

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: WEBSTER UNIVERSITY Substitution Request Number: _____
ISB
To: DOUG MAYHEW From: USG - CHRIS BECHT
Re: ACOUSTICAL CEILING PANELS Date: 4-12-16
Contract For: _____

Specification Title: ACOUSTICAL PANEL CEILING Description: _____
Section: 095113 Page: 3 Article/Paragraph: 2.2 ACOUSTICAL PANELS

Proposed Substitution: APC-1 HALCYON
Trade Name: HALCYON
Model No.: 98225
Manufacturer: USG
Address: 550 W. ADAMS
CHICAGO, IL 60661
Phone: 626-399-1853 Manufacturer Web Page: WWW.USG.COM

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

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- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports
- ☒ Other (explain)

SIDE BY SIDE CROSSOVER

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

Address:

550 W. ADAMS

CHICAGO, IL 60661

Phone:

626-399-1853

Email

Cbecht@usg.com

Review and Action

- ☒ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments:

Signed by: Lynn Grossman

Date: 04.,25.16

Halcyon™

ClimaPlus™ Performance



10

Year Availability
98241, 98245, 97221



HALCYON Panels with *CLIMAPLUS* Warranty Performance/
DONN FINELINE 1/8 DXFF Suspension System

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.

Features and Benefits

- Exceptional noise reduction with NRC values up to 1.00 for open-plan offices.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- Washable and Scrubbable finish.
- Impact and Scratch Resistant.
- Coordinates visually with MARS™ for open/closed plan applications.
- Compatible with LOGIX™ Integrated Ceiling Systems.
- Non-directional, monolithic visual reduces installation time and waste.
- *CLIMAPLUS*™ 30-year lifetime system warranty against visible sag, mold and mildew.

Applications

- Open-plan offices
- Offices with indirect lighting
- Waiting rooms (assists in addressing HIPAA standards)
- Media rooms
- Libraries

Substrate

- Fiberglass

Fine-Textured Panel



Flat White
050

To order samples, go to usg.com

UL Classified												
	Edge	Panel Size²	Class	Item No.	NRC	CAC Min.	LR³	Color	Grid Options	Anti-Mold & Mildew Sag Resistance	Recycled Content¹	Panel Cost
HALCYON™ Panels 	SQ 	2'x2'x3/4"	Class A	97221	.90	20	.90	White	A, B, C		46%	\$\$\$\$
		2'x4'x3/4"	Class A	97241	.90	20	.90	White	A, B		46%	\$\$\$\$
		2'x2'x1"	Class A	98221	.95	20	.90	White	A, B, C		43%	\$\$\$\$
		30"x30"x1"	Class A	98331	.95	20	.90	White	A, B, C		43%	\$\$\$\$
		2'x2'x1" Foil-Back	Class A	88221	.90	30	.90	White	A, B, C		43%	\$\$\$\$
		2'x4'x1"	Class A	98241	.95	20	.90	White	A, B		43%	\$\$\$\$
		2'x4'x1" Foil-Back	Class A	88223	.90	30	.90	White	A, B		43%	\$\$\$\$
		2'x4'x1-1/2"	Class A	99241	1.00	25	.90	White	A, B		51%	\$\$\$\$
		2'x4'x1-1/2" Foil-Back	Class A	88224	.95	30	.90	White	A, B		51%	\$\$\$\$
		2'x2'x1-1/2"	Class A	99221	1.00	25	.90	White	A, B, C		51%	\$\$\$\$
	SL 	2'x2'x1"	Class A	98223	.95	20	.90	White	D		43%	\$\$\$\$
		2'x2'x1" Foil-Back	Class A	88225	.90	30	.90	White	D		43%	\$\$\$\$
		2'x4'x1"	Class A	98243	.95	20	.90	White	D		43%	\$\$\$\$
		30"x30"x1"	Class A	98333	.95	20	.90	White	D		43%	\$\$\$\$
		2'x4'x1" Foil-Back	Class A	88226	.90	30	.90	White	D		43%	\$\$\$\$
		2'x2'x1-1/2"	Class A	99223	1.00	25	.90	White	D		51%	\$\$\$\$
	FL 	2'x2'x1"	Class A	98225	.95	20	.90	White	E, F, G, H		43%	\$\$\$\$
		2'x4'x1"	Class A	98245	.95	20	.90	White	E, F, G, H		43%	\$\$\$\$
		30"x30"x1"	Class A	98335	.95	20	.90	White	E, F, G, H		43%	\$\$\$\$
		2'x2'x1" Foil-Back	Class A	88227	.90	30	.90	White	E, F, G, H		43%	\$\$\$\$
		2'x2'x1-1/2"	Class A	99225	1.00	25	.90	White	E, F, G, H		51%	\$\$\$\$
	A DX®/DXL™	B DXW™	C⁴ CENTRICITEE™ DXT™	D DX/DXL	E CENTRICITEE DXT	F FINELINE® DXF™	G FINELINE 1/8 DXFF™	H IDENTITEE™ DXI™	Legend CLIMAPlus Warranty Performance Fiberglass substrate is inherently resistant to the growth of mold and mildew. Includes sag resistance performance. ≥ .70 NRC ≥ .85 LR			
Grid Profile Options												
Physical Data/ Footnotes	Product literature Data sheet: SC2365 ASTM E1264 classification Type XII, Form 2, Pattern E & G ASTM E84 surface burning characteristics Class A Flame spread: 25 Smoke developed: 50			Weight 0.38 lbs./sq. ft. (3/4" panels) 0.47 lbs./sq. ft. (1" panels) 0.68 lbs./sq. ft. (1-1/2" panels) Thermal resistance R-3.3 (3/4" panels) R-4.4 (1" panels) R-6.6 (1-1/2" panels) Maximum backloading See USG 30-Year Limited Warranty Commercial Applications SC2102.			Maintenance Can be cleaned easily with a soft brush or vacuum. To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. Treating field cut reveal edges All field-cut edges "exposed to view" should be colored to match the factory finish. HALCYON Touch-up Edge Paint is recommended when perimeter field cuts expose the yellow substrate.			Notes 1. For details, see LEED report tool at usgdesignstudio.com. 2. Custom-size panels available. Please contact your USG sales representative for details. 3. LR values are shown as averages. 4. For details, see Ceiling Systems Warranties and Limitations (SC2102) and ClimaPlus Ceilings Certification of Performance (SC2451). 5. Maximum 2'x2' with SQ edge panels.		

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Contract For: _____

Specification Title: ACOUSTICAL CEILING PANELS Description: _____
Section: 095113 Page: 3 Article/Paragraph: 22 ACOUSTICAL PANELS

Proposed Substitution: ARC-2 MARS
Trade Name: MARS
Model No.: 88985
Manufacturer: USG
Address: 530 W. ADAMS
CHICAGO, IL. 60661
Phone: 636-399-1853 Manufacturer Web Page: WWW.USG.COM

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- ☐ Reports
- ☒ Other (explain)

SIDE BY SIDE COMPARISONS

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

MFG

Address:

USG
550 W. ADAMS
CHICAGO, IL 60661

Phone:

636-399-1853

Email

Cbecht@usg.com

Review and Action

- ☐ Substitution approved – Make submittals in accordance with the Specifications.
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Comments: note: match grid specified on drawings

Signed by:

Lynn Grossman

Date:

04.,25.16

Mars™

ClimaPlus™ Performance

10

Year Availability

86185, 86785, 86985, 88185

HRC

High Recycled Content

USG



MARS Panels with CLIMAPLUS Warranty/
DOWN DX/DXL Suspension System

Features and Benefits

- Excellent noise reduction (NRC-0.70).
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- Washable and scrubbable finish.
- Impact and scratch resistant.
- Available in Optimized Recycled Content formulations to help maximize LEED recycled content contribution.
- Coordinates visually with HALCYON™ for open/closed plan applications.
- Non-directional, monolithic visual reduces installation time and waste.
- CLIMAPLUS™ 30-year lifetime system warranty against visible sag, mold and mildew.

Applications

- Offices
- Conference rooms
- Healthcare (HIPAA requirements)
- Classrooms
- Corridors
- Reception/Lobby areas
- Dining rooms, kitchens and food-prep areas

Substrate

- Wet-formed mineral fiber

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.



Fine-Textured Panel

To order samples, go to usg.com



Flat White
050

Mars™

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888 874.2348
 Technical Services:
 800 USG.4YOU (800 874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com



MARS™

UL Classified										Recycled Content¹		
Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR²	Color	Grid Options	VOC Emissions	Anti-Mold& Mildew/Sag Resistance	Total	Panel Cost
											HRC	
SQ 	2'x2'x3/4"	Class A	86185	.70 	35	.90 	White	A, B, C	Low		75.1%	\$\$
	2'x2'x3/4"	Class A	86185HRC	.70 	35	.90 	White	A, B, C	Low		80.5%	\$\$
	2'x4'x3/4"	Class A	88185	.70 	35	.90 	White	A, B	Low		75.1%	\$\$
	2'x4'x3/4"	Class A	88185HRC	.70 	35	.90 	White	A, B	Low		80.5%	\$\$
SLT 	2'x2'x3/4"	Class A	86785	.70 	35	.90 	White	D	Low		75.1%	\$\$
	2'x2'x3/4"	Class A	86785HRC	.70 	35	.90 	White	D	Low		80.5%	\$\$
	2'x4'x3/4"	Class A	88785	.70 	35	.90 	White	D	Low		75.1%	\$\$
	2'x4'x3/4"	Class A	88785HRC	.70 	35	.90 	White	D	Low		80.5%	\$\$
	30"x30"x3/4"	Class A	86875	.70 	35	.90 	White	D	Low		75.1%	\$\$
FLB 	2'x2'x3/4"	Class A	86985	.70 	35	.90 	White	E, F, G, H	Low		75.1%	\$\$
	2'x2'x3/4"	Class A	86985HRC	.70 	35	.90 	White	E, F, G, H	Low		80.5%	\$\$
	2'x4'x3/4"	Class A	88985	.70 	35	.90 	White	E, F, G, H	Low		75.1%	\$\$
	2'x4'x3/4"	Class A	88985HRC	.70 	35	.90 	White	E, F, G, H	Low		80.5%	\$\$
	30"x30"x3/4"	Class A	86830	.70 	35	.90 	White	E, F, G, H	Low		75.1%	\$\$

Legend

Low Emissions (VOC)

Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.

CLIMAPlus Warranty Performance³

Contains a broad-spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.

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.

≥ .70 NRC
 ≥ .85 LR

Grid Profile Options

A	B	C⁴	D	E	F	G	H
DX®/DXL™	DXW™	CENTRICITEE™ DXT™	DX/DXL	CENTRICITEE DXT	FINELINE® DXF™	FINELINE 1/8 DXFF™	IDENTITEE™ XI™

Physical Data/ Footnotes

Product literature
 Data sheet: SC1966

ASTM E1264 classification
 Type IV, Form 1 and 2, Pattern E, G

ASTM E84 surface burning characteristics
 Class A

Flame spread: 25
 Smoke developed: 50

Weight
 1.06 lbs./sq. ft.

Thermal resistance
 R-2.2

Maximum backloading

See USG 30-Year Limited Warranty Commercial Applications SC2102.

Maintenance

Can be cleaned easily with a soft brush or vacuum. To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface.

Notes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Panel face and back surfaces treated with a proprietary, broad-spectrum antimicrobial additive that inhibits and retards the growth of mold, mildew and bacteria. For details, see *Ceiling Systems Limited Warranty Commercial Applications* (SC2102) and *CLIMAPlus Ceilings Certification of Performance* (SC2451).
- Maximum 2'x2' with SQ edge panels.



Manufactured by USG Interiors, LLC
 550 West Adams Street
 Chicago, IL 60661

The following are trademarks of USG Interiors, LLC or a related company: CENTRICITEE, CLIMAPlus, DOWN, DX, DXF, DXFF, DXL, DXL, DXT, DXW, FINELINE, HALCYON, IDENTITEE, MARS, USG.

Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

SC1966/rev. 12-14
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 Printed in U.S.A.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: WEBSTER UNIVERSITY Substitution Request Number: _____
TSB
To: DOUG MAYHEW From: USG - CARLS BECHT
Re: ACOUSTICAL CEILING PANELS Date: 4-12-16
Contract For: _____

Specification Title: ACOUSTICAL PANEL CEILING Description: _____
Section: 095113 Page: 3 Article/Paragraph: 2.2 ACOUSTICAL PANELS

Proposed Substitution: APC-3A MARS HEALTHCARE
Trade Name: MARS HEALTHCARE
Model No.: 86984
Manufacturer: USG
Address: 550 WEST ADAMS
CHICAGO, IL. 60661
Phone: 630-399-1853 Manufacturer Web Page: WWW.USG.COM

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

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Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

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- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports
- ☒ Other (explain)

SIDE BY SIDE COMPARISON

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

Address:

550 W. ADAMS

CHICAGO, IL 60661

Phone:

636-399-1053

Email

Cbecht@usg.com

Review and Action

- ☐ Substitution approved – Make submittals in accordance with the Specifications.
- ☒ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments: note: match grid specified on drawings

Signed by:

Lynn Grossman

Date:

04.25.16

USG MARS™ HEALTHCARE ACOUSTICAL PANELS

CLIMAPLUS™ PERFORMANCE — NEW HIGH NRC OPTIONS

USG Mars™ Healthcare
Acoustical Panels with ClimaPlus™
Warranty Performance / USG
Donn® Brand DX®/DXL™ Acoustical
Suspension System

TO ORDER SAMPLES, GO TO USG.COM



White

Fine-Textured Panel

FEATURES AND BENEFITS

- Water-repellent membrane designed to be durable and safe with common disinfectants.** Washable and soil-resistant finish. Impact and scratch resistant.
- Acoustics and cleanability exceed FGI guidelines for healthcare.
- Meets USDA/FSIS guidelines for use in food-processing areas.
- Achieves FDA standards for smoothness, durability and cleanability.
- Meets requirements of California Building Code table 1224.1, level 2.
- Fully encapsulated edges.
- Coordinates visually with USG Halcyon™ Healthcare, USG Mars™ and USG Halcyon™ Acoustical Panels.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- High-NRC provides excellent sound control in healthcare facilities to assist in addressing HIPAA standards.
- ClimaPlus™ 30-year lifetime system warranty against visible sag, mold and mildew.

APPLICATIONS

- Patient rooms
- Treatment rooms
- Nurses' stations

- Waiting rooms
- Laboratories
- Corridors
- Lavatories and restrooms
- Kitchen/food-prep areas

SUBSTRATE

- Wet-formed mineral fiber

USG MARS™ HEALTHCARE ACOUSTICAL PANELS

CLIMAPLUS™ PERFORMANCE — NEW HIGH NRC OPTIONS

ORDER SAMPLES/LITERATURE
usg.com | samplitt@usg.com
fax: 888 874-2348

SEE LEED REPORT TOOL
for detailed sustainability
information, as well as the
MOST UP-TO-DATE
TECHNICAL SERVICES
800 USG.4YOU (874-4968)
TECHNICAL INFORMATION,
at usgdesignstudio.com



UL Classified

Edge	Panel Size	Fire Rating	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew/Sag Resistance	Recycled Content ¹	Panel Cost
SQ 	2'x2'x3/4"	Class A	86169	.70	35	.90	White	A,B,C,D,E,F	Low		77%	\$\$
	2'x4'x3/4"	Class A	88189	.70	35	.90	White	A,B,D,E,F	Low		77%	\$\$
SLT 	2'x2'x3/4"	Class A	86684	.70	35	.90	White	G,H,I,J	Low		77%	\$\$
	2'x4'x3/4"	Class A	88683	.70	35	.90	White	G,H,I,J	Low		77%	\$\$
FLB 	2'x2'x3/4"	Class A	86984	.70	35	.90	White	K,L,M,N	Low		77%	\$\$
	2'x4'x3/4"	Class A	88983	.70	35	.90	White	K,L,M,N	Low		77%	\$\$
SQ 	2'x2'x7/8"	Class A	86152	.80	35	.90	White	A,B,C,D,E,F	Low		78%	\$\$
	2'x4'x7/8"	Class A	86340	.80	35	.90	White	A,B,D,E,F	Low		78%	\$\$
SLT 	2'x2'x7/8"	Class A	86470	.80	35	.90	White	G,H,I,J	Low		78%	\$\$
FLB 	2'x2'x7/8"	Class A	86750	.80	35	.90	White	K,L,M,N	Low		78%	\$\$

Low Emissions (VOC)

Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions). USG Certificate of Compliance for Low VOC Emissions also available on usg.com.

ClimaPlus™ Warranty Performance³

Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag-resistance performance.

High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of postconsumer and preconsumer (postindustrial) recycled content per FTC guidelines.

GRID PROFILE OPTIONS

A USG DX™/DXL™	B USG DXW™	C USG Centricitee™ DXT™	D USG DXLA™	E USG ZXLA™	F USG AX™	G USG DX™/DXL™
H USG DXLA™	I USG ZXLA™	J USG AX™	K USG Centricitee™ DXT™	L USG Fineline® DXF™	M USG Fineline® 1/8 DXFF™	N USG Identitee® DXI™

PHYSICAL DATA/ FOOTNOTES

Product literature
Data sheet: SC2585

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern E, G

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

Weight
93-1.06 lbs./sq. ft.

Thermal resistance
R-2.2

Maximum backloading
See USG 30-Year Limited Warranty Commercial Applications (SC2102).

ASTM D2486 scrubability test
(standard test)

ASTM D4828 washability test
(modified test)

Water repellency
Cobb method (Tappi T441 om-84)
Water Drop Test

**Maintenance

To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:
- Hydrogen peroxide
- Isopropyl alcohol
- Quaternary ammonium
- Sodium hypochlorite
Do not mix cleaners. Follow cleaner manufacturer's recommendations.

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Panel face and back surfaces treated with a proprietary broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold and mildew. For details, see *Ceiling Systems Limited Warranty Commercial Applications* (SC2102) and *ClimaPlus™ Ceilings Certification of Performance* (SC2451).

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- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports

☒ Other (explain) SIDE BY SIDE COMPARISON

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

Address:

530 W. ADAMS

CHICAGO, IL 60661

Phone: 636-399-1853

Email

Cbecht@usg.com

Review and Action

- ☒ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments:

Signed by: Lynn Grossman

Date: 04.,25.16

USG MARS™ HEALTHCARE ACOUSTICAL PANELS

CLIMAPLUS™ PERFORMANCE — NEW HIGH NRC OPTIONS

USG Mars™ Healthcare
Acoustical Panels with ClimaPlus™
Warranty Performance / USG
Donn® Brand DX®/DXL™ Acoustical
Suspension System

TO ORDER SAMPLES, GO TO USG.COM



White

Fine-Textured Panel

FEATURES AND BENEFITS

- Water-repellent membrane designed to be durable and safe with common disinfectants.** Washable and soil-resistant finish. Impact and scratch resistant.
- Acoustics and cleanability exceed FGI guidelines for healthcare.
- Meets USDA/FSIS guidelines for use in food-processing areas.
- Achieves FDA standards for smoothness, durability and cleanability.
- Meets requirements of California Building Code table 1224.1, level 2.
- Fully encapsulated edges.
- Coordinates visually with USG Halcyon™ Healthcare, USG Mars™ and USG Halcyon™ Acoustical Panels.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- High-NRC provides excellent sound control in healthcare facilities to assist in addressing HIPAA standards.
- ClimaPlus™ 30-year lifetime system warranty against visible sag, mold and mildew.

APPLICATIONS

- Patient rooms
- Treatment rooms
- Nurses' stations

- Waiting rooms
- Laboratories
- Corridors
- Lavatories and restrooms
- Kitchen/food-prep areas

SUBSTRATE

- Wet-formed mineral fiber

USG MARS™ HEALTHCARE ACOUSTICAL PANELS

CLIMAPLUS™ PERFORMANCE — NEW HIGH NRC OPTIONS

ORDER SAMPLES/LITERATURE
usg.com | samplrit@usg.com
fax: 888 874-2348

SEE LEED REPORT TOOL
for detailed sustainability
information, as well as the
MOST UP-TO-DATE
TECHNICAL SERVICES
800 USG.4YOU (874-4968)
TECHNICAL INFORMATION,
at usgdesignstudio.com



UL Classified

Edge	Panel Size	Fire Rating	Item No.	NRC	CAC Min.	LR²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew/Sag Resistance	Recycled Content¹	Panel Cost
SQ 	2'x2'x3/4"	Class A	86169	.70	35	.90	White	A,B,C,D,E,F	Low		77%	\$\$
	2'x4'x3/4"	Class A	88189	.70	35	.90	White	A,B,D,E,F	Low		77%	\$\$
SLT 	2'x2'x3/4"	Class A	86684	.70	35	.90	White	G,H,I,J	Low		77%	\$\$
	2'x4'x3/4"	Class A	88683	.70	35	.90	White	G,H,I,J	Low		77%	\$\$
FLB 	2'x2'x3/4"	Class A	86984	.70	35	.90	White	K,L,M,N	Low		77%	\$\$
	2'x4'x3/4"	Class A	88983	.70	35	.90	White	K,L,M,N	Low		77%	\$\$
SQ 	2'x2'x7/8"	Class A	86152	.80	35	.90	White	A,B,C,D,E,F	Low		78%	\$\$
	2'x4'x7/8"	Class A	86340	.80	35	.90	White	A,B,D,E,F	Low		78%	\$\$
SLT 	2'x2'x7/8"	Class A	86470	.80	35	.90	White	G,H,I,J	Low		78%	\$\$
FLB 	2'x2'x7/8"	Class A	86750	.80	35	.90	White	K,L,M,N	Low		78%	\$\$

Low Emissions (VOC)

Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions). USG Certificate of Compliance for Low VOC Emissions also available on usg.com.

ClimaPlus™ Warranty Performance³

Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag-resistance performance.

High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of postconsumer and preconsumer (postindustrial) recycled content per FTC guidelines.

GRID PROFILE OPTIONS

A USG DX™/DXL™	B USG DXW™	C USG Centricitee™ DXT™	D USG DXLA™	E USG ZXLA™	F USG AX™	G USG DX™/DXL™
H USG DXLA™	I USG ZXLA™	J USG AX™	K USG Centricitee™ DXT™	L USG Fineline® DXF™	M USG Fineline® 1/8 DXFF™	N USG Identitee® DXI™

PHYSICAL DATA/ FOOTNOTES

Product literature
Data sheet: SC2585

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern E, G

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

Weight
93-1.06 lbs./sq. ft.

Thermal resistance
R-2.2

Maximum backloading
See USG 30-Year Limited Warranty Commercial Applications (SC2102).

ASTM D2486 scrubability test
(standard test)

ASTM D4828 washability test
(modified test)

Water repellency
Cobb method (Tappi T441 om-84)
Water Drop Test

**Maintenance

To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:
- Hydrogen peroxide
- Isopropyl alcohol
- Quaternary ammonium
- Sodium hypochlorite
Do not mix cleaners. Follow cleaner manufacturer's recommendations.

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Panel face and back surfaces treated with a proprietary broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold and mildew. For details, see *Ceiling Systems Limited Warranty Commercial Applications* (SC2102) and *ClimaPlus™ Ceilings Certification of Performance* (SC2451).

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: WEBSTER UNIVERSITY Substitution Request Number: _____
ISB
To: DOUG MAYHEW From: USG - CHRIS BECHT
Re: ACOUSTICAL CEILING PANELS Date: 4-12-16
Contract For: _____

Specification Title: Acoustical Panel Ceilings Description: _____
Section: 02513 Page: 3 Article/Paragraph: 2.2 Acoustical Panel

Proposed Substitution: APC 5 RADAR
Trade Name: RADAR
Model No.: 2220
Manufacturer: USG
Address: 530 W. ADAMS
CHICAGO, IL. 60661
Phone: 636399-853 Manufacturer Web Page: WWW.USG.COM

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
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Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports
- ☒ Other (explain)

SIDE BY SIDE COMPARISON

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

Address:

530 W. ADAMS
CHICAGO, IL 60661

Phone:

636-399-1853

Email

Cbecht@usg.com

Review and Action

- ☐ Substitution approved – Make submittals in accordance with the Specifications.
- ☒ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments: note: match grid specified on drawings

Signed by: Lynn Grossman

Date: 04.25.16

Radars[™]

ClimaPlus[™] Performance

10

Year Availability

2210, 2215, 2220, 2225, 2230, 2410, 2415



RADAR Panels with *CLIMAPlus* Performance/
DONN DX/DXL Suspension System

Features and Benefits

- Non-directional pattern.
- *CLIMAPlus*[™] 30-year lifetime system warranty against visible sag, mold and mildew.
- Optional FIRECODE[®] product designed to meet life-safety codes.
- High-durability panels are 55% more durable than standard panels.
- USDA Certified Biobased Product!¹

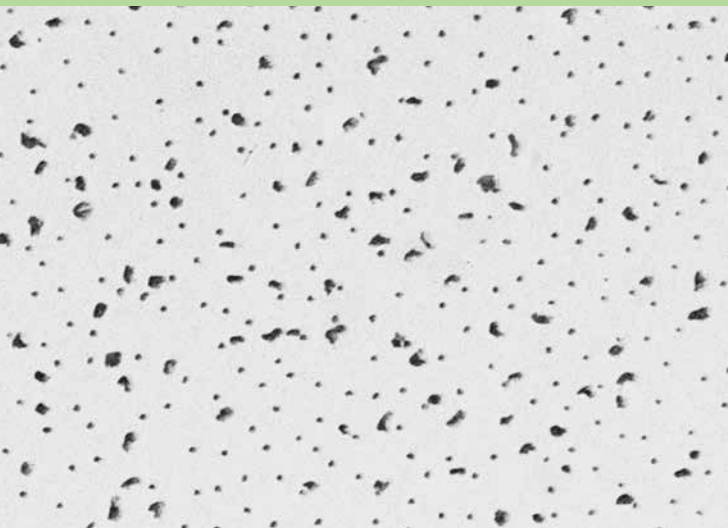
Applications

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

Substrate

- Wet-formed mineral fiber

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.



Lightly-Textured Panel

To order samples, go to usg.com
See individual items for color availability.

Standard Colors



Flat White
050



Parchment 103



Manila 246



Straw 143



Sandstone 090



Taupe 107



Charcoal 534



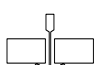
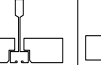
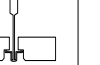
Flat Black 205

Radar™

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888.874.2348
 Technical Services:
 800 USG.4YOU (800.874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

30 ClimaPlus® System Warranty YEAR	Edge	Panel Size Imperial Metric (mm)	Class ²	Item No. Imperial Metric (mm)	UL Classified			Color ^{1,4}	Grid Options	VOC Emissions	Anti-Mold & Mildew/ Sag Resistance	Abuse- Resistant	Recycled Content ⁵	Panel Cost									
					NRC	CAC Min.	LR ³																
RADAR™ Panels	SQ 	2'x2'x5/8"	Class A	2210	.55	33	.84	White Standard	A, B	Low			28-30%	\$									
		2'x2'x5/8"		2215	.55	35	.84	White	A	Low			41-49%	\$									
		2'x4'x5/8" 600x1200x15	Class A	2410 ME2410	.55	35	.84	White Standard	A	Low			28-30%	\$									
		2'x4'x5/8"		2415	.55	35	.84	White Flat Black Charcoal	A	Low			41-49%	\$									
		2'x4'x5/8"	Class A	2410P ⁶	.55	35	.85	White	A	Low			28-30%	\$									
	SLT 	2'x2'x5/8" 600x600x15	Class A	2220 ME2220	.55	33	.84	White Standard Flat Black/ Charcoal not available	C	Low			28-30%	\$									
		2'x2'x5/8"		2225	.55	35	.84	White	C	Low			49-58% ¹²	\$									
		2'x4'x5/8"	Class A	2420	.55	35	.84	White	C	Low			28-30%	\$									
		2'x4'x5/8"		2425	.55	35	.84	White	C	Low			49-58% ¹²	\$									
	FLB 	2'x2'x5/8"	Class A	2230	.55	33	.84	White	D, F, G, I	Low			29-30%	\$									
		2'x2'x5/8"		2235	.55	35	.84	White	E, H	Low			49-58% ¹²	\$									
RADAR High-Durability Panels	SQ 	2'x2'x5/8"	Class A	2207	.55	35	.84	White	A, B	Low			43%	\$									
		2'x4'x5/8"	Class A	2407	.55	35	.84	White	A	Low			43%	\$									
	SLT 	2'x2'x5/8"	Class A	2227	.55	35	.84	White	C	Low			43%	\$									
RADAR Tile ⁸	SF ^{7,8} 	12'x12'x5/8"	Class A	2570	.45	35	.84	White	Adhesive Staple	Low			29-30%	\$\$\$									
Legend  Low Emissions (VOC) Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.  ClimaPlus Warranty Performance¹¹ Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.  FIRECODE®  ≥ .85 LR																							
<table><tr><td>A DX®/DXL™</td><td>B¹⁰ CENTRICITEE™ DXT™</td><td>C DX/DXL</td><td>D CENTRICITEE DXT</td><td>E CENTRICITEE DXLT™</td><td>F FINELINE® DXF™</td><td>G FINELINE 1/8 DXFF™</td><td>H FINELINE DXLF™</td><td>I IDENTITEE™ DXI™</td></tr></table>															A DX®/DXL™	B ¹⁰ CENTRICITEE™ DXT™	C DX/DXL	D CENTRICITEE DXT	E CENTRICITEE DXLT™	F FINELINE® DXF™	G FINELINE 1/8 DXFF™	H FINELINE DXLF™	I IDENTITEE™ DXI™
A DX®/DXL™	B ¹⁰ CENTRICITEE™ DXT™	C DX/DXL	D CENTRICITEE DXT	E CENTRICITEE DXLT™	F FINELINE® DXF™	G FINELINE 1/8 DXFF™	H FINELINE DXLF™	I IDENTITEE™ DXI™															
Grid Profile Options         																							
Physical Data/ Footnotes Product literature Data sheet: SC2127 ASTM E1264 classification Type III, Form 2, Pattern C, E ASTM E84 surface burning characteristics Class A Flame spread: 25 Smoke developed: 50 Weight 0.61–1.15 lbs./sq. ft. Thermal resistance R-1.4 (5/8" Class A panels and tile) R-1.6 (Firecode panels) Maximum backloading See USG 30-Year Limited Warranty Commercial Applications SC2102. Maintenance Can be cleaned easily with a soft brush or vacuum. High-durability panels ASTM D1037—falling-ball impact test. Notes 1. Metric available in White only. 2. Fire-rated items: see UL design details. 3. LR values are shown as averages. 4. See Colors selector for more information. 5. For details, see LEED report tool at usgdesignstudio.com. 6. Includes plastic coating, Gardner-Scrubability tested to 3,000 cycles (ASTM D246). 7. SF = staple flange. 8. Not UL Classified for acoustics. 9. For details, see Ceiling Systems Limited Warranty Commercial Applications (SC2102) and ClimaPlus Ceilings Certification of Performance (SC2451). 10. Maximum 2'x2' with SQ edge panels. 11. This product has achieved both BioPreferred initiatives: Federal Procurement Preference and Certified Product Labeling. See the complete listing of all USG ceiling panels on biopreferred.gov website. 12. Recycle content not available at all plants.																							



Manufactured by USG Interiors, LLC
 550 West Adams Street
 Chicago, IL 60661

The following are trademarks of USG Interiors, LLC or a related company: CENTRICITEE, CLIMAPLUS, DONN, DX, DXF, DXFF, DXL, DXLF, DXLT, DXT, FINELINE, FIRECODE, IDENTITEE, RADAR, USG.

Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

SC2127/rev. 12-14
 © 2014 USG Interiors, LLC
 Printed in U.S.A.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: Webster University Substitution Request Number: _____
ISB
To: Doug Mayhew From: USG - CHRIS BECHT
Re: Acoustical Ceiling Panels Date: 4-12-16
Contract For: _____

Specification Title: Acoustical Panel Ceiling Description: _____
Section: 09513 Page: 3 Article/Paragraph: 2.2 Acoustical Panels

Proposed Substitution: APC-7 MARS
Trade Name: MARS
Model No.: 88985 (2'x4') 88887 (6"x48")
Manufacturer: USG
Address: 530 W. Adams
Chicago, IL 60661
Phone: 636-399-853 Manufacturer Web Page: www.usg.com

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

The Undersigned Bidding General Contractor/Construction Manager Certifies:

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Interdisciplinary Science Building
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- ☒ Product Data
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- ☐ Reports

☒ Other (explain) SIDE BY SIDE COMPARISON

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

Address:

530 W. ADAMS

CHICAGO, IL. 60661

Phone:

636-399-1853

Email

Cbecht@usg.com

Review and Action

- ☒ Substitution approved – Make submittals in accordance with the Specifications.
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- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments:

Signed by:

Lynn Grossman

Date:

04.,25.16

Mars™ Logix™ Panels

ClimaPlus™ Performance



High Recycled Content



30"x60" MARS LOGIX field panels with FLB edge/
FINELINE DXF Suspension System

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.

Features and Benefits

- Compatible with Logix™ Integrated Ceiling Systems.
- Monolithic, structured ceiling visual using standard components.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- Washable and scrubbable finish—impact and scratch resistant.
- Coordinates visually with HALCYON™ LOGIX panels for open/closed plan applications.
- CLIMAPLUS 30-year lifetime system warranty against visible sag, mold and mildew.

Applications

- Open-plan offices
- Conference rooms
- Reception and lobby areas
- Media centers and libraries
- Airports
- Spaces with indirect or natural lighting

Substrate

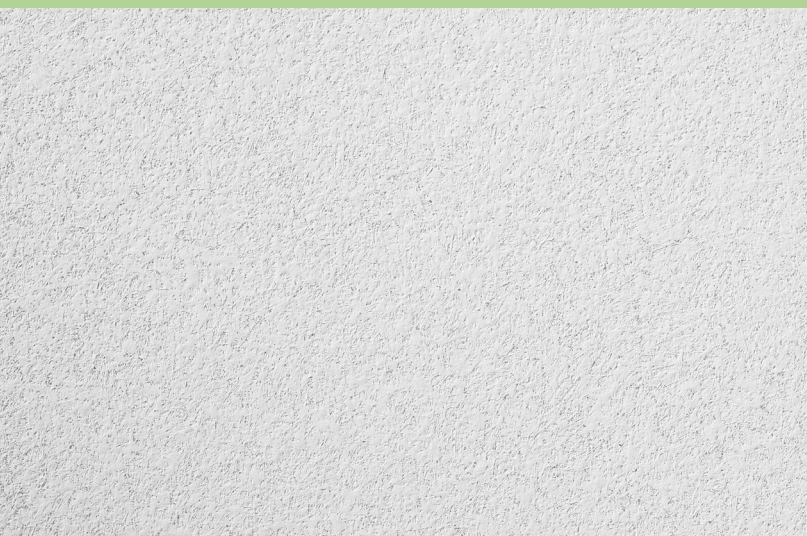
- Wet-formed mineral fiber

To order samples, go to usg.com



Flat White
050

Fine-Textured Panel



Mars™ Logix™ Panels

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888 874.2348
 Technical Services:
 800 USG.4YOU (800 874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

UL Classified													
Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost	
MARS™ LOGIX™ Field Panels	SQ	20"x54"x3/4"	Class A	86519	.70	35	.90	White	A	Low	75%	\$\$	
		20"x56"x3/4"	Class A	86520	.70	35	.90	White	A	Low	75%	\$\$	
		20"x60"x3/4"	Class A	86160	.70	35	.90	White	A	Low	75%	\$\$	
		21"x24"x3/4"	Class A	86522	.70	35	.90	White	A, B	Low	75%	\$\$	
		21"x48"x3/4"	Class A	86523	.70	35	.90	White	A	Low	75%	\$\$	
		22"x24"x3/4"	Class A	86524	.70	35	.90	White	A, B	Low	75%	\$\$	
		22"x48"x3/4"	Class A	86525	.70	35	.90	White	A	Low	75%	\$\$	
		24"x24"x3/4"	Class A	86185	.70	35	.90	White	A, B	Low	75%	\$\$	
		24"x42"x3/4"	Class A	86527	.70	35	.90	White	A	Low	75%	\$\$	
		24"x44"x3/4"	Class A	86528	.70	35	.90	White	A	Low	75%	\$\$	
		24"x48"x3/4"	Class A	88185	.70	35	.90	White	A	Low	75%	\$\$	
		24"x72"x3/4"	Class A	86223	.70	35	.90	White	A	Low	75%	\$\$	
		27"x30"x3/4"	Class A	86530	.70	35	.90	White	A	Low	75%	\$\$	
		27"x60"x3/4"	Class A	86531	.70	35	.90	White	A	Low	75%	\$\$	
		28"x30"x3/4"	Class A	86532	.70	35	.90	White	A	Low	75%	\$\$	
		28"x60"x3/4"	Class A	86533	.70	35	.90	White	A	Low	75%	\$\$	
		30"x30"x3/4"	Class A	86815	.70	35	.90	White	A	Low	75%	\$\$	
		30"x54"x3/4"	Class A	86503	.70	35	.90	White	A	Low	75%	\$\$	
		30"x56"x3/4"	Class A	86535	.70	35	.90	White	A	Low	75%	\$\$	
		30"x60"x3/4"	Class A	86536	.70	35	.90	White	A	Low	75%	\$\$	
MARS LOGIX Channel Panels	SQ	4"x48"x3/4"	Class A	86514	.70	35	.90	White	A	Low	75%	\$\$	
		4"x60"x3/4"	Class A	86515	.70	35	.90	White	A	Low	75%	\$\$	
		4"x72"x3/4"	Class A	86537	.70	35	.90	White	A	Low	75%	\$\$	
		6"x48"x3/4"	Class A	86325	.70	35	.90	White	A	Low	75%	\$\$	
		6"x60"x3/4"	Class A	86507	.70	35	.90	White	A	Low	75%	\$\$	
		6"x72"x3/4"	Class A	86538	.70	35	.90	White	A	Low	75%	\$\$	
		12"x48"x3/4"	Class A	86516	.70	35	.90	White	A	Low	75%	\$\$	
		12"x60"x3/4"	Class A	86517	.70	35	.90	White	A	Low	75%	\$\$	
		12"x72"x3/4"	Class A	86518	.70	35	.90	White	A	Low	75%	\$\$	

Legend

Low Emissions (VOC)

Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.

CLIMAPlus Warranty Performance³

Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.

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.

Mars™ Logix™ Panels

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888 874.2348
 Technical Services:
 800 USG.4YOU (800 874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

UL Classified													
	Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost
													
30 ClimaPlus™ System Warranty YEAR MARS™ LOGIX™ Field Panels	SLT	20"x54"x3/4"	Class A	86547	.70 	35	.90 	White	C	Low		75% 	\$\$
		20"x56"x3/4"	Class A	86548	.70 	35	.90 	White	C	Low		75% 	\$\$
		20"x60"x3/4"	Class A	86905	.70 	35	.90 	White	C	Low		75% 	\$\$
		21"x24"x3/4"	Class A	86550	.70 	35	.90 	White	C	Low		75% 	\$\$
		21"x48"x3/4"	Class A	86551	.70 	35	.90 	White	C	Low		75% 	\$\$
		22"x24"x3/4"	Class A	86552	.70 	35	.90 	White	C	Low		75% 	\$\$
		22"x48"x3/4"	Class A	86553	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x24"x3/4"	Class A	86785	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x42"x3/4"	Class A	86555	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x44"x3/4"	Class A	86556	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x48"x3/4"	Class A	88785	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x72"x3/4"	Class A	86166	.70 	35	.90 	White	C	Low		75% 	\$\$
		27"x30"x3/4"	Class A	86557	.70 	35	.90 	White	C	Low		75% 	\$\$
		27"x60"x3/4"	Class A	86558	.70 	35	.90 	White	C	Low		75% 	\$\$
		28"x30"x3/4"	Class A	86559	.70 	35	.90 	White	C	Low		75% 	\$\$
		28"x60"x3/4"	Class A	86560	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x30"x3/4"	Class A	86875	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x54"x3/4"	Class A	88686	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x56"x3/4"	Class A	86563	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x60"x3/4"	Class A	86564	.70 	35	.90 	White	C	Low		75% 	\$\$
Mars Logix Channel Panels	SLT	4"x48"x3/4"	Class A	86540	.70 	35	.90 	White	C	Low		75% 	\$\$
		4"x60"x3/4"	Class A	86541	.70 	35	.90 	White	C	Low		75% 	\$\$
		4"x72"x3/4"	Class A	86565	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x48"x3/4"	Class A	86542	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x60"x3/4"	Class A	86543	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x72"x3/4"	Class A	86566	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x48"x3/4"	Class A	86544	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x60"x3/4"	Class A	86545	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x72"x3/4"	Class A	86546	.70 	35	.90 	White	C	Low		75% 	\$\$
Legend													
 Low Emissions (VOC) Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.					 ClimaPlus Warranty Performance³ Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.					 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.			

Mars™ Logix™ Panels

ClimaPlus™ Performance

To order samples/literature:
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Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

UL Classified															
Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost			
															
Mars™ Logix™ Field Panels		20"x54"x3/4"	Class A	88845	.70		35	.90		White	D, E, F	Low		75%	\$\$
		20"x56"x3/4"	Class A	86571	.70		35	.90		White	D, E, F	Low		75%	\$\$
		20"x60"x3/4"	Class A	86164	.70		35	.90		White	D, E, F	Low		75%	\$\$
		21"x24"x3/4"	Class A	88840	.70		35	.90		White	D, E, F	Low		75%	\$\$
		21"x48"x3/4"	Class A	86573	.70		35	.90		White	D, E, F	Low		75%	\$\$
		22"x24"x3/4"	Class A	86574	.70		35	.90		White	D, E, F	Low		75%	\$\$
		22"x48"x3/4"	Class A	86575	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x24"x3/4"	Class A	86985	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x42"x3/4"	Class A	86577	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x44"x3/4"	Class A	86578	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x48"x3/4"	Class A	88985	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x72"x3/4"	Class A	88996	.70		35	.90		White	D, E, F	Low		75%	\$\$
		27"x30"x3/4"	Class A	86850	.70		35	.90		White	D, E, F	Low		75%	\$\$
		27"x60"x3/4"	Class A	86579	.70		35	.90		White	D, E, F	Low		75%	\$\$
		28"x30"x3/4"	Class A	86834	.70		35	.90		White	D, E, F	Low		75%	\$\$
		28"x60"x3/4"	Class A	86580	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x30"x3/4"	Class A	86830	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x54"x3/4"	Class A	86831	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x56"x3/4"	Class A	86583	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x60"x3/4"	Class A	86267	.70		35	.90		White	D, E, F	Low		75%	\$\$
Mars Logix Channel Panels		4"x48"x3/4"	Class A	86568	.70		35	.90		White	D, E, F	Low		75%	\$\$
		4"x60"x3/4"	Class A	86569	.70		35	.90		White	D, E, F	Low		75%	\$\$
		4"x72"x3/4"	Class A	86584	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x48"x3/4"	Class A	88887	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x60"x3/4"	Class A	86835	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x72"x3/4"	Class A	86567	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x48"x3/4"	Class A	86321	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x60"x3/4"	Class A	88885	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x72"x3/4"	Class A	86570	.70		35	.90		White	D, E, F	Low		75%	\$\$
 Low Emissions (VOC) Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.  ClimaPlus Warranty Performance³ Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.  HRC 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.															
A DX®/DXL™		B⁴ CENTRICITEE™ DXT™		C DX/DXL		D CENTRICITEE DXT		E FINELINE® DXF™		F IDENTITEE™ DXT™					
															
Physical Data/ Footnotes		Product literature Data sheet: IS274 System Guide: IS268 ASTM E1264 classification Type IV, Form 1 and 2, Pattern E, G		ASTM E84 surface burning characteristics Class A Flame spread: 25 Smoke developed: 50 Weight 1.06 lbs./sq. ft.		Thermal resistance R-2.2 Maintenance Can be cleaned easily with a soft brush or vacuum. To clean panel, use a clean white cloth with water or a mild detergent and wipe surface.		Maximum backloading See USG 30-Year Limited Warranty Commercial Applications SC2102. Notes 1. For details see LEED report tool at usgdesignstudio.com. 2. LR values are shown as averages. 3. Panel face and back surfaces treated with a proprietary broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold and mildew. For details, see Ceiling Systems Limited Warranty Commercial Applications (SC2102) and CIMAPlus Ceilings Certification of Performance (SC2451). 4. Maximum 2"x2" with SQ edge panels. 5. Stabilizer bar required if opening ≥ 60".							



Manufactured by USG Interiors, LLC
 550 West Adams Street
 Chicago, IL 60661

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Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

IS274/rev. 12-14
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 Printed in U.S.A.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: WEBSTER UNIVERSITY Substitution Request Number: _____
TSB
To: DOUG MAYHEW From: USG - CHRIS BECHT
Re: ACOUSTICAL CEILING PANELS Date: 4-12-16
Contract For: _____

Specification Title: ACOUSTICAL PANEL CEILING Description: _____
Section: 09513 Page: 3 Article/Paragraph: 2.2 ACOUSTICAL PANELS

Proposed Substitution: APC-8 HALCYON PLANKS
Trade Name: HALCYON PLANKS
Model No.: 98348
Manufacturer: USG
Address: 550 W. ADAMS
CHICAGO, IL 60661
Phone: 636-399-1053 Manufacturer Web Page: WWW.USG.COM

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports
- ☒ Other (explain)

SIDE BY SIDE COMPARISON

Submitted by:

CHRIS BECHT

Signed by:

[Signature]

Contractor:

USG

MFG
Address:

550 W. ADAMS

CHICAGO, IL 60661

Phone:

630-399-1853

Email

becht@usg.com

Review and Action

- ☒ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments:

Signed by:

Lynn Grossman

Date:

04.25.16

Halcyon™ Planks and Large Sizes

ClimaPlus™ Performance



HALCYON Planks with *CLIMAPlus* Warranty Performance
DONN CENTRICITEE DXT Suspension System

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.

Features and Benefits

- Exceptional noise reduction with NRC values up to 1.00 for open-plan offices.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- Washable and scrubbable finish.
- Impact and scratch resistant.
- Coordinates visually with MARS™ for open- or closed-plan applications.
- Compatible with LOGIX™ Integrated Ceiling Systems.
- Non-directional, monolithic visual reduces installation time and waste.
- *CLIMAPlus*™ 30-year lifetime system warranty against visible sag, mold and mildew.

Applications

- Open-plan areas
- Areas with indirect lighting
- Corridors
- Convention halls and concourses
- Reception and lobby areas
- Libraries

Substrate

- Fiberglass

To order samples, go to usg.com



Flat White
050

Fine-Textured Panel

Halcyon™ Planks and Large Sizes

ClimaPlus™ Performance

To order samples/literature:

Web: usg.com

E-mail: samplit@usg.com

Fax: 888 874.2348

Technical Services:

800 USG.4YOU (800 874.4968)

Websites:

usg.com

usgdesignstudio.com

For the most up-to-date

technical information:

usgdesignstudio.com



HALCYON™ Planks

UL Classified												
Edge	Panel Size²	Class	Item No.	NRC	CAC Min.	LR³	Color	Grid Options	Anti-Mold & Mildew/ Sag Resistance	Recycled Content¹	Panel Cost	
												
SQ 	2'x6'x3/4"	Class A	97262	.90 	20	.90 	White	A, B		35%	\$\$\$\$	
	2'x8'x3/4"	Class A	97263	.90 	20	.90 	White	A, B		35%	\$\$\$\$	
SL 	2'x6'x1"	Class A	99268	.95 	20	.90 	White	C		37%	\$\$\$\$	
	2'x8'x1"	Class A	99269	.95 	20	.90 	White	C		37%	\$\$\$\$	
FL 	2'x6'x1"	Class A	98348	.95 	20	.90 	White	D, E, F, G		37%	\$\$\$\$	
	2'x8'x1"	Class A	98197	.95 	20	.90 	White	D, E, F, G		37%	\$\$\$\$	
SQ 	4'x4'x1"	Class A	98441	.95 	20	.90 	White	A, B		37%	\$\$\$\$	
	4'x8'x1"	Class A	98481	.95 	20	.90 	White	A, B		37%	\$\$\$\$	
SL 	4'x4'x1"	Class A	98443	.95 	20	.90 	White	C		37%	\$\$\$\$	
FL 	4'x4'x1"	Class A	98445	.95 	20	.90 	White	D, E, F, G		37%	\$\$\$\$	

Legend

CLIMAPlus Warranty Performance⁴

Fiberglass substrate is inherently resistant to the growth of mold and mildew. Includes sag resistance performance.

≥ .70 NRC

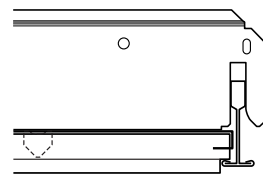
≥ .85 LR

Grid Profile Options

A DX®/DXL™	B DXW™	C DX/DXL	D CENTRICITEE™ DXT™	E FINELINE® DXF™	F FINELINE 1/8 DXFF™	G IDENTITEE™ DXI™

Stabilizer Bars³

Use to stabilize grid installation without cross tees
Use in large module applications



ASB24	24" Stabilizer Bar
ASB30	30" Stabilizer Bar
ASB48	48" Stabilizer Bar

Physical Data/ Footnotes

Product literature

Data sheet: SC2483

ASTM E1264 classification

Type XII, Form 2, Pattern E & G

ASTM E84 surface burning characteristics

Class A

Flame spread: 25

Smoke developed: 50

Weight

0.38 lbs./sq. ft. (3/4" panels)

0.47 lbs./sq. ft. (1" panels)

Thermal resistance

R-3.3 (3/4" panels)

R-4.4 (1" panels)

Maximum backloading

See USG 30-Year Limited Warranty Commercial Applications SC2102.

Maintenance

Can be cleaned easily with a soft brush or vacuum. To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface.

Treating field cut reveal edges

All field-cut edges "exposed to view" should be colored to match the factory finish. Halcyon Touch-up Edge Paint is recommended when perimeter field cuts expose the yellow substrate.

Notes

- For details, see LEED report tool at usgdesignstudio.com.
- Custom-size panels available. Please contact your USG sales representative for details.
- Stabilizer bar required if opening ≥ 60". For more information about stabilizer bars please refer to Plant and Large Panel Stabilizer Bars - Application Guide, IC592.
- For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).



Manufactured by USG Interiors, LLC
550 West Adams Street
Chicago, IL 60661

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Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

SC2483/rev. 1-15
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Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: WEBSTER UNIVERSITY Substitution Request Number: _____
ISB
To: DOUG MAYHEW From: USG-CHRIS BECHT
Re: ACOUSTICAL CEILING PANELS Date: 4-12-16
Contract For: _____

Specification Title: ACOUSTICAL PANEL CEILING Description: _____
Section: 095113 Page: 3 Article/Paragraph: 2.2 ACOUSTIC PANELS

Proposed Substitution: APC-9 (MATCH APC-7) MARS
Trade Name: MARS
Model No.: 88985 (2'x4') 88887 (6"X48")
Manufacturer: USG
Address: 530 W. ADAMS
CHICAGO, IL 60661
Phone: 630-391-8523 Manufacturer Web Page: WWW.USG.COM

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] _____ days.

The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☐ Tests
- ☒ Reports
- ☒ Other (explain) SIDE BY SIDE COMPARISON

Submitted by: Chris Becht

Signed by: Chris Becht

Contractor: USG

Address: 530 W. ADAMS

CHICAGO, IL 60661

Phone: 636-991853

Email: becht@usg.com

Review and Action

- ☒ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☐ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments: _____

Signed by: Lynn Grossman

Date: 04.25.16

Mars™ Logix™ Panels

ClimaPlus™ Performance



High Recycled Content



30"x60" MARS LOGIX field panels with FLB edge/
FINELINE DXF Suspension System

See LEED report tool at usgdesignstudio.com
for detailed sustainability information.

Features and Benefits

- Compatible with Logix™ Integrated Ceiling Systems.
- Monolithic, structured ceiling visual using standard components.
- High light-reflective finish (LR-.90) reduces light fixtures and energy use.
- Washable and scrubbable finish—impact and scratch resistant.
- Coordinates visually with HALCYON™ LOGIX panels for open/closed plan applications.
- CLIMAPLUS 30-year lifetime system warranty against visible sag, mold and mildew.

Applications

- Open-plan offices
- Conference rooms
- Reception and lobby areas
- Media centers and libraries
- Airports
- Spaces with indirect or natural lighting

Substrate

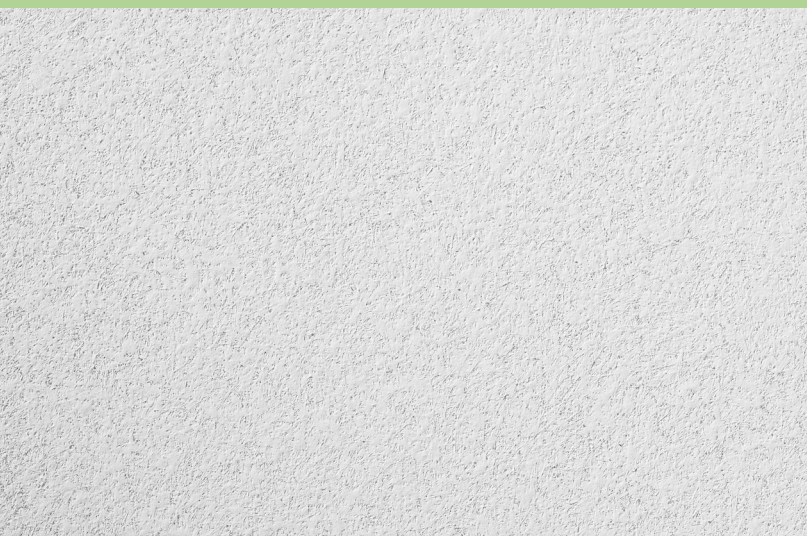
- Wet-formed mineral fiber

To order samples, go to usg.com



Flat White
050

Fine-Textured Panel



Mars™ Logix™ Panels

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888 874.2348
 Technical Services:
 800 USG.4YOU (800 874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

UL Classified													
Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost	
MARS™ LOGIX™ Field Panels	SQ	20"x54"x3/4"	Class A	86519	.70	35	.90	White	A	Low	75%	\$\$	
		20"x56"x3/4"	Class A	86520	.70	35	.90	White	A	Low	75%	\$\$	
		20"x60"x3/4"	Class A	86160	.70	35	.90	White	A	Low	75%	\$\$	
		21"x24"x3/4"	Class A	86522	.70	35	.90	White	A, B	Low	75%	\$\$	
		21"x48"x3/4"	Class A	86523	.70	35	.90	White	A	Low	75%	\$\$	
		22"x24"x3/4"	Class A	86524	.70	35	.90	White	A, B	Low	75%	\$\$	
		22"x48"x3/4"	Class A	86525	.70	35	.90	White	A	Low	75%	\$\$	
		24"x24"x3/4"	Class A	86185	.70	35	.90	White	A, B	Low	75%	\$\$	
		24"x42"x3/4"	Class A	86527	.70	35	.90	White	A	Low	75%	\$\$	
		24"x44"x3/4"	Class A	86528	.70	35	.90	White	A	Low	75%	\$\$	
		24"x48"x3/4"	Class A	88185	.70	35	.90	White	A	Low	75%	\$\$	
		24"x72"x3/4"	Class A	86223	.70	35	.90	White	A	Low	75%	\$\$	
		27"x30"x3/4"	Class A	86530	.70	35	.90	White	A	Low	75%	\$\$	
		27"x60"x3/4"	Class A	86531	.70	35	.90	White	A	Low	75%	\$\$	
		28"x30"x3/4"	Class A	86532	.70	35	.90	White	A	Low	75%	\$\$	
		28"x60"x3/4"	Class A	86533	.70	35	.90	White	A	Low	75%	\$\$	
		30"x30"x3/4"	Class A	86815	.70	35	.90	White	A	Low	75%	\$\$	
		30"x54"x3/4"	Class A	86503	.70	35	.90	White	A	Low	75%	\$\$	
		30"x56"x3/4"	Class A	86535	.70	35	.90	White	A	Low	75%	\$\$	
		30"x60"x3/4"	Class A	86536	.70	35	.90	White	A	Low	75%	\$\$	
MARS LOGIX Channel Panels	SQ	4"x48"x3/4"	Class A	86514	.70	35	.90	White	A	Low	75%	\$\$	
		4"x60"x3/4"	Class A	86515	.70	35	.90	White	A	Low	75%	\$\$	
		4"x72"x3/4"	Class A	86537	.70	35	.90	White	A	Low	75%	\$\$	
		6"x48"x3/4"	Class A	86325	.70	35	.90	White	A	Low	75%	\$\$	
		6"x60"x3/4"	Class A	86507	.70	35	.90	White	A	Low	75%	\$\$	
		6"x72"x3/4"	Class A	86538	.70	35	.90	White	A	Low	75%	\$\$	
		12"x48"x3/4"	Class A	86516	.70	35	.90	White	A	Low	75%	\$\$	
		12"x60"x3/4"	Class A	86517	.70	35	.90	White	A	Low	75%	\$\$	
		12"x72"x3/4"	Class A	86518	.70	35	.90	White	A	Low	75%	\$\$	

Legend

Low Emissions (VOC)

Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.

CLIMAPlus Warranty Performance³

Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.

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.

Mars™ Logix™ Panels

ClimaPlus™ Performance

To order samples/literature:
 Web: usg.com
 E-mail: samplit@usg.com
 Fax: 888 874.2348
 Technical Services:
 800 USG.4YOU (800 874.4968)

Websites:
usg.com
usgdesignstudio.com
 For the most up-to-date
 technical information:
usgdesignstudio.com

UL Classified													
	Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost
													
MARS™ LOGIX™ Field Panels		20"x54"x3/4"	Class A	86547	.70 	35	.90 	White	C	Low		75% 	\$\$
		20"x56"x3/4"	Class A	86548	.70 	35	.90 	White	C	Low		75% 	\$\$
		20"x60"x3/4"	Class A	86905	.70 	35	.90 	White	C	Low		75% 	\$\$
		21"x24"x3/4"	Class A	86550	.70 	35	.90 	White	C	Low		75% 	\$\$
		21"x48"x3/4"	Class A	86551	.70 	35	.90 	White	C	Low		75% 	\$\$
		22"x24"x3/4"	Class A	86552	.70 	35	.90 	White	C	Low		75% 	\$\$
		22"x48"x3/4"	Class A	86553	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x24"x3/4"	Class A	86785	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x42"x3/4"	Class A	86555	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x44"x3/4"	Class A	86556	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x48"x3/4"	Class A	88785	.70 	35	.90 	White	C	Low		75% 	\$\$
		24"x72"x3/4"	Class A	86166	.70 	35	.90 	White	C	Low		75% 	\$\$
		27"x30"x3/4"	Class A	86557	.70 	35	.90 	White	C	Low		75% 	\$\$
		27"x60"x3/4"	Class A	86558	.70 	35	.90 	White	C	Low		75% 	\$\$
		28"x30"x3/4"	Class A	86559	.70 	35	.90 	White	C	Low		75% 	\$\$
		28"x60"x3/4"	Class A	86560	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x30"x3/4"	Class A	86875	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x54"x3/4"	Class A	88686	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x56"x3/4"	Class A	86563	.70 	35	.90 	White	C	Low		75% 	\$\$
		30"x60"x3/4"	Class A	86564	.70 	35	.90 	White	C	Low		75% 	\$\$
MARS LOGIX Channel Panels		4"x48"x3/4"	Class A	86540	.70 	35	.90 	White	C	Low		75% 	\$\$
		4"x60"x3/4"	Class A	86541	.70 	35	.90 	White	C	Low		75% 	\$\$
		4"x72"x3/4"	Class A	86565	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x48"x3/4"	Class A	86542	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x60"x3/4"	Class A	86543	.70 	35	.90 	White	C	Low		75% 	\$\$
		6"x72"x3/4"	Class A	86566	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x48"x3/4"	Class A	86544	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x60"x3/4"	Class A	86545	.70 	35	.90 	White	C	Low		75% 	\$\$
		12"x72"x3/4"	Class A	86546	.70 	35	.90 	White	C	Low		75% 	\$\$
Legend													
 Low Emissions (VOC) Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com.					 CLIMAPlus Warranty Performance ³ Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.					 HRC 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.			

Mars™ Logix™ Panels

ClimaPlus™ Performance

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UL Classified															
Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew / Sag Resistance	Recycled Content ¹	Panel Cost			
															
Mars™ Logix™ Field Panels		20"x54"x3/4"	Class A	88845	.70		35	.90		White	D, E, F	Low		75%	\$\$
		20"x56"x3/4"	Class A	86571	.70		35	.90		White	D, E, F	Low		75%	\$\$
		20"x60"x3/4"	Class A	86164	.70		35	.90		White	D, E, F	Low		75%	\$\$
		21"x24"x3/4"	Class A	88840	.70		35	.90		White	D, E, F	Low		75%	\$\$
		21"x48"x3/4"	Class A	86573	.70		35	.90		White	D, E, F	Low		75%	\$\$
		22"x24"x3/4"	Class A	86574	.70		35	.90		White	D, E, F	Low		75%	\$\$
		22"x48"x3/4"	Class A	86575	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x24"x3/4"	Class A	86985	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x42"x3/4"	Class A	86577	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x44"x3/4"	Class A	86578	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x48"x3/4"	Class A	88985	.70		35	.90		White	D, E, F	Low		75%	\$\$
		24"x72"x3/4"	Class A	88996	.70		35	.90		White	D, E, F	Low		75%	\$\$
		27"x30"x3/4"	Class A	86850	.70		35	.90		White	D, E, F	Low		75%	\$\$
		27"x60"x3/4"	Class A	86579	.70		35	.90		White	D, E, F	Low		75%	\$\$
		28"x30"x3/4"	Class A	86834	.70		35	.90		White	D, E, F	Low		75%	\$\$
		28"x60"x3/4"	Class A	86580	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x30"x3/4"	Class A	86830	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x54"x3/4"	Class A	86831	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x56"x3/4"	Class A	86583	.70		35	.90		White	D, E, F	Low		75%	\$\$
		30"x60"x3/4"	Class A	86267	.70		35	.90		White	D, E, F	Low		75%	\$\$
Mars Logix Channel Panels		4"x48"x3/4"	Class A	86568	.70		35	.90		White	D, E, F	Low		75%	\$\$
		4"x60"x3/4"	Class A	86569	.70		35	.90		White	D, E, F	Low		75%	\$\$
		4"x72"x3/4"	Class A	86584	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x48"x3/4"	Class A	88887	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x60"x3/4"	Class A	86835	.70		35	.90		White	D, E, F	Low		75%	\$\$
		6"x72"x3/4"	Class A	86567	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x48"x3/4"	Class A	86321	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x60"x3/4"	Class A	88885	.70		35	.90		White	D, E, F	Low		75%	\$\$
		12"x72"x3/4"	Class A	86570	.70		35	.90		White	D, E, F	Low		75%	\$\$
Low Emissions (VOC) Low-emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database for low-emitting materials. USG Certificate of Compliance for Low VOC Emissions also available on usg.com. ClimaPlus Warranty Performance³ Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance. HRC 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.															
A DX®/DXL™		B⁴ CENTRICITEE™ DXT™	C DX/DXL	D CENTRICITEE DXT	E FINELINE® DXF™	F IDENTITEE™ DXT™									
															
Physical Data/ Footnotes		Product literature Data sheet: IS274 System Guide: IS268 ASTM E1264 classification Type IV, Form 1 and 2, Pattern E, G			ASTM E84 surface burning characteristics Class A Flame spread: 25 Smoke developed: 50 Weight 1.06 lbs./sq. ft.			Thermal resistance R-2.2 Maintenance Can be cleaned easily with a soft brush or vacuum. To clean panel, use a clean white cloth with water or a mild detergent and wipe surface.			Maximum backloading See USG 30-Year Limited Warranty Commercial Applications SC2102. Notes 1. For details see LEED report tool at usgdesignstudio.com. 2. LR values are shown as averages. 3. Panel face and back surfaces treated with a proprietary broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold and mildew. For details, see Ceiling Systems Limited Warranty Commercial Applications (SC2102) and CIMAPlus Ceilings Certification of Performance (SC2451). 4. Maximum 2'x2' with SQ edge panels. 5. Stabilizer bar required if opening ≥ 60".				



Manufactured by USG Interiors, LLC
 550 West Adams Street
 Chicago, IL 60661

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Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

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