

**PLASTERBOARD  
& SUBSTRATES**

# **USG MIDDLE EAST WALLBOARD CATALOGUE**

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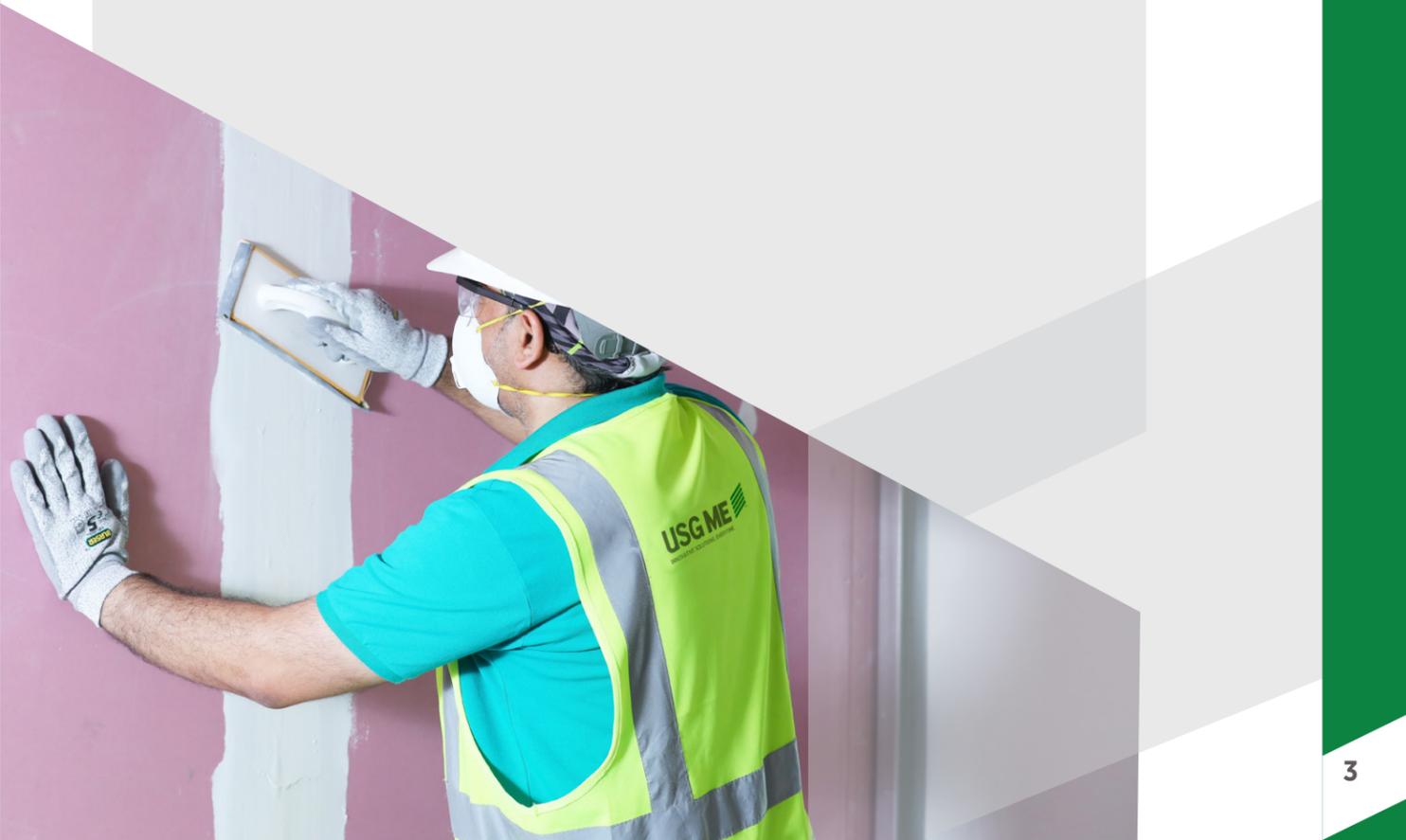
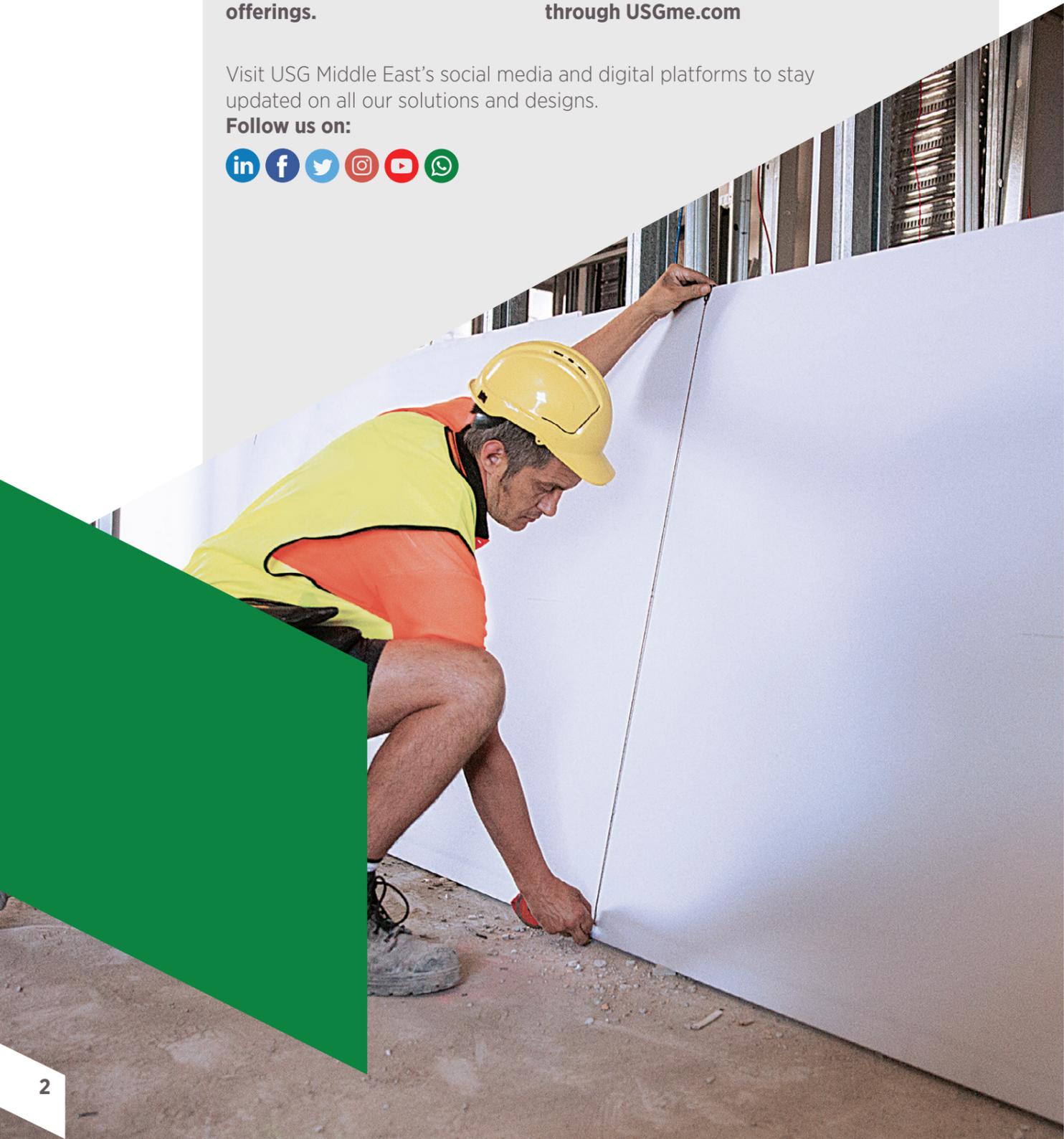
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# SHEETROCK® BRAND GYPSUM BOARD

## SHEETROCK® BRAND GYPSUM BOARD

USG ME is your one-stop shop for gypsum board products. As one of the industry's leading gypsum board manufacturers, our USG Sheetrock® technical Gypsum Board brand is an example of the quality we provide to meet your project's specifications.

Our technical Gypsum Board contains a wide range of Sheetrock® gypsum boards made of a noncombustible gypsum core warped in 100% recycled face and back papers to form a high strength composite design.

The natural finish face paper is folded around the long edges to reinforce and protect the core with square and even cut edges, allowing joints to be reinforced and concealed with USG Middle East Sheetrock® Brand joint treatment systems.

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**Sheetrock® Brand Regular Board**

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**Sheetrock® Brand Flexible Firecode®**

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**Sheetrock® Brand Wetstop**

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**Sheetrock® Brand Firecode® Type X**

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**Sheetrock® Brand Firecode® Type C**

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**Sheetrock® Brand Mold Tough® AR Firecode® X**

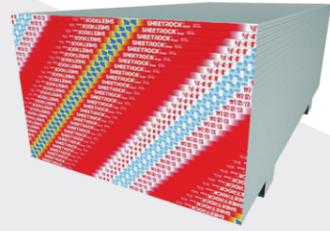
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**Sheetrock® Brand Mold Tough® Gypsum Liner Panel**

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**Sheetrock® Brand Gypsum Liner Panel**

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# SHEETROCK® BRAND REGULAR BOARD

## FEATURES & BENEFITS

### Quality 12.7 mm wall and ceiling panels for interior applications

- Quick installation and decoration
- Resistant to cracking and warping
- Dry construction
- Score and snap easily
- Meet or exceed ASTM C1396, Standard Specification for Gypsum Board
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## DESCRIPTION

Sheetrock® Brand Regular Board are manufactured with a core comprised of fire resistant gypsum encased in 100% recycled face and back papers. The natural finish face paper is folded around the long edges to protect the core and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG ME Sheetrock® Brand joint treatment systems.

## INTENDED FOR

- 12.7 mm panels are recommended for single-layer applications in new residential construction
- Non fire rated single-layer wall and ceiling applications
- New residential, commercial, or repair and remodel construction
- Wood or steel framing

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before during and after installation. Eliminate sources of moisture immediately.
3. Non-load-bearing.
4. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07). Sufficient risers must be used to support the entire length of the gypsum board to prevent sagging.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC <sup>1</sup>
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

#### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

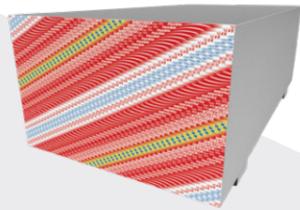
	Sheetrock® Brand Regular Board
Thickness	12.7 mm
Lengths <sup>1</sup>	2400 mm, 2440 mm
Width	1200 mm, 1220 mm
Weight <sup>2</sup> , nominal	7.85 kg/m <sup>2</sup>
Edges	Tapered
Packaging	Two panels per bundle
Surface-burning characteristics per ASTM E84	Class A

#### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## COMPLIANCE

- Meet or exceed ASTM C1396 specifications
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)



# SHEETROCK® BRAND FLEXIBLE FIRECODE®

## FEATURES & BENEFITS

- More flexible than standard 6.4mm Sheetrock® Panels
- Designed to construct curved surfaces easily
- Quick installation and decoration
- Lightweight, fire-resistant dry construction

## DESCRIPTION

Sheetrock® Brand Flexible Firecode® have a noncombustible gypsum core that is encased in a 100 percent recycled face and back paper. The panels are UL classified for fire resistance (type R) and feature tapered edges for easy installation.

## INTENDED FOR

- Curved walls and surfaces
- Interior decoration for iconic projects

## LIMITATIONS

1. Avoid exposure to temperatures exceeding 50 °C.
2. Avoid exposure to excessive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Non-load bearing
4. Application of gypsum panels over an insulating blanket, installed continuously across the face of the framing members, is not recommended. Blankets should be recessed and blanket flanges attached to sides of studs or joists.
5. Painting Systems—for satisfactory results, painting products and systems should be used which comply with recommendations and requirements in Appendices of ASTM C840.

## ADVANTAGES

**Dry construction:** Factory-fabricated gypsum panels eliminate excessive moisture in construction.

**Low in-place cost:** The easily cut gypsum panels apply quickly, permit painting or other decoration, and allow installation of metal or wood trim almost immediately.

**Fire protection:** The gypsum core will not support combustion or transmit temperatures greatly in excess of 100 °C until completely calcined—a slow process.

**Crack resistance:** With joints reinforced by one of USG ME joint systems, Sheetrock® Brand Flexible Firecode® form walls and ceilings that are exceptionally resistant to cracks caused by structural, thermal, and hygrometric changes.

