

SUBMITTAL TRANSMITAL

		February 22, 2012 WGC Submittal No: 09512-001							
PROJECT:	Harold Thompson Regional WRF Birdsall Rd. Fountain, CO 80817 Job No. 2908								
ENGINEER:	ER: GMS, Inc. 611 No. Weber St., #300 Colorado Springs, CO 80903 719-475-2935 Roger Sams								
OWNER:	Lower Fountain Metropolit Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heck								
CONTRACTOR:	Tri City Drywall, Inc. 3720 E Saint Vrain St. Colorado Springs, CO 809 719-596-0095 Frank Hoove								
SUBJECT: EM Build System	ling Acoustical Ceiling Tile	- Radar Panels and Donn DX/DXL Suspension							
SPEC SECTION: 0	9512								
PREVIOUS SUBMIS	SSION DATES: None								
DEVIATIONS FROM	SPEC:YES X_ N	10							
respect to the means, me	ethods, techniques, & safety pre	ewed by Weaver General Construction and approved with cautions & programs incidental thereto. Weaver General with contracted documents and comprises on deviations							
Contractor's Stam	p:	Engineer's Stamp:							
Date: 2/22/12 Reviewed by: H.C () Reviewed With (X) Reviewed With	nout Comments								
ENGINEER'S COMMENTS:									



Project: HDTWRF Project

Location: Fountain, CO

Supplier: Tri City Drywall

Date: 2/20/12

Submittal 09512-001 Acoustical Ceiling Tile EM Building (Information found on Sheet EM-11 and

Addendum No. 8)

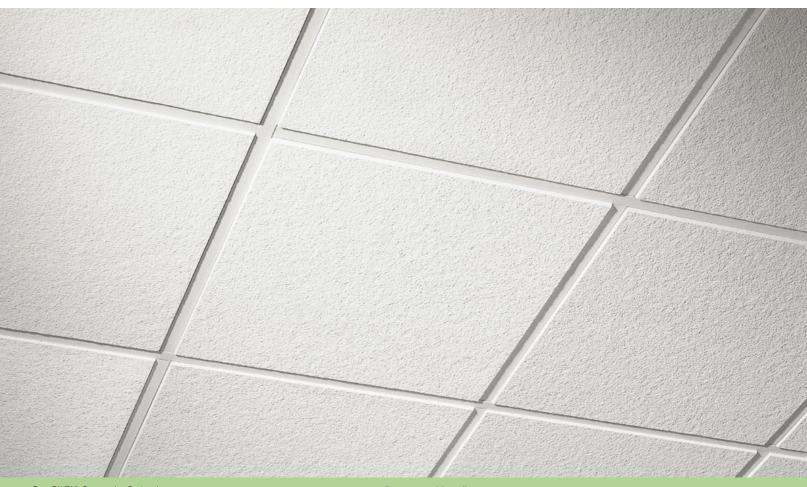
Additional Submittal Review Comments:

1. Tri City Drywall is submitting USG as an equal to Armstrong Product No. 933 or 769









DONN DX/DXL Suspension System/ ECLIPSE Panels with *CLIMAPLUS* Performance

LEED Credits

Recycled Content: Up to 65%

Waste Reduction	Recycled Content	Regional Materials	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
•	•	•				

Features and Benefits

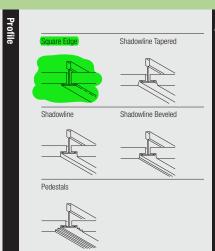
- 15/16" exposed tee system. Components for use in general and fire-rated applications
- Maximum economy and design simplicity
- DXL system features more than 80 UL designs (up to 3 hours)
- Cross-tee override ends resist twisting and give a professionally finished look
- Meets or exceeds all national code requirements, including seismic
- Proprietary Quick-Release[™] cross tees
- High recycled content (HRC) available

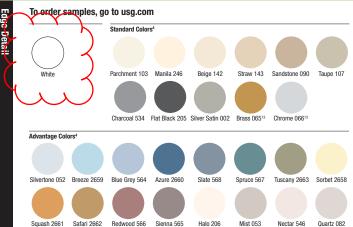
- Custom color available.
- ICC-ES evaluated approach to seismic design installations (ICC-ESR-1222).

