

Technical Data - Climaplus™ Performance

MARS™ ACOUSTICAL PANELS WITH CLEAN ROOM OPTIONS



Mars Panels with ClimaPlus Performance/DONN DX Suspension System



Fine-textured panel

Description

MARS™ ClimaPlus™ Acoustical Ceiling Panels are fine-textured, mould resistant and offer superior sag resistance, high light reflectance values and excellent noise reduction.

Their durability, performance, easiness to clean and attractiveness make them an ideal choice for corridors, department stores, reception areas, lobbies and general office spaces

Advantages

- Excellent noise reduction (NRC 0.70)
- High light-reflective finish (LR 0.90) reduces light fixtures and energy use
- Non-directional, monolithic visual reduces installation time and waste
- Mars™ Clean Room™ option has sealed back and edges meeting ISO Class 5 (Class 100) requirements
- Mars™ Clean Room™ option exceeds JIS Z 2801 standard for anti-microbial performance, 3rd party certified⁶
- Mars™ Clean Room™ option meets the requirement for PC1 and PC2 physical containment facilities
- Washable and scrubbable finish – impact and scratch resistant
- ClimaPlus™ 30-year lifetime system warranty against visible sag when used with a Rondo DONN® Brand suspension system



Application

- Offices and conference rooms
- Data centre rooms, computer rooms
- Healthcare
- Classrooms
- Clean Rooms (ME86169CR and ME88189CR)
- Dining rooms, kitchens and food prep areas

Substrate

- Wet-formed mineral fibre

| Edge | Panel Size ^{1,2} | Item No. ⁷ | NRC ³ | CAC ³ Min. | LR ⁴ | Colour | Grid Options | VOC Emissions | Anti-Mould & Mildew ⁵ | Recycled Content | |
|---|---------------------------|-----------------------|------------------|-----------------------|-----------------|--------|--------------|---------------|----------------------------------|------------------|-----|
| | | | | | | | | | | | |
| MARS™ PANELS | SQ | 600 x 600 x 19mm | ME8210 | .70 | 35 | .89 | White | A, B | Low | | 80% |
| | | 600 x 1200 x 19mm | ME8410 | .70 | 35 | .89 | White | A, | Low | | 80% |
| | SLT | 600 x 600 x 19mm | ME8220 | .70 | 35 | .89 | White | C | Low | | 80% |
| | | 600 x 1200 x 19mm | ME8420 | .70 | 35 | .89 | White | C | Low | | 80% |
| | FLB | 600 x 600 x 19mm | ME8230 | .70 | 35 | .89 | White | D | Low | | 80% |
| | | 600 x 1200 x 19mm | ME8430 | .70 | 35 | .89 | White | D | Low | | 80% |
| MARS™ CLEAN ROOM™ PANELS (ISO 5) | SQ | 600 x 600 x 19mm | ME86169CR | .75 | 35 | .90 | White | A, B | Low | | 69% |
| | | 1200 x 600 x 19mm | ME88189CR | .75 | 35 | .90 | White | A | Low | | 69% |
| MARS™ PLANK PANELS | (Long side) BESK | 300 x 1200 x 19mm | USGME800360STAR | .70 | 35 | .89 | White | E | Low | | 80% |
| | | 400 x 1200 x 19mm | USGME800660STAR | .70 | 35 | .89 | White | E | Low | | 80% |
| | | 450 x 1350 x 19mm* | USGME801460STAR | .70 | 35 | .89 | White | E | Low | | 80% |
| | (Short side) SQ | 300 x 1500 x 19mm | USGME800460STAR | .70 | 35 | .89 | White | E | Low | | 80% |
| | | 375 x 1500 x 19mm | USGME801760STAR | .70 | 35 | .89 | White | E | Low | | 80% |
| | | 500 x 1500 x 19mm | USGME801160STAR | .70 | 35 | .89 | White | E | Low | | 80% |

LEGEND

Low Emission (VOC Class)

Third party (GREENGUARD Gold) certified for lowemitting performance, ASTM Standard Guide D5116 - 10. 'Certificates of Compliance' for Low VOC Emissions are available on usg.com and usgboral.com.

CLIMAPLUS Superior Performance⁵

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

High Recycled Content

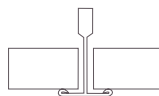
Total recycled content is based on product composition of post-consumer and pre-consumer (postindustrial) recycled content. ISO 14021:2016.

≥ .70 NRC

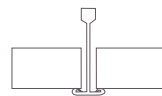
≥ .70 NRC

Grid Profile Options

A
DONN® DX™
24mm
Available with high performance antimicrobial coating



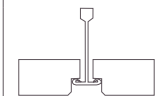
B
DONN® DC™
15mm



C
DONN® DX™
24mm
Available with high performance antimicrobial coating



D
DONN® DC™
15mm



E
Top Hat
Aluminium Grid



Antimicrobial

Clean Room™ performance combined with an antimicrobial formula designed to adhere to your ceiling design. The kill rate for the following micro-organisms that land on the surface of the tile is 99% in less than 24 hours. (tested to JIS Z2801): E-coli, Staphylococcus Aureus, Klebsiella Pneumoniae, S. aureus MRSA, Acinebacter Baumanii, Canadida Albicans, Streptococcus Pnuemoniae, Bacillus Cereus 7, Aspergillus Niger 7. Testing completed by 3rd party in laboratory conditions.

Short Specification

- Ceiling system shall comprise USG Boral Mars™ / Mars™ Clean Room™ ClimaPlus™ acoustical ceiling panels in Rondo DONN® DC™ 15mm / Rondo DONN® DX™ 24mm / USG Boral Aluminium Top Hat exposed grid including wall trim
- Panels shall have NRC 0.70 / 0.75
- Mars™ Panels shall have CAC 35 minimum
- Nominal size (600mm x 600mm / 600mm x 1200mm) x 19mm
- Edge detail shall be Fineline® Bevel [FLB] / Shadowline Tapered [SLT] / Square edge [SQ] / Plank [BESK]
- Limiting Conditions - Maximum 49°C / 99% RH

Physical Data/ Footnotes

Weight

5.0 - 5.3 kg/m²

Environmental Limitations

49°C, 99% RH max.

Thermal Resistance

R 0.39 (m²K)/W

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.

Scrubability

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)

ISO 14644-1

Clean Room ISO Class 5

Proprietary technology

This product's unique combination of sag resistance and sound performance results from proprietary technology.

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

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 | |

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
5. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mould / mildew

6. Clean Room™ performance combined with an anti-microbial formula designed to adhere to Australian Government Guidelines for Certification of Physical Containment Facilities. The kill rate for the following microorganisms that land on the surface of the tile is 99% in less than 24 hours. (tested to JIS Z2801): E-coli, Staphylococcus Aureus, Klebsiella Pneumoniae, S.aureus MRSA, Acinebacter Baumanii, Canadida Albicans, Streptococcus Pnuemoniae, Bacillus Cereus7, Aspergillus Niger7. Testing completed by 3rd party in laboratory conditions.

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