**Nonwarping:** Expansion or contraction under normal atmospheric changes is negligible—won't cause harmful warping or buckling.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## INTERIOR INSTALLATION

Sheetrock® Brand Flexible Firecode® installed in maximum Frame Spacing Drywall Construction as the below table

Application	Condition	Framing Spacing OC <sup>1</sup>	Fastener Spacing <sup>1</sup>	Minimum Bending Radii <sup>2</sup>	
				Gypsum Panel Perpendicular to Framing	Gypsum Panel Parallel to Framing
Inside (concave)	Dry	150mm	Edge: 150mm OC	760mm	510mm
			Field: 200mm OC		
Outside (convex)	Dry	150mm	Edge: 150mm OC	760mm	300mm
			Field: 200mm OC		

### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.
2. Bending radii for gypsum panels were evaluated at 21 °C and 50% relative humidity. Since ambient conditions can influence field results, a mock-up should be constructed with adjustments as needed

## PRODUCT DATA

	Sheetrock® Brand Flexible Firecode®
Thickness	6.4mm
Lengths <sup>1</sup>	2440mm - 3660mm
Width <sup>1</sup>	1220mm
Weight <sup>2</sup> , nominal	5.9 kg/m <sup>2</sup>
Thermal Resistance "R"	0.04 x m <sup>2</sup> /W
Edges	Tapered
Packaging	Two panels per bundle

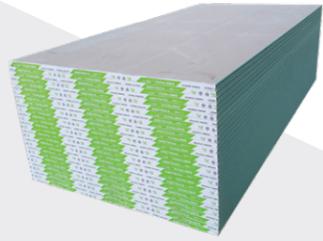
### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## COMPLIANCE

### Compliance with Standards

- Comply with ASTM C1396 for 6.4mm gypsum wallboard
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- UL Classification as to surface-burning characteristics and non-combustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)



# SHEETROCK® BRAND WETSTOP

## FEATURES & BENEFITS

- 12.7 mm and 15.9 mm Wetstop panels for use on walls and ceilings
- Quality interior wall and ceiling panels where moisture resistance is required
- Score and snap easily
- Quick installation and decoration
- The backer for shower and bath areas

## DESCRIPTION

Sheetrock® Brand Wetstop are factory-fabricated, Asbestos free, composed of a noncombustible Gypsum core encased in heavy natural-finish face paper and strong liner paper on the back side.

The moisture resistance of the Gypsum core is increased by adding a specific additives that insures a higher resistance to water penetration. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. Long edges of panels are tapered, allowing joints to be reinforced and concealed with a USG ME Sheetrock® Joint treatment system.

## INTENDED FOR

- Sheetrock® Brand Wetstop Gypsum Panel recommended for single-layer application in residential construction.
- Commercial or residential applications where 12.7 mm and 15.9 mm moisture resistant boards are desired
- New or repair and remodel construction
- Non-fire-rated steel-framed wall and ceiling
- High moisture areas

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Non-load bearing.
4. Consult USG Middle East technical team for the framing spacing.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	Sheetrock® Brand Wetstop	
Thickness	12.7 mm	15.9 mm
Lengths <sup>1</sup>	2400 mm, 2440 mm	2400 mm, 2440 mm
Width	1200 mm, 1220 mm	1200 mm, 1220 mm
Weight <sup>2</sup> , nominal	8.2 kg/m <sup>2</sup>	11.25 kg/m <sup>2</sup>
Edges	Tapered	Tapered
Packaging	Two panels per bundle	Two panels per bundle
Water resistance/water absorption	Not more than 5% weight after 2 hours immersion.	
Thermal Coefficient of Expansion	Unrestrained: 4 - 38 °C: 9.0 x 10 <sup>-6</sup> in./ in./°F (16.2 x 10 <sup>-6</sup> mm/mm/°C)(16.2 μm/m/°C)	
Hygrometric Coefficient of Expansion:	Unrestrained: 5-90% r.h. 7.2 x 10 <sup>-6</sup> in./in./% r.h. (7.2 x 10 <sup>-6</sup> mm/mm/% r.h.) (7.2 μm/m/% r.h.)	

### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## MAXIMUM FRAME SPACING DRYWALL CONSTRUCTION

DIRECT APPLICATION	PANEL THICKNESS	LOCATION	APPLICATION METHOD	MAX. FRAME SPACING OC <sup>1</sup>
Single-Layer	12.7 mm	ceilings	perpendicular	600 mm
			parallel	400 mm
	15.9 mm	sidewalls	parallel or perpendicular	600 mm
			parallel	400 mm
Double-Layer	12.7 mm	ceilings	parallel or perpendicular	600 mm
	15.9 mm	sidewalls	perpendicular	600 mm

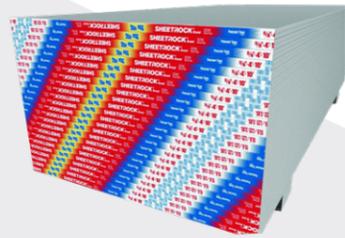
### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## COMPLIANCE

Sheetrock® Brand Wetstop Comply with:

- ASTM C1396/C - 1396m - 04, C630



# SHEETROCK® BRAND FIRECODE® TYPE X

## FEATURES & BENEFITS

### The original 15.9 mm Type X wallboards for interior walls and ceilings

- Provide additional fire resistance over regular panels
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Comply with ASTM C1396 physical properties for 15.9 mm Type X gypsum wallboard
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## DESCRIPTION

USG Sheetrock® Brand Firecode® Type X Panels (UL Type SCX) are 15.9 mm. Type X panels that feature a fire-resistant gypsum core encased in 100% recycled face and back papers that form a high strength composite design. The natural finish face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. USG Sheetrock® Brand Firecode® Type X Panels are UL Classified for fire resistance and can be used in any UL Design where Type SCX panels are listed. The UL Type Designation is printed with nonbleeding ink on the face along the long edge of each panel for easy identification by building inspectors.

## INTENDED FOR

- Commercial or residential applications where 15.9 mm Type X panels are required
- New or repair and remodel construction
- Protection of load-bearing and non-load-bearing wood-or steel-framed fire-rated walls

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Consult USG Middle East technical team for the framing spacing.
4. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07).
5. Not for load-bearing design and not a structural panel.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Panel Thickness	Location	Application Method <sup>1</sup>	Maximum Frame Spacing OC <sup>2</sup>
Single-layer	15.9 mm	Ceilings	Perpendicular	600 mm
		Sidewalls	Parallel or perpendicular	600 mm
Double-layer	15.9 mm	Ceilings	Parallel or perpendicular	600 mm
		Sidewalls	Perpendicular	600 mm

#### Notes:

1. Long edge position relative to framing.
2. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## TEST DATA

Property		ASTM Test Method	ASTM C1396 Specification 15.9 mm Wallboard	UL Type SCX
Noncombustibility	Flame Spread	E136	Pass	Pass
Surface-burning characteristics		E84	Flame Spread Index, not greater than 25	15
	Smoke Developed	E84	Smoke Developed Index, not greater than 450	0
	Classification	E84	-	Class A
Core hardness (lbf)	Field	C473 (B)	Not less than 11	Meets or exceeds
	End	C473 (B)	Not less than 11	Meets or exceeds
	Edge	C473 (B)	Not less than 11	Meets or exceeds
Flexural strength (lbf)	Parallel	C473 (B)	Not less than 46	Meets or exceeds
	Perpendicular	C473 (B)	Not less than 147	Meets or exceeds
Humidified deflection		C473	Not greater than 15.9 mm	Less than
Nail pull resistance (lbf)		C473 (B)	Not less than 87	Meets or exceeds

## PRODUCT DATA

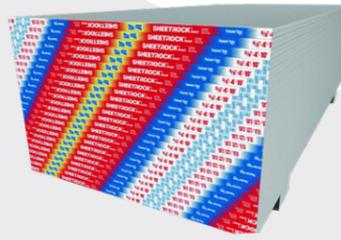
	Sheetrock® Brand Firecode® Type X
Thickness	15.9 mm
Lengths	2400 mm, 2440 mm
Width <sup>1</sup>	1200 mm, 1220 mm
Weight <sup>2</sup> , nominal	11.2 kg/m <sup>2</sup>
Edges	Tapered
Packaging	Two panels per bundle

#### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## COMPLIANCE

- Meet or exceed ASTM C1396 Section 5 for 15.9 mm gypsum wallboard, Type X
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- UL Classification as to fire resistance, surface-burning characteristics and core combustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)



# SHEETROCK® BRAND FIRECODE® TYPE C

## FEATURES & BENEFITS

- Specially formulated mineral core provides superior fire resistance applications
- 12.7 mm and 15.9 mm Type C panels for use on walls and ceilings
  - Feature a noncombustible gypsum core encased in 100% recycled face and back papers
  - Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
  - Comply with ASTM C1396, Standard Specification for Gypsum Board, for 12.7 mm and 15.9 mm Type X
  - Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## DESCRIPTION

Available in 12.7 mm and 15.9 mm thicknesses, USG Sheetrock® Brand Firecode® Type C Panels feature a specially formulated mineral core that provides superior fire resistance for ceiling applications. These panels feature a noncombustible gypsum core encased in 100% recycled face and back papers that form a high strength composite design. The natural finish face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. The panels are UL Classified for fire resistance and can be used in any UL Design in which Type C panels are listed. On the face along the long edge of each panel, the UL Type Designation is printed for easy identification after installation by building inspectors.

## INTENDED FOR

- Commercial or residential applications where Type C panels are required
- New or repair and remodel construction
- Fire-rated wall and ceiling assemblies
- Single-layer, fire-rated ceiling assemblies with insulation in the plenum
- Protection of load-bearing and non-load-bearing wood- or steel-framed fire-rated walls

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801).

## INTERIOR INSTALLATION

USG Sheetrock® Brand Firecode® C Panels install and finish just like standard 12.7 mm and 15.9 mm USG Sheetrock® Brand gypsum panels.

### Maximum Frame Spacing Drywall Construction

Direct Application	Panel Thickness	Location	Application Method <sup>1</sup>	Maximum Frame Spacing OC <sup>3</sup>
Single-layer	12.7 mm	Ceilings	Perpendicular	600 mm
			Parallel <sup>2</sup>	400 mm
		Sidewalls	Parallel or perpendicular	600 mm
			Parallel <sup>2</sup>	400 mm
	15.9 mm	Ceilings	Perpendicular	600 mm
		Sidewalls	Perpendicular	600 mm
Double-layer	12.7 mm	Ceilings	Perpendicular	600 mm
		Sidewalls	Perpendicular	600 mm
	15.9 mm	Ceilings	Parallel or perpendicular	600 mm
		Sidewalls	Perpendicular	600 mm

### Notes:

1. Long edge position relative to framing.
2. Not recommended if water-based texturing material is to be applied.
3. Consult USG Middle East technical team for the framing spacing if fire rating required.

## INTERIOR INSTALLATION

USG Sheetrock® Brand Mold Tough® AR Firecode® Type X Panels are by design stronger and have greater surface hardness than standard 15.9 mm Type X panels. Because of this, they are heavier and will be expectedly more difficult to install. Slower installation production rates should be accounted for in job planning.

Installing Sheetrock® Brand Mold Tough® AR Firecode® X on studs fabricated with steel thinner than true 20-gauge drywall steel studs (0.8 mm design thickness) as defined by the SSMA may result in increased fastener strip-out, improper screw head seating, or other related conditions. The equivalent gauge framing is also more sensitive to screw configuration and thread pitch. Due to the wide variety of "equivalent" or "effective" gauge studs and the variation by manufacturer in actual steel thickness, USG has no specific recommendations for installing Sheetrock® Brand Mold Tough® AR Firecode® X on equivalent gauge.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	Sheetrock® Brand Mold Tough® AR Firecode® X
Thickness	15.9 mm
Lengths and Widths <sup>1</sup>	1200 mm x 2400 mm, 1220 mm x 2440 mm
Weight <sup>2</sup>	13.7 kg/m <sup>2</sup>
Edges	Tapered
Packaging	Two panels per bundle

### Notes:

1. Other lengths available via special order (minimum order quantities may apply).
2. Represents approximate weight for design and shipping purposes.

## TEST DATA

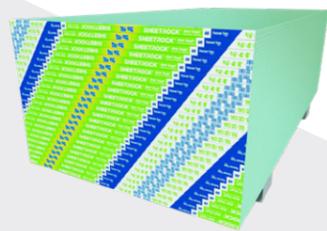
### Moisture and Mold Resistance

- Per ASTM C473 test method, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.
- When tested in accordance with ASTM D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, the panels meet or exceed ASTM C1396 specifications.

*This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.*

## COMPLIANCE

Meets ASTM C1629 Level 2 for abrasion resistance and soft-body impact, and Level 1 for indentation performance.



