

USG BORAL ACOUSTIC CEILINGS



USG BORAL
INNOVATION INSPIRED BY YOU.™

[USGBoral.com](https://www.usgboral.com)

Plasterboard

Ceilings

Interior Finishes

Metal Framing

Substrates

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**AT USG BORAL, OUR
MISSION IS TO
DELIVER INNOVATION
THAT HELPS OUR
CUSTOMERS WORK
SMARTER, DO MORE
AND BUILD BETTER.**

Boral Gypsum and USG Corporation have joined forces to become market leaders across Asia, Australasia and Middle East, transforming the two companies into a world-leading building product business, USG Boral Building Products (USG BORAL).

At USG Boral, we believe the best innovations are purposefully focused to serve market needs. Through an ever-growing portfolio of groundbreaking products backed by unparalleled service, we empower you to work smarter, grow faster, and build better cities and communities the world over.

Our commitment to invest in purposeful innovation, expand into different markets and continually increase performance and productivity is ultimately driven by our desire to enable architects, contractors and workers alike by changing the way buildings are designed and built.



ARCHITECTURAL SERVICES

USG Boral's Architectural Services provide support to architects and design professionals by gaining a full understanding of the needs of each project, then supplying the right advice and documentation.

DESIGN SUPPORT

Our team of industry experts are available to meet at your office or ours. After reviewing the design intent of your project, we provide advice on the best wall and ceiling systems to meet your needs.

SPECIFICATION ASSISTANCE

Once we fully understand your design intent, we can create draft specifications for walls and ceilings – greatly reducing your time and effort.

IN-HOUSE SEMINARS

USG Boral has a growing range of presentations designed to support your development as a design professional. Delivered by industry experts, we cover acoustics, fire, seismic and other elements of the National Building Code (NBC) & IS Standards that relate to the design of Drywall and ceiling systems.



TECHNICAL SERVICES

As a team of industry technical experts, our engineers have intimate knowledge of our products and systems – making them best-placed to give you the right advice.

Let our Technical Services become an extension of your project team.

We'll help you design and construct using our products and systems with confidence and, should you need help, we're only a phone call or email away!

ACOUSTIC CEILINGS E - ESTIMATOR

Forecasting quantities of suspension system project is fast and easy with USG Boral E - Estimator.

User-friendly and intuitive, E - Estimator will let you choose between traditional 2x2 system and 2x4 system as well as the estimates for all system components systems that satisfy your specified performance requirements



How to use this catalogue

This catalogue is an easy-to-use reference guide for specifying USG Boral acoustical ceiling systems. To obtain the information you need, use one or several of the following options.

- **Technical Information**

- start here if you would like information on acoustics, humidity or fire performance.

- **Products**

- start here if you know the exact product you need.

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Technical Information

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Products

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ACOUSTICS

Acoustics

A balanced acoustical environment often plays an important part in improving productivity, comfort and peoples' sense of well being. Through appropriate selection and placement of USG Boral ceiling systems, it is possible to improve speech intelligibility, reduce unwanted noise or increase privacy within a space or between adjacent offices.

NRC (Noise Reduction Coefficient)- defines the average sound absorption of a ceiling panel

CAC (Ceiling Attenuation Class) - defines the average 'room to room' sound attenuation of a ceiling system



Sound absorption

Noise Reduction Coefficient (NRC) measures the degree to which a ceiling panel absorbs sound. Ceiling panels with a high NRC value are most appropriate for open areas because they can reduce reverberation within a space. NRC is represented by number between 0 and 1.00, which indicates the percentage of sound reaching the panel that will be absorbed. For example, an acoustical ceiling panel with a NRC value of .60 will absorb 60% of the sound that strikes it and deflect 40% back into the space. A ceiling panel with a NRC of .50 or higher is considered to offer significant sound absorbing properties.

Sound attenuation

Ceiling Attenuation Class (CAC) indicates the ability of a ceiling system to reduce sound transmission. Panels with a high CAC value can improve privacy in enclosed spaces by blocking sound from transmitting up into the plenum and down to adjacent rooms. A ceiling panel with a CAC of 40 will reduce transmitted sound by 40 decibels (dB). A ceiling panel with CAC of 35 or higher is considered to offer significant sound attenuation properties.

FIRE RATING SELECTOR

Fire Rating

USG Boral Ceiling Panel products are manufactured to meet the requirements of ASTM standards for the preservation of the safety and welfare of building occupants. Our fire-rated products are available in a wide range of textures and patterns to meet your desired aesthetic, budget and building design requirements. Our ceiling panels and suspension systems work well to offer UL-approved fire-rated assemblies that meet all building design requirements.

Modular Suspension Systems



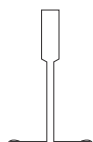
Apart from DONN Grid Systems, USG Boral India offers four additional T-grid suspension systems. Each performs the same function of suspending panels from the overhead building structure. Covering almost every conceivable application, the designer and contractor alike have the choice of the traditional 24mm grids or the more sophisticated appearance of 15mm grids with black grooves.

Either system integrates seamlessly with USG Boral acoustical & gypsum ceiling panels to provides an extensive range of options, whether it is for acoustic, aesthetic or budget reasons.

The systems differ in design, compatibility with certain styles of panels and the resulting appearance of the finished ceiling.

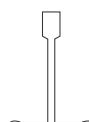
- 1 **Faster installation**
- 2 **Quick lock system**
- 3 **Easy to detach**
- 4 **Easy maintenance**

UNI T Grid - 24mm



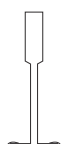
Main T	: 38mm x 24mm, Length	: 3600mm
Cross T	: 27mm x 24mm, Length	: 600mm
Cross T	: 27mm x 24mm, Length	: 1200mm
Wall Angle	: 24mm x 24mm, Length	: 3050mm

UNILITE T Grid 24mm



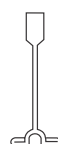
Main T	: 32mm x 24mm, Length	: 3000mm
Cross T	: 27mm x 24mm, Length	: 600mm
Cross T	: 27mm x 24mm, Length	: 1200mm
Wall Angle	: 20mm x 22mm, Length	: 3050mm

UNI T Grid 15 mm



Main T	: 38mm x 15mm, Length	: 3600mm
Cross T	: 38mm x 15mm, Length	: 600mm
Cross T	: 38mm x 15mm, Length	: 1200mm
Wall Angle	: 19mm x 19mm, Length	: 3050mm

OMEGA Grid



Main T	: 32mm x 15mm, Length	: 3000mm
Cross T	: 32mm x 15mm, Length	: 600mm
Cross T	: 32mm x 15mm, Length	: 1200mm
Wall Angle	: 14mm x 20mm, Length	: 3050mm

MICROLINE (Black Reveal)



Main T	: 35mm x 15mm, Length	: 3600mm
Cross T	: 35mm x 15mm, Length	: 600mm
Cross T	: 35mm x 15mm, Length	: 1200mm
Wall Angle	: 19mm x 15mm, Length	: 3050mm

*Also available in web height 42mm

MICROLINE (White Reveal)



Main T	: 42mm x 15mm, Length	: 3600mm
Cross T	: 42mm x 15mm, Length	: 600mm
Cross T	: 42mm x 15mm, Length	: 1200mm
Wall Angle	: 19mm x 15mm, Length	: 3050mm

Compasso 50



Panel Size	: 50 x 20 x 1.5 x 3000mm
T-Bar Connector	: 43.5 x 48.5 x 0.90mm
Straight Connector	: 43.5 x 95.5 x 0.90mm
Corner Connector	: 43.5 x 48.5 x 0.90mm

Compasso 100



Panel Size	: 100 x 20 x 1.5 x 3000mm
T-Bar Connector	: 43.5 x 48.5 x 0.90mm
Straight Connector	: 43.5 x 95.5 x 0.90mm
Corner Connector	: 43.5 x 48.5 x 0.90mm

Level Clips

GALAXY PIN™



Galaxy Panels/DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Economical, all-purpose ceiling pattern available in various panel sizes and edge details.

APPLICATIONS

- Retail or Department stores
- Offices
- Corridors

SUBSTRATE

- Water-felted mineral fiber

Random, fine and coarse perforations



GALAXY PANELS

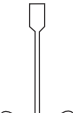
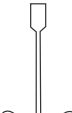
Edge	Panel Size ⁵	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Recycled Content ¹
										
SQ 	2' x 2' x 1/2" 600 x 600 x 12mm	Class A	32212 ME32212	-	30	.86 	White	A, B	Low	45%
	2' x 2' x 5/9" 600 x 600 x 14mm	Class A	32214 ME32214	.50	30	.86 	White	A, B	Low	45%
	2' x 4' x 5/9" 600 x 1200 x 14mm	Class A	32414 ME32414	.50	33	.86 	White	A, B	Low	45%
SLT 	2' x 2' x 5/9" 600 x 600 x 14mm	Class A	32224 ME32224	.50	33	.86 	White	A, B	Low	45%
	2' x 4' x 5/9" 600 x 1200 x 14mm	Class A	32424 ME32424	.50	33	.86 	White	A, B	Low	45%
FLB 	2' x 2' x 5/9" 600 x 600 x 14mm	Class A	32234 ME32234	.50	33	.86 	White	C, D, E	Low	45%
	2' x 4' x 5/9" 600 x 1200 x 14mm	Class A	32434 ME32434	.50	33	.86 	White	C, D, E	Low	45%

LEGEND

 Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods.

GRID PROFILE OPTIONS

A UNI T Grid - 24mm	B UNILITE T Grid 24mm	C UNI T Grid 15 mm	D MICROLINE	E Omega
				

PHYSICAL DATA/ FOOTNOTES

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

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

Imperial Weight
0.68 - 0.73 lb./ft.²
Metric Weight
3.33 - 3.58 kg/m²

Thermal Resistance
R-1.6

Backloading
Refer to Installation and Maintenance

Footnotes

1. For details, see LEED report tool at usgdesignstudio.com.
2. LR values are shown as averages.
3. Not all panel sizes available in all geographic areas, some metric sizes available to order.

