



USG BORAL HIGHLANDS™ CEILING SYSTEM

Series C, Lay-in Type
Submittal Sheet

The USG Boral Highlands™ Ceiling System provides customised ceiling visual effects with multiple perforation patterns and panel height options. The Highlands™ ceiling panels can be easily installed or removed, offering access to the plenum.

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Gypsum Boards

Ceilings

Compounds

Metal Framing

Substrates

USG Boral Highlands™ Ceiling System

Series C, Lay-in Type

Features and Benefits

- A sealed ceiling design with simple lay-in panels provides easy access to enclosed plenum
- Available in 14mm and 24mm runner widths
- Numerous perforation patterns to achieve a customised effect or a higher noise reduction coefficient when used with acoustical backing
- Concealed suspension system offers a smooth appearance
- A wide range of colors and wood tones
- Individually replaceable panels

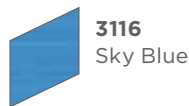
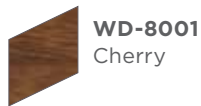
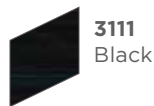
Applications

- Transportation Centres, including Train Stations and Airports
- Lounges
- Foyers
- Corridors
- Commercial Spaces
- Offices
- Conference Rooms

Material Options

- Aluminium
- Galvanised Mild Steel
- Stainless Steel

Color Options



Over 45 colors and 26 wood look options.

Please refer to USG BORAL Series 2000-5000 and Wood Look Aluminium Metal Ceilings Color Guide. Due to printing limitations, shades may vary from actual product.

Product Information

Panel Dimension Options

| Item Number | Panel Dimensions W x L (mm) |
|-------------|-----------------------------|
| P4-575 | 575 x 575 |
| P4-585 | 585 x 585 |
| P4-2751175 | 275 x 1175 |

Suspension System Components

| Suspension System Detail | | Number | Item Number | Description |
|--------------------------|---------------------------|---|-------------|---------------------|
| | | 1 | P4-Panel | Ceiling panel |
| | | 2 | P-24-1 | Main runner (3.0m) |
| | | 3 | P-24-2 | Cross runner (1.2m) |
| | | 4 | P-24-3 | Cross runner (0.6m) |
| | | 5 | P-102 | Runner bracket |
| Runner Detail | Panel Installation Detail | Edge Configuration with 14mm or 24mm Runner Options | | |
| | | | | |

The suspension system consists of the T-shaped Main runners and Cross runners connected to the Runner bracket (5).

Perforation Options

| | D-01B Diamond Square | D-01A* Square | DM1A | D-S5A | D-R3 |
|---------------|-------------------------|------------------|-----------|-------------------|-----------------|
| Pattern | | | | | |
| Hole Diameter | 1.5mm | 1.5mm | 0.8mm | 7.9mm | 6.0mm x 25.0mm |
| Pitch | 4.0mm | 4.0mm | 5.0mm | 11.43mm x 11.43mm | 11.0mm x 30.0mm |
| Open Area | 22% | 11% | 2% | 48% | 39% |
| NRC/SAA | 0.75/0.74 | 0.65/- | 0.45/0.46 | 0.70/- | 0.70/- |

*D-01A is a standard perforation, for more perforation options refer to USG Boral Metal Ceilings Perforation Guide GS_PG_1117.

Panel Options

| Non-Perforated Panel | Perforated Panel | Perforated Panel with Acoustic Non-Woven Backing |
|----------------------|------------------|---|
| | | |

Technical Data and Notes

Light Reflectance

Flat White (050): Up to LR 0.80 (less with optional perforated panels).

Material

Minimum material thickness of 0.7mm. Please advise USG Boral of project specific panel sizes for minimum thickness recommendation.

Finishing

Electrostatically applied polyester powder coating. Minimum coating thickness of 60 microns. Very low VOC emissions.

Weight per square metre

Aluminium

0.7mm thickness, non-perforated panel, 585mm x 585mm. Calculated panel weight = 2.1kg/m²

Warranty

Please refer to Metal Ceiling Warranty CW2015B

Installation

Please refer to USG Boral Highlands Ceiling System Technical Manual (Installation Guide) TM_C_HS_1117

| Tests | Standards | Performance |
|--|--------------|--|
| Surface burning characteristics | ASTM E84 | Flame Spread Index = 10 Smoke Developed Index = 0 |
| Dimensional tolerance | BS 8290-2 | Comply within allowable limits |
| Non-combustility test for materials | BS 476-4 | Non-combustible |
| Fire propagation and surface spread of flame of products | BS 476-6 & 7 | Class 0 |
| Sound absorption and sound absorption coefficients | ASTM C423 | NRC & SAA values varies with hole diameter, pitch and open area % |
| Organic emissions from indoor materials or products | ASTM D5116 | Below allowable limits of emission rates in GBCA guide |
| Analysis of pyrolysis and combustion gases | NF X 70-100 | Below allowable limits of IDLH values in NIOSH guide |
| Luminous reflectance factor of acoustical materials | ASTM E1477 | LR values varies with hole diameter, pitch, open area % and finish |

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

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