# SHEETROCK® BRAND MOLD TOUGH® AR FIRECODE® X

## FEATURES & BENEFITS

### Low-cost, abuse-resistant panels with moisture and mold resistance

- Designed and tested to offer greater resistance to surface indentation and impact damage than standard USG Sheetrock® Brand Gypsum Panels
- Meets ASTM C1629 Level 2 for abrasion resistance and soft-body impact, and Level 1 for indentation performance
- Can be used as a tile substrate in any location or area with limited water exposure
- Underwriters Laboratories Inc. (UL) Classification as to fire as to fire resistance, surface burning characteristics and noncombustibility
- USG Sheetrock® Brand Mold Tough® AR Firecode® X Panels have achieved GREENGUARD GOLD Certification

## DESCRIPTION

Sheetrock® Brand Mold Tough® AR Firecode® X have a noncombustible, moisture resistant core that is encased in moisture- and mold-resistant, 100 percent recycled green-face and brown-back papers.

Sheetrock® Brand Mold Tough® AR Firecode® X are available in UL Type Designation AR, and were designed and tested to offer greater resistance to surface indentation and impact damage than standard USG Sheetrock® Brand Gypsum Panels. These panels are a low-cost alternative to other systems for partitions that require greater impact resistance, are UL Classified as to fire resistance and meet the requirements for Type X in the model building code.

The face paper is folded around the long edges to reinforce and protect the core, and the ends are square cut and finished smooth. Long edges of panels are tapered, allowing joints to be reinforced and concealed with a USG joint treatment system.

### Notes

1. Firecode® X Panels. The panels are UL Classified for fire resistance and can be used in any UL
2. Design where Type X panels are listed. On the face along the long edge of each panel, the UL
3. Type Designation is printed for easy identification after installation

## INTENDED FOR

- Areas where moisture and mold resistance is desired
- Commercial applications where greater resistance to indentation and impact damage are required
- New or repair and remodel construction
- Fire-rated wall assemblies

## LIMITATIONS

1. Avoid sustained exposure to temperatures exceeding 50°C.
2. Maximum framing spacing for walls is 400 mm o.c.
3. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
4. Must be stored off the ground and under cover in accordance with Gypsum Association publication GA-801, Handling and Storage of Gypsum Panel Products.
5. For abuse-resistant construction over steel framing, minimum 20-gauge drywall steel studs (0.8 mm design thickness) as defined by the Steel Stud Manufacturers Association (SSMA) are required.
6. Application of Sheetrock® Brand Mold Tough® AR Firecode® X over insulating blanket, installed continuously across the framing members is not recommended. Blankets should be recessed and blanket flanges attached to sides of studs or joists.
7. Not suitable for use as a substrate for tile in wet areas such as tubs and showers, gang showers and other areas subject to direct water exposure.
8. Use as a tile substrate is limited to tile installed according to the most current TCNA and ANSI specifications. Please consult with the adhesive and tile manufacturers for their recommendations for maximum size and weight parameters for use with gypsum board.

## INTERIOR INSTALLATION

USG Sheetrock® Brand Mold Tough® AR Firecode® Type X Panels are by design stronger and have greater surface hardness than standard 15.9 mm Type X panels. Because of this, they are heavier and will be expectedly more difficult to install. Slower installation production rates should be accounted for in job planning.

Installing Sheetrock® Brand Mold Tough® AR Firecode® X on studs fabricated with steel thinner than true 20-gauge drywall steel studs (0.8 mm design thickness) as defined by the SSMA may result in increased fastener strip-out, improper screw head seating, or other related conditions. The equivalent gauge framing is also more sensitive to screw configuration and thread pitch. Due to the wide variety of “equivalent” or “effective” gauge studs and the variation by manufacturer in actual steel thickness, USG has no specific recommendations for installing Sheetrock® Brand Mold Tough® AR Firecode® X on equivalent gauge.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer’s directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	Sheetrock® Brand Mold Tough® AR Firecode® X
Thickness	15.9 mm
Lengths and Widths <sup>1</sup>	1200 mm x 2400 mm, 1220 mm x 2440 mm
Weight <sup>2</sup>	13.7 kg/m <sup>2</sup>
Edges	Tapered
Packaging	Two panels per bundle

### Notes:

1. Other lengths available via special order (minimum order quantities may apply).
2. Represents approximate weight for design and shipping purposes.

## TEST DATA

### Moisture and Mold Resistance

- Per ASTM C473 test method, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.
- When tested in accordance with ASTM D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, the panels meet or exceed ASTM C1396 specifications.

*This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.*

## COMPLIANCE

Meets ASTM C1629 Level 2 for abrasion resistance and soft-body impact, and Level 1 for indentation performance.



# SHEETROCK® BRAND MOLD TOUGH® GYPSUM LINER PANEL

## FEATURES & BENEFITS

### High-performance panels with moisture- and mold-resistance

- Specially designed and engineered for fire resistance rated assemblies
- UL Classified as to fire resistance, surface burning characteristics and noncombustibility
- Comprehensive product and system testing assures long-term performance and safety

## DESCRIPTION

USG Sheetrock® Brand Mold Tough® Gypsum Liner Panel have a noncombustible, moisture- and mold-resistant gypsum core that is encased in moisture- and mold-resistant, 100 percent recycled blue face and back papers. The panels are UL Classified as to fire resistance (Type SLX) and feature double beveled edges for easy installation. Panel may be substituted for USG Sheetrock® Brand Gypsum Liner Panels in all Shaft Wall and Area Separation Firewall systems.

**Note:** USG Sheetrock® Brand Mold Tough® Gypsum Liner Panel, as identified in this document, have been tested for fire resistance, structural and acoustical performance with USG Sheetrock® Brand Shaft Wall and Area Separation Wall Systems framing components. When used together, USG Sheetrock® Brand Shaft Wall and Area Separation Wall System components ensure superior system performance and safety. If alternative system components are used with USG Sheetrock® Brand Mold Tough® Liner Panel, the manufacturer(s) of the substituted component(s) should be consulted to confirm system performance properties

## INTENDED FOR

- Elevator shafts
- Service risers
- Stair shafts
- Horizontal shafts wall ceiling

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Nonload-bearing.
4. Consult USG Middle East technical team for the framing spacing.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

### Size:

610 mm wide and available in 2440, 3050 and 3660 mm lengths. 600 x 2400 mm is available upon request.

### Thickness:

25.4 mm thick.

### Weight:

Approx. 20.1 kg/m<sup>2</sup>

### Labeling:

Each panel bears the Underwriters Laboratories, Inc. Mark as evidence of UL Classifications as to fire resistance, surface burning characteristics and noncombustibility.

## TEST DATA

### Moisture and Mold Resistance

- Per ASTM C473 test method, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.
- When tested in accordance with ASTM D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, the panels meet or exceed ASTM C1396 specifications.

*This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.*

## COMPLIANCE

USG Sheetrock® Brand Mold Tough® Gypsum Liner Panel comply with:

- ASTM C1396.
- ASTM E136 test methods, noncombustible gypsum core.
- ASTM E84 test method, Class A, flame spread index of 20 and smoke developed index of 0.



# SHEETROCK® BRAND GYPSUM LINER PANELS

## FEATURES & BENEFITS

### Shaft liner panels with moisture-resistance

- Scores and snaps easily; no special handling required.
- UL Classified for fire resistance, surface burning characteristics and noncombustibility.
- Comprehensive product and system testing assures long-term performance and safety.

## DESCRIPTION

USG Sheetrock® Brand Gypsum Liner Panels have a non-combustible gypsum core that is encased in a moisture-resistant, 100 percent recycled green face and back paper. The panels are UL/ULC Classified for fire resistance (Type SLX) and feature double beveled edges for easy installation.

**Note:** USG Sheetrock® Brand Gypsum Liner Panels, as identified in this document, have been tested for fire resistance, structural and acoustical performance with USG Sheetrock® Brand Shaft Wall and area separation wall systems framing components. When used together, USG Sheetrock® Brand Shaft Wall and area separation wall system components ensure superior system performance and safety. If alternative system components are used with USG Sheetrock® Brand Liner Panels, the manufacturer(s) of the substituted component(s) should be consulted to confirm system performance properties.

## INTENDED FOR

- Elevator shafts
- Service risers
- Stair shafts
- Horizontal shafts wall ceiling

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Nonload-bearing.
4. Consult USG Middle East technical team for the framing spacing.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

### Size:

610 mm wide and available in 2440, 3050 and 3660 mm lengths. 600 x 2400 mm is available upon request.

### Thickness:

25.4 mm thick

### Weight:

Approx. 20.5 kg/m<sup>2</sup>.

### Labeling:

Each panel bears the Underwriters Laboratories, Inc. Mark as evidence of UL Classifications as to fire resistance, surface burning characteristics and noncombustibility.

## TEST DATA

The product test results listed below ensure that products will perform as intended when designed, specified, installed and maintained according to our printed recommendations as a component of USG Sheetrock® Brand Cavity Shaft Wall System or USG Sheetrock® Brand Area Separation Wall System.

### Flexural Strength:

Parallel	Perpendicular	R Value
35 kg per ASTM test method C473	105 kg per ASTM test method C473	0.65, per ASTM test method C518

## COMPLIANCE

USG Sheetrock® Brand Gypsum Liner Panels comply with ASTM C1396. Per ASTM E136 test methods, gypsum core UL classified as noncombustible. Per ASTM E84, flame spread is 20; smoke developed is 0.

# USG ME BRAND GYPSUM BOARD

## USG ME BRAND GYPSUM BOARD

USG ME Brand Gypsum Boards are an economical, asbestos-free product offered by USG Middle East. Produced at a standard dimension of 1200mm x 2400mm x 12.5mm / 15mm, each board is composed of a noncombustible gypsum core, and encased in a heavy natural-finish paper on the face side and a strong liner paper on the backside.

USG ME Brand Gypsum Boards are available with a regular core for commercial or residential applications where regular panels are desired and with fire-rated core boards when fire-rated wall and ceiling assemblies are required.

USG ME Brand Gypsum Boards are available in a moisture-resistant option and a fire-resistant option as well.

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### USG ME Regular Gypsum Board

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### USG ME Fire rated (FR) Gypsum Board

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### USG ME Moisture Resistant (MR) Gypsum Board

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### USG ME Mold and Moisture Resistant (MMR)

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### USG ME Fire Moisture Resistant (FMR) Gypsum Board

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# USG MIDDLE EAST REGULAR GYPSUM BOARD

## FEATURES & BENEFITS

- Ideal for standards interior wall and ceiling panels
- Economical grade gypsum board
- Quick installation and decoration

## DESCRIPTION

USG Middle East Gypsum Board Standard Core is asbestos free products. Produced in standard dimension 1200mm x 2400mm composed of a noncombustible gypsum core and encased in a heavy natural-finish paper on the face side and a strong liner paper on the back side. The face paper is folded around the long edges to reinforced and protect the core. Board ends are square cut and finished smooth. Long edges of panels are recessed (tapered) allowing joints to be reinforced and concealed with a joint treatment.

## INTENDED FOR

- Commercial or residential applications where regular panels are desired
- New or repair and remodel construction
- Non-fire-rated steel-framed wall and ceiling applications

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before during and after installation. Eliminate sources of moisture immediately.
3. Consult USG Middle East technical team for the framing spacing.
4. Non-load-bearing.
5. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07). Sufficient risers must be used to support the entire length of the gypsum board to prevent sagging.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	USG Middle East Regular Gypsum Board	
Thickness*	12.5 mm	15 mm
Weight <sup>1</sup> , nominal	7.6 kg/m <sup>2</sup>	10.5 kg/m <sup>2</sup>
Lengths <sup>2</sup>	2400 mm	2400 mm
Width	1200 mm	1200 mm
Edges	Tapered	Tapered
Packaging	Two panels per bundle	Two panels per bundle
Surface-burning characteristics per ASTM E84	Class A	Class A

### Notes:

- \* 9.5mm and 16mm thickness is available upon request please contact the nearest sales office.
- 1. Represents approximate weight for design and shipping purposes.
- 2. Other sizes available by special order.

## COMPLIANCE

USG ME Regular Gypsum Board comply with:

- ASTM C1396, DIN EN 520 for Dimensions and Flexural Strength



# USG MIDDLE EAST FIRE RATED (FR) GYPSUM BOARD

## FEATURES & BENEFITS

- USG ME Fire rated (FR) Gypsum Board is a specifically formulated fire-resistant core gypsum board providing an ideal solution for projects where specific fire- resistance ratings are required in partition wall and ceiling systems.
- USG ME Fire rated (FR) Gypsum Board recommended to be installed with USG ME metal framing systems to provide the lightweight structure, fire and acoustic performances.
- These panels feature a noncombustible gypsum core encased in 100% recycled face and back papers that form a high strength composite design.
- The natural finish face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even.
- The panels are classified for fire resistance as per ASTM C1396/C1396 M Type X and EN 520 Type I, F (DIN 18180/BS 1230 Part 1, Type 5)
- USG ME Fire rated (FR) Gypsum Board when used in an acoustic system can provide required levels of sound insulation to achieve specified acoustic ratings.

