



Submittal Comments

*Architecture
Engineering
Technology
Interior Design
Landscape Architecture*

Item No: 092900
(CSI No:)

Item Descript: Gypsum Board

Re: **Submittal** Comments
Cascade Science Lab Renovation
2008-046.CSL 8.3

*Wil-Fra-Mar Building
320 East Vermont Street
Indianapolis IN 46204-1640
317.263.6226
317.263.6224 (fax)
www.schmidt-arch.com*

Reviewed and checked only for conformance with design concepts and with the information given in the Contract Documents. Approval does not release the Contractor from the responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage, and coordination with other trades or release the Contractor from responsibility for deviations from the requirements of the Contract Documents or from responsibility for errors and omissions contained thereon.	
x	Reviewed as Submitted - No Resubmittal Required.
	Reviewed as Noted - No Resubmittal Required.
	Reviewed as Noted - Revise and Resubmit.
	Rejected - Revise and Resubmit.
	Not Required for Review - Returned.
By: CTM	
Date: 4.22.09	

Comments

Copy: File

Tricia L. Smith

From: ken meiring [kenmeiring@kpmeiring.com]
Sent: Sunday, April 12, 2009 5:03 PM
To: Tricia L. Smith
Subject: Cascade Science Lab Submittals Section 092216 - Non Structural Metal Framing, 092900 - Gypsum Drywall, 095113 - Acoustical Panel Ceilings
Attachments: 092216 Non Structural Metal Framing.pdf; 092900 Gypsum Board Sheetrock_Gypsum_Panels_Firecode_Cores.pdf; 095313 Acoustical Panel Ceilings.pdf

Hello,

Cascade Science Lab Metal Stud, Drywall and Acoustical Ceiling Submittals

Kenneth P. Meiring
KP Meiring Company
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Submittal Sheet
09250

SHEETROCK® brand Gypsum Panels, Regular and FIRECODE® Cores

Quality interior wall and ceiling surfaces at low cost



- Fire-resistant dry construction.
- Quick erection and decoration.
- Resist cracking and warping.
- Specialized types for all systems.

Description

K.P. MEIRING CO *KPM*
 CHECKED BY: _____
 DATE CHECKED: April 11, 2009
 REVIEWED NO EXCEPTIONS: _____ X
 REVIEWED WITH EXCEPTIONS: _____
 REJECTED RESUBMIT: _____
 The review is only for general conformance with design concepts given in the contract documents. Subcontractor is responsible for dimensions, quantities, coordination with other trades and performing his work in a safe manner. No change to contract requirements is intended.

SHEETROCK® brand Gypsum Panel is the original, the preferred, and the most widely used gypsum panel in existence. It is available in more specialized forms for various systems than any other drywall line. Its high quality standards extend to a complete line of U.S. Gypsum components supplied for fast-applying, high-performance walls and ceilings. Thus, one dependable source offers unit responsibility for the system used.

SHEETROCK brand Gypsum Panels are factory-fabricated, composed of fire-resistant gypsum core encased in heavy natural-finish face paper on the face side and 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 tapered, allowing joints to be reinforced and concealed with a U.S. Gypsum joint treatment system.

SHEETROCK brand Gypsum Panels are available with three different core types for standard construction uses.

With a regular core, available in three thicknesses for specific purposes.

- 1/2 in.** Recommended for single-layer application in residential construction.
- 3/8 in.** Lightweight, applied principally in the double-wall system over wood framing, and in repair and remodeling.
- 1/4 in.** A lightweight, low-cost, utility gypsum panel, used as base layer for improving sound control in double-layer steel and wood-stud partitions, and for use over old wall and ceiling surfaces. Also for forming curved surfaces with short radii.

SHEETROCK brand Gypsum Panels, FIRECODE Core

Made 5/8 in. thick, provide additional fire resistance over regular panels.

SHEETROCK brand Gypsum Panels, FIRECODE C Core

Made in 1/2 in. and 5/8 in. thicknesses. Specially formulated mineral core provides fires resistance superior to that offered by FIRECODE Core Gypsum Panels. Systems using SHEETROCK brand Gypsum Panels, FIRECODE C Core, have qualified for fire ratings up to 4 hours in walls, 3 hours in ceilings, and 4 hours on columns. Both FIRECODE and FIRECODE C Core panels qualify as Type X gypsum panels.

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 the installation of metal or wood trim, almost immediately.
- Fire protection.** The gypsum core will not support combustion or transmit temperatures greatly in excess of 212 °F until completely calcined—a slow process.
- Crack resistance.** With joints reinforced by one of U.S. Gypsum’s joint systems, SHEETROCK brand Gypsum Panels 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.

Limitations

1. Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum panels are not recommended where they will be in contact with surfaces exceeding 125 °F (52 °C) (such as in solar heating systems).
2. In order to attain fire-resistance ratings, the construction of partition and/or floor-ceiling assemblies must conform to the panel designs shown in the test report.
3. To prevent objectionable sag in new gypsum panel ceilings, the weight of overlaid unsupported insulation should not exceed: 1.3 psf for 1/2 in. panels with frame spacing 24 in. o.c., 2.2 psf for 1/2 in. panels with frame spacing 16 in. o.c. or 5/8 in. panels with frame spacing 24 in. o.c. Panels 3/8 in. thick must not be overlaid with unsupported insulation. A vapor retarder should be installed in exterior ceilings, and plenum or attic spaces should be properly vented.
4. Application of SHEETROCK brand panels over 3/4" wood furring applied across framing is not recommended since the relative flexibility of the furring under impact of the hammer tends to loosen nails already driven. Furring should be 2" x 2" minimum (may be nom. 1" x 4" if panels are to be screw-attached).



5. 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.
6. Painting systems—for satisfactory results, painting products and systems should be used which 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. A prime coat of SHEETROCK First Coat or a good quality interior latex flat wall paint (undiluted) with high solids content should be applied and allowed to dry before decorating.
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, semigloss, or gloss), the gypsum panel surface should be skim-coated with joint compound to equalize suction before painting.
7. Maximum spacing of frame members for single-layer, new wood-frame construction is:

thickness		location	application method ⁽¹⁾	max. frame spacing o.c.	
in.	mm			in.	mm
3/8	9.5	ceilings ⁽²⁾	perpendicular ⁽³⁾	16	406
		sidewalls	parallel or perpendicular	16	406
1/2	12.7	ceilings	parallel ⁽³⁾	16	406
		sidewalls	perpendicular	24 ⁽⁴⁾	610
5/8	15.9	ceiling	parallel ⁽³⁾	16	406
		sidewalls	perpendicular	24	610
		sidewalls	parallel or perpendicular	24	610

(1) Long edge relative to framing. (2) Not recommended below unheated spaces. (3) Not recommended if water-based texturing material is used. (4) Max. Spacing 16 in. (406 mm) for water-based texturing material application.

Note to Architect For additional information and complete specifications, see publications SA923, SA924, and SA927.

WARNING: Store all SHEETROCK brand Gypsum Panels flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized.

Product Data	Compliance with Standards:	Meets ASTM C36.
	Thermal Resistance "R":	For 1/2 in. thickness: 0.45 °F x ft. ² x h/Btu (0.08 K x m ² /W).
	Thermal Coefficient of Expansion, Unrestrained 40-100 °F (4-38 °C):	9.0 x 10 ⁻⁶ in./in./°F (16.2 x 10 ⁻⁶ mm/mm/°C) (16.2 μm/m/°C).
	Hygrometric Coefficient of Expansion, Unrestrained, 5-90% r.h.:	7.2 x 10 ⁻⁶ in./in./% r.h. (7.2 x 10 ⁻⁶ mm/mm/% r.h.) (7.2 μm/m/% r.h.).
	Surface Burning Characteristics:	Flame spread 15, smoke developed 0.
	Packaging:	2 panels per bundle.

Submittal Approvals:	Job Name	
	Contractor	Date

Trademarks:
The following trademarks used herein are owned by United States Gypsum Company: FIRECODE, SHEETROCK.

Note:
Products described here may not be available in all geographic markets. Consult your U.S. Gypsum 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 installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.