming a dense and continuous barrier against air and other gases. It provides excellent resistance to vibration and movement, making it ideal for joints in fire-rated assemblies that have little or no movement, they're produced with high fire rating and acoustical performances. Where the acoustical sealant which is a type of sealant that is specifically designed to reduce the transmission of sound through gaps or cracks in walls, ceilings, and floors. It is often used in construction and renovation projects to improve the acoustics of a space and reduce noise pollution.

ACCESSORIES

USG Middle East offers a full range of accessories for the project's builders. The accessories range of varieties from jointing tapes for interior and exterior use that add strength and crack resistance for smooth concealment at flat joints and inside corners, to the durable beads and trims that installs easily by screwing, nailing or tapping to steel or wood framing. Our corner beads and trims protect external corners, angles and panel intersections in drywall construction. It is concealed with our joint compounds, delivering a smooth finished surface and even that protects corners from impact.

ACCESS PANELS

Offering wide range of access panels and doors. For wet areas, USG Middle East offers moisture- and mold-resistant access doors and plumbing accessories with plasterboard inlay, circumferential rubber lip seal, hidden snap locks, and self-adjusting safety catch arms. These moisture resistance access panels are panels that are designed to prevent the ingress of moisture. They are often used in buildings where access is needed to areas that may be exposed to water or damp conditions, such as bathrooms or kitchens.
Smoke, air, and dust-tight requirements are met by USG ME Smoke Control and Acoustic Access Doors and Plumbing Accessories, includes an EPDM hollow chamber seal for installation on walls and ceilings. Where the smoke control access panels are panels that are designed to prevent the spread of smoke in the event of a fire. They are often used in buildings to provide access to areas that are part of a smoke control system, such as ducts or shafts. Smoke control access panels are an important component of a building's fire safety system, and are typically installed in ceiling or floor areas.

SUSTAINABLE SYSTEMS

GREEN MANUFACTURING

Flexible and scalable production options with quicker delivery time. Our regional manufacturing facilities reduce the supply chain costs, energy consumption and transportation. USG ME is an excellent source of ceiling solutions for the regional community helping the environment with lesser emissions and energy usage.
We care about earth: we provide green and sustainable products.

ENVIRONMENTAL PRODUCT DECLARATION

The Environmental Product Declaration (EPD) relies on the assessment tool—following ISO series 14040—to provide information on a number of environmental impacts of a product
over its life cycle. EPD's are primarily intended to facilitate business transactions with clients who are focused on sustainable environmental practices.
Since adhering to the ISO series 14040, we have improved our goals for sustainability and demonstrated our commitment to sound environmental practices and our customers.