## DESCRIPTION

USG ME Fire rated (FR) Gypsum Board is a factory produced in a standard wide 1200mm special panel for fire resistance applications. The boards are composed of a noncombustible glass-fiber reinforced gypsum core mixed with special additives, encased in a heavy natural-finish paper on the face side and a strong liner paper on the back side. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square cut and finished smooth. Long edges of panels are recessed (tapered) allowing joints to be reinforced and concealed with USG Middle East sheetrock® brand Jointing Compounds.

## INTENDED FOR

- Commercial or residential applications where Firestop™ panels are required
- Fire-rated wall and ceiling assemblies
- Protection of load-bearing and non-load-bearing steel-framed fire-rated walls

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Intended for interior applications only and must be kept dry during handling and storage.
3. Exercise care and caution when lifting the panels.
4. Consult USG Middle East technical team for the framing spacing.
5. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07)
6. Not for load-bearing design and not a structural panel.
7. Must be stored off the ground and under cover.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC <sup>1</sup>
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

#### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	USG Middle East Fire rated (FR) Gypsum Board		
Thickness	12.5 mm	15 mm	16 mm
Weight <sup>1</sup> , nominal	8.9 kg/m <sup>2</sup>	10.7 kg/m <sup>2</sup>	11.4 kg/m <sup>2</sup>
Lengths <sup>2</sup>	2400 mm	2400 mm	2400 mm
Width	1200 mm	1200 mm	1200 mm
Edges	Tapered	Tapered	Tapered
Packaging	Two panels per bundle	Two panels per bundle	Two panels per bundle
Surface-burning characteristics per ASTM E84	Flame spread: < 25 Smoke development: 0 Classification: Class A	Flame spread: < 25 Smoke development: 0 Classification: Class A	Flame spread: < 25 Smoke development: 0 Classification: Class A

#### Notes:

1. Represents approximate weight for design and shipping purposes.
2. Other sizes available by special order.

## COMPLIANCE

USG ME Fire rated (FR) Gypsum Board comply with:

- ASTM C1396/C1396 M Type X
- EN 520 Type I, F (DIN 18180/BS 1230 Part 1, Type 5)
- Surface burning in accordance with ASTM E84 gives flame spread < 25

## SUSTAINABILITY

- USG ME Fire rated (FR) Gypsum Board is manufactured using 100% recycled liner paper.
- USG ME Fire rated (FR) Gypsum Board has been independently certified by Good Environmental Choice Australia (GECA) and complies with requirements of GECA 04-2011 v2 - Panel Boards Standard.
- Independently tested for VOC and formaldehyde.
- The use of USG ME Fire rated (FR) Gypsum Board may contribute credit points when assessed under various Green Star Rating Tools
- USG ME Fire rated (FR) Gypsum Board when used in an acoustic system can provide required levels of sound insulation to achieve specified acoustic ratings



# USG MIDDLE EAST MOISTURE RESISTANT (MR)

## FEATURES & BENEFITS

- Quality interior wall and ceiling panels for wet areas
- Score and snap easily
- Quick installation and decoration
- Can be used as a backer for shower and bath areas

## DESCRIPTION

USG ME Moisture Resistant (MR) Gypsum Board is a factory produced, asbestos free, 1200x2400mm standard panel size composed of a noncombustible gypsum core is encased in a heavy natural-finish paper on the face side and a strong liner paper on the back side. The moisture resistance of the gypsum core is increased by adjunction of specific additives that ensures a higher resistance to water penetration. The face paper is folded around the long edges to reinforce and protect the core, the ends are square cut and finished smooth. Long edges of panels are recessed (tapered) allowing joints to be reinforced and concealed with a joint treatment.

## INTENDED FOR

- Commercial or residential applications where Moisture Resistant panels are desired
- New or repair and remodel construction
- Non-fire-rated steel-framed wall and ceiling
- New or repair and remodel construction
- High moisture areas

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50 °C.
2. Avoid exposure to excessive, repetitive or continuous moisture before during and after installation. Eliminate sources of moisture immediately.
3. Non-load-bearing.
4. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07). Sufficient risers must be used to support the entire length of the gypsum board to prevent sagging.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC <sup>1</sup>
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

#### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	USG Middle East Moisture Resistant (MR) Gypsum Board	
Thickness	12.5 mm	15 mm
Weight <sup>1</sup> , nominal	10.5 kg/m <sup>2</sup>	12.8 kg/m <sup>2</sup>
Lengths <sup>2</sup>	2400 mm	2400 mm
Width	1200 mm	1200 mm
Edges	Tapered	Tapered
Water resistance/water absorption	Not more than 10% weight after 2 hours immersion.	
Packaging	Two panels per bundle	
Surface-burning characteristics per ASTM E84	Class A	

#### Notes:

1. Represents approximate weight for design and shipping purposes.
2. Other sizes available by special order.

## COMPLIANCE

USG ME Moisture Resistant (MR) Gypsum Board comply with:

- ASTM C1396, DIN EN 520 for Dimensions and Flexural Strength



# USG MIDDLE EAST MOLD AND MOISTURE RESISTANT (MMR)

## FEATURES & BENEFITS

### High-performance Interior Wall Panels with Moisture and Mold Resistance

- Quality interior wall and ceiling panels for mold and wet areas
- Scores and snaps easily for quick installation
- Quick installation and decoration
- Can be used in protected exterior soffit applications
- Installs and finishes similar to standard drywall
- Classified as to fire resistance, surface-burning characteristics and non-combustibility

## DESCRIPTION

USG ME Mold and Moisture Resistant (MMR) boards are high performance interior panels for new construction or renovation work. The panels have a non-combustible moisture- and mold-resistant core encased in a moisture-resistant heavy natural-finish paper that sheds water and features tapered long edges for easy finishing. The board facer is colored to match traditional drywall and is engineered to accept the application of USG Middle East finishing systems. The face paper is folded around the long edges to reinforce and protect the core, the ends are square cut and finished smooth. Long edges of panels are recessed (tapered) allowing joints to be reinforced and concealed with a joint treatment.

## ADVANTAGES

**Mold-resistant:** Scores a 10 (highest) when tested in accordance with ASTM D3273.  
**Moisture-resistant:** Moisture-resistant gypsum core with heavy natural-finish paper that sheds water.  
**Quick Installation:** Simple score-and-snap, with no sawing or special tools required.

## INTENDED FOR

- Healthcare, commercial or residential applications where Mold and Moisture Resistant (MMR) boards are desired
- New or repair and remodel construction
- Non-fire-rated steel-framed wall and ceiling
- High moisture areas

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Maximum framing spacing is 600mm centers.
3. Intended for interior applications only and must be kept dry during handling and storage.
4. USG ME Mold and Moisture Resistant (MMR) boards offer resistance to normal weather conditions but are not intended for constant exposure to water. Protect from immersion in water and the eroding effects of cascading water.
5. The building must be dried-in prior to installation in soffits and other horizontal applications.
6. Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed-up and application of interior finishing. Insulation in the wall or floor cavities must be dry.
7. Not suitable for use as a substrate for tile in wet areas such as tubs, showers, and gang showers, as well as other areas subject to direct water exposure. Please consult with the adhesive and tile manufacturers for their recommendations for maximum size and weight parameters for use with gypsum board.
8. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07). Sufficient risers must be used to support the entire length of the gypsum board to prevent sagging.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC <sup>1</sup>
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

#### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For high-quality finishing results, USG ME recommends the following products:

- USG Sheetrock® Brand All Purpose Joint Compound
- USG Sheetrock® Brand Setting-Type Joint Compounds
- USG Sheetrock® Brand Joint Tape
- USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer

Panels should not be finished until building is completely enclosed. The nature of the texture and absorption properties of the panel will require an additional skim coat on the entire panel surface with joint compound in most applications such as USG ME Easycoat Advanced Formula Ready Mixed Compound. Additionally, an aesthetic benchmark or mock-up is recommended for establishing and demonstrating an approved finishing system to coordinate the expectations of the design professionals with those of the contracted workforce. The finished appearance of the constructed standard should be approved in advance of any widespread work.

Painting products and systems used should comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with an undiluted interior latex flat paint with high-solids content. Allow to dry before decorating.

## PRODUCT DATA

	USG Middle East Mold and Moisture Resistant (MMR)	
Thickness	12.5 mm	15 mm
Weight <sup>1</sup> , nominal	9.4 kg/m <sup>2</sup>	11.25 kg/m <sup>2</sup>
Lengths <sup>2</sup>	2400 mm	
Width	1200 mm	
Edges	Tapered	
Combustibility	Non-combustible	
Water absorption (% of weight)	<10	
Packaging	Two panels per bundle	
Surface-burning characteristics per ASTM E84	Classification: Class A	

#### Notes:

1. Represents approximate weight for design and shipping purposes.
2. Other sizes available by special order.

## COMPLIANCE

USG ME Mold and Moisture Resistant (MMR) comply with

- ASTM D3273
- Surface burning characteristics per ASTM E84
- ASTM C1396, DIN EN 520 for Dimensions and Flexural Strength
- Qualifies as a low VOC-emitting material



# USG MIDDLE EAST FIRE MOISTURE RESISTANT (FMR)

## FEATURES & BENEFITS

- Quality interior wall and ceiling panels where fire resistance is required in wet areas
- Score and snap easily
- Quick installation and decoration

## ADVANTAGE

USG Middle East Fire Moisture Resistant (FMR) Gypsum Board is a factory produced in a standard wide 1200mm special panel combining the water-resistance and fire resistance of wet area and firestop boards. The boards are composed of a noncombustible glass-fiber reinforced gypsum core mixed with special additives, encased in a heavy natural-finish paper on the face side and a strong liner paper on the back side. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square cut and finished smooth. Long edges of panels are recessed (tapered) allowing joints to be reinforced and concealed with USG Middle East sheetrock® brand Jointing Compounds.

## INTENDED FOR

- Commercial or residential applications where WetStop Firestop® panels are required
- New or repair and remodel construction
- Fire-rated walls and ceilings assemblies
- Protection of load-bearing and non-load-bearing steel frame fire-rated walls
- New or repair and remodel construction
- High moisture areas

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Intended for interior applications only and must be kept dry during handling and storage.
3. Exercise care and caution when lifting the panels.
4. Consult USG Middle East technical team for the framing spacing.
5. Must be stored off the ground and under cover in accordance with Gypsum Association's Handling and Storage of Gypsum Panel Products (GA-801-07)
6. Not for load-bearing design and not a structural panel.
7. Must be stored off the ground and under cover.

## INTERIOR INSTALLATION

### Maximum Frame Spacing Drywall Construction

Direct Application	Location	Application Method	Maximum Frame Spacing OC <sup>1</sup>
Single-layer	Ceilings	Perpendicular	600 mm
		Parallel	600 mm
	Sidewalls	Perpendicular or parallel	600 mm
		Parallel	600 mm
Double-layer	Ceilings	Perpendicular	600 mm
	Sidewalls	Perpendicular or parallel	600 mm

#### Notes:

1. Consult USG Middle East technical team for the framing spacing if fire rating required and if water-based texturing material is to be applied.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East Sheetrock® Brand All Purpose Joint Compound, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide® Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG All Purpose Joint Compound or primed with Sheetrock® Tuff-Hide® Primer-Surfacer to equalize suction before painting.

## PRODUCT DATA

	USG Middle East Fire Moisture Resistant (FMR) Gypsum Board		
Thickness	12.5 mm	15 mm	16 mm
Weight <sup>1</sup> , nominal	10.5 kg/m <sup>2</sup>	12.5 kg/m <sup>2</sup>	13.4 kg/m <sup>2</sup>
Lengths <sup>2</sup>	2400 mm	2400 mm	2400 mm
Width	1200 mm	1200 mm	1200 mm
Edges	Tapered	Tapered	Tapered
Packaging	Two panels per bundle	Two panels per bundle	Two panels per bundle
Surface-burning characteristics per ASTM E84	Class A	Class A	Class A

#### Notes:

1. Represents approximate weight for design and shipping purposes.
2. Other sizes available by special order.

## COMPLIANCE

USG ME Fire Moisture Resistant (FMR) Gypsum Board comply with:

- ASTM C1396/C1396 M Type X
- EN 520 Type I, F (DIN 18180/BS 1230 Part 1, Type 5)
- Surface burning in accordance with ASTM E84 gives flame spread < 25

# SECUROCK® BRAND GYPSUM BOARD

## SECUROCK® BRAND GYPSUM BOARD

One of the best drywall substrate solutions we offer builders and contractors is Securock® Brand Gypsum Board. Made of moisture- and mold-resistant gypsum core encased in a moisture- and mold-resistant glass mat. Available in a variety of thicknesses.

We offer a superior tile bond that holds up to 75kg per square meter in cladding and scores a 10 out of 10 on the ASTM D3273 test for resistance to mold and mildew under ideal fungal growth conditions.