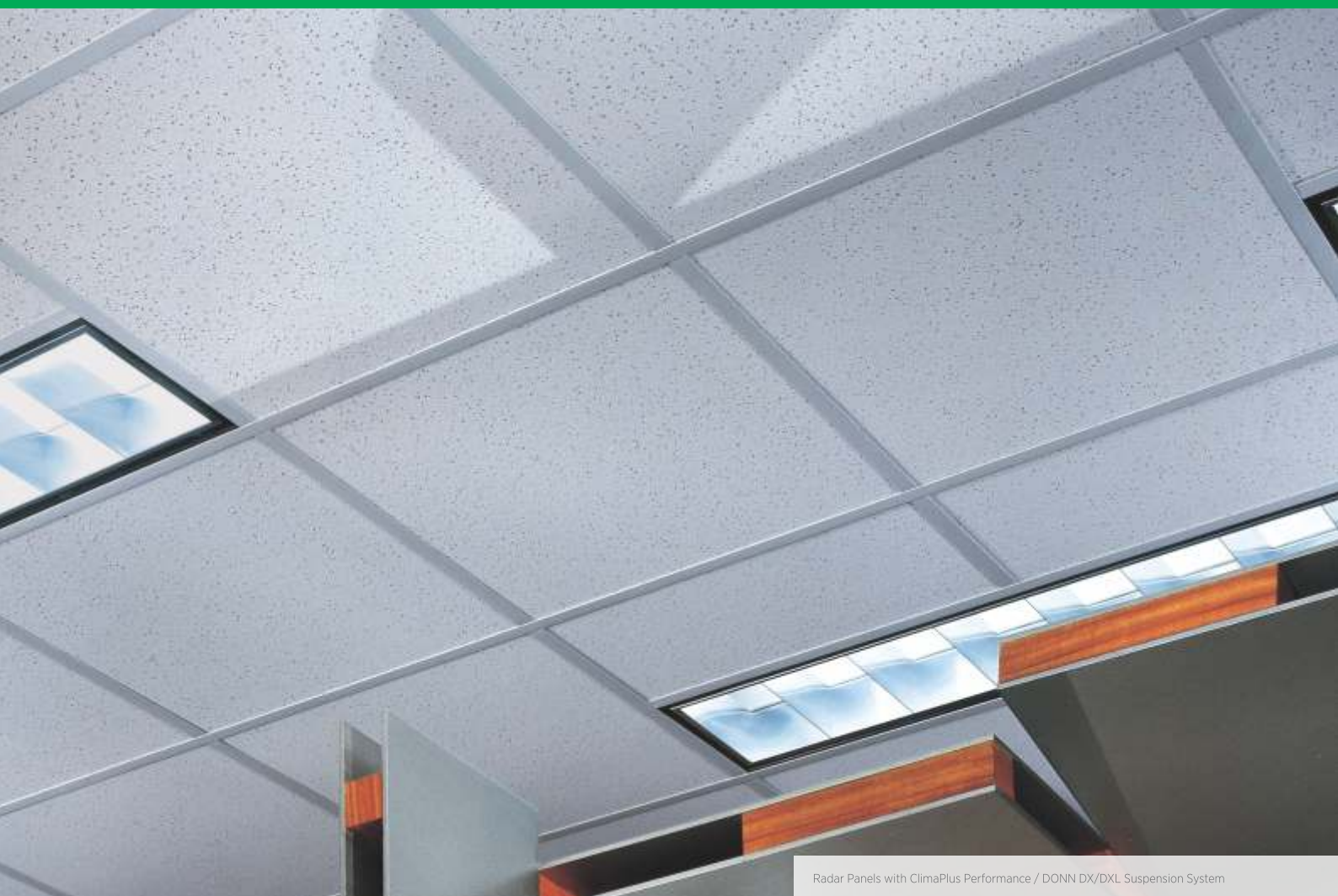
Sag Resistance

12mm 600 x 600 tiles withstand conditions up to 40°C (120°F) / 80% relative humidity without visible sag

14mm 600 x 600 tiles withstand conditions up to 40°C (120°F) / 95% relative humidity without sag

14mm 600 x 1200 tiles withstand conditions up to 40° C (120°F) / 90% relative humidity without visible sag

RADAR™ CLIMAPLUS™



Radar Panels with ClimaPlus Performance / DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Non-directional pattern
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system

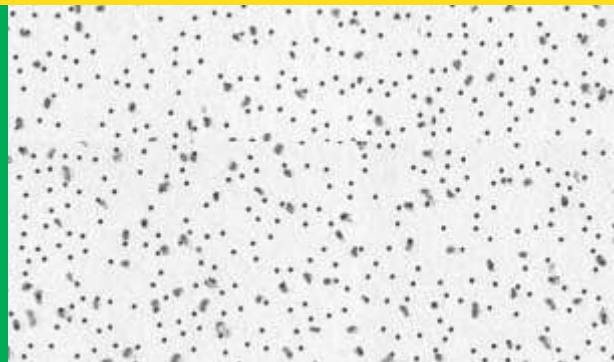
APPLICATIONS

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

SUBSTRATE

- Water-felted mineral fiber

Lightly textured panel



RADAR CLIMAPLUS
PANELS

Edge	Panel Size ¹	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
											
SQ 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	2210 ME2210	.60	33	.84	White	A, B,	Low		28 - 45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	2410 ME2410	.60	34	.84	White	A, B,	Low		28 - 45%
SLT 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	2220 ME2220	.60	33	.84	White	A, B	Low		28 - 45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	2420 ME2420	.60	34	.84	White	A, B	Low		28 - 45%
FLB 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	2230 ME2230	.60	33	.84	White	C, D, E	Low		28 - 45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	2430 ME2430	.60	34	.84	White	C, D, E	Low		28 - 45%

LEGEND

 Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods

 ClimaPlus Superior Performance

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

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Type III, Form 2, Pattern C, E

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

Imperial Weight
0.81 lb./ft.²
Metric Weight
3.95-3.98 kg/m²

Thermal Resistance
R-1.7

Backloading
Refer to Installation and Maintenance

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Radar™ CLIMAPLUS™ high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16"] / DONN DX 24mm [15/16"] / DONN Fineline 15mm [9/16"] / DONN Omega 15mm [9/16"] face / DONN Identitee 15mm [9/16"] exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.60.
- Panels shall have CAC 33-34.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 16mm / (2' x 2' / 2' x 4') x 5/8").
- Edge detail shall be (Fineline bevel [FLB] / Shadowline Tapered [SLT] / Square edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

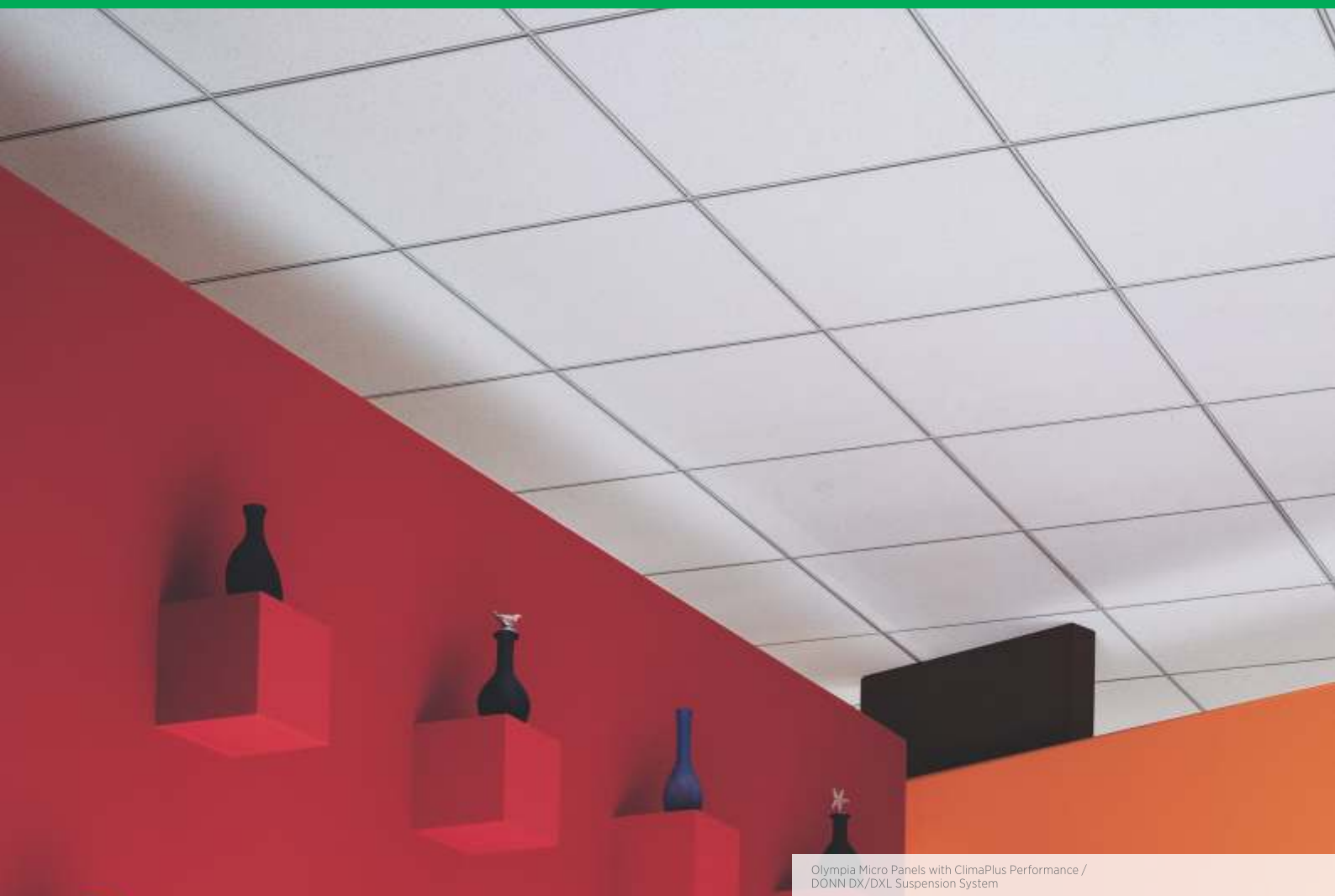
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Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

USG BORAL 

OLYMPIA MICRO™ CLIMAPLUS™



Olympia Micro Panels with ClimaPlus Performance /
DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Nondirectional pattern reduces installation time and waste
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system.