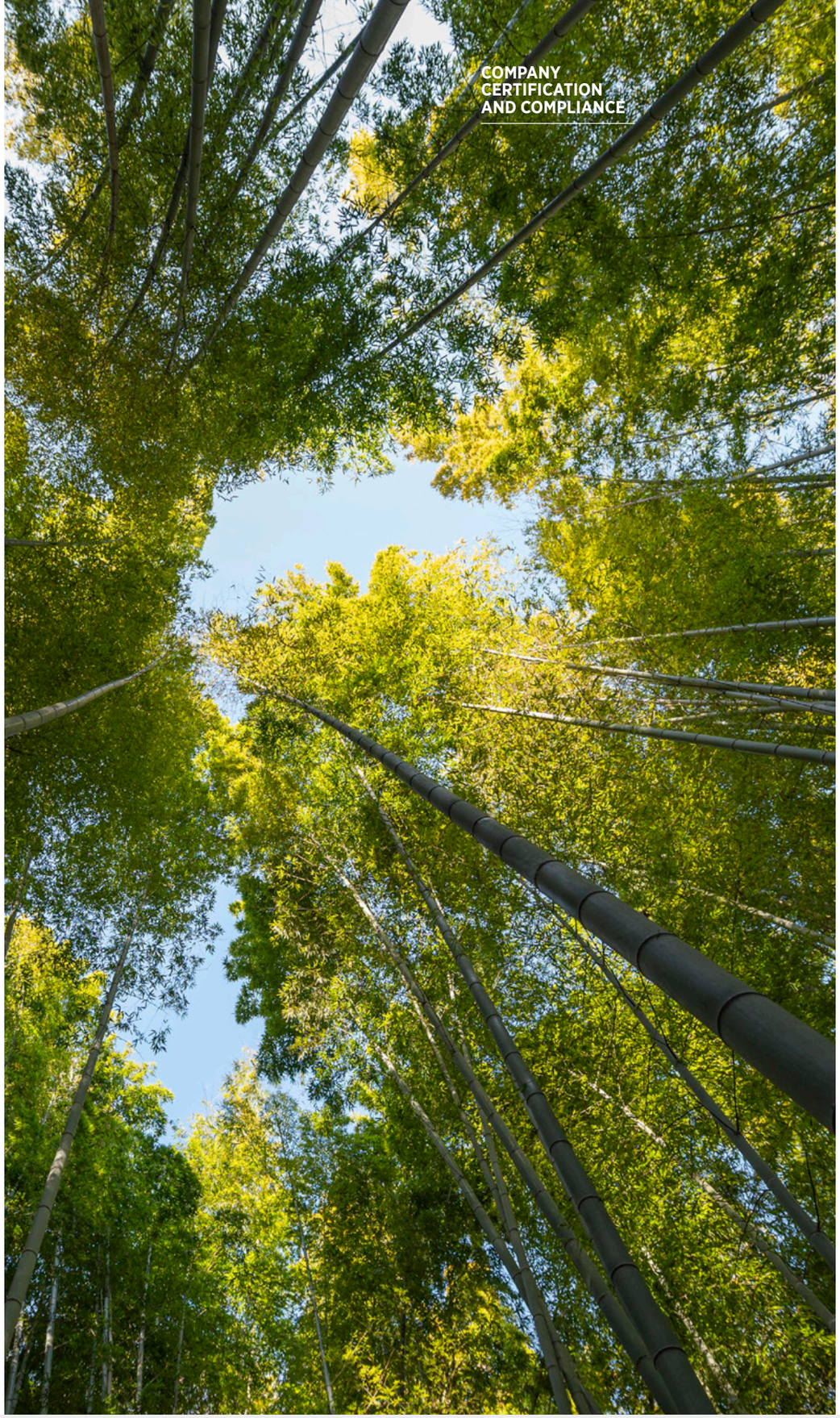
GREENGUARD

GREENGUARD Certification Program is for Products that have scientifically been proven to meet many of the world's most rigorous third-party chemical emissions standards, helping to improve indoor air quality. By choosing products with GREENGUARD Certification, you are creating a healthier indoor environment for your home, office, or institution and reducing chemical exposure. USG Middle East's Ceiling Systems are certified as GREENGUARD Gold as per the UL 2818 – 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes, and Furnishings.

ENVIRONMENTAL AIR QUALITY

USG ME's ceiling panels do not contain asbestos, carcinogens, mutagens, or toxic substances.

Our ceiling products are classified and certified to have low impact on indoor air quality. Even when installed in a fully furnished room with little fresh air, the concentration of VOCs and Formaldehyde are well below accepted standards.



COMPANY CERTIFICATION AND COMPLIANCE

COMPANY CERTIFICATION AND COMPLIANCE

ISO CERTIFICATION

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM

TUV NORD

CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV Middle East hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Factory of USG Middle East Ltd. Co.
مصنع شركة يو اس جي للشرق الأوسط المحدودة
CR: 2050014850
P.O. Box 7410 (Wasel), Street # 23 Cross 76
2nd Industrial City, 34326-4201 / Dammam
Kingdom of Saudi Arabia

USG ME

with the location:
Branch of Factory of USG Middle East Ltd. فرع مصنع شركة يو اس جي للشرق الأوسط المحدودة
Street # 22 Cross 102, 2nd Industrial City, 34326-4201 / Dammam Kingdom of Saudi Arabia

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed through periodic surveillance audits for conformity within the validity of the certificate.