Securock® Brand Gypsum Board is UL Classified for fire resistance, surface-burning characteristics, and non-combustibility. It is used in both exterior and interior areas, wet areas, Shaftwall, and low-slope roofing systems.

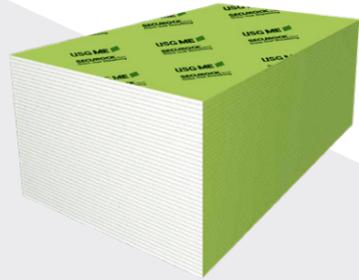
Our Securock® Gypsum Board panels provide long-lasting durability and resistance to mold and moisture.

**Securock® Brand Glass-Mat Sheathing Regular**

**Securock® Brand Glass-Mat Sheathing Type X**

**Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel**

**Securock™ Brand Glass-Mat Panels Mold Tough™**



# SECUROCK® BRAND GLASS-MAT SHEATHING REGULAR

## FEATURES & BENEFITS

**Quality, High-performance Sheathing for Warranted Protection as weather-resistant barrier**

- 12.7mm treated gypsum core, combined with fiberglass face and back, offers exceptional water resistance
- High resistance to mold and mildew, scoring a 10 (highest) when tested in accordance with ASTM D3273. Glass-Mat Sheathing facer on both sides sheds water
- Quick score and snap, with neither sawing or special tools nor rapid screws or nail attachments required
- For use in most exterior systems when properly detailed by exterior finish manufacturer
- Meets or exceeds the requirements of ASTM C1177
- Can be exposed to weather for up to 12 months after application.
- USG Securock® Glass-Mat Sheathing Regular is guaranteed for five years against manufacturing defects and for 12 months of weather exposure.

## DESCRIPTION

USG Securock® Brand Glass-Mat Sheathing Regular is moisture- and mold-resistant panel designed for use in high wet area and under exterior claddings where conventional gypsum sheathing products have traditionally been used, such as brick veneer, properly detailed Exterior Insulation Finish Systems (EIFS), Direct-applied Exterior Finishing System (DEFS), metal panel finishing, clapboard siding, shingle siding, shake siding and conventional stucco.

## INTENDED FOR

- Exterior Cladding
- High moisture areas
- Commercial or residential applications where water resistant panels with greater resistance to surface abrasion, indentation and impact damage are required
- Areas where glass-mat panels are desired
- Load-bearing and non-load-bearing steel-framed fire-rated walls
- New or repair and remodel construction

## LIMITATIONS

1. Avoid sustained exposure to temperatures exceeding 50°C.
2. Must be stored off the ground and under cover in accordance with Gypsum Association's GA-801, Handling and Storage of Gypsum Panel Products.
3. These panels offer resistance to normal weather conditions, but are not intended for constant exposure to water. Protect panels from immersion in water and the eroding effects of cascading, pooling and/or ponding water.
4. Avoid conditions during construction that result in excessive moisture load in the building. High moisture can cause condensation in the unfinished exterior walls during periods of cold weather. Forced air heaters, wet masonry, poured concrete and finishing materials introduce large volumes of water vapor into the building as they cure or dry. Use ventilation and mechanical dehumidification to reduce moisture levels to below the dew point temperature of the exterior air. Any damage resulting from insufficient interior moisture management during construction is not the responsibility of USG ME.
5. Panels are not to be used as a base for nailing or other fastening; mechanical attachment of exterior claddings must be made directly to the framing.
6. Panels are not to be directly laminated to masonry surfaces; use furring strips or framing.
7. Panels are not intended as a substrate for adhered tile applications.
8. For protected exterior ceiling and soffit applications, the panels must be protected from direct exposure to weather.
9. For parapet applications, hot mopping and torching of the roofing membrane to the panels is not recommended. The use of a synthetic rubberized membrane with an adhesive backer is recommended for this application.

## DELIVERY AND STORAGE OF MATERIALS

All materials shall be stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises. Prior to installation, panels should be stacked flat (unless the contractor in charge of site safety directs otherwise to avoid point overloading of the structure or a tripping hazard) and reasonably protected from the elements.

**Warning:** Store all USG Securock® Glass-Mat panels flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized. Panels 3660mm in length will be in banded units. To ensure safety and performance of the product, use of a forklift truck with ship minimum (900mm) span between the forks when moving the banded units is recommended. Keep the nylon bands on each lift until individual boards are moved.

## EXTERIOR INSTALLATION

Panels shall be installed in accordance with Gypsum Association's GA-253, Application of Gypsum Sheathing, ASTM C1280, Standard Specification for Application of Gypsum Sheathing. Details for construction of a specific assembly to achieve a required fire-resistance-rating shall be installed in accordance with the published design. Details and requirements pertaining to framing and application limitations shall be controlled by the weather-resistive barrier requirements, cladding, structural or fire-resistance-rated system, and must be approved by the architect, engineer or design professional of record.

Where resistance to racking shear and/or transverse wind load is required, system design capacities shall be obtained from USG ME technical department, engineering evaluations and/or test reports of a specific assembly where mandated by local code requirements.

## PRODUCT DATA

	Securock® Brand Glass-Mat Sheathing Regular
Thickness	12.7 mm
Lengths	2400 mm
Width <sup>1</sup>	1200 mm
Weight <sup>2</sup> , nominal	11.1 kg/m <sup>2</sup>
Edges	Square edges
Packaging	Two panels per bundle

### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## TEST DATA

Property	ASTM Method	Securock® Brand Glass-Mat Sheathing Regular
Non-combustibility	E 136	Meets
Surface burning characteristics	E 84	Class A
Core hardness <sup>3</sup> (Field, End, Edge)	C473 (B)	Meets
Flexural strength <sup>3</sup>	C473 (B)	Meets
Humidified deflection	C473	Meets
Nail pull resistance <sup>5</sup>	C473 (B)	Meets
Bending radius (dry) <sup>4</sup>		2.7 m (9 ft.)
R-Value	C518	0.07 K•m <sup>2</sup> /W
Water vapor performance	E96	34.4 perms (1693 ng/Pa.s.m <sup>2</sup> )
Linear expansion with moisture changes <sup>5</sup>		11.25 x 10 <sup>-6</sup> mm/mm %RH
Coefficient of thermal expansion	D4535	15.3 mm/mm/°C

### Notes:

3. Per ASTM C1177 for 1/2 in. (12.7 mm) glass-mat gypsum substrate.
4. Due to the variability in environmental conditions of each installation, the framing and fastener spacing of curved walls should be reduced as the radius approaches the minimum allowed. At the minimum radius, it is recommended that fastener and frame spacing be 150 mm OC.
5. Per GA-235, Gypsum Board Typical Mechanical and Physical Properties.

## DESIGN SHEAR CAPACITIES<sup>6</sup>

Panel Orientation to Framing	Frame Spacing (OC)	Fastener Type	Fastener Spacing (OC)		Design Shear
			Perimeter	Field	
Parallel	600mm	#6 Bugle Head Screw	100	200	268.1 kg/m
Parallel	600mm	Hot Dipped Galv. Roofing Nail	100	200	220.7 kg/m

### Notes:

6. Based on testing per ASTM E72, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction. Capacities represent the ultimate capacity divided by a 3.0 Safety Factor.

**WIND LOAD DESIGN CAPACITIES<sup>7</sup>**

Frame Spacing	Fastener Spacing	Allowable Pressure
300mm	100mm	96 psf (4.6 kPa)
	150mm	70 psf (3.4 kPa)
	200mm	50 psf (2.4 kPa)
400mm	100mm	75 psf (3.6 kPa)
	150mm	50 psf (2.4 kPa)
	200mm	46 psf (2.2 kPa)
600mm	100mm	36 psf (1.7 kPa)
	150mm	27 psf (1.3 kPa)
	200mm	25 psf (1.2 kPa)

**Notes:**  
 7. Based on testing per ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference. Applicable for both wood and steel framing. Allowable capacities are based on a maximum deflection of L/360. Allowable capacities represent the ultimate capacity of the panel to resist fastener pull-through and/or flexural failure using a 3.0 Safety Factor. The withdrawal resistance of fasteners from framing is different on several factors, including but not limited to, fastener type, fastener length and framing properties. The specification of fasteners is the responsibility of the designer of record.

**MOISTURE AND MOLD RESISTANCE**

Based on testing per ASTM C473, Test Methods for Physical Testing of Gypsum Panel Products, the average water absorption for USG Securock® Brand Glass-Mat Sheathing Regular is not greater than 10% by weight after two-hour immersion. In independent lab tests conducted per ASTM D3273 at the time of manufacture, the panels score a "10", meeting ASTM C1177 specifications. This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

**COMPLIANCE**

- Securock® Brand Glass-Mat Sheathing Regular comply with:
- Comply with ASTM C1177 for 1/2 in. (12.7 mm) Regular and glass-mat water-resistant gypsum substrate
  - Classified as a Class A Interior Finish Material per the International Building Code® (IBC®)
  - UL Classification of 1/2 in. (12.7 mm) panels as to surface burning characteristics and noncombustibility
  - Meets or exceeds the requirements for an Air Barrier Material when tested in accordance with ASTM E2178, Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials, and defined in the 2021 International Energy Conservation Code®
  - Third-party performance evaluations with most commonly specified fasteners and finishing systems for the requirements of extreme weather applications



# SECUROCK® BRAND GLASS-MAT SHEATHING TYPE X

**FEATURES & BENEFITS**

**Quality, High-performance Sheathing for Warranted Protection as weather-resistant barrier**

- Provide additional fire resistance over Securock® 12.7mm regular panels
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Comply with ASTM C1396 physical properties for 15.9 mm Type X gypsum wallboard
- 15.9mm treated gypsum core, combined with fiberglass face and back, offers exceptional water resistance
- High resistance to mold and mildew, scoring a 10 (highest) when tested in accordance with ASTM D3273. Glass-Mat Sheathing facer on both sides' sheds water
- Quick score and snap, with neither sawing or special tools nor rapid screws or nail attachments required
- For use in most exterior systems when properly detailed by exterior finish manufacturer
- Meets or exceeds the requirements of ASTM C1177
- Can be exposed to weather for up to 12 months after application.
- USG Securock® Glass-Mat Sheathing Type X is guaranteed for five years against manufacturing defects and for 12 months of weather exposure.

**DESCRIPTION**

USG Securock® Brand Glass-Mat Sheathing Type X is a non-combustible, moisture- and mold-resistant panel designed to be used where the fire resistant board is required in high wet area and under exterior claddings where conventional gypsum sheathing products have traditionally been used, such as brick veneer, properly detailed Exterior Insulation Finish Systems (EIFS), Direct-applied Exterior Finishing System (DEFS), metal panel finishing, clapboard siding, shingle siding, shake siding and conventional stucco.

**INTENDED FOR**

- Commercial or residential applications where 15.9 mm Glass-Mat Sheathing Type X panels are required
- Exterior Cladding
- High moisture areas
- Commercial or residential applications where water resistant panels with greater resistance to surface abrasion, indentation and impact damage are required
- Areas where glass-mat panels are desired
- Load-bearing and non-load-bearing steel-framed fire-rated walls
- New or repair and remodel construction

**LIMITATIONS**

1. Avoid sustained exposure to temperatures exceeding 50°C.
2. Must be stored off the ground and under cover in accordance with Gypsum Association's GA-801, Handling and Storage of Gypsum Panel Products.
3. These panels offer resistance to normal weather conditions, but are not intended for constant exposure to water. Protect panels from immersion in water and the eroding effects of cascading, pooling and/or ponding water.
4. Avoid conditions during construction that result in excessive moisture load in the building. High moisture can cause condensation in the unfinished exterior walls during periods of cold weather. Forced air heaters, wet masonry, poured concrete and finishing materials introduce large volumes of water vapor into the building as they cure or dry. Use ventilation and mechanical dehumidification to reduce moisture levels to below the dew point temperature of the exterior air. Any damage resulting from insufficient interior moisture management during construction is not the responsibility of USG ME.
5. Panels are not to be used as a base for nailing or other fastening; mechanical attachment of exterior claddings must be made directly to the framing.
6. Panels are not to be directly laminated to masonry surfaces; use furring strips or framing.

**DELIVERY AND STORAGE OF MATERIALS**

7. Panels are not intended as a substrate for adhered tile applications.
8. For protected exterior ceiling and soffit applications, the panels must be protected from direct exposure to weather.
9. For parapet applications, hot mopping and torching of the roofing membrane to the panels is not recommended. The use of a synthetic rubberized membrane with an adhesive backer is recommended for this application.

All materials shall be stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises. Prior to installation, panels should be stacked flat (unless the contractor in charge of site safety directs otherwise to avoid point overloading of the structure or a tripping hazard) and reasonably protected from the elements.