Applications

Fire-rated, interior general use areas







- Web: usg.com
- E-mail: samplit@usg.com
- Fax: 888 874.2348

Technical Services: 800 USG.4YOU

Web Sites: usg.com usgdesignstudio.com sustainableceilings.com seismicceilings.com

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

_									Seisi Cate	nic Design gors¹		Rated Load ²	
oons	ASTM Class	Length	Height	Item No.	Class	Color	Post Consumer RC	Total RC	IBC	ICC-ES Evaluated Installation	4' Hanger Spacing	5' Hanger Spacing	6' Hanger Spacing ⁸
ompliance specifications per STM C635					0		②	3					
5/16" Tee System) (Main Tee	Intermediate Duty	12'	1.64"	DX/ ^{3,4,7,12} DXL24		Standard	up to 39%	up to 47%	A-C	7/8" Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		DX/ ^{3,4,12} DXL24 HRC	O		57% HRC	65% HRC							
ĺ	Heavy Duty	12'	1-1/2"	DX/ ^{3,4,7,12} DXL26	DXL26 DX/3,4,12 Standard Advantage	Flat White up to Standard 39%	up to 47%	A-F	F 7/8" Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF	
				DX/ ^{3,4,12} DXL26 HRC		57%	65% HRC						
Cross Tee		2')	1"	DX/ ^{3,4,7,12} DXL216		Flat White Standard	up to 25%	up to 33%					
11				DX/ ^{3,4,12} DXL216 HRC	0	Advantage	57% HRC	65% HRC					
Cross lee		4'	1-1/2"	DX/ ^{3,4,7,12} DXL424		Flat White Standard	up to 20%	up to 47%					
1-1/2"				DX/ ^{3, 4, 12} DXL424HRC	O	Advantage	57%	65% HRC					
				DX422 ^{5,7,9}	Class A	Flat White Standard	up to 25%	up to 33%					
				DX422HRC5		Advantage	57% HRC	65% HRC					
		5'	1-1/2"	DX/ ^{3,4,7,12} DXL524	0	Flat White Standard	up to 39%	up to 46%					

High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines

	Wall Angle	Length	Item No.	Color	Wall Angle	Length	Item No	Color	Post Consumer RC	Total RC			
Molding ¹⁰	2"	10'	M20SM-2 (up to 65% recycled content)	Flat White	1 7/8"	12'	M7 ⁸	Flat White Standard Advantage	up to 65%				
	2"		HRC		7/8"→		M7 HRC8		57%	65% HRC			
*	Shadowline ¹¹	10'	MS274 ⁵ 2" shelf for	Flat White Custom	ŋ <u>_</u>	10'	M20 ⁵ M20HD	Flat White Custom	up to 65%				
	7/8"		seismic (Up to 65%		1"		Heavy Duty		up to 58%				
	11/4" 3/4" 9/32"		recycled content)		2"		M20SM Seismic		up to 65%				

Physical Data/ Footnotes

Product literature & samples
Data sheet: AC3167. Sample flat
white - seismic: 271370. Sample flat white: 215673. Sample main tee: 206563. Sample flat black: 205100.

Material

Double-web G30 hot-dipped galvanized steel body and G30 hot-dipped galvanized steel cap.

Recycled content
For details, see LEED report generator at usgdesignstudio.com.

Installation
Must be installed in compliance with ASTM C636, ASTM E580, CISCA or standard industry practices, within all applicable code requirements. See LIL. Fire Resistance. Directory for rated assembly details.

Severe Environmental Requirements: Panels in exposed grids in non-fire-rated, high-humidity applications: use all-aluminum AX™ or ZXLA™ painted HDG 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.

ICC Evaluation Service, Inc.,

Report Compliance Suspension systems manufactured by USG Interiors, LLC, have been reviewed and are approved by listing in ICC-ESR-1222. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USGDesignStudio.com or 800 USG.4YOU for current reports.

L.A. Research Report Compliance

Down brand suspension systems manufactured by USG Interiors, LLC, have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095, 25764.

23451, 24095, 25704.

The City of New York BSA and
MEA Report Compliance
Down suspension systems have been
approved by listing in one or more of
the following City of New York Board of
Standards and Appeals, and Department of Building, Material and Equipment of companing, Maderial and Equipment Acceptance reports: BSA 618-60-SM, BSA 184-77-SM, BSA 796-81-SM, MEA 366-93-M, MEA 133-95-M, MEA 312-99-M, MEA 123-00-M.

ASTM C635 Standard for Load Compliance

System meets or exceeds 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.

Footnotes
1. All DX/DXL main-tee and cross-tee connections meet IBC requirements for tension and compression strength. 2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit of L/360.

3. UL fire-rated listing, labeling and follow-up applies only to fire-rated components.

 Color program for imperial only.
 Consult Customer Service for custom color and metric-tee colors.

5. Non-fire-rated only. 6. Cross-tee hole punch spacings also available for 20" and 30" modules. 7. Available in metric 8. DX cross tees available in additional sizes and lengths.

9. Non-fire-rated applications may mix DX and DXL parts. 10. For moldings information, see Perimeter Interface selector. 11. Panels must be specified to be field-cut, field-revealed and to

provide widest possible lay-on edge. 12. For DXL, channel moldings are also acceptable in some designs. Check UL Fire Resistance Directory for molding options.