Scope
Manufacturing of Acoustical Ceiling Panels & Tiles (Mineral Fiber, Soft Fiber, Metal & Gypsum), Ceiling Suspension Systems, Drywall Steel Framing Systems and Interior Finishing Products (Powder and Ready Mix Jointing Compound, Plasters, Skim Coatings)

Certificate Registration No. IAS 01 2200539 — Valid from 20-08-2022
Audit Report No. 8000 1781 — Valid until 19-08-2025
Initial certification 2007

Certification Body
TÜV Middle East — Abu Dhabi, 12-08-2022

TÜV Middle East, Mezzanine Floor, Danat Tower A, Airport Road, P.O. Box 46030, Abu Dhabi, UAE — www.tuvme.com

IAF IAS — MSCB - 254

ISO 45001:2018 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

TUV NORD

CERTIFICATE

Management system as per
ISO 45001 : 2018

The Certification Body TÜV Middle East hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Factory of USG Middle East Ltd. Co.
مصنع شركة يو اس جي للشرق الأوسط المحدودة
CR: 2050014850
P.O. Box 7410 (Wasel), Street # 23 Cross 76
2nd Industrial City, 34326-4201 / Dammam
Kingdom of Saudi Arabia

USG ME

with the location:
Branch of Factory of USG Middle East Ltd. فرع مصنع شركة يو اس جي للشرق الأوسط المحدودة
Street # 22 Cross 102, 2nd Industrial City, 34326-4201 / Dammam Kingdom of Saudi Arabia

operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed through periodic surveillance audits for conformity within the validity of the certificate.

Scope
Manufacturing of Acoustical Ceiling Panels & Tiles (Mineral Fiber, Soft Fiber, Metal & Gypsum), Ceiling Suspension Systems, Drywall Steel Framing Systems and Interior Finishing Products (Powder and Ready Mix Jointing Compound, Plasters, Skim Coatings)

Certificate Registration No. IAS 03 2200539 — Valid from 13-10-2022
Audit Report No. 8000 1783 — Valid until 27-09-2023
Initial certification 2020

Certification Body
TÜV Middle East — Abu Dhabi, 13-10-2022

TÜV Middle East, Mezzanine Floor, Danat Tower A, Airport Road, P.O. Box 46030, Abu Dhabi, UAE — www.tuvme.com

IAF IAS — MSCB - 254

ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM

TUV NORD

CERTIFICATE

Management system as per
ISO 14001 : 2015

The Certification Body TÜV Middle East hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Factory of USG Middle East Ltd. Co.
مصنع شركة يو اس جي للشرق الأوسط المحدودة
CR: 2050014850
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2nd Industrial City, 34326-4201 / Dammam
Kingdom of Saudi Arabia

USG ME

with the location:
Branch of Factory of USG Middle East Ltd. فرع مصنع شركة يو اس جي للشرق الأوسط المحدودة
Street # 22 Cross 102, 2nd Industrial City, 34326-4201 / Dammam Kingdom of Saudi Arabia

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed through periodic surveillance audits for conformity within the validity of the certificate.

Scope
Manufacturing of Acoustical Ceiling Panels & Tiles (Mineral Fiber, Soft Fiber, Metal & Gypsum), Ceiling Suspension Systems, Drywall Steel Framing Systems and Interior Finishing Products (Powder and Ready Mix Jointing Compound, Plasters, Skim Coatings)

Certificate Registration No. IAS 02 2200539 — Valid from 13-10-2022
Audit Report No. 8000 1782 — Valid until 26-04-2024
Initial certification 2018

Certification Body
TÜV Middle East — Abu Dhabi, 13-10-2022

TÜV Middle East, Mezzanine Floor, Danat Tower A, Airport Road, P.O. Box 46030, Abu Dhabi, UAE — www.tuvme.com

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NOTES

NOTES

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/+966 92 003 5672

FACTORY OF USG MIDDLE EAST LTD. CO.
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Kingdom of Saudi Arabia

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INNOVATIVE SOLUTIONS. EVERYTIME.