USG Boral ME offers a wide range of high quality aluminum alloy and metal ceiling system that increase the aesthetic and functional value of your interiors within a modest ceiling budget.

USG Boral ME’s superior quality metal ceiling products are available in standard suspended ceiling systems such as exposed grid / concealed suspension system; custom-made metal ceiling is also available on request to meet the different requirements of architect specification design.

The USG Boral ME portfolio combines aesthetic, durability and performance:
• Wide range of standard patterns, other patterns are available upon request
• Durable and washable polyester powder finish
• Easy access for service maintenance
• Robust and easy to clean
• High sound absorption and sound attenuation
• Extensive range of perimeter options
• Environmentally friendly and recyclable

USG Boral ME also offers unique systems providing the specifier unlimited design possibilities for applications ranging from banks to corporate offices, airports till shopping malls. For Metal Ceiling exterior application under a soffit, contact USG Boral ME technical team.

Metal ceiling panels are all antibacterial tiles which are press formed from aluminum alloy series 3000 or mild steel and factory finished with an electrostatically applied polyester powder coat (70-90 microns). The paint’s grade varies widely from commercial to super durable to comply with most of the projects requirements. Panel thickness range from 0.6 to 1.4mm, other thickness is available upon request. Suspension components are made from galvanized steel or and pre-painted steel/ aluminum.
The standard color is RAL 9016 white 20% gloss, RAL9006 and RAL9010. Other colors are available upon request.

Our design and manufacture are strictly in conformance with the plant’s Good Manufacturing Practice.

USG Boral ME metal ceilings are very durable, which can be easily cleaned and have a long life span.

USG Boral ME’s ceiling panels are available with High Recycled Content (HRC). HRC Ceiling Panels and Trim are classified as containing above 50% of total recycled content. Total recycled content is based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. The use of recyclable materials has obvious environmental benefits when the products are ready for disposal.

Available upon request in full compliance with ASTM E580.

Fire rated designed class A as per ASTM E84 is available upon request.

A balanced acoustical environment often plays an important part in improving productivity, comfort and people’s sense of well being. Through appropriate selection of perforation pattern and acoustic infill, it is possible to improve speech intelligibility, reduce unwanted noise and increase privacy within space or between adjacent offices.

“Sound absorption” describes the reduction of noise within a room. Perforated ceiling tiles with an acoustic fleece overlay or mineral wool pad absorb sound energy and serve to control acoustic reverberation time.

Different combinations of perforated open areas and acoustic pad density / thickness provide different levels of sound absorption. NRC defines the average sound absorption of the ceiling system.

Sound attenuation refers to noise passing into room from outside, such as room to room noise from the services above ceiling. The test data in dB for each ceiling panel gives guidance on sound insulation but should be seen in the context on the overall room construction. USG Boral ME ceiling panels can be manufactured with a range of mineral wool acoustic infill.

| Lay-In Panels | Standard Acoustical Fleece | 0.45-0.60 | Class A | <20 |
| Lay-In Panels | Premium Acoustical Fleece | 0.65 | Class C | <20 |
| Lay-In Panels | Premium Acoustical Fleece+Rockwool | 0.90 | Class A | 20-25 |
| Lay-In Panels | Mineral Fiber Board | 0.40-0.50 | - | 30-35 |
| Clip-In Panels | Standard Acoustical Fleece | 0.45-0.60 | N/A | N/A | 35-40 |
| Clip-In Panels | Premium Acoustical Fleece | 0.70 | Class C | <20 |
| Clip-In Panels | Premium Acoustical Fleece+Rockwool | 0.90 | Class A | 20-25 |
| Clip-In Panels | Mineral Fiber Board | 0.40-0.50 | - | 30-35 |

ASTM C423, ASTM E1414 and EN ISO11654 “Standard test method for sound absorption and sound absorption coefficients by the reverberation room”
PRODUCT PERFORMANCE

Metal ceilings from USG Boral ME are ideal for fast tract construction as they can be installed early in the building program. The building should be closed but need not to be heated during and after installation.

USG Boral ME metal ceiling systems offer a light reflectance performance of LR-1, which can contribute to energy savings.