**Warning:** Store all USG Securock® Glass-Mat panels flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized. Panels 3660mm in length will be in banded units. To ensure safety and performance of the product, use of a forklift truck with ship minimum (900mm) span between the forks when moving the banded units is recommended. Keep the nylon bands on each lift until individual boards are moved.

**EXTERIOR INSTALLATION**

Panels shall be installed in accordance with Gypsum Association's GA-253, Application of Gypsum Sheathing, ASTM C1280, Standard Specification for Application of Gypsum Sheathing. Details for construction of a specific assembly to achieve a required fire-resistance-rating shall be installed in accordance with the published design. Details and requirements pertaining to framing and application limitations shall be controlled by the weather-resistive barrier requirements, cladding, structural or fire-resistance-rated system, and must be approved by the architect, engineer or design professional of record.

Where resistance to racking shear and/or transverse wind load is required, system design capacities shall be obtained from USG ME technical department, engineering evaluations and/or test reports of a specific assembly where mandated by local code requirements.

**PRODUCT DATA**

	Securock® Brand Glass-Mat Sheathing Type X
Thickness	15.9 mm
Lengths	2400 mm
Width <sup>1</sup>	1200 mm
Weight <sup>2</sup> , nominal	13.5 kg/m <sup>2</sup>
Edges	Square edges
Packaging	Two panels per bundle

- Notes:**  
 1. Other sizes available by special order.  
 2. Represents approximate weight for design and shipping purposes.

**TEST DATA**

Property	ASTM Method	Securock® Brand Glass-Mat Sheathing Type X
Non-combustibility	E 136	Meets
Surface burning characteristics	E 84	Class A
Core hardness <sup>3</sup> (Field, End, Edge)	C473 (B)	Meets
Flexural strength <sup>3</sup>	C473 (B)	Meets
Humidified deflection	C473	Meets
Nail pull resistance <sup>3</sup>	C473 (B)	Meets
Bending radius (dry) <sup>4</sup>		2.7 m (9 ft.)
R-Value	C518	0.09 K•m <sup>2</sup> /W
Water vapor performance	E96	28.6 perms (1609 ng/Pa.s.m <sup>2</sup> )
Linear expansion with moisture changes <sup>5</sup>		11.25 x 10 <sup>-6</sup> mm/mm %RH
Coefficient of thermal expansion	D4535	15.3 mm/mm/°C

- Notes:**  
 3. Per ASTM C1177 for 5/8 in. (15.9 mm) glass-mat gypsum substrate.  
 4. Due to the variability in environmental conditions of each installation, the framing and fastener spacing of curved walls should be reduced as the radius approaches the minimum allowed. At the minimum radius, it is recommended that fastener and frame spacing be 150 mm OC.  
 5. Per GA-235, Gypsum Board Typical Mechanical and Physical Properties.

**DESIGN SHEAR CAPACITIES<sup>6</sup>**

Panel Orientation to Framing	Frame Spacing (OC)	Fastener Type	Fastener Spacing (OC)		Design Shear
			Perimeter	Field	
Parallel	600mm	#6 Bugle Head Screw	100	200	268.1 kg/m
Parallel	600mm	Hot Dipped Galv. Roofing Nail	100	200	220.7 kg/m

**Notes:**  
 6. Based on testing per ASTM E72, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction. Capacities represent the ultimate capacity divided by a 3.0 Safety Factor.

**WIND LOAD DESIGN CAPACITIES<sup>7</sup>**

Frame Spacing	Fastener Spacing	Allowable Pressure
300mm	100mm	96 psf (4.6 kPa)
	150mm	70 psf (3.4 kPa)
	200mm	50 psf (2.4 kPa)
400mm	100mm	75 psf (3.6 kPa)
	150mm	50 psf (2.4 kPa)
	200mm	46 psf (2.2 kPa)
600mm	100mm	36 psf (1.7 kPa)
	150mm	27 psf (1.3 kPa)
	200mm	25 psf (1.2 kPa)

**Notes:**  
 7. Based on testing per ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference. Applicable for both wood and steel framing. Allowable capacities are based on a maximum deflection of L/360. Allowable capacities represent the ultimate capacity of the panel to resist fastener pull-through and/or flexural failure using a 3.0 Safety Factor. The withdrawal resistance of fasteners from framing is different on several factors, including but not limited to, fastener type, fastener length and framing properties. The specification of fasteners is the responsibility of the designer of record.

**MOISTURE AND MOLD RESISTANCE**

Based on testing per ASTM C473, Test Methods for Physical Testing of Gypsum Panel Products, the average water absorption for USG Securock® Brand Glass-Mat Sheathing Type X is not greater than 10% by weight after two-hour immersion. In independent lab tests conducted per ASTM D3273 at the time of manufacture, the panels score a "10", meeting ASTM C1177 specifications. This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

**COMPLIANCE**

- Securock® Brand Glass-Mat Sheathing Type X comply with:
- Comply with ASTM C1177 for 5/8 in. (15.9 mm) Type X and glass-mat water-resistant gypsum substrate
  - Classified as a Class A Interior Finish Material per the International Building Code® (IBC®)
  - UL Classification of 5/8 in. (15.9 mm) Type X as to surface burning characteristics and noncombustibility
  - Meets or exceeds the requirements for an Air Barrier Material when tested in accordance with ASTM E2178, Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials, and defined in the 2021 International Energy Conservation Code®
  - Third-party performance evaluations with most commonly specified fasteners and finishing systems for the requirements of extreme weather applications



# SECUROCK® BRAND GLASS-MAT MOLD TOUGH® FIRECODE® LINER PANEL

## FEATURES & BENEFITS

- High-performance glass-mat panels with moisture and mold resistance for use in USG Middle East shaftwall and area separation wall systems
- Direct substitute for USG Sheetrock® Brand gypsum liner panels and USG Sheetrock® Brand Mold Tough™ gypsum liner panels when prolonged weather exposure is anticipated
- UL Classified as to fire resistance, surface burning characteristics and non combustibility
- Comprehensive product and system testing ensures long-term performance and safety

## DESCRIPTION

Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel have a non-combustible, moisture- and mold-resistant gypsum core that is encased in a moisture- and mold-resistant glass mat. The panels are UL Classified as to fire resistance (Type SLX) and feature double-beveled edges for easy installation. Panel may be substituted for USG Sheetrock® Brand gypsum liner panels and USG Sheetrock® Brand Mold Tough gypsum liner panels in all USG Middle East Sheetrock® Brand shaft wall and area separation wall systems.

**Note:** These Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel have been tested for fire resistance, structural performance and sound control only when used with USG Sheetrock® Brand shaft wall and area separation wall framing components. All USG Sheetrock® Brand shaft wall and area separation wall system components must be used together to ensure superior system performance and safety. Substitutions of any components are not recommended and are not endorsed by USG Middle East.

## INTENDED FOR

- Elevator shafts
- Service risers
- Stair shafts
- Horizontal shafts wall ceiling

## ADVANTAGES

**Mold-resistant:** Scores a 10 (highest) when tested in accordance with ASTM D3273.

**Resists Water:** Glass-Mat Sheathing facer on both sides sheds water.

**Quick and Dry Installation:** Quick score-and-snap, with no sawing or special tools needed.

**Exposure:** Can be exposed to weather for up to 12 months after application.

**Warranted Performance:** Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel is guaranteed for five years against manufacturing defects and has a 12-month limited-exposure warranty.

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel offer resistance to normal weather conditions but are not intended for constant exposure to water. Protect this and all similar materials from immersion in water and the eroding effects of cascading water.
3. Non-load-bearing.
4. Not for use in unlined air-supply ducts.

## FINISHING AND DECORATING

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East DUROCK® Basecoat, General Purpose Basecoat, or Easy Coat Advanced Formula All Purpose Wall Putty, must be thoroughly dry, dust free, and not glossy. A prime coat of Sheetrock® Tuff-Hide Primer-Surfacer should be applied and allowed to dry before decorating when a Level 5 finish is required. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG Middle East Easy Coat Advanced Formula All Purpose Wall Putty or primed with Sheetrock® Tuff-Hide Primer-Surfacer to equalize suction before painting.

## TEST DATA

### Moisture and Mold Resistance

Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel comply with ASTM C1177 section 5.2.5 for water resistance.

In independent lab tests conducted on 25.4mm Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel at the time of manufacture per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber," the panel score was 10.

*This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.*

## PRODUCT DATA

### Size:

610 mm wide and available in 2440, 3050 and 3660 mm lengths. 600 x 2400 mm is available upon request.

### Thickness:

25.4 mm thick

### Weight:

Approx. 21.35 kg/m<sup>2</sup>

### Labeling:

Each panel bears the Underwriters Laboratories, Inc. Mark as evidence of UL Classifications as to fire resistance, surface burning characteristics and noncombustibility.

## COMPLIANCE

Securock® Brand Glass-Mat Mold Tough® Firecode® Liner Panel™ comply with:

- ASTM C1658, C1396
- ASTM E136, non-combustible gypsum core
- Surface Burning Characteristics: Class A, as defined in IBC Section 803.1 - flame spread is 20 and smoke developed is 0, when tested in accordance with ASTM E84.



# SECUROCK® BRAND GLASS-MAT PANELS MOLD TOUGH™

## FEATURES & BENEFITS

### High-performance Interior Wall Panels with Moisture and Mold Resistance

- Suitable for use in pre-dry-in and similar applications of wallboard before the building envelope is fully enclosed (ie: semi-exposed, or when the facade or roof is not fully enclosed)
- For use in interior applications where glass-mat gypsum panels are desired
- Features an inorganic fibreglass face and back
- Can be used in protected exterior soffit applications
- Scores and snaps easily for quick installation
- Installs and finishes similar to standard drywall
- UL Classified as to fire resistance, surface-burning characteristics and non-combustibility

## DESCRIPTION

USG Securock® Brand Glass-Mat Panels Mold Tough™ are highperformance interior panels for new construction or renovation work. The panels have a non-combustible moisture- and mold-resistant core encased in a moisture-resistant fibreglass mat that sheds water and features tapered long edges for easy finishing. The facer mat is colored to match traditional drywall and is engineered to accept the application of USG ME finishing systems. The back mat features USG ME's distinctive green color. The 15.9mm Firecode™ X is UL Classified for fire resistance and can be used in any UL designs where Type SGX panels are listed.

## INTENDED FOR

**Mold-resistant:** Scores a 10 (highest) when tested in accordance with ASTM D3273.

**Resists Water:** Water-resistant gypsum core with water-shedding glass-mat on both sides.

**Quick Installation:** Simple score-and-snap, with no sawing or special tools required. Please see "USG ME SECUROCK® Brand Gypsum Panels Installation Guide", for more information on the installation of gypsum panels.

**Warranted Performance:** USG ME SECUROCK® Brand Glass-Mat Panels Mold Tough™ can be exposed to weather for up to 12 months and are guaranteed for three years against manufacturing defects. See warranty for details.

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Maximum framing spacing is 24" (610mm) centers.
3. Intended for interior applications only and must be kept dry during handling and storage. Please see "Storage and Handling", and GA-216 and ASTM C840 for handling and installation guidelines, including minimum 1/4" (6.4mm) gap from floor.
4. In pre-rock applications, temporary exposure to conditions such as wind pressure and moisture may influence the selection and spacing of fasteners and/or framing.
5. USG ME SECUROCK® Brand Glass-Mat Panels Mold Tough™ offer resistance to normal weather conditions but are not intended for constant exposure to water. Protect from immersion in water and the eroding effects of cascading water.
6. The building must be dried-in prior to installation in soffits and other horizontal applications.
7. Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed-up and application of interior finishing. Insulation in the wall or floor cavities must be dry.
8. Not suitable for use as a substrate for tile in wet areas such as tubs, showers, and gang showers, as well as other areas subject to direct water exposure. Use as a wall tile substrate is limited to tile installed according to current TCNA and ANSI specifications. Please consult with the adhesive and tile manufacturers for their recommendations for maximum size and weight parameters for use with gypsum board.

## FINISHING AND DECORATING

For high-quality finishing results, USG recommends the following products:

- USG Sheetrock® Brand Base Compounds
- USG Sheetrock® Brand Setting-Type Joint Compounds
- USG Sheetrock® Brand Joint Tape
- USG Sheetrock® Brand Tuff-Hide™ Primer-Surfer

Panels should not be finished until building is completely enclosed. The nature of the texture and absorption properties of the panel will require an additional skim coat on the entire panel surface with joint compound in most applications. Additionally, an aesthetic benchmark or mock-up is recommended for establishing and demonstrating an approved finishing system to coordinate the expectations of the design professionals with those of the contracted workforce. The finished appearance of the constructed standard should be approved in advance of any widespread work.

Painting products and systems used should comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with an undiluted interior latex flat paint with high-solids content. Allow to dry before decorating.

