USG Interior Panel & Finishing Solutions

Spec Section 092900

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SUBMITTAL SHEET

USG SHEETROCK® BRAND MOLD TOUGH® PANELS

FIRECODE® X AND FIRECODE® C

- Moisture- and mold-resistant gypsum panels for use on walls and ceilings
- Score and snap easily; no special handling required
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Install and finish as easily as standard drywall
- Complies with ASTM C1396 for water-resistant gypsum wallboard and exterior gypsum soffit board

DESCRIPTION

USG Sheetrock® Brand Mold Tough® Panels are available in Firecode® X and Firecode® C formulations. Both panels feature a noncombustible, moisture-resistant gypsum core that is encased in moisture- and mold-resistant, 100% recycled green face and brown back papers. The panels also feature tapered long edges for easy finishing.

USG Sheetrock® Brand Mold Tough® Panels Firecode® X (UL Type SCX): Available in 5/8" thickness and UL Classified for fire resistance.

USG Sheetrock® Brand Mold Tough® Panels Firecode® C (UL Type C): Available in 1/2" and 5/8" thicknesses and UL Classified for fire resistance, these panels feature a specially formulated mineral core that provides fire resistance superior to that offered by 5/8" USG Sheetrock® Brand Mold Tough® Panels Firecode® X.

INTENDED FOR

- Commercial or residential applications where moisture- and mold-resistance is required
- New or repair and remodel construction
- USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C are UL Classified for use in fire-rated wall and ceiling assemblies
- Can be used in protected exterior soffit and ceiling applications
- Can be used as an interior tile substrate in dry locations or areas with limited water exposure

LIMITATIONS

1. Avoid sustained exposure to temperatures exceeding 125°F (52°C).
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Maximum frame spacing for walls is 24" o.c. Maximum frame spacing for ceilings is 24" o.c. for installations perpendicular to framing and 16" o.c. parallel to framing.
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. 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.
6. 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.
7. Not recommended for exterior soffits and ceilings that project upwards and away from the building proper.

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INTERIOR INSTALLATION, FINISHING AND DECORATING

INSTALLATION

Maximum Frame Spacing Drywall Construction

Direct Application	Panel Thickness[a]		Location	Application Method[b]	Max. Frame Spacing o.c.	
	in.	mm			in.	mm
Single-Layer	1/2	12.7	Ceilings	Perpendicular	24[d]	610
				Parallel[c]	16	406
			Sidewalls	Parallel or Perpendicular	24	610
				Parallel[c]	16	406
	5/8	15.9	Ceilings	Perpendicular	24	610
			Sidewalls	Parallel or Perpendicular	24	610
Double-Layer	1/2 and 5/8	12.7 and 15.9	Ceilings	Parallel or Perpendicular	24[e]	610
			Sidewalls	Perpendicular	24[e]	610

(a) 5/8" thickness is recommended for single-layer construction, providing increased resistance to fire and transmission of sound.
(b) Long edge position relative to framing.
(c) Not recommended if water-based texturing material is to be applied.
(d) Max spacing 16" o.c. if water-based texturing material is to be applied.
(e) Max spacing 16" o.c. if fire rating required.

FINISHING AND DECORATING

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

- USG Sheetrock® Brand Ready-Mixed Joint Compounds
- USG Sheetrock® Brand Setting-Type Joint Compounds
- USG Sheetrock® Brand Joint Tape
- USG Sheetrock® Brand First Coat™ Primer
- USG Sheetrock® Brand Paper-Faced Metal Drywall Bead and Trim

Painting products and systems should be installed in accordance with recommendations and requirements in appendixes of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. Refer to Gypsum Association GA-214, *Recommended Specification for Levels of Gypsum Board Finish*, in order to determine the level of finishing needed to assure a surface properly prepared to accept the final decoration.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with USG Sheetrock® Brand First Coat™ Primer or with an undiluted interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting or decorated with a gloss paint (eggshell, semigloss or gloss), the gypsum panel surface should be skim coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting.

EXTERIOR INSTALLATION, FINISHING AND DECORATING

WOOD FRAMING

1" x 4" wood furring may be used in non-fire-rated construction for screw application where support member spacing is 24" o.c. maximum. Furring of 2" nominal thickness should be used in non-fire-rated construction for nail application of board or where framing spacing is from 24" to 48" o.c. maximum.