APPLICATION GUIDE

| TILE & PLANK CEILING SYSTEM | TYPICAL USES | AIRPORT | AUDITORIUM | CLEAN ROOMS | FACTORIES | GYMNASIUMS | HEALTHCARE | HOTELS | LOBBIES | MUSEUMS | OFFICES | PUBLIC AREAS | RESTAURANTS | SCHOOLS | SHOPPING MALL | SHOWROOM | STORES |
|-----------------------------|--------------|---------|------------|-------------|-----------|------------|------------|--------|--------|---------|---------|--------------|-------------|--------|----------------|---------|
| CLIP-IN                     |              | •       | •          | •           | •         | •          | •          | •      | •      | •       | •       | •            | •           | •      | •              | •       | •     |
| LAY-IN                      |              |         |            |             |           |            |            |        |        |         |         |              |             |        |                |         |       |

SUSPENSION COMPONENTS

<table>
<thead>
<tr>
<th>DESCRIPTION &amp; MATERIAL</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspension hanger rod</td>
<td>Suspend primary channel from soffit</td>
</tr>
<tr>
<td>Suspension channel</td>
<td>Provides primary support and lateral restraint</td>
</tr>
<tr>
<td>Spring tee bar (Triangle type)</td>
<td>Provides support for clip-in tile flanges, Suspend below suspension channel</td>
</tr>
<tr>
<td>Wire connecting clips</td>
<td>For coupling</td>
</tr>
<tr>
<td>Primary channel brackets</td>
<td>To suspend the primary channels using hangers</td>
</tr>
<tr>
<td>Butterfly clip</td>
<td>Provide easy plenum height adjustment</td>
</tr>
<tr>
<td>L-Trim</td>
<td>22 x 19.5mm - 0.48 thick</td>
</tr>
<tr>
<td>U-Trim</td>
<td>30 x 50 x 30mm - 0.48 thick</td>
</tr>
</tbody>
</table>

HUMIDITY

LIGHT REFLECTANCE
USG BORAL ME CLIP IN

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>TOTAL THICKNESS</th>
<th>EDGE DETAIL</th>
<th>NRC</th>
<th>COLOUR</th>
<th>SUSPENSION OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-11 (6)(7)(8) R (10)(10)(06)</td>
<td>Clip-in panel 300x300mm Alum, Plain</td>
<td>0.60/0.70/0.80mm</td>
<td>Beveled</td>
<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
</tr>
<tr>
<td>ACPA1-11 (6)(7)(8) R (10)(10)(06)</td>
<td>Clip-in panel 300x300mm Alum, Perforated</td>
<td>0.60/0.70/0.80mm</td>
<td>Beveled</td>
<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
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</tr>
<tr>
<td>AC-22 (6)(7)(8) R (10)(10)(06)</td>
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<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
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<tr>
<td>SC-22 (6)(7) R (10)(10)(06)</td>
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<td>0.50/0.60mm</td>
<td>Beveled</td>
<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
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<tr>
<td>SCPA1-22 (6)(7) R (10)(10)(06)</td>
<td>Clip-in panel 600x600mm Steel, Perforated</td>
<td>0.50/0.60mm</td>
<td>Beveled</td>
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<tr>
<td>AC-14 (8)(9)(10) R (10)(10)(06)</td>
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<td>0.80/0.90/1.0mm</td>
<td>Beveled</td>
<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
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<tr>
<td>ACPA1-14 (8)(9)(10) R (10)(10)(06)</td>
<td>Clip-in panel 300x1200mm Alum, Perforated</td>
<td>0.80/0.90/1.0mm</td>
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<td>0.85-0.90</td>
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<tr>
<td>AC-15 (8)(9)(10) R (10)(10)(06)</td>
<td>Clip-in panel 300x1500mm Alum, Plain</td>
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<td>Beveled</td>
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<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
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<tr>
<td>AC-24 (8)(9)(10) R (10)(10)(06)</td>
<td>Clip-in panel 600x1200mm Alum, Plain</td>
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<td>0.85-0.90</td>
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<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
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<tr>
<td>AC-44 (14) R (10)(10)(06)</td>
<td>Clip-in panel 1200x1200mm Alum, Plain</td>
<td>1.4mm</td>
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<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
</tr>
<tr>
<td>ACPA1-44 (14) R (10)(10)(06)</td>
<td>Clip-in panel 1200x1200mm Alum, Perforated</td>
<td>1.4mm</td>
<td>Beveled</td>
<td>0.85-0.90</td>
<td>RAL9016/9010/9006</td>
<td>Carrier Connection</td>
</tr>
</tbody>
</table>

PERFORATION PATTERNS

The provided thickness in the above table is the Total Coated Thickness (TCT), which includes the Base Material Thickness (BMT) + the thickness of the paint. Panels may be supplied either plain or in a range of perforation patterns with a nominal 12mm plain border. Illustrated below are the most widely used patterns and plain border dimensions are available on request.

PERF 1 - OPEN AREA: 5.5%

PERF 2 - OPEN AREA: 4.5%

The open area of the patterns is as follows:

- Pattern A (Open area: 19.5%)
- Pattern B (Open area: 10%)
- Pattern C (Open area: 5.5%)
- Pattern D (Open area: 4.5%)

Customized patterns are available upon request.

CUT VIEW DETAILS

Perforation of round hole OD 2.3mm is available on the sizes 300 x 300mm, 300x1200mm and 300x1500mm.
# SYSTEM USG BORAL ME LAY-IN CEILINGS

## PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>TOTAL THICKNESS</th>
<th>EDGE DETAIL</th>
<th>NRC</th>
<th>COLOR</th>
<th>SUSPENSION OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALN-11 (6X7X8) R (16X10X06)</td>
<td>Lay-in panel 300x300mm Alum, Plain</td>
<td>0.60/0.70/0.80mm</td>
<td>FL</td>
<td>0.45-0.90</td>
<td>RAL9006/9010/9006</td>
<td></td>
</tr>
<tr>
<td>ALPA1N-11 (6X7X8) R (16X10X06)</td>
<td>Lay-in panel 300x300mm Alum, Perforated</td>
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<tr>
<td>SLN-22 (6X7) R (16X10X06)</td>
<td>Lay-in panel 600x600mm Steel, Plain</td>
<td>0.50/0.60mm</td>
<td>FL</td>
<td>0.45-0.90</td>
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<td>SLPA1N-22 (6X7) R (16X10X06)</td>
<td>Lay-in panel 600x600mm Steel, Perforated</td>
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<td>FL</td>
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<tr>
<td>ALN-24 (8X9X10) R (16X10X06)</td>
<td>Lay-in panel 600x1200mm Alum, Plain</td>
<td>0.80/0.90/1.0mm</td>
<td>FL</td>
<td>0.45-0.90</td>
<td>RAL9006/9010/9006</td>
<td></td>
</tr>
<tr>
<td>ALPA1N-24 (8X9X10) R (16X10X06)</td>
<td>Lay-in panel 600x1200mm Alum, Perforated</td>
<td>0.80/0.90/1.0mm</td>
<td>FL</td>
<td>0.45-0.90</td>
<td>RAL9006/9010/9006</td>
<td></td>
</tr>
<tr>
<td>ALW-11 (6X7X8) R (16X10X06)</td>
<td>Lay-in panel 300x300mm Alum, Plain</td>
<td>0.60/0.70/0.80mm</td>
<td>SL</td>
<td>0.45-0.90</td>
<td>RAL9006/9010/9006</td>
<td></td>
</tr>
<tr>
<td>ALPA1W-11 (6X7X8) R (16X10X06)</td>
<td>Lay-in panel 300x300mm Alum, Perforated</td>
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<td>0.45-0.90</td>
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<td></td>
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<td>ALW-22 (6X7X8) R (16X10X06)</td>
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<td>ALPA1W-22 (6X7X8) R (16X10X06)</td>
<td>Lay-in panel 600x600mm Alum, Perforated</td>
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<td>0.45-0.90</td>
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<td></td>
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<tr>
<td>SLW-22 (6X7) R (16X10X06)</td>
<td>Lay-in panel 600x600mm Steel, Plain</td>
<td>0.50/0.60mm</td>
<td>SL</td>
<td>0.45-0.90</td>
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<td>SLPA1W-22 (6X7) R (16X10X06)</td>
<td>Lay-in panel 600x600mm Steel, Perforated</td>
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<td></td>
</tr>
</tbody>
</table>

## T24 LAY-IN PANEL DETAIL

![T24 LAY-IN PANEL DETAIL](image1)

## T15 LAY-IN PANEL DETAIL

![T15 LAY-IN PANEL DETAIL](image2)

## SPECIFICATIONS

**SYSTEM USG LI 200 LAY-IN METAL CEILINGS**

- **ITEM NO.**
- **DESCRIPTION**
- **TOTAL THICKNESS**
- **EDGE DETAIL**
- **NRC**
- **COLOR**
- **SUSPENSION OPTION**

### Edge Details
- **FL**
- **SL**

### NRC
- 0.45-0.90

### Color
- **RAL9016/9010/9006**

### Suspension Options
- **Option 1- DX/DXL Exposed T24 Grid Imperial**
- **Option 2- DXLT15 Exposed T15 Grid Metric**
Panels may be supplied either plain or in a range of perforation patterns with a nominal 12mm plain border. Illustrated below are the most widely used patterns and plain border dimensions are available on request.

**DESCRIPTION**

USG Boral Lay-in System is a demountable tile, flush or regular effect system which is particularly suitable for commercial, retail and display areas, where access to the ceiling void is required. Designed to lay in an exposed grid suspension system, either DX, DXT, DXF, OMEGA grid, to form flush or Tegular suspended metal ceiling.
- Strong modular or flush appearance
- A range of module sizes
- Simple to install
- Head fixing
- Sealed-in acoustic infills

**ACCESS**

Tiles can be simply lifted out of the suspension system to gain access to the ceiling void.

**SHAPE**

Tiles are squares or rectangulars with formed edges to rest on the flanges of the grid system.

**SYSTEM MODULES SIZES**

Standard nominal tile sizes: 300x300mm, 600x600mm and 600x1200mm.

**LOCATION AND RELOCATION OF PARTITIONING**

The continuous linear thread form allows the easy location and relocation of partition heads by means of a M6 bolt, without causing damage to the ceiling. To maintain the acoustic attenuation performance, the partitioning contractor in the threaded recess should insert a gasket across the width of the partition head.

**PERFORATION PATTERNS**

<table>
<thead>
<tr>
<th>Pattern A (Open area: 19.5%)</th>
<th>Pattern B (Open area: 10%)</th>
<th>Pattern C (Open area: 5.3%)</th>
<th>Pattern D (Open area: 4.5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset round perforation OD 18 mm</td>
<td>Offset round perforation OD 18 mm</td>
<td>Offset round perforation OD 18 mm</td>
<td>Offset round perforation OD 18 mm</td>
</tr>
</tbody>
</table>
APPLICATION GUIDE
SPECIFICATIONS

PART 1: GENERAL

1.1 SUMMARY

Description of Work: Work of this Section includes, but is not limited to, the following:
- Metal ceiling panels.
- Metal suspension systems.
- Accessories.

1.2 SUBMITTALS

Product Data: Submit manufacturer’s specifications and installation instructions with Project conditions Submittals materials clearly identified or detailed for each required system.

1.3 REFERENCES

1. ASTM C635:
   Standard specifications for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

2. ASTM C636:
   Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-in Panels.

3. ASTM E119:

4. ASTM C423:
   Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

5. ASTM E84:
   Fire Hazard Classification.

1.4 QUALITY ASSURANCE

1. Reference Standards:
   - ASTM C635, Standard Specifications for Metal Suspension Systems
   - ASTM Recommended Practice for Installation of Metal Suspension Systems.

2. Submittals:
   Samples: Submit actual samples and technical data for suspension system main tees and cross tees for review.

3. Manufacturer’s Data:
   System Details: Submit manufacturer’s catalogue cuts or standard drawing showing the system’s details with project conditions clearly identified and manufacturer’s recommended installation instructions.

1.5 DELIVERY, STORAGE AND HANDLING

1. Delivery:
   - Deliver materials to site promptly without undue exposure to weather
   - Deliver in manufacturer’s unopened containers or bundles, fully identified by name, brand, type and grade

2. Inspection:
   Promptly inspect delivered materials, file freight claims for damage during shipment, and order replacement materials as required. Any damaged materials shall be promptly removed from the job site

3. Storage:
   - Store above ground in dry, ventilated space.
   - Protect materials from soiling, rusting and damage.

4. Handling:
   Handle in such manner to avoid racking, distortion or physical damage of any kind.

1.6 PROJECT CONDITIONS

Environmental Requirements:
Do not install the system or any parts until space is enclosed and the weatherproof, wet-work is completed and dry, in addition to the completion of the work above installation, and the maintenance of the space temperature and humidity as designed for occupancy.
1. **General:**
Coordinate with other work including mechanical and electrical works and partition systems. Installation of conduit and ductwork above suspension system shall be complete before installation of the suspension system.

2. **Protection:**
   - Follow good safety and industrial hygiene practices during handling and installing all the products and systems with personnel to take necessary precautions and wear appropriate personal protective equipment as needed.
   - Read Material Safety Data Sheets and related literature for important information on products before installation.
   - Contractor will be solely responsible for all personal safety issues during and subsequent to the installation; the architect, specifier, owner and manufacturer will rely on contractor’s performance in such regard.

---

### PART 2: MATERIALS

1. **Clip-in metal ceiling panels:**
   Manufactured by USGBORAL ME, Dammam in compliance with the applicable ASTM Standards.

2. **Panel finishes**
   - Refer to page 5 for materials description, size, patterns and finish availability.
   - Refer to page 4 for Accessories and Suspension systems.

3. **Metal lay-in ceiling panels:**
   - Manufactured by USGBORAL ME, Dammam, in compliance with the applicable ASTM Standards.
   - Panel finishes:
     Refer to page 5 for size, patterns and finish availability.
     Refer to page 6 for materials description.
PART 3: EXECUTION

3.1 GENERAL


3.2 INSPECTION

1. Examine the areas where the ceiling panels are received for conditions that will adversely affect installation. Provide written report on the discrepancies.
2. Do not start work until unsatisfactory conditions are corrected.
3. Work to be concealed: Verify work above ceiling is complete and installed in a manner that will not affect the layout and installation of ceiling panels.
4. Beginning of installation shall signify acceptance of conditions in areas to receive ceiling panels.
5. Fire-rating requirements: Construction above fire-rated assembly shall meet requirements of UL Design specified in 2: Products.

Field dimensions must be verified prior to installation.

3.3 PREPARATION

3.4 INSTALLATION

1. Standard reference: Install ceiling panels and suspension system, including necessary hangers, grillage, splines, and other supporting hardware, in accordance with ASTM C636, and any applicable code requirement.
2. Manufacturer’s reference: Install ceiling panels in exposed grid systems supported on all edges, in accordance with the manufacturer’s warranty.
3. Drawing reference: Install ceiling panels in accordance with the approved shop drawings.
4. Hanger Wires:
   • Spacing: Space hanger wires on main tees not more than 1.200 mm o.c. a maximum of 1200 mm o.c, attaching hangers directly to the structure above, or as required to support loads
   • Limitations: Do not support wires from mechanical and/or electrical equipment, piping or other equipment occurring above ceiling.
5. Accessories: Install accessories as applicable to meet the project requirements.
6. Install edge moldings and trim of the type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.
7. Install suspension system runners, so that they are shaped as a square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
8. Panels.
   • For Clip-In panels: install by clipping panels to the underside of the Spring T. After installation, leave 10 removal tools for maintenance.
   • For Lay-in panels: Install by dropping panels down into grid frame from above.
1. Suspension System: Remove panel material and perform any necessary cleaning maintenance with non-solvent based commercial cleaner.

2. Immediately remove any corrosive substances or chemicals that would attack painted finishes (i.e. wallpaper adhesives).

3. Touch up all minor scratches and spots, as acceptable, or replace damaged sections when touch-up is not permitted.

4. Painting: Repainting of suspension member shall be with high-quality solvent based enamel paint and applied as recommended by the paint manufacturer. Ceiling panels may be touched-up by spraying thinned, non-bridging vinyl-acrylic flat wall paint. The type of paint selected and the method of application can alter the acoustical performance and fire ratings of any acoustical product. Therefore, USGBORAL ME cannot guarantee that the field-painted panels will match the published performance.

5. Removal of debris: Remove all debris resulting from work on this section.