APPLICATIONS

- Offices
- Classrooms
- Reception/Lobby areas
- Hotel
- Conference areas
- Retail stores

SUBSTRATE

- Water-felted mineral fiber



High Recycled Content

Fine-textured panel - Unperforated
Fine-textured panel - Perforated



OLYMPIA MICRO
CLIMAPLUS
UNPERFORATED

OLYMPIA MICRO
CLIMAPLUS
PERFORATED

OLYMPIA MICRO
CLIMAPLUS PANELS
.60 NRC

Edge	Panel Size ¹	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
SQ	2' x 2' x 5/8"	Class A	4911 ME 4911	-	30	.88	White	A, B	Low		46%
	2' x 4' x 5/8"	Class A	4913 ME 4913	-	30	.88	White	A, B	Low		46%
SLT	2' x 2' x 5/8"	Class A	4910 ME 4910	-	35	.88	White	A, B	Low		46%
	2' x 4' x 5/8"	Class A	4920 ME 4920	-	35	.88	White	A, B	Low		46%
FLB	2' x 2' x 5/8"	Class A	4914 ME 4914	-	35	.88	White	C, D, E	Low		46%
	2' x 4' x 5/8"	Class A	4934 ME 4934	-	35	.88	White	C, D, E	Low		46%
SQ	2' x 2' x 5/8"	Class A	4211 ME 4211	.50	30	.88	White	A, B	Low		46%
	2' x 4' x 5/8"	Class A	4411 ME 4411	.50	30	.88	White	A, B	Low		46%
SLT	2' x 2' x 5/8"	Class A	4221 ME 4221	.50	33	.88	White	A, B	Low		46%
	2' x 4' x 5/8"	Class A	4421 ME 4421	.50	33	.88	White	A, B	Low		46%
FLB	2' x 2' x 5/8"	Class A	4231 ME 4231	.50	33	.88	White	C, D, E	Low		46%
	2' x 4' x 5/8"	Class A	4431 ME 4431	.50	33	.88	White	C, D, E	Low		46%
SQ	2' x 2' x 3/4" ³	Class A	4750	.60	33	.86	White	A, B	Low		61%
	2' x 4' x 3/4" ³	Class A	4751	.60	33	.86	White	A, B	Low		61%
SLT	2' x 2' x 3/4" ³	Class A	4752	.60	35	.86	White	A, B	Low		61%
	2' x 4' x 3/4" ³	Class A	4753	.60	35	.86	White	A, B	Low		61%
FLB	2' x 2' x 3/4" ³	Class A	4754	.60	35	.86	White	C, D, E	Low		61%
	2' x 4' x 3/4" ³	Class A	4755	.60	35	.86	White	C, D, E	Low		61%

LEGEND

Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods

ClimaPlus Superior Performance

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

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.

≥ .85 LR

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Type III, Form 2, Pattern CE

ASTM E84 surface burning
characteristics

Class A
Flame spread: 25
Smoke developed: 50

Imperial Weight
0.85-0.91 lb./ft.²

Metric Weight
4.18-4.46 kg/m²

Short Specification:

- Ceiling system shall comprise USG Olympia™ Micro™ CLIMAPLUS™ high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16"] / DONN DX 24mm [15/16"] / DONN Omega 14mm [9/16"] / DONN Fineline 15mm [9/16"] / DONN Identitee 15mm [9/16"]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.50 (perforated)-0.60
- Panels shall have CAC 30-35
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 16mm / (2' x 2' / 2' x 4') x 5/8"
- Edge detail shall be (Fineline Beveled [FLB] / Shadowline Tapered [SLT] / Square Edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

Thermal Resistance
R-1.7

Backloading

Refer to Installation and Maintenance

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Products from USA.
- Not all panel sizes available in all geographic areas, some metric sizes available to order.

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



PIN PERF™ CLIMAPLUS™



Pin Perf Panels with ClimaPlus Performance/ DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Random, fine and coarse perforations
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system.

APPLICATIONS

- Department Stores
- Offices
- Corridors
- Retail store

SUBSTRATE

- Water-felted mineral fiber

Perforated-textured panel



PIN PERF CLIMAPLUS
PANELS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
											
SQ 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	10215 ME 10215	.60	33	.88 	White	A, B	Low		45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	10415 ME 10415	.60	35	.88 	White	A, B	Low		45%
SLT 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	10225 ME 10225	.60	33	.88 	White	A, B	Low		45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	10425 ME 10425	.60	35	.88 	White	A, B	Low		45%
FLB 	2 x 2 x 5/8" 600 x 600 x 16mm	Class A	10235 ME 10235	.60	33	.88 	White	C, D, E	Low		45%
	2 x 4 x 5/8" 600 x 1200 x 16mm	Class A	10435 ME 10435	.60	35	.88 	White	C, D, E	Low		45%

LEGEND

 Low Emission (VOC Class)

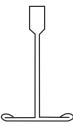
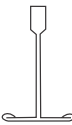
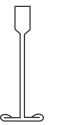
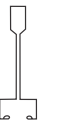
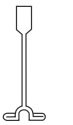
Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods

 ClimaPlus Superior Performance

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

 ≥ .85 LR

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Type III, Form 2, pattern C, E

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

Imperial Weight
0.83-0.85 lb./ft²
Metric Weight
4.08-4.18 kg/m²

Thermal Resistance
R-1.7

Backloading
Refer to Installation and Maintenance

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

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Pin Perf ClimaPlus™ high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16"] / DONN DX 24mm [15/16"] / DONN Omega 14mm [9/16"] / DONN Fineline 15mm [9/16"] / DONN Identitee 15mm [9/16"]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.60.
- Panels shall have CAC 33-35.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 16mm / (2' x 2' / 2' x 4') x 5/8" .
- Edge detail shall be (Fineline Bevel [FLB] / Shadowline Tapered [SLT] / Square Edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

IMPRESSIONS CLIMAPLUS HIGH-NRC



Impressions High-NRC Panels with ClimaPlus Performance /
DONN Centricitee DXT Suspension System

FEATURES AND BENEFITS

- Micro fissured non-directional pattern for a cleaner, whiter appearance
- ClimaPlus 30-year lifetime system warranty to withstand temperature and humidity conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system.

APPLICATIONS

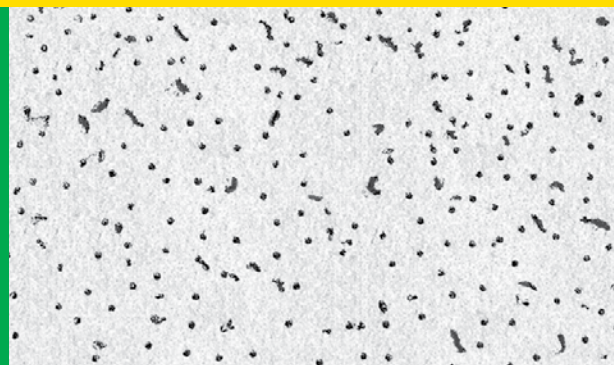
- Offices
- Retail
- Warehouse
- Schools
- Showrooms
- Restaurants

SUBSTRATE

- Water-felted mineral-fiber

 High Recycled Content

Medium-textured panel



IMPRESSIONS CLIMAPLUS HIGH-NRC

USGBORAL.COM

IMPRESSIONS CLIMAPLUS HIGH-NRC PANELS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
SQ 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	973 ME973	.70	33	.86	White	A, B	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	974 ME974	.70	35	.86	White	A, B	Low		57%
SLT 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	975 ME975	.70	33	.86	White	A, B	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	978 ME978	.70	35	.86	White	A, B	Low		57%
FLB 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	976 ME976	.70	33	.86	White	C, D, E	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	971 ME971	.70	35	.86	White	C, D, E	Low		57%

LEGEND

Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods.

ClimaPlus Superior Performance

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

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	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

Short Specification:

Ceiling system shall comprise USG Impressions ClimaPlus High-NRC high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Fineline 15mm [9/16] exposed grid including wall trim as manufactured by USG Boral.

Panels shall have NRC 0.70.

Panels shall have CAC 33-35.

Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm / (2 x 2 / 2 x 4) x 3/4.

Edge detail shall be (Fineline Bevel [FLB] / Shadowline Tapered [SLT] / Square [SQ]).

Limiting Conditions - Maximum 49°C (120°F)/99% RH.

PHYSICAL DATA/ FOOTNOTES

Weight
5.7-6.10 kg/m²

Environmental Limitations
49 °C, 99% RH max.

Thermal Resistance
R 0.30

Maximum Backloading
0 kg/m²

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

Installation

Shall not begin until the building is fully enclosed, watertight, dry, permanent heating and cooling equipment is in operation, residual moisture from wet trades (eg. terrazzo, concrete, plaster) has dissipated, and is free of chemical fumes. Do not mix production lots in the same ceiling area.

Footnotes

1. Not all panel sizes available in all geographic areas
2. Some imperial sizes available to order
3. Acoustic Test Standards NRC to ASTM C423 CAC to ASTM E1414
4. LR values are shown as averages

Reaction to Fire

Standard	Flame Spread	Smoke Developed
ASTM E84	<25	<50
AS/NZS 3837	Group Number Classification: 1 unsprinklered	
ISO 5860 Parts 1 & 2	Group Number Classification: 1 - S	

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

USG BORAL

OLYMPUS™ MAX™ CLIMAPLUS™



OLYMPUS Max Panels with CLIMAPLUS Performance /
DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Non-directional pattern reduces installation time and waste
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system.

APPLICATIONS

- Offices
- Classrooms
- Reception/Lobby areas
- Hotel
- Conference areas
- Retail stores

SUBSTRATE

Water-felted mineral fiber



High Recycled Content

Fine-textured panel - Perforated



OLYMPUS MAX
CLIMAPLUS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Recycled Content ¹
SQ 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	40210 ME40210	.70	33	.88	White	A, B	Low	61%
	2' x 4' x 3/4" 600 x 1200 x 19mm	Class A	40410 ME40410	.70	35	.88	White	A, B	Low	61%
SLT 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	40220 ME40220	.70	33	.88	White	A, B	Low	61%
	2' x 4' x 3/4" 600 x 1200 x 19mm	Class A	40420 ME40420	.70	35	.88	White	A, B	Low	61%
FLB 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	40230 ME40230	.70	33	.88	White	C, D, E	Low	61%
	2' x 4' x 3/4" 600 x 1200 x 19mm	Class A	40430 ME40430	.70	35	.88	White	C, D, E	Low	61%

LEGEND

Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods.

CLIMAPLUS Superior Performance

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

≥ .70 NRC

≥ .85 LR

GRID PROFILE
OPTIONS

A UNI T Grid - 24mm	B UNILITE T Grid 24mm	C UNI T Grid 15 mm	D MICROLINE	E Omega

PHYSICAL DATA/
FOOTNOTES

Weight
4.08 - 4.18kg/m²

Environmental Limitations
49 °C, 99% RH max.

Thermal Resistance
R 0.30m² °C/W (16mm)

Maximum Backloading
0 kg/m²

Maintenance
Can be cleaned easily with a soft brush or vacuum

Installation

Shall not begin until the building is fully enclosed, watertight, dry, permanent heating and cooling equipment is in operation, residual moisture from wet trades (eg. terrazzo, concrete, plaster) has dissipated, and is free of chemical fumes. Do not mix production lots in the same ceiling area.

Footnotes

- Not all panel sizes available in all geographic areas
- Some imperial sizes available to order
- Acoustic Test Standards
NRC to ASTM C423
CAC to ASTM E1414
- LR values are shown as averages

Reaction to Fire

Standard	Flame Spread	Smoke Developed
ASTM E84	<25	<50
AS/NZS 3837	Group Number Classification: 1 unspinklered	
ISO 5660 Parts 1 & 2	Group Number Classification: 1 - S	

PIN PERF™ CLIMAPLUS™ HIGH-NRC



Pin Perf High-NRC Panels with ClimaPlus Performance/
DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Random, fine and coarse perforations
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a DONN® Brand suspension system.

APPLICATIONS

- Department Stores
- Offices
- Corridors
- Retail store

SUBSTRATE

Water-felted mineral fiber

 High Recycled Content

Perforated-textured panel



PIN PERF™ CLIMAPLUS™ HIGH-NRC

USGBORAL.COM

PIN PERF CLIMAPLUS PANELS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
SQ 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	10210 ME 10210	.70	33	.88	White	A, B	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	10410 ME 10410	.70	35	.88	White	A, B	Low		57%
SLT 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	10220 ME 10220	.70	33	.88	White	A, B	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	10420 ME 10420	.70	35	.88	White	A, B	Low		57%
FLB 	2 x 2 x 3/4 600 x 600 x 19mm	Class A	10230 ME 10230	.70	33	.88	White	C, D, E	Low		57%
	2 x 4 x 3/4 600 x 1200 x 19mm	Class A	10430 ME 10430	.70	35	.88	White	C, D, E	Low		57%

LEGEND

Low Emission (VOC Class)

Meets the emission test criteria as low-emitting prescribed by the Singapore Green Building Council (SGBC) following ASTM D5116-06 testing methods.

ClimaPlus Superior Performance

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

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	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

PHYSICAL DATA/ FOOTNOTES

ASTM E1264 Classification

Type III, Form 2, pattern C, E

ASTM E84 surface burning characteristics

Class A

Flame spread: 25

Smoke developed: 50

Imperial Weight

1.16-1.30 lb / ft²

Metric Weight

5.70-6.10 kg/m²

Thermal Resistance

R-1.7

Backloading

Refer to Installation and Maintenance

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Footnotes

1. For details, see LEED report tool at usgdesignstudio.com.

2. L R values are shown as averages.

3. Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Pin Perf ClimaPlus High-NRC high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Omega 14mm [9/16] / DONN Fineline 15mm [9/16] / DONN Identitee 15mm [9/16]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.70.
- Panels shall have CAC 33-35.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm / (2 x 2 / 2 x 4) x 3/4 .
- Edge detail shall be (Fineline Bevel [FLB] / Shadowline Tapered [SLT] / Square Edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

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Petaling Jaya, Selangor, Malaysia 46150

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

USG BORAL



Mars Panels with ClimaPlus Performance/DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Excellent noise reduction (NRC .70)
- High light-reflective finish (LR-.89) reduces light fixtures and energy use
- Washable and scrubbable finish - impact and scratch resistant
- Meet USDA/FSIS guidelines for use in food processing areas
- 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.

APPLICATIONS

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

SUBSTRATE

X-Technology mineral fiber

 High Recycled Content

Medium-textured panel



MARS CLIMAPLUS
PANELS

Edge	Panel Size ¹	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ³
SQ 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	8210	.70	35	.89	White	A, B	Low		80%
	2' x 4' x 3/4" ³ 600 x 1200 x 19mm	Class A	8410	.70	35	.89	White	A, B	Low		80%
SLT 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	8220	.70	35	.89	White	A, B	Low		80%
	2' x 4' x 3/4" ³ 600 x 1200 x 19mm	Class A	8420	.70	35	.89	White	A, B	Low		80%
FLB 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	8230	.70	35	.89	White	C, D, E	Low		80%
	2' x 4' x 3/4" ³ 600 x 1200 x 19mm	Class A	8430	.70	35	.89	White	C, D, E	Low		80%

LEGEND

Low Emission (VOC Class)

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

 CLIMAPLUS Superior Performance ⁴

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

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	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

PHYSICAL DATA/
FOOTNOTES**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

Imperial Weight
1.09-1.17 lb. / ft.²
Metric Weight
5.32-5.70 kg/m²

Thermal Resistance
R-2.2

Backloading
Refer to Installation and Maintenance

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Scrubbability

Exceed 1000+ scrub cycles without surface break or the extent of abrasion (ASTM D2486)

Washability

Exceed 1000+ wash cycles without surface break or the extent of abrasion (ASTM D4828).

Water resistance

Absorption of 1,660 gm/m² per Cobb test (T441 om-84).

Cleaning recommendations

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

Footnotes

1. For details, see LEED report tool at usgdesignstudio.com.
2. LR values are shown as averages.
3. Not all panel sizes available in all geographic areas, some metric sizes available to order.
4. Panel face and back surfaces treated with a proprietary, broad-spectrum antimicrobial additive that inhibits and retards the growth of mold and mildew. For details, see Ceiling Systems Limited Warranty Commercial Applications (CW2015).
5. Maximum 2x2 with SQ edge panels.

Short Specification:

- Ceiling system shall comprise USG Mars ClimaPlus high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Omega 15mm [9/16] / DONN Fineline 15mm [9/16] / DONN Identitee 15mm [9/16]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.70.
- Panels shall have CAC 35.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm / (2 x 2 / 2 x 4) x 3/4.
- Edge detail shall be (Fineline Bevel [FLB] / Shadowline Tapered [SLT] / Square edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

SONATA

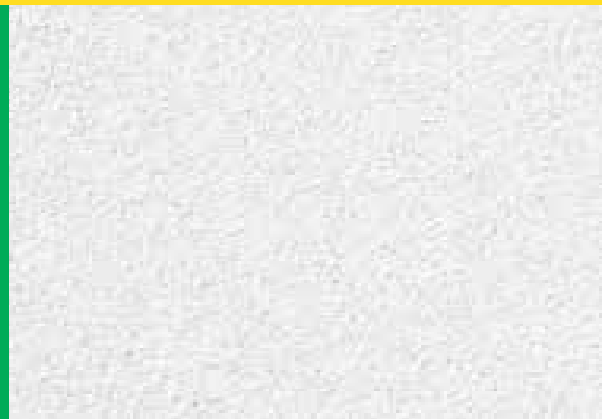


FEATURES & BENEFIT:

- Fine, monolithic texture Industrys highest light reflectance LR 0.69 reduces light fixtures and energy WO IS part of Indirect lighting High Impact and scratch resistance. durable and cleanable surface Available In Ken NRC formulation and In Optimized recycled Content formulations to help maximize recycled content contribution ClimaPlus type with antimicrobial treatment is suitable for healthcare application
- Available for water repellence application On both EOP and back surfaces
- Available In Plank siz, FLB edges compatible with Logix Integrated Ceiling System

APPLICATIONS:

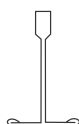
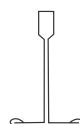
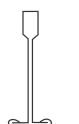
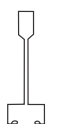
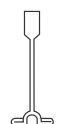
- Healthcare
- Executive Offices and Conference rooms
- Reception areas and Lobbies
- Classrooms
- Corridors
- Dining rooms, kitchens and food-prep areas



SONATA

Edge	Panel Size ³	Class	NRC	CAC Min.	LR ²	Grid Options	VOC Emissions	Recycled Content ¹
								
SQ 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	A, B,	Low	83% 
SLT 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	A, B,	Low	83% 
FLB 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	C, D, E	Low	83% 
SQ 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	A, B,	Low	83% 
SLT 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	A, B,	Low	83% 
FLB 	2' x 2' x 3/4" 600 x 600 x 19mm	Class A	0.75 	37 	89%	C, D, E	Low	83% 

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES**ASTM E1264 Classification**
Type IV, Form 2, pattern C, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 20
Smoke developed: 70

Imperial Weight
1.02 lb./ ft.²
Metric Weight
5-5.5 kg/m²

Thermal Resistance
R-0.31

Backloading
Refer to Installation and Maintenance

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

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- L R values are shown as averages.
- Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Pin Perf ClimaPlus High-NRC high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Omega 14mm [9/16] / DONN Finline 15mm [9/16] / DONN Identitee 15mm [9/16]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.75.
- Panels shall have CAC 37.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm / (2 x 2 / 2 x 4) x 3/4 .
- Edge detail shall be (Finline Bevel [FLB] / Shadowline Tapered [SLT] / Square Edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.
- Fire Resistance ASTM E119 ANSI/UL 263 time-rated assembly (2 hrs)
- Mold Prevention application per ASTM D3273-1, Rated 10per D3274
- Washability / Scrubbability: Exceeds 1000 wash/scrub cycles without surface break or the extend of abrasion per ASTM D 4828 & D 2486
- Available in Water Repellency on Top & Back surface of Healthcare application upto 5 hours under [Sonata Healthcare]

SANDRIFT™ CLIMAPLUS™



Sandrifit Panels with ClimaPlus Performance /
DONN DX/DXL Suspension System

FEATURES AND BENEFITS

- Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling panels.
- Integral color masks nicks and scratches.
- Optional Firecode® formulation designed to meet life safety codes
- ClimaPlus 30-year lifetime system warranty to withstand conditions up to 49°C (120°F)/99% relative humidity without visible sag when used with a USG DONN® Brand suspension system.

APPLICATIONS

- Conference and lobby areas
- Department stores
- Entertainment and gaming
- Executive offices
- Restaurants

SUBSTRATE

- Cast mineral fiber

 High Recycled Content

Fine-textured panel



SANDRIFT
CLIMAPLUS PANELS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse Resistance	Recycled Content ¹
SL	 2 x 2 x 3/4 600 x 600 x 19mm Paper-Back	Class A	808 ME808	.70 	38 	.83	White	A, B 	Zero 			70% 
FL	 2 x 2 x 3/4 600 x 600 x 19mm Paper-Back	Class A	809 ME809	.70 	38 	.83	White	C, D, E 	Zero 			70% 

LEGEND

 Low Emission (VOC Class)

Zero-Emitting performance exceeds CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on CHPS data base.

 ClimaPlus Superior Performance

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

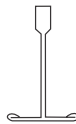
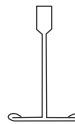
 High Recycled Content

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

 ≥ .38 CAC

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification

Type III, Form 4, Pattern Z

ASTM E84 surface burning characteristics

Class A

Flame spread: 25

Smoke developed: 50

Imperial Weight

1.65-1.70 lb./ ft.²

Metric Weight

8.05-8.29 kg/m²

Thermal Resistance

R-1.7

Backloading

Refer to Installation and Maintenance

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Texture

The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing texture of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes

1. For details, see LEED report tool at usgdesignstudio.com.

2. LR values are shown as averages.

3. To highlight the unique texture of Sandrift ClimaPlus panels, choose light colors. See Colors selector for more information.

4. Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Sandrift™ ClimaPlus™ high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16"] / DONN DX 24mm [15/16"] / DONN Omega 15mm [9/16"] / DONN Fineline 15mm [9/16"] / DONN Identitee 15mm [9/16"]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.70.
- Panels shall have CAC 38.
- Nominal size (600mm x 600mm) x 19mm / (2' x 2') x 3/4".
- Edge detail shall be (Fineline [FL] / Shadowline [SL]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

FROST™ CLIMAPLUS™



Frost Panels with ClimaPlus Superior Performance / DONN Fineline 1/8 DXFF Suspension System

FEATURES AND BENEFITS

- Excellent combination of noise reduction (up to NRC-.75) and sound attenuation (up to CAC-40) for use in mixed (open plan/closed plan) office design.
- Zero VOC emissions exceeds CA Specification 01350.
- USDA Certified Biobased Product⁶.
- High light-reflective finish (up to LR-.89) reduces light fixtures and energy use.
- Damage-resistant panels with integral color help to reduce the overall cost of ownership.
- ClimaPlus™ 30-year lifetime system warranty against visible sag, mold and mildew.

APPLICATIONS

- Healthcare-HIPAA requirements
- Schools - ANSI S12.60 classroom guidelines
- Government projects - ACOE performance requirements
- Mixed office design
- Open or closed plan offices
- Media centers/libraries

SUBSTRATE

- Cast mineral fiber



High Recycled Content

Fine-textured panel



FROST
CLIMAPLUS PANELS

Edge	Panel Size ³	Class	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse Resistance	Recycled Content ¹
SLB	2' x 2' x 3/4" 600 x 600 x 19mm Paper-Back	Class A	414 ME414	.70	36	.84	White Standard Advantage	A, B	Zero			69%
FL	2' x 2' x 3/4" 600 x 600 x 19mm Paper-Back	Class A	418 ME418	.70	38/40	.84	White Standard Advantage	C, D, E	Zero			69%
FLB	2' x 2' x 3/4" 600 x 600 x 19mm Paper-Back	Class A	419 ME419	.70	38/40	.84	White Standard Advantage	C, D, E	Zero			69%
SLB	2' x 2' x 14/16" 600 x 600 x 22mm Paper-Back	Class A	484 ME484	.75	38	.89	White	A, B	Zero			69%
FL	2' x 2' x 14/16" 600 x 600 x 22mm Paper-Back	Class A	488 ME488	.75	38/40	.89	White	C, D, E	Zero			69%
FLB	2' x 2' x 14/16" 600 x 600 x 22mm Paper-Back	Class A	489 ME489	.75	38/40	.89	White	C, D, E	Zero			69%
SLB	2' x 2' x 3/4" 600 x 600 x 19mm Paper-Back	Class A	490 ME490	.70	35	.89	White	A, B	Zero			69%
FLB	2' x 2' x 3/4" 600 x 600 x 19mm Paper-Back	Class A	491 ME491	.70	35	.89	White	C, D, E	Zero			69%

LEGEND

Zero Emission (VOC Class)

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

ClimaPlus Superior Performance

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.

NRC ≥ .70 NRC

CAC ≥ .38 CAC

LR ≥ .85 LR

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Type III, Form 4, Pattern E

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

Weight
1.601.85 lbs./sq. ft.

Thermal Resistance
R-1.7

Maximum backloading
Refer to Installation and Maintenance

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

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing texture of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- Item Nos. 418, 419, 488 and 489 achieve 40 CAC when installed with Fineline or Fineline 1/8 suspension system.
- LR values are shown as averages.
- See Colors selector for more information.
- Panel face and back surfaces treated with a proprietary, board-spectrum antimicrobial additive that inhibits and retards the growth of mold and mildew. For details, please contact USG Boral team.

6. This product has achieved both Bio Preferred initiatives: Federal Procurement Preference and Certified Product Labeling. See the complete listing of all USG ceiling panels on biopreferred.gov website.

Short Specification:

- Ceiling system shall comprise USG Frost™ ClimaPlus™ high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16"] / DONN DX 24mm [15/16"] / DONN Omega 15mm [9/16"] / DONN Fineline 15mm [9/16"] / DONN Identitee 15mm [9/16"]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.70-0.75.
- Panels shall have CAC 38.
- Nominal size (600mm x 600mm) x 19mm / (2' x 2') x 3/4".
- Edge detail shall be (Fineline [FL] / Shadowline [SL]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

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Persiaran Lagoon, Bandar Sunway,
Petaling Jaya, Selangor, Malaysia 46150

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

USG BORAL

CLEAN ROOM™ CLIMAPLUS™



Clean Room Class 10M-100M Panels with ClimaPlus Performance / DONN Brand DXLA Suspension System

FEATURES AND BENEFITS

- Clean Room™ ClimaPlus™ Class 100 and Class 10M-100M panels have an embossed, vinyl-laminated face with sealed back and edges for use in Class 100 or 10M-100M clean rooms.
- Firecode® formulation designed to meet life safety codes.
- ClimaPlus™ 30-year lifetime system warranty to withstand conditions up to 49°C (120°F) and 99% relative humidity without visible sag when used with DONN® Brand suspension system.

APPLICATIONS

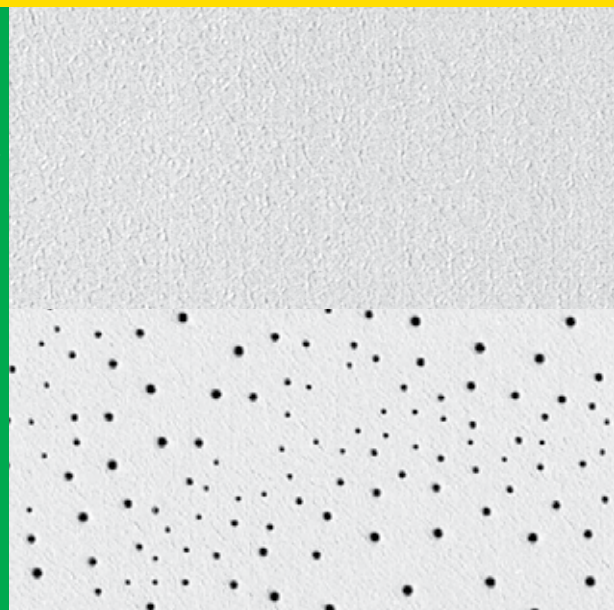
- Clean rooms
- Hospitals
- Surgical areas
- Laboratories
- Kitchens/food preparation areas

SUBSTRATE

- Water-felted mineral fiber

 High Recycled Content

Smooth-textured panel, Class 100
Smooth-textured panel, Class 10M-100M



CLEAN ROOM CLIMAPLUS
CLASS 100 PANELS

CLEAN ROOM CLIMAPLUS
CLASS 10M-100M PANELS⁶

Edge ⁴	Panel Size ⁷	Class ⁸	Item No.	NRC	CAC Min.	LR ³	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content ¹
SQ 	2' x 2' x 5/8" 600 x 600 x 15mm unperforated		56099 ME56099	-	35	.79	White	A, B	Low		52% HRC
	2' x 4' x 5/8" 600 x 1200 x 15mm unperforated		56091 ME56091	-	35	.79	White	A, B	Low		52% HRC
SQ 	2' x 2' x 5/8" 600 x 600 x 15mm perforated		56060 ME56060	.55	35	.79	White	A, B	Low		52% HRC
	2' x 4' x 5/8" 600 x 1200 x 15mm perforated		56090 ME56090	.55	35	.79	White	A, B	Low		52% HRC

LEGEND

Low Emission (VOC Class)

Low-Emitting performance meets CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on CHPS data base for low-emitting materials.

CLIMAPLUS Superior Performance

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

High Recycled Content

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



GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Class 100: Type X, Pattern GI
Class 10-100M: Type X, Pattern CGI

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

Imperial Weight
1.1 lb./ ft² (Class 100™ panel)
1.2 lb./ ft² (Class 10m-100m panels)
Metric Weight
1.1 lb./ ft² (Class 100™ panel)
1.2 lb./ ft² (Class 10m-100m panels)

Thermal Resistance
R-1.60
Backloading
Refer to Installation and Maintenance
Maintenance
Can be cleaned easily with a damp sponge, mild detergent and water. Do not use acetate, ammonia, or highly concentrated chlorine, bromide or other harsh chemicals.

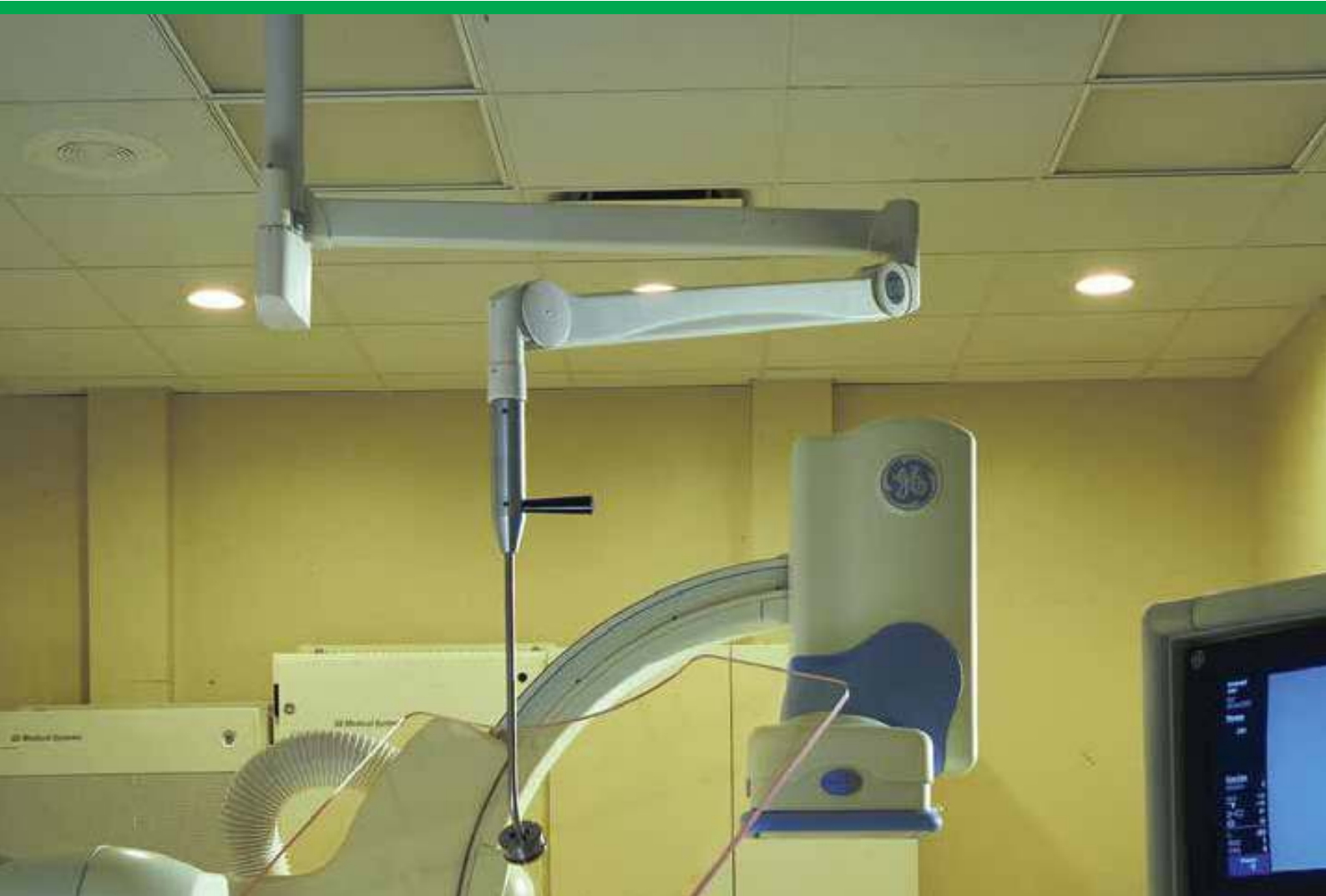
Footnotes
1. For details, see LEED report tool at usgdesignstudio.com.
2. NRC rating CleanRoom ClimaPlus Class 100 panels is .10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than .50
3. LR values are shown as averages.
4. Field-cut edges of CleanRoom panels may be sealed with white latex paint.
5. Clean-room-rated applications require a suspension system with gasketed tee flanges such as DONN CE.

6. Not intended for kitchen/food prep applications. Use unperforated product (Class100) - Item numbers 56099 and 56091.
7. Not all panel sizes available in all geographic areas.
8. Not all grids shown should be used with the fire resistant panels; for fire rated assemblies, see UL design details.

Short Specification:

- Ceiling system shall comprise USG CleanRoom™ ClimaPlus™ high humidity / fire resistance acoustical ceiling panels in (DONN DX 24mm [15/16"] / DONN CE 38mm [1-1/2"] / DONN DXW 38mm [1-1/2"] / DXLA 24mm [15/16"] / ZOLA 24mm [15/16"] / AX 24mm [15/16"]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.55 (CleanRoom™ ClimaPlus™ Class 10M-100M perforated)
- Panels shall have CAC 35
- Nominal size (600 x 600mm / 600mm x 1200mm) x 15mm / (2' x 2' / 2' x 4') x 5/8".
- Edge detail shall be Square [SQ].
- Limiting Conditions - Maximum 49°C (120°F) and 99% RH

TAIGA HYGIENE



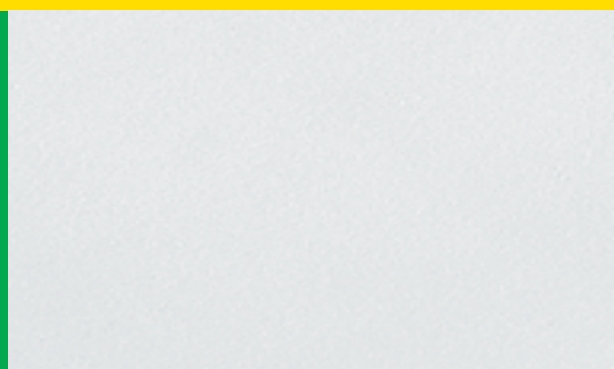
Features & Benefit:

- Panels are offered in smoothed Plain and are suitable for healthcare application.
- Taiga Hygiene has been developed to meet the most stringent demand on hygiene and clean ability
- All Taiga Hygiene items have a special fungicide treatment in the core and on the finished painted surface to enhance the resistance to growth of micro-organisms and ensure regular clean ability. It contains a broad-spectrum antimicrobial additive on the face and the back of the panel that provides resistance against the growth of mold and mildew.
- High light reflectance performance 86%
- High humidity resistant in ClimaPlus, suitable for applications with intermittent heating and Cooling

Applications:

- Healthcare
- Consulting / Patient / Treatment Rooms
- Clinics / Laboratories
- Schools
- General Offices

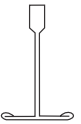
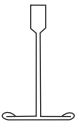
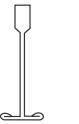
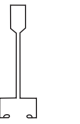
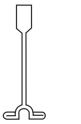
Fine-textured panel



TAIGA HYGIENE

Edge	Panel Size ¹	Class	NRC	CAC Min.	LR ²	Grid Options	VOC Emissions	Recycled Content ¹
								
SQ 	2' x 2' x 5/8" 600 x 600 x 15mm	Class A	0.15 	33 	86%	A, B	Low	32% 
SLT 	2' x 2' x 5/8" 600 x 600 x 15mm	Class A	0.15 	33 	86%	A, B	Low	32% 
FLB 	2' x 2' x 5/8" 600 x 600 x 15mm	Class A	0.15 	33 	86%	C, D, E	Low	32% 
SQ 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	0.15 	36 	86%	A, B	Low	32% 
SLT 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	0.15 	36 	86%	A, B	Low	32% 
FLB 	2' x 2' x 3/4" ³ 600 x 600 x 19mm	Class A	0.15 	36 	86%	C, D, E	Low	32% 

GRID PROFILE OPTIONS

A UNI T Grid - 24mm	B UNILITE T Grid 24mm	C UNI T Grid 15 mm	D MICROLINE	E Omega
				

PHYSICAL DATA/ FOOTNOTES

ASTM E1264 Classification
Type III, Form 2, pattern G, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 10
Smoke developed: 20

Imperial Weight
0.61-1.0 lb./ft²
Metric Weight
3.5-4.5 kg/m²

Thermal Resistance
R-1.8

Backloading
Refer to Installation and Maintenance

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

Footnotes

1. For details, see LEED report tool at usgdesignstudio.com.

2. L R values are shown as averages.

3. Not all panel sizes available in all geographic areas, some metric sizes available to order.

Short Specification:

- Ceiling system shall comprise USG Pin Perf ClimaPlus High-NRC high humidity / fire resistant acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Omega 14mm [9/16] / DONN Fineline 15mm [9/16] / DONN Identitee 15mm [9/16]) exposed grid including wall trim as manufactured by USG Interiors, LLC.
- Panels shall have NRC 0.70.
- Panels shall have CAC 33-35.
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm / (2 x 2 / 2 x 4) x 3/4 .
- Edge detail shall be (Fineline Bevel [FLB] / Shadowline Tapered [SLT] / Square Edge [SQ]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

HALCYON™ CLIMAPLUS™



Halcyon Panels with ClimaPlus Performance/
DONN Fineline DXF Suspension System

FEATURES AND BENEFITS

- Exceptional noise reduction with NRC values up to 1.00 for open-plan offices
- High light-reflective finish (LR.88) 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 system
- Non-directional, monolithic visual reduces installation time and waste
- ClimaPlus 30-year lifetime system warranty against visible sag.

APPLICATIONS

- Open-plan offices
- Offices with indirect lighting
- Waiting Rooms / Nurses stations
- Media Rooms
- Libraries

SUBSTRATE

Fiberglass

Fine-textured panel



HALCYON
CLIMAPLUS PANELS

Edge	Panel Size ^{2,4}	Class	Item No.	NRC	CAC Min.	LR ³	Color	Grid Options	Anti-Mold & Mildew	Recycled Content ¹
										
SQ 	600*600*19	Class A	HC669	.95 	24	.88 	White	A, B		40%
	610*610*19	Class A	HC229	.95 	24	.88 	White	A, B		40%
	600*1200*19	Class A	HC629	.95 	24	.88 	White	A, B		40%
	610*1220*19	Class A	HC249	.95 	24	.88 	White	A, B		40%
	600*600*25	Class A	HC6625	1.00 	25	.88 	White	A, B		40%
	610*610*25	Class A	HC2225	1.00 	25	.88 	White	A, B		40%
	600*1200*25	Class A	HC6225	1.00 	25	.88 	White	A, B		40%
	610*1220*25	Class A	HC2425	1.00 	25	.88 	White	A, B		40%
	600*600*38	Class A	HC6638	1.00 	31	.88 	White	A, B		40%
	610*610*38	Class A	HC2238	1.00 	31	.88 	White	A, B		40%
SL 	600*600*25	Class A	HCR6625	.95 	28	.88 	White	A, B		40%
	610*610*25	Class A	HCR2225	.95 	28	.88 	White	A, B		40%
	600*1200*25	Class A	HCR6225	.95 	28	.88 	White	A, B		40%
	610*1220*25	Class A	HCR2425	.95 	28	.88 	White	A, B		40%
	600*600*38	Class A	HCR6638	1.00 	31	.88 	White	A, B		43%
	610*610*38	Class A	HCR2238	1.00 	31	.88 	White	A, B		43%
FL 	600*600*25	Class A	HCRF6625	.95 	28	.88 	White	C, D, E		40%
	610*610*25	Class A	HCRF2225	.95 	28	.88 	White	C, D, E		40%
	600*1200*25	Class A	HCRF6225	.95 	28	.88 	White	C, D, E		40%
	610*1220*25	Class A	HCRF2425	.95 	28	.88 	White	C, D, E		40%
	600*600*38	Class A	HCRF6638	1.00 	31	.88 	White	C, D, E		43%
	610*610*38	Class A	HCRF2238	1.00 	31	.88 	White	C, D, E		43%

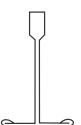
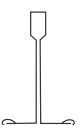
 ClimaPlus Inherent Performance

Fiberglass substrate is inherently resistant to the growth of mold and mildew

 ≥ .70 NRC  ≥ .85 LR

LEGEND

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES

Weight
1.85 kg/m² (19mm panels)
2.3 kg/m² (25mm panels)
3.3 kg/m² (38mm panels)

Thermal Resistance
R 0.58 (19mm panels)
R 0.77 (25mm panels)
R 1.16 (38mm panels)

Weight
3.0-4 kg/m²
5.6 kg/m² Firecode
4.2 kg/m² (Two/24)

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.

Reaction to Fire

Standard	Flame Spread	Smoke Developed
ASTM E84	<25	<50
AS/NZS 3837	Group Number Classification: 1 unsprinklered	
ISO 5660 Parts 1 & 2	Group Number Classification: 1 - S	

Environmental Limitations

49°C, 99% RH max.

Maximum Backloading
0 kg/m².

Short Specification:

- Ceiling system shall comprise USG Halcyon ClimaPlus high humidity / fire resistance acoustical ceiling panels in (DONN Centricitee 15mm [9/16] / DONN DX 24mm [15/16] / DONN Fineline 15mm [9/16] face / DXW 38mm [1-1/2] exposed grid including wall trim as manufactured by USG Boral.
- Panels shall have NRC 0.90-1.00.
- Panels shall have CAC 20-30.
- Nominal size (2 x 2 / 2 x 4 / 30 x 30) x 3/4" / 1-1/2".
- Edge detail shall be (Square [SQ] / Shadowline [SL] / Fineline [FL]).
- Limiting Conditions - Maximum 49°C (120°F)/99% RH.

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

SKYROCK NORDIC



FEATURES AND BENEFITS:

- Stone Wool substrate with White surface layer for basic requirements and applications
- Exceptional Sound Absorption with NRC of 0.95
- Low Gloss, White surface layer that has a low gloss factor and good light reflection (LR-0.83)
- Moisture resistance to withstand conditions up to 25°C (77°F) / 95% relative humidity without visible sag when used with DONN Brand suspension system
- Non Combustible panels (Euro Class A1) and exceptional Humidity
- Resistance up to 95% RH

APPLICATIONS:

- Public Space
- Offices
- Schools
- Nurseries
- Commercial Premises

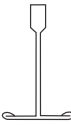
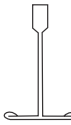
Fine-textured panel



SKYROCK

Edge	Panel Size ¹	Class	NRC	LR ²	Grid Options	VOC Emissions	Recycled Content ¹
							
SQ 	2' x 2' x 11/16" 600 x 600 x 18mm	Class A	0.9 	.83 	A, B,	M1	15% 
SLT 	2' x 2' x 11/16" 600 x 600 x 18mm	Class A	0.9 	.83 	A, B	M1	15% 
FLB 	2' x 2' x 11/16" 600 x 600 x 18mm	Class A	0.9 	.83 	C, D, E	M1	15% 

GRID PROFILE
OPTIONS

A	B	C	D	E
UNI T Grid - 24mm	UNILITE T Grid 24mm	UNI T Grid 15 mm	MICROLINE	Omega
				

PHYSICAL DATA/
FOOTNOTES

ASTM E1264 Classification
Type IV, Form 2, pattern G, E

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

Imperial Weight
0.17-0.38 lb./ft²
Metric Weight
0.85-1.8 kg/m²

Thermal Resistance
R-0.44

Backloading
Refer to Installation and Maintenance

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

Footnotes

- For details, see LEED report tool at usgdesignstudio.com.
- LR values are shown as averages.
- Not all panel sizes available in all geographic areas, some metric sizes available to order.

Product Specification Details | Acoustical Ceilings | 09 51 13

2.1 General

Provide Acoustical Ceiling Material manufactured to meet requirements of this specification in accordance with EN 13964:2014.

2.2 Materials

Acoustical Ceiling Units:

- Type IV, Pattern [G]
- Stone Wool Substrate finished with Pre Painted Fiber Glass scrim layer & Backside thin Glass fiber tissue
- Size 12,15,18,25mm thick [600 x 600] [600 x 1200]
- Edge Detail Trim (Square) (SLT) (FL)
- Noise Reduction Coefficient (NRC) [0.85][0.9][0.95]
- Light Reflectance Coefficient (LR) 0.83
- Recycled Content [15%]
- Color White similar to RAL 9016
- Reaction to Fire: Euroclass A1 in accordance with EN-13501-1
- Thermal Resistance: 0.44 m² °K/W (15mm)
- Humidity Resistance 95% RH / 25°C
- Weight: 0.85 kg/m² for 12mm, 1.1 kg/m² for 15mm, 1.4 kg/m² for 18mm, 1.8 Kg/m² for 25mm
- Manufacturer, subject to compliance with USG Boral ME terms & Conditions
- Product Name [Skyrock Nordic]

BILLO™ 3-DIMENSIONAL PANELS



Billo 3-Dimensional Panels, White Translucent and White Opaque/
Donn Centricitee DXT Suspension System, Flat White

FEATURES AND BENEFITS

- Three-dimensional curved panels punctuate flat ceiling planes with rhythm and depth.
- 2'x2' pre-formed polycarbonate panels create myriad patterns with just one simple panel shape.
- Lightweight, lay-in panels install into 9/16" narrow-profile Donn® brand suspension systems, allowing full ceiling accessibility.
- Luminous panels may be backlit with fluorescent strip fixtures or integrated with standard lay-in fixtures.

APPLICATIONS

- All interior commercial applications



Whites



White Translucent



White Opaque

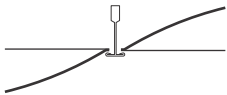
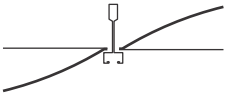
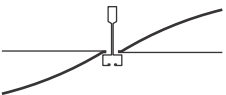
PRODUCT
INFORMATION

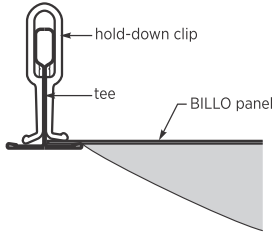
Materials	Size and Weight	Module Size	Code Approval
Panels: Preformed polycarbonate Suspension System: All 2'x2' Donn® 9/16" Centricitee™ DXT™ and Fineline® DXF™/DXFF™ profiles. Panels to fit the 2'x2' 15/16" DX"/DXL™ suspension system are available as a special order.	Panels: 2'x2' Weight: 0.25 lbs./sq. ft.	Full 2'x2' modules only	Billo™ infill panels meet Class B requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

FINISHES

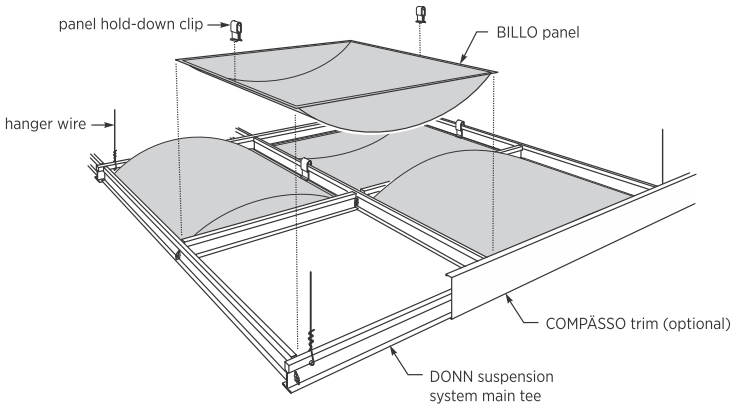
Panel Color	Panel Light Transmission	Suspension System Coordinating Colors
White Translucent	26%	Flat White
White Opaque	8%	Flat White

EDGE
DETAILS

Billo Panels with 9/16" Centricitee DXT Suspension	Billo Panels with 9/16" Fineline DXF Suspension	Billo Panels with 9/16" Fineline 1/8 DXFF Suspension
		

Panel Hold-Down Clip		
	Supplied with 9/16" Down panels	

ASSEMBLY

View from Above	
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FOR MORE
INFORMATION

Product literature System brochure: IC472 Data sheet: IC473	Recycled content Whites: 0% recycled content
Online tools Visit usgdesignstudio.com for details and 3-D models.	

TOPO™ 3-DIMENSIONAL SYSTEM



Topo System 12 with Clear Translucent Panels /
DONN Topo Suspension System in Silver Satin with Silver Laser Trim

SYSTEM AT A GLANCE

Transform flat ceiling planes into gently rolling landscapes with pre-formed panels that install easily into the narrow-profile DONN® brand Topo suspension system.

FEATURES AND BENEFITS

- Two system depths (8" and 12") create varying ceiling topographies.
- Translucent and opaque infill panels in five colors enhance existing lighting for added visual interest.
- Optional pre-engineered utility circles accommodate additional lighting and utility access.

APPLICATIONS

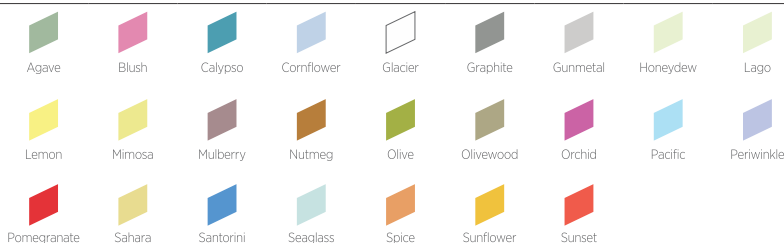
- All commercial applications



Whites



Color Gallery



TOPO™ 3-DIMENSIONAL SYSTEM

PRODUCT INFORMATION

Materials	Size and Weight	Finishes
Panels: Pre-formed Lexan. Material thickness 0.04". Suspension system: Extruded aluminum available in color-coordinated finishes. Edge trim system: painted cold-rolled steel.	Panels: 2' x 2'. System weight: 0.5 lbs./sf.5	Full 2' x 2' modules only.

FINISHES

Color	Light Transmission	Topo Suspension System Coordinating Colors
Clear Translucent	94%	Silver Satin
Blue Translucent	78%	Topo Blue
Glass Green Translucent	77%	Clear Glass Green
White Translucent	26%	Flat White
White Opaque	8%	Flat White

DETAILS SYSTEM PROFILES

Topo System 8	Topo System 12

ASSEMBLY

(VIEW FROM BELOW)

GRID-PANEL INTERFACE	

Exposed Hanger Solutions

For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

Online tools

usgdesignstudio.com
usg.com/resources/onlinetools/topogeo/index.jsp

Recycled content

TOPO panels: 0% recycled content.
TOPO suspension: 50% recycled content.
TOPO trim: 25% recycled content.

Code Approval

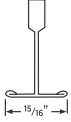
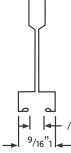
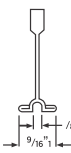
LEXAN infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E84

GRIDS* AND EDGES

Suspension System

USG Boral offers numerous suspension system and edge detail options to help meet your design needs. Select a grid system and match it with a corresponding panel edge detail, or vice versa, to assure proper system fit and assembly.

*These grids can be supplied to meet the specific project requirements.

Suspension Systems	UNI T GRID 15mm	UNI T GRID 24mm	UNILITE T Grid 24mm	MICROLINE	OMEGA
Edge Detail					
Square Edge (SQ)					
Shadowline Tapered (SLT)					
Shadowline (SL)					
Shadowline Bevel (SLB)					
Fineline (FL)					
Fineline Bevel (FLB)					
Pedestals (PE/ILT)					
Pedestals (PE/SLT)					
Interline Tapered (ILT)					
BESK					
SESK					

1. DONN DXL, DXLA, DXLF and DXLT fire-rated suspension systems and Firecode Formulation panels may have restrictions on size and application; refer to appropriate UL Design for acceptable components.

2. The ILT edge is applicable only to Illusion face cut products.

3. Square edge panels are not recommended with 2' X 4' modules using 9/16" grid. Refer to product pages for compatible grid options.

4. DONN DX and DXW suspension systems are to be utilized panel width exceeds 30" (750mm)

INSTALLATION AND MAINTENANCE

SYSTEM PERFORMANCE

All ceiling products and systems should be installed and maintained in accordance with current USG Boral written instructions and best industry practice, including the following: ASTM C636 "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels." Sheetrock Brand Gypsum Panels used with the USG Boral Drywall Suspension System are not covered. System performance following any substitution of materials or compromises in assembly cannot be guaranteed and may result in failure under critical conditions.

PATTERN DIRECTION

Variations in color and fissure size in ceiling tiles will be of little consequence within a single production batch. However, minor variations can occur from time to time, and projects should be planned so that all material for continuous ceiling space is ordered, delivered and installed from the same production batch.

INSTALLATION & ENVIRONMENTAL CONDITIONS

For applications with normal controlled environment conditions, products with 70% RH / 29°C or better are suitable. Installation should only take place under ambient conditions after residual moisture from concrete and plaster has dissipated. The recommended relative humidity should not exceed 70% RH within a temperature range of 65-85°F (18-29°C) for installation and occupancy.

Once ceiling installation has commenced, it is essential that RH% and temperature be maintained at acceptable levels by heating the building if necessary. Dry heating should be employed and paraffin or gas heaters avoided. These recommendations should still be applied between completion of contract and the occupancy of the building. Unoccupied buildings with uncontrolled atmospheres may have a wide temperature range during a 24 hours period which could lead to an unacceptable change in dimension stability of the ceiling panels, causing excessive sag.

For applications with intermittent heating and cooling systems, products with 95% RH / 40°C or better are recommended. For applications with uncontrolled environmental conditions, natural ventilation systems or in humid areas such as washrooms, kitchens or wet process areas, products with 95-99% RH / 40°C or better are recommended.

Installation shall not commence until the building is watertight, dry, all wet trades (terrazzo, plaster) completed and free of chemical fumes. Do not mix production lots in some ceiling. Environmental conditions are not to exceed 49°C (120°F)/99% RH.

RADAR CERAMIC CLIMAPLUS PANELS

Radar Ceramic Climaplust ceiling panels perform especially well in areas such as swimming pools, where the ceiling may be subject to unusually high levels of humidity up to 100% RH and chemical attack. They should be installed with DONN Corrosion Resistant ceiling grid and appropriate hangers to resist corrosion.

ALL USG Boral ceiling tiles should be protected from direct contact with water.

SITE STORAGE AND HANDLING

Storage on site should be as short as possible with environmental conditions as near as possible to those specified for occupancy. Any storage area should be secure and fully protected from the weather with cartons stored on a clean, dry base. Care should be taken that the products are not damaged during delivery and while they are stored at the job site. The products must always be protected from direct contact with water, including condensation and corrosive substance or vapors, both before and after installation. Cartons of material should never be rolled, dropped or slid, and under no circumstances used as a workbase or substitute for ladders, scaffoldings, etc.

OVERLAID MATERIAL

Whenever possible overlaid material, such as insulation, should not be laid directly on the back of the ceiling membrane, as this will compromise the fire resistant properties of the ceilings. Where insulation must be used it should be no heavier than 0.26 lbs/ft² and installed with the following USG Boral recommendations: insulation must be applied perpendicular to the suspension cross tees with the suspension system supporting the weight of the insulation. Insulation is also not recommended to be used as follows: FIRECODE applications unless specified and use described by Underwriters Laboratories.

MAINTENANCE AND CLEANING

General cleaning of dust and loose dirt may be easily achieved using a soft brush or vacuum cleaner. Soiled panels can be cleaned with an art gum eraser or dampened cloth or sponge containing as little water as possible. Panels should never be soaked or immersed in water.

Clean Room tiles can be wet wiped on a regular basis without damage.

Cleaning can also be carried out by specialist contractors using proprietary methods and chemicals. It is strongly recommended that a trial area be cleaned to ensure that there is no detrimental effect on the ceiling panel or grid.

RE-DECORATION

It should be noted that a new paint finish may compromise the Surface Spread of Flame classification and acoustic absorption for that panel. Please consult the USG Boral Technical Services Department or your local USG Boral sales representatives for recommendations.

Australia
China
India
Indonesia
Malaysia
New Zealand
Oman
Thailand
Philippines
Saudi Arabia
Singapore
South Korea
Vietnam

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