STEEL FRAMING

Installation of grillage should be the same as for single-layer drywall application. Refer to *USG Drywall Suspension System Brochure* (AC3152) or contact the Steel Stud Manufacturers Association for application information.

WEATHER PROTECTION

At the perimeter and vertical penetrations, the exposed core of panels must be covered with a J-stop trim or securely fastened moldings. In areas subject to freezing temperatures and other severe weather conditions, shingled roofs should be installed in accordance with good roofing practices. Fascia boards should extend at least 1/4" below the ceiling board or adjacent trim moldings, whichever is lower, to provide a drip edge.

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INTERSECTIONS

Where ceiling board expanse exceeds 4', a space of at least 1/4" should be provided between edge of ceiling board and adjacent walls, beams, columns and fascia. This space may be screened or covered with molding but should not be caulked.

CONTROL JOINTS

USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C, like other building materials, are subject to structural movement, expansion and contraction due to changes in temperature and humidity.

Install a 093 Zinc Control Joint or a control joint consisting of two pieces of J-stop trim back-to-back in ceiling board where expansion or control joints occur in the exterior wall or roof. Where aluminum H-moldings are used, they will serve as control joints, provided the board is not tightly inserted.

FINISHING AND DECORATING

Treat joints with USG Sheetrock® Brand Durabond® or Easy Sand™ Joint Compounds and USG Sheetrock® Brand Fiberglass Joint Tape. These setting-type joint compounds are hardening-type products developed to provide faster finishing of drywall, even under slow drying conditions. Rapid chemical hardening and low shrinkage permit same-day finishing and usually next-day decoration. They also feature exceptional bond; virtually unaffected by humidity extremes.

TEST DATA

MOISTURE AND MOLD RESISTANCE

Per ASTM C473, the average water absorption for USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C is not greater than 5% by weight after two-hour immersion.

In independent lab tests conducted on USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C 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 scores were 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

	UL Type SCX	UL Type C	UL Type C
Thickness	5/8"	1/2"	5/8"
Lengths and Widths	48" wide— 8', 9', 10', 12'	48" wide— 8', 9', 10', 12'	48" wide— 8', 9', 10', 12'
Weight[1]	2.2 lbs./sq. ft.	1.9 lbs./sq. ft.	2.2 lbs./sq. ft.
Edges	Tapered	Tapered	Tapered
Packaging	Two panels per bundle	Two panels per bundle	Two panels per bundle

1. Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local USG sales representative or call the Customer Service Center at 800 950-3839.

COMPLIANCE

Manufactured to meet or exceed ASTM C1396 section 7 and section 8.

Class A, as defined in IBC section 803.1, flame spread is 15, smoke developed is 0, when tested in accordance with ASTM E84. The gypsum core meets code requirements for noncombustible construction.

UL Classification as to fire resistance, surface-burning characteristics and noncombustibility. Can be used in fire-rated designs where USG Company panels are listed, including:

- 5/8" USG Sheetrock® Brand Mold Tough® Panels Firecode® X (UL Type SCX)
- 1/2" and 5/8" USG Sheetrock® Brand Mold Tough® Panels Firecode® C (UL Type C)

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SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION
See usg.com for the most up-to-date product information.

CAUTION
Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Do not swallow. If swallowed, call a physician.
For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.
KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS
The trademarks USG, DURABOND, EASY SAND, FIRECODE, FIRST COAT, MOLD TOUGH, SHEETROCK, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.

NOTE
Products described here may not be available in all geographic markets. Consult your USG Company sales office or representative for information.

NOTICE
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

SAFETY FIRST!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Safety Data Sheets and related literature on products before specification and/or installation.

800 USG.4YOU
800 (874-4968)
usg.com

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

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CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

092900-006
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

092900
SPECIFICATION SECTION / PARAGRAPH

Marino Ware
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

○ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ◉ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

Includes:
-Regular and Fire Code Cores
-Mold Tough Panels

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

9/7/16
DATE

To be completed by Reviewer

09 2900-006
CANNON DESIGN SUBMITTAL NUMBER

9/8/16
RECEIVED DATE

- ○ A. No Exceptions Taken
  No further review of submittal is required.
- ◉ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

Kelvin Patel
Digitally signed by Kelvin Patel
Date: 2016.09.16 15:53:04-05'00'
REVIEWED BY

09/16/16
DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0210

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 09/07/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Sheetrock Gypsum Panels Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		092900-006	1		09/07/2016	Sheetrock Gypsum Panels Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates