



Submittal Comments

Item No: 095113-01
(CSI No:)

Item Descript: Acoustical Ceiling Panel & Grid

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

Architecture
Engineering
Technology
Interior Design
Landscape Architecture

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,

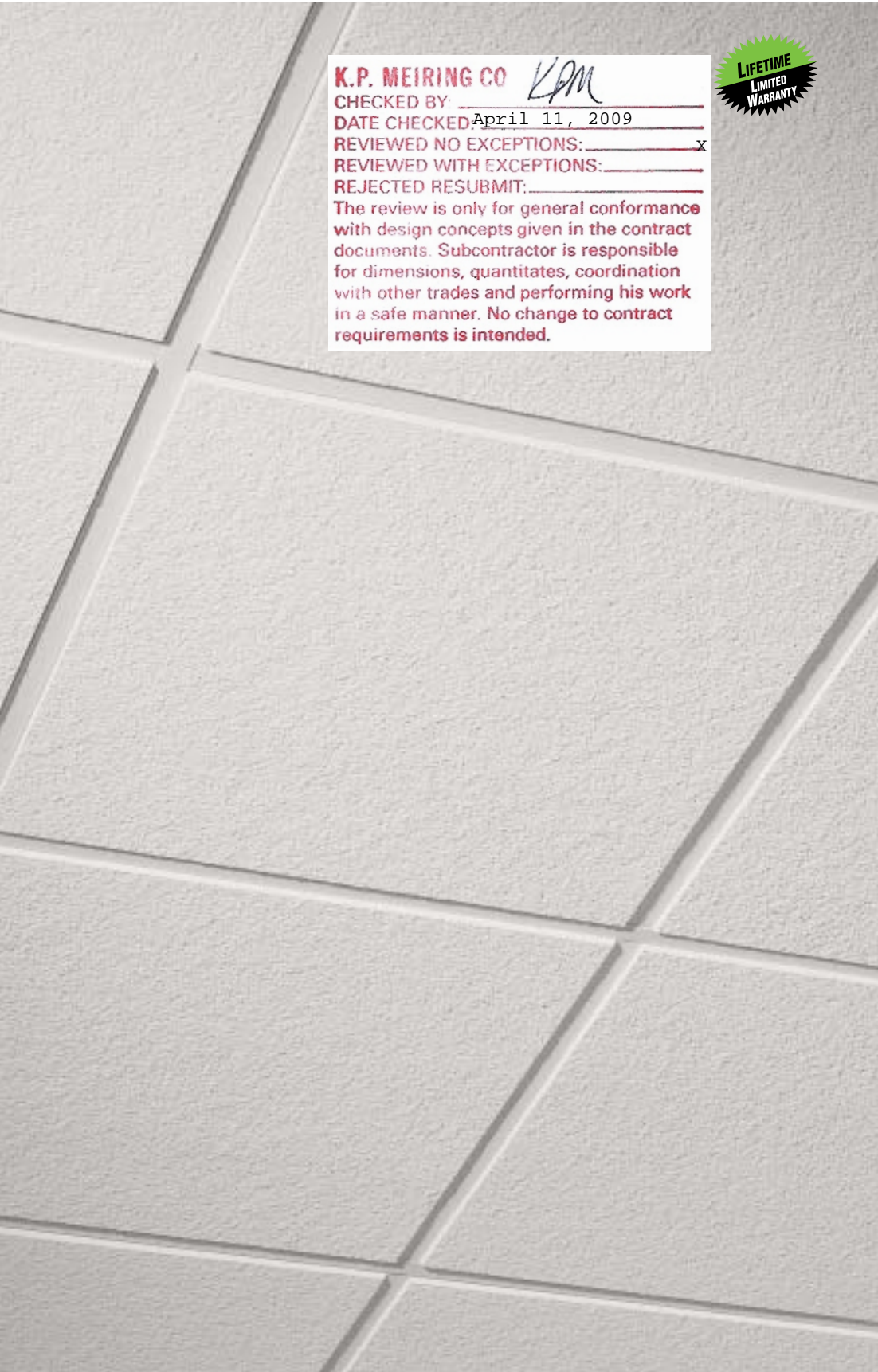
Cascade Science Lab Metal Stud, Drywall and Acoustical Ceiling Submittals

Kenneth P. Meiring
KP Meiring Company
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Indianapolis, IN 46220-1616
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DONN® Brand Suspension Systems

DX®/DXL™



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.



Features and Benefits

- 15/16" exposed tee system. Components for use in general and fire-rated applications.
- Maximum economy and design simplicity.
- DXL system features more than 80 UL designs (up to 3 hours).
- Cross tees with override-ends resist twisting and give a professionally finished look with no exposed steel edges.
- Meets or exceeds all national code requirements, including seismic.
- Patented QUICK-RELEASE™ cross tees are easy to remove without tools and help decrease renovation costs.
- Extensive color selection coordinates with USG ceiling panels.
- Lifetime limited warranty when used with USG ceiling panels ensures owner peace of mind.
- Hot-dipped galvanized steel body inhibits red rust.