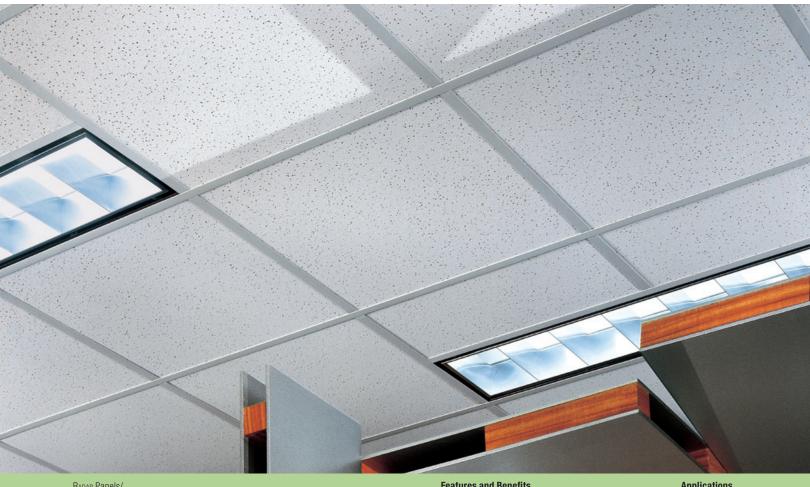
Brass and chrome available on limited items.



$Radar^{\text{\tiny{M}}}$







DONN DX/DXL Suspension System

LEED Credits

Recycled Content: 25% - 50%

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

Features and Benefits

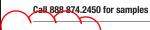
- Non-directional pattern with a fresh, clean appearance offers fast, efficient installation.
- Economical, all-purpose ceiling pattern offered in many sizes.
- Optional Firecode[™] formulation designed to meet life safety codes.

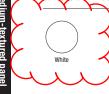
Applications

- Schools
- Corridors
- Offices
- Retail stores

Substrate

- Water-felted mineral fiber





To order samples/literature:

- Web: usa.com
- E-mail: samplit@usg.com
- Fax: 847 232.1594 Technical Services: 800 USG.4YOU

Web Sites: usg.com usadesianstudio.com sustainableceilings.com seismicceilings.com

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

(UL) UL Classified Edge **Panel Size** Class³ Item No. NRC CAC LR4 Color Grid VOC Recycled **Panel** Imperial Imperial Min. **Options Emissions** Content⁵ Cost Metric (mm) Metric O ₩ \odot (\$) 0 3 .55 **RADAR Panels** 2'x2'x5/8" Class A 2110 33 .85 White A, B, C Low 25% \$ 600 x 600 x 15 ME2110 2'x2'x5/8" 2115 .55 35 .85 White Α Low 48 - 50%\$ 0 2'x4'x5/8" 2310 .55 35 .85 600x1200x15 ME2310 2'x4'x5/8" 2315 .55 35 .85 White Α Low 48 - 50%\$ 0 2'x5'x5/8" Class A 2619 .55 35 .85 White A, B Low 25% 20"x60"x5/8" Class A 2617 .55 35 .85 White A, B 25% \$ Low 2'x4'x3/4" 2311 25% \$ Class A .60 35 .85 White A, B Low 30"x60"x3/4" 35 \$ Class A 2618 .60 .85 White A, B 25% Low SLT 2'x2'x5/8" Class A 2120 .55 33 .85 White D \$ Low 25% 600x600x15 ME2120 D 2'x2'x5/8" 2125 .55 35 .85 \$ White Low 48 - 50%0 D 2'x4'x5/8" Class A 2320 .55 35 .85 White Low 25% \$ D 2'x2'x3/4" Class A 2121 .60 35 .85 White Low 25% \$ FLB 2'x2'x5/8" Class A 2130 .55 33 .85 White E, F, G, H Low 25% \$ RADAR Tile6,7 **BESK** 12"x12"x5/8" Class A 2990 .50 40 .85 White Low 25% \$\$\$ RADAR Illusion SLT 2'x4'x3/4" 2742 D 25% \$\$ Class A .55 35 .84 White Low Two/24 Panel The look of 2'x2'panels Illusion Two/24 Legend Pattern **S** 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. В C D Ε G Н $DXW^{\scriptscriptstyle\mathsf{TM}}$ IDENTITEE[™] DX®/DXL™ DX/DXL FINELINE® FINELINE® 1/8 CENTRICITEE CENTRICITEE DXT DXT8 DXF DXFF DXI™ Concealed Grid Profile **Options**

Physical Data/ Footnotes

Product literature Data sheet: SC2288

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 (Class A, 5/8" panels and tile) R-1.7 (Class A, 3/4" panels)

R-1.4 (Class A,15 mm panels)

R-1.6 (Firecope, 5/8" panels)

Maximum backloading

See Warranty for details.

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Footnotes

1. Applies when USG acoustical

ceilings recycling program is utilized. 2. Dependent on location: see Sustainability selector.

3. Fire-rated items:

Sustainability selector

see UL design details. 4. LR values are shown as averages. 5. For details, see the

6. Contact USG for adhesive recommendation for 12"x12" glue-up applications. Not UL Classified for acoustics. 8. Maximum 2' x 2' for square panels.