## PRODUCT DATA

Labeling: Each 15.9mm Firecode™ X panel bears the Underwriters Laboratories, Inc. label mark as evidence of UL Classifications for fireresistance, surface-burning characteristics and non-combustibility.

	Regular	Firecode™ X
Thickness	12.7 mm	15.9 mm
Lengths <sup>1</sup> and Width	1220x2440 mm	1220x2440 mm
Weight <sup>2</sup> , nominal	9.8 kg/m <sup>2</sup>	11.7 kg/m <sup>2</sup>
Linear expansion with moisture change, in mm/mm %RH	6.25 x 10 <sup>-6</sup>	6.25 x 10 <sup>-6</sup>
Coefficient of thermal expansion, (mm/°C)	15.3 x 10 <sup>-6</sup>	15.3 x 10 <sup>-6</sup>
Flexural strength, parallel, lbf. (N)	>80 (356)	>100 (444)
Flexural strength, perpendicular, lbf. (N)	>100 (444)	>177 (786)
R Value <sup>2</sup> , ft <sup>2</sup> ·°F·hr/BTU (m <sup>2</sup> ·K /W)	0.5	0.5
Combustibility	Non-combustible	Non-combustible
Nail pull resistance, lbf. 3, 4 (N)	>80 (356)	90 (400)
Hardness core, edges and ends, lbf. (N)	>15 (67)	>15 (67)
Water absorption (% of weight)	<5	<5
Surface water absorption	<1.6 grams	<1.6 grams
Surface burning characteristics (per ASTM E 84 or CAN/ULC-S102): flame spread/smoke developed	0/0	0/0
Humidified deflection, mm	<6.4	<3.0
Bending radius, mm	2440	2440

### Notes:

1. Other sizes available by special order.
2. Represents approximate weight for design and shipping purposes.

## TEST DATA

**Moisture and Mold Resistance:** USG SECUROCK® Brand Glass-Mat Panels Mold Tough™ resist moisture and mold, and comply with ASTM C1658 section 7.1.4 for water resistance. Per ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after a two-hour immersion. In independent lab tests conducted on 15.9mm USG SECUROCK® Brand Glass-Mat Panels Mold Tough™ at the time of manufacture per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber", the panel score was 10. This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation, and after completion of the building. This can be accomplished by using good design and construction practices.

## COMPLIANCE

USG ME SECUROCK® Brand Glass-Mat Panels Mold Tough™ comply with:

- ASTM C 1658 section 7 and ASTM C 1177
- Per ASTM E136, non-combustible gypsum core
- Surface burning characteristics per ASTM E84: flame spread is 0, smoke developed is 0
- Qualifies as a low VOC-emitting material



## CEMENT AND FIBER CEMENT WALLBOARD

## CEMENT AND FIBER CEMENT WALLBOARD

Builders, architects, and project managers can count on USG for abuse-resistant gypsum panels. We offer a comprehensive selection of these products—including the trusted Solidrock® and Fiberock® brands ideal for interior applications. Install our versatile products in high-traffic areas for durability as well as water and fire resistance. Solidrock® Fiber Cement boards provide excellent resistance against fire, termite, and moisture, ideal for a variety of interior and exterior applications. Fiberock® Brand Interior Panels are high-performing and resist moisture, mold, and fire as well as dents and penetration.

Wet areas won't be a complex challenge for you anymore. Durock® Brand Cement Board provides architects, builders, and tile contractors a strong, water-durable tile backer board for floors, walls, countertops, tub, shower areas, and exterior finish systems in new construction and remodeling. Via the ASTM G21 test, Durock® Brand Cement Board provides superior mold resistance with zero mold growth. Durock® Brand Cement Board scores a 10 out of 10 on ASTM D3273 for resistance to mold and mildew propagation under ideal fungal growth conditions.

Durock® Brand Cement Board cuts easily and installs quickly with Durock® Brand tile Backer Screws, self-drilling fasteners, or nails.

The Durock® Cement Board provides enhanced, proprietary edge performance that prevents spinout and crumbling and comes with a 30-year limited warranty.

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### Solidrock® Fiber Cement Boards

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### Fiberock® Brand Abuse Resistant (AR) Interior Panels

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### Durock® Brand Cement Board With Edgeguard™

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## SOLIDROCK® FIBER CEMENT BOARDS

### FEATURES & BENEFITS

- Asbestos free
- Moisture resistant
- Dimensional stability
- Non combustible; Non toxic
- Withstands weather changes for exterior application, and ideal for interior wet areas.

### DESCRIPTION

Solidrock® Fiber Cement Boards are made from a mix of cement, cellulose fiber and fire resistant fillers. The boards having an excellent resistance against fire, termite and moisture makes it ideal material for varying interior and exterior applications. The recycled contents in the product composition make it more environmental friendly. This product does not contain asbestos, formaldehydes or harmful chemicals. It is the best substitution to wood substrates solutions with a contemporary range of green products suitable for all types of constructions.

### INTENDED FOR

- Exterior Envelopes
- Wall partitions
- Roof Underlay
- Ceilings
- Office cubical partitions
- Fixed Wardrobes
- Kitchen cabinets
- Duct Covering

### PRODUCT DATA

	Solidrock® Fiber Cement Boards
Standard size	1200x2400mm
Thickness	6mm, 9mm, 12mm, 15mm, 16mm, 18mm
Density	≥1300 kg/m <sup>3</sup>
Moisture content	≤10%
PH value (acid-base)	8-9
Flexural strength	≥10 MPA
Impact strength	≥7.1 kg/m <sup>2</sup> *
Adhesion bond strength	≥ 7.9 kg/m <sup>2</sup> **
Thermal conductivity at 50 °C	≤0.21/W.mk
Thermal Resistance (R-Value)	0.028 K.m <sup>2</sup> /W
Asbestos content	Not detected
Formaldehyde content	Not detected

\* for 9mm Board  
\*\* for 12mm Board

### COMPLIANCE

Solidrock® Fiber Cement Boards comply with:

- ASTM C 1186: Type (A) Grade 1 – Standard Specification for Flat Fiber Cement Boards
- BS 476: Part 7 Class 1



## FIBEROCK® BRAND ABUSE RESISTANT (AR) INTERIOR PANELS

### FEATURES & BENEFITS

**Gypsum-fiber abuse-resistant panels outperform paper-faced gypsum board in abuse-prone areas**

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

### DESCRIPTION

USG Fiberock® Brand Abuse Resistant (AR) Interior Panels are engineered to provide increased resistance to abrasion, indentation and penetration for interior walls and ceilings in demanding construction applications. These gypsum- fiber panels are designed to outperform paper-faced gypsum board. Strong, solid and durable, they resist denting, breaking and puncturing— even in high-traffic areas. USG Fiberock® Brand Abuse Resistant (AR) Interior Panels are code approved for use in noncombustible construction. They have exceptional surface burning characteristics (ASTM E84, Flame Spread 5, Smoke Developed 0: Class A) and fire resistance (ASTM E119). 15.9 mm USG Fiberock® Brand Abuse Resistant (AR) Interior Panels may be used instead of Type X gypsum panels in over 50 fire-rated wall assemblies as listed in the UL Fire Resistance Directory.

### LIMITATION

1. USG Fiberock® Brand Abuse Resistant (AR) Interior Panels are designed for interior use only.
2. Panels may be attached to wood or steel-stud framing and furring channels.
3. For abuse-resistant or fire-resistant construction, 20-gauge or heavier studs are required.
4. For improved abuse-resistant system performance, USG ME Beads and Trims or USG Sheetrock® and Beadex® Brand Paper-Faced Metal Corner Bead and Trim and USG ME Sheetrock® Brand Tuff-Hide™ Primer-Surfacer are recommended.
5. Where USG Fiberock® Brand Abuse Resistant (AR) Interior Panels systems abut or intersect dissimilar construction or building structural components, isolation techniques, such as caulk and/or slip tracks, are required.
6. Control joints should be spaced at a maximum of 8.5 m on center in walls and above door jambs; 8.5 m on center in ceilings 15.25 m with perimeter relief) and at L-, T- or U-intersections. Location of control joints is the responsibility of the professional architect.
7. Framing members should be straight and true. Studs and joints must be in true alignment; bridging, firestops, etc. must not protrude beyond plane of framing. Due to strength and rigidity of USG Fiberock® Brand Abuse Resistant (AR) Interior Panels, it may be difficult to compensate for out-of-plane imperfections in framing.

### TECHNICAL DATA

Property	Unit of Measure	ASTM Test Method	15.9mm USG Fiberock® Brand AR Interior Panel	12.7mm USG Fiberock® Brand AR Interior Panel
Flexural Strength	lbf	C473	> 155	>110
Compressive	psi	n/a	> 500	>500
Strength	lb (10 mm head diameter, dry)	C473	> 145	>120
Nail-Pull Resistance	kg/m <sup>2</sup>	C473	15.1	11.7
Mold Resistance	-	D3273	10 (no growth)	10 (no growth)
Surface-Burning Characteristics	flame/smoke	E84	5/0	5/0
Thermal	"R"/k value	C518	-	30/1.84

Compliance with Standards: Meets ASTM C1278.

Edge Configuration: Long edges tapered; ends cut square.

**ABUSE-RESISTANT PERFORMANCE**

ASTM C1629 Performance	Units (pcs.)
Abrasion*	Level 1
Indentation	Level 1
Soft Body Impact	Level 2
Hard Body Impact	Level 1

\* With a standard primer and two coats of finish paint, USG Fiberock® Brand Abuse Resistant (AR) Interior Panels will achieve level 3 abrasion resistance

**INSTALLATION**

1. Position all ends and edges of all gypsum-fiber panels over framing members, except when joints are at right angles to framing members, as in perpendicular application or when end joints are back-blocked.
2. Install panels vertically whenever possible. For horizontal panel application, panels must be gapped 1.6 mm of an inch. End joints should be loosely fit. Install panels a minimum of 9.5 mm above the floor. To minimize end joints, use panels of maximum practical lengths. Stagger end joints in successive courses with joints on opposite sides of a partition placed on different studs.
3. Attach panels to framing supports by: Standard Single Nailing Method, Double Nailing Method or Power-Driven Screws. Space fasteners not less than 9.5 mm from edges and ends of panels and drive as recommended for specified fastening method. Drive fasteners in field of panels first, working toward ends and edges. Hold panel in firm contact with framing while driving fasteners. Drive fastener heads slightly below surface of gypsum fiber panels in a uniform dimple.
4. Concealment of joints, fasteners and trims in areas that will be painted: For taping use USG Sheetrock® Brand Paper Joint Tape with USG Sheetrock® Brand Durabond® Joint Compound. For finishing use a USG Sheetrock® Brand All Purpose Joint Compound. In areas that will be tiled, finish joints with USG Durock™ Brand Tile Backer Tape and latex-fortified mortar or Type I mastic.
5. For non-fire-rated partition designs, refer to the tables below for fastener spacing. For UL fire-rated partition designs, refer to the specific UL design for proper fastener spacing.

**Ceilings (Steel-Framed)**

Thickness	Application	Frame Spacing	Fastener Spacing	
			Nails	Screws
12.7 mm	Parallel	400 mm o.c.	180 mm o.c.	400 mm o.c.
12.7mm	Perpendicular	400 mm o.c.	180 mm o.c.	400 mm o.c.
15.9 mm	Parallel	400 mm o.c.	180 mm o.c.	400 mm o.c.
15.9 mm	Perpendicular	600 mm o.c.	180 mm o.c.	600 mm o.c.

**Walls**

Thickness	Frame Spacing*	Fastener Spacing	
		Nails	Screws
12.7 mm	600 mm o.c.	200 mm o.c.	300 mm o.c.
12.7mm	400 mm o.c.	200 mm o.c.	400 mm o.c.
15.9 mm	600 mm o.c.	200 mm o.c.	300 mm o.c.
15.9 mm	400 mm o.c.	200 mm o.c.	400 mm o.c.

6. Install trim at all internal and external angles formed by the intersection of either panel surfaces or other surfaces. Apply (metal) (paper-faced) corner bead to all vertical or horizontal external corners in accordance with manufacturer's directions.

**Notes:**  
\* Consult USG Middle East technical team for the framing spacing if fire rating required.

**STORAGE OF MATERIALS**

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. All materials should be stored flat.

**SURFACE TREATMENT**

USG Fiberock® Brand Abuse Resistant (AR) Interior Panels must be surface treated with one of the options, in accordance with USG ME recommendations. Option A may be used when surface uniformity is not of concern, (i.e., the surface uniformity stipulation has been waived by the job managerial and/or inspection authorities and conditions described in Option B (below) do not exist.)

**OPTION 1:**

Apply a skim coat of joint compound at a trowel-applied consistency to entire surface and let dry using a USG Middle East Sheetrock® Brand ready-mix all purpose type joint compound.