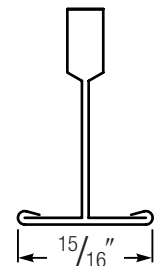
Applications

- Fire-rated, interior general use areas



- System meets or exceeds UL load compliance specifications per ASTM C635.
- Load certified and labeled through UL inspection.

Profile

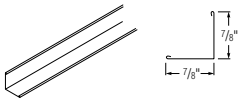




UL Classified—Rated Load¹

15/16" Tee System	ASTM Class	Length ²	Height	Item No.	Class ³	Color ⁴	4' Hanger Spacing	5' Hanger Spacing	6' Hanger Spacing Non-Fire-Rated Only
	Main Tee	12'	1-1/2"	DX/ DXL24 ^{5,6}		Standard Advantage Flat White	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			Heavy Duty	1.64"		DX/ DXL26 ^{5,6}			
	Cross Tee 1' ⁷	2'	1"	DX/ DXL216 ⁵		Standard Advantage Flat White			
	Cross Tee 1-1/2' ⁷	4'	1-1/2"	DX/ DXL424 ⁵		Standard Advantage Flat White			
			5'	1-1/2"	DX/ DXL524 ⁵		Standard Custom		

Wall Angle Molding (M7)⁶



Grid/Edge	Wall Molding ^{8,9} Fire-Rated Applications Only	Wall Molding ^{8,9} Non-Fire-Rated Applications Only
(SQ)	(M7) ¹⁰ 	
(SL)	(M7) ¹⁰ 	(M7) ¹⁰
(SLT)	(M7) ¹⁰ 	(M7) ¹⁰
(SLB)		(M7)

Color

Available to match USG ceiling panels; see color selectors.

Material

Double web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content

25 percent. For details, see the Recycled Content selector.

Installation

Must be installed in compliance with ASTM C636, CISCA or standard industry practices, within all applicable code requirements. See UL Fire Resistance Directory for rated assembly details.

Limitations

Severe Environmental Requirements: Panels in exposed grids in non-fire-rated, high-humidity applications: use ZXLA™ suspension systems with aluminum cap. Panels in exposed grids in fire-rated, high-humidity applications: use ZXLA™ suspension systems. For all exterior applications, suspension should be reviewed by a structural engineer.

ICBO Evaluation Report Compliance

See ICBO Evaluation Service, Inc.,

Evaluation Report No. 2244 for allowable values and/or conditions of use. All reports are subject to re-examination, revision and possible cancellation.

L.A. Research Report Compliance

DOWN® Brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance

System meets or exceeds UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8" over 48" span (or L/360) in Light-Duty, Intermediate-Duty or Heavy-Duty categories. See UL load label on carton.

DXL Fire-Rated Assemblies

3 hr.: A-211, D-010, D-216, D-218, D-219, G-205, G-211, G-213, G-229, G-256, G-268
 2 hr.: A-202, D-205, D-209, D-215, G-008, G-022, G-040, G-202, G-203, G-204, G-208, G-209, G-210, G-214, G-215, G-218, G-222, G-227, G-228, G-244, G-231, G-236, G-243, G-248, G-250, G-252, G-258, J-201, J-202, L-211, P-213, P-215, P-237, P-241
 1-1/2 hr.: A-210, G-241, G-259, G-267, L-208, P-207, P-217, P-225, P-227, P-228, P-229, P-230, P-231, P-239, P-242, P-251, P-253, P-268, P-269
 1 hr.: G-201, G-202, L-206, L-209, L-210, P-201, P-204, P-206, P-210, P-211, P-214, P-216, P-225, P-235, P-238, P-244, P-245, P-246, P-255, P-257, P-260, P-261, P-262, P-267

See UL Fire Resistance Directory for rated assembly details.

Footnotes

1. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit of L/360. For detailing and module loading, request AC269QRC.
2. 4' and 8' non-fire-rated cross tees also available.
3. UL fire-rated listing, labeling and follow-up applies only to fire-rated components.
4. DX color program for imperial only. Consult Customer Service for colors of metric tees.
5. Cross-tee hole punch spacings also available for 20" and 30" modules.
6. Available in metric; add "ME" to Item No. Consult Customer Service for colors of metric tees.
7. DX cross tees available in additional sizes and lengths.

Non-fire-rated applications may mix DX and DXL parts.

8. For moldings information, see Perimeter Options selector.
9. Panels must be specified to be field-cut, field-revealed and to provide widest possible lay-on edge.
10. For DXL, channel moldings are also acceptable in some designs. Check UL Fire Resistance Directory for molding options.

SAFETY FIRST!

Follow good safety practices. Read material safety data sheets and related literature on products before specification and/or installation.



RADAR Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits

Recycled Content: 28% – 50%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction ¹	Recycled Content	Regional Materials ²	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

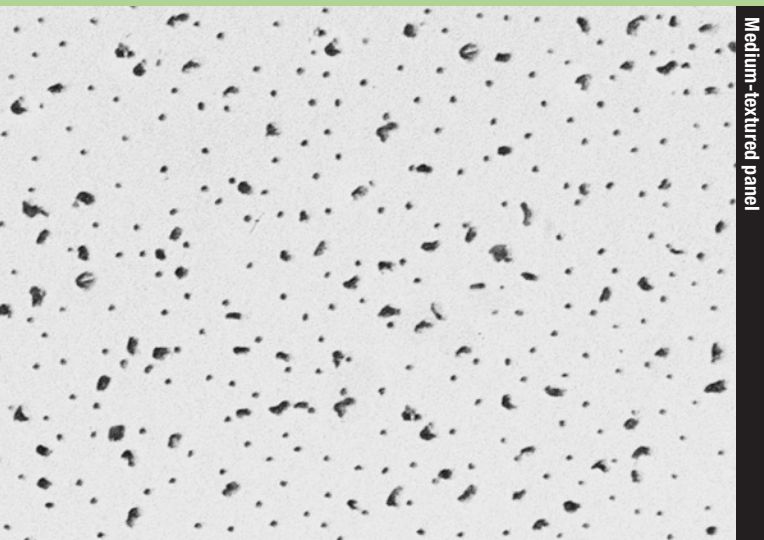
- Non-directional pattern.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
- Optional FIRECODE™ formulation.
- High-durability panels are 79% more durable than standard panels.

Applications

- Schools
- Corridors
- Lobby areas
- Offices
- Retail stores

Substrate

- Water-felted mineral fiber



Medium-textured panel

Call 888.874.2450 for color samples

See individual items for color availability.

Standard Colors



White



Parchment 103



Manila 246



Beige 142



Straw 143



Sandstone 090



Taupe 107



Charcoal 534



Flat Black 205

30
Year System Warranty
– No visible sag
– Mold/mildew protection

RADAR CLIMAPLUS Panels

Edge	Panel Size Imperial Metric (mm) ³	Class ⁴	Item No. Imperial Metric	UL Classified			Color ⁶	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content ⁷	Panel Cost	
				NRC	CAC Min.	LR ⁵								
SQ 	2'x2'x5/8"	Class A	2210	.55	33	.84	White Standard	A, B	Low			28 – 44%	\$	
	2'x2'x5/8"		2215	.55	35	.84	White	A	Low			48 – 50%	\$	
	2'x4'x5/8" 600x1200x15	Class A	2410 ME2410	.55	35	.84	White Standard	A	Low			28 – 44%	\$	
	2'x4'x5/8"		2415	.55	35	.84	White Flat Black	A	Low			48 – 50%	\$	
	2'x4'x5/8"	Class A	2410P⁸	.55	35	.85	White	A, B	Low			25%	\$	
SLT 	2'x2'x5/8" 600x600x15	Class A	2220 ME2220	.55	33	.84	White Standard Flat Black not available	C	Low			28 – 44%	\$	
	2'x2'x5/8"		2225	.55	35	.84	White	C	Low			48 – 50%	\$	
	2'x4'x5/8"	Class A	2420	.55	35	.84	White	C	Low			28 – 44%	\$	
	2'x4'x5/8"		2425	.55	35	.84	White	C	Low			48 – 50%	\$	
FLB 	2'x2'x5/8"	Class A	2230	.55	33	.84	White	D, F, G	Low			28 – 44%	\$	
	2'x2'x5/8"		2235	.55	35	.84	White	D, F, G	Low			48 – 50%	\$	
RADAR CLIMAPLUS High-Durability Panels	SQ 	2'x2'x5/8"	Class A	2207	.55	35	.84	White	A, B	Low			31%	\$
		2'x4'x5/8"	Class A	2407	.55	35	.84	White	A, B	Low			31%	\$
	SLT 	2'x2'x5/8"	Class A	2227	.55	35	.84	White	C	Low			31%	\$
RADAR CLIMAPLUS Tile	SF ⁹ 	12"x12"x5/8"	Class A	2570	.45 ¹⁰	35	.84	White	Adhesive Staple	Low			28 – 44%	\$\$\$

Legend

Low Emissions (VOC Class)

Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

CLIMAPLUS Superior Performance¹¹

Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

A	B	C	D	E	F	G	H
DX [®] /DXL™	CENTRICITEE™ DXT	DX/DXL	CENTRICITEE DXT	CENTRICITEE DXLT	FINELINE [®] DXF	FINELINE [®] 1/8 DXFF	FINELINE [®] DXLF

Physical Data/ Footnotes

Product literature
Data sheet: SC2127

ASTM E1264 classification
Type III, Form 2, Pattern C, D, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.61-1.15 lb./sq. ft.

Thermal resistance
R-1.4 (5/8" Class A panels and tile)
R-1.6 (Firecode panels)

Maximum backloading
See warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

High-Durability panels
Ball hardness as tested per ASTM C367.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Metric available in White only.
4. Fire-rated items: see UL design details.
5. LR values are shown as averages.

6. See Colors selector for more information.
7. For details, see Sustainability selector.
8. Includes plastic coating, Gardner-Scrubability tested to 3,000 cycles (ASTM D246).
9. SF = staple flange.
10. Not UL Classified for acoustics.
11. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