**Note:** When properly prepared as a skim coating material, these ready mixed joint compounds can be used in a skim coat operation.

The skim coated surface must be smooth and free of tool marks and ridges (a light sanding of the skim coating may be necessary to remove tool marks). Remove sanding dust from surface, then apply one coat (5-10 mils Wet Film Thickness) of USG Middle East Sheetrock® Brand ready-mix all purpose type joint compound over the entire surface. Allow surface to dry prior to decorating.

**Note:** A single full coverage coat of USG Sheetrock® Brand Tuff-Hide Primer-Surfacer may be used in lieu of a skim coat of joint compound and the application of USG Sheetrock® Brand First Coat Primer.

**OPTION 2:**

Recommended in areas where one or more of the following conditions exist:

- 1) Exposure to critical/severe lighting.
- 2) Paints with sheen levels other than flat are specified.
- 3) High value spaces exist.
- 4) Final surface smoothness and uniformity are expected and/or specified.

Apply two separate skim coat of joint compound at a trowel-applied consistency to entire surface and let dry using a USG Middle East Sheetrock® Brand ready-mix all purpose type joint compound.

**Note:** When properly prepared as a skim coating material, these ready mixed joint compounds can be used in a skim coat operation.

The skim coated surface must be smooth and free of tool marks and ridges (a light sanding of the skim coating may be necessary to remove tool marks). Remove sanding dust from surface, then apply one coat (5-10 mils Wet Film Thickness) of USG Middle East Sheetrock® Brand ready-mix all purpose type joint compound over the entire surface. Allow surface to dry prior to decorating.

**Note:** A single full coverage coat of USG Sheetrock® Brand Tuff-Hide Primer-Surfacer may be used instead of the second skim coat.

**Optional Veneer Plaster**

Joints should be treated with USG Sheetrock® Brand paper joint tape and USG Durabond® Setting-Type Joint Compound. Joint surfaces must be treated with a separate coat of joint compound to fully conceal the paper tape. When the joint is completely dry, treat entire wall surface with USG plaster bonder according to application directions. Then apply USG Diamond® Veneer Basecoat

Plaster from 1.6 mm to 2.4 mm thickness using a scratch and double-back technique. This is accomplished by applying a tight, thin coat over the entire area, and immediately doubling back with plaster from the same batch to achieve full thickness. When basecoat plaster is firm, broom the surface to leave it rough and open for finish. With basecoat set and partially dry, apply USG Imperial® Veneer Finish Plaster using a scratch and double-back technique. Complete finishing when material is firm. Leave finished surface smooth and dense for decorating.

**Ceramic Tile Applications**

Joints should be treated with USG Sheetrock® Brand paper joint tape and USG Durabond® Setting-Type Joint Compound. Joint surfaces must be treated with a separate coat of joint



# DUROCK® BRAND CEMENT BOARD WITH EDGEGUARD™

## FEATURES & BENEFITS

### Backerboard for tile and exterior finish systems

- Enhanced proprietary edge performance prevents spinout and crumbling
- Easy to cut and fasten
- Water durable and mold resistant
- Warranted for interior and exterior applications
- Exceptional tile bond
- Noncombustible

## DESCRIPTION

USG Durock® Brand Cement Board with EdgeGuard™ offers architects, builders and tile contractors a strong, water-durable tile base for tub and shower areas. Also an ideal underlayment for tile on floors and countertops in new construction and remodeling. Board is readily applied over steel framing spaced 400 mm o.c. with corrosion-resistant steel screws or hot-dipped galvanized roofing nails. After joints are treated, wall or floor tile is applied using latex fortified mortar or Type I organic adhesive.

USG Durock® Brand Cement Board with EdgeGuard™ is preferred by many applicators as a base for directly applied finishes, tile, stone and thin brick used in building exteriors. The 12.7 mm and 15.9 mm panels are Underwriters Laboratories Inc. (UL) Classified for fire resistance, and may be used in any UL Design where Type DCB panels are listed.

## LIMITATIONS

1. Designed for positive or negative uniform loads up to 60 psf.
2. Wall applications: Maximum stud spacing: 400 mm o.c. 600 mm o.c. for cavity shaft wall assembly. Framing shall be designed (based on stud properties alone) not to exceed L/360 deflection for tile and thin brick, L/240 for direct-applied exterior finish systems. Maximum fastener spacing: 200 mm o.c. for steel framing; 150 mm o.c. for ceiling applications.
3. Floor applications: Maximum joist spacing 600 mm o.c. The subfloor system should be designed with a minimum deflection limit of L/360 for the span. Some finish materials may require a more rigid subassembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements. The subfloor should be APA Span-Rated Plywood or OSB with an Exposure 1 classification or better with tongue and groove or back blocked at the unsupported edges.
4. In exterior applications, USG Durock® Brand Cement Board with EdgeGuard™ should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel.
5. Brittle coatings, such as epoxy coatings, are not recommended for use with USG Durock® Brand Cement Board with EdgeGuard™. USG Durock® Brand Cement Board with EdgeGuard™ is intended for use with tile, thin brick and exterior stucco coatings only.
6. Maximum dead load for ceiling system is 7.5 psf.
7. Steel framing must be 20-gauge or heavier.
8. Do not use drywall screws or drywall nails, use Durock® screws. Do not use drywall joint tape, use Durock® joint tape.
9. Do not use 6.4 mm USG Durock® Brand Cement Board with EdgeGuard™ for wall or ceiling applications. 6.4 mm USG Durock® Cement Board with EdgeGuard™ is for use in interior applications only.
10. Do not use USG Durock® Brand Cement Board with EdgeGuard™ with vinyl flooring.
11. USG Durock® Brand Cement Board with EdgeGuard™ is not designed for use as a structural panel.
12. Maximum installed weight of the finish system should not exceed 15 psf.
13. USG Durock® Brand Cement Board with EdgeGuard panels should not be used in areas where they are exposed to temperatures that exceed 93°C.
14. In locations close to salt water or other challenging environments, design professionals should consider the use of stainless steel fasteners.
15. Do not use lightweight setting-type joint compounds or ready-mix joint compounds directly over USG Durock® Brand Cement Board with EdgeGuard™.

## STANDARDS

USG Durock® Brand Cement Board with EdgeGuard™ exceeds ANSI standards for cementitious backer units (CBU). See ANSI A118.9 for test methods and specifications for CBU and ANSI A108.11 for interior installation of CBU. Exceeds industry standards as an exterior substrate for exterior finishes. Exceeds ASTM C1325 standards for no asbestos fiber mat reinforced cementitious backer units

## COMPOSITION AND MATERIALS

USG Durock® Brand Cement Board with EdgeGuard™ is formed in a continuous process of aggregated Portland cement slurry with polymer coated, glass-fiber mesh completely encompassing edges, back and front surfaces. The edges are formed smooth with a patented polypropylene fabric-wrapped edge. The ends are square cut.

## INTERIOR APPLICATIONS

The building shall be enclosed and the HVAC system operating so that steel framing shall reach the moisture content it will reach in service. Do not install board when the board is wet.

## EXTERIOR APPLICATIONS

In exterior applications, USG Durock® Brand Cement Board with EdgeGuard™ should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel. Finishes, leveling/skim coats and basecoats should not be applied to USG Durock® Brand Cement Board with EdgeGuard™ panel that is wet or frozen or that contains frost. After application, and for at least 24 hours, finishes, leveling/skim coats and basecoats should be effectively protected from rain and excessive moisture. In cold weather and during finish applications, USG Durock® Brand Cement Board with EdgeGuard™ panel, skim or basecoat, mortar, finish material and air temperature must be at least 5°C and must remain at this temperature or higher for at least 24 hours after application. Hot and dry weather may affect working time of leveling/skim or basecoat and finish materials. Under rapid drying conditions, dampening or light fogging of board, leveling/skim or basecoat surface may be required to improve workability.

## PANEL MICROCRACKING

USG Durock® Brand Cement Board with EdgeGuard™ is formulated to develop fine microcracking (also called multiple cracking) in the panel. The microcracking process helps to evenly relieve the stored strain energy in the product due to handling and installation, external loads and/or panel restrained movement. The presence of microcracks in the panel should not be considered a product defect.

## INSTALLATION

1. Install cement board with ends and edges closely abutted, but not forced together. Stagger end joints in successive courses.
2. For flooring applications over a wood-based substrate, laminate USG Durock® Brand Cement Board with EdgeGuard™ to subfloor using Type 1 organic adhesive or latex-modified thin-set mortar suitable for bonding cement board. Fasten to subfloor with 32 mm USG Durock® Brand Tile Backer Screws for steel framing (or equivalent) or 38 mm hotdipped galvanized roofing nails spaced 200 mm o.c. in both directions with perimeter fasteners at least 10 mm and less than 16 mm from ends and edges. Drive nails and screws so that bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners. Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock® Brand Tile Backer Tape and level joints.
3. For wall application, fasten USG Durock® Brand Cement Board with EdgeGuard™ panels to framing with specified fasteners. Drive fasteners into field of panels first, working toward ends and edges. Hold panels in firm contact with framing while driving fasteners. Space fasteners maximum 200 mm o.c. for walls, 150 mm o.c. for ceilings, with perimeter fasteners at least 10 mm and less than 16mm from ends and edges. Drive nails and screws so bottoms of heads are flush with panel surface to ensure firm panel contact with framing. Do not overdrive fasteners. Approved fasteners include: USG Durock® Brand Tile Backer Screws for steel framing (or equivalent), 32 mm and 41 mm for 14- to 20-gauge steel framing; USG Durock® Brand Tile Backer Screws for steel framing (or equivalent), 32 mm, 41 mm and 57 mm for steel framing. Nails 38 mm hot-dipped galvanized roofing nails). Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock® Brand Tile Backer Tape and level joints.
4. Cement board should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a dust-collection device. Installer should wear NIOSH/MSHA approved dust mask.

**FINISHING**

For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied USG Middle East DUROCK® Basecoat or General Purpose Basecoat must be thoroughly dry, dust free, and not glossy. To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semi gloss, or gloss), the gypsum panel surface should be skim-coated with USG Middle East DUROCK® Basecoat to equalize suction before painting.

**STORAGE OF MATERIALS**

All materials should be delivered and stored in their original unopened package and stored in an enclosed shelter providing protection from damage and exposure to the elements. Even though the stability and durability of USG Durock® Brand Cement Board with EdgeGuard™ is unaffected by the elements, moisture and temperature variations may have an effect on the bonding effectiveness of basecoats and adhesives. Store all USG Durock® Brand Cement Board with EdgeGuard™ panels flat.

**TECHNICAL DATA**

Description	Unit of Measure	ASTM Test Method	15.9mm USG Durock® Brand Cement Board with EdgeGuard™	12.7mm USG Durock® Brand Cement Board with EdgeGuard™	6.4mm USG Durock® Brand Cement Board with EdgeGuard™ Underlayment
Flexural strength	psi (MPa)	C947	>480	>750	>1000 (6.9)
Indentation strength	psi (MPa)	D23394	>1250	>1250	>1250 (8.9)
Shear bond strength	psi	ANSI A118.4	>50	>50	>50
Nail-pull resistance	lb. 10 mm head dia mtr, wet or dry	C473	>90	>90	-
Weight	kg/m²	C473	14.6	11.7	9.3
Freeze/thaw resistance	procedure B, number of cycles with no deterioration	C666	100	100	100
Mold resistance	-	G21 D3273	Rating 0, No growth 10/10	Rating 0, No growth 10/10	Rating 0, No growth 10/10
Noncombustibility	Pass/Fail	E136	Pass	Pass	Pass
Surface-burning characteristics	flame/smoke	E84	0/0	0/0	0/0
Thermal	"R"/k value	C518	0.49/1.27	0.39/1.27	-
Standard method for evaluating ceramic floor tile installation systems	Passes cycles 1-6	C627	Light commercial	Light commercial	Light commercial
Minimum bending radius	mm (requires special framing details available)	-	1800	1800	-

**UNIFORM LOAD**

**12.7mm USG DUROCK® BRAND CEMENT BOARD WITH EDGE GUARD™**

Stud Spacing	Fastener Spacing	Design Wind Load (1/240)	Design Wind Load (1/360)
300 mm o.c.	200mm	45 psf	45 psf
	150 mm	60 psf	60 psf
400 mm o.c.	200mm	33 psf	30 psf
	150 mm	45 psf	30 psf
600 mm o.c (for shaftwall assemblies only)	200mm	13 psf	9 psf
	150 mm	12 psf	9 psf





#### FACTORY OF USG MIDDLE EAST LTD. CO.

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

#### CUSTOMER SERVICE

t +966 13 812 0995  
f +966 13 812 1029  
info@usgme.com  
www.usgme.com

#### WEBSITE

[www.usgme.com](http://www.usgme.com)

#### WHATSAPP

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