About USG Boral

WHO WE ARE

USG Boral is a leading manufacturer and supplier of gypsum-based wall and ceiling lining systems, mineral fiber ceiling systems, metal framing, high performance panels, compounds and accessories in Asia, Australia and the Middle East.

USG Boral was established in 2014 when Boral Limited and USG Corporation, two giants in the global building industry, formed a 50/50 joint venture.

Boral, headquartered in Sydney, is Australia’s largest construction materials supplier. Boral has been in operations for over 70 years, and produces and distributes a wide range of products including quarry materials, concrete, bricks, cementitious materials, roof tiles, timber, asphalt, plasterboard, pavers and retaining walls.

USG, headquartered in Chicago, is North America’s leading producer of gypsum boards, joint compounds and related products for the construction and remodeling industries. USG, which has been in business for more than 110 years, is also the global leader in ceiling suspension systems and is recognized as the premier acoustical panel and specialty ceiling systems innovator.

OUR PURPOSE

We exist to contribute to improving the lives of our employees, our customers and our communities.

People need buildings that are safe, environment-friendly, comfortable and beautiful. Architects and construction companies need more efficient ways to build. Building owners need better running buildings with lower operating costs.

At USG Boral, we are committed to developing building solutions that answer these needs.

INNOVATION INSPIRED BY YOU™

One way to improve life is to innovate. The best innovations start with a focus on what is needed and how it will benefit the industry. At USG Boral, our mission is to deliver innovation that helps our customers work smarter, do more and build better.

Through an ever-growing portfolio of groundbreaking products backed by unparalleled service at USG Boral, we empower our customers to build their business. And we’ve done so through investing in purposeful innovation, expanding into different markets and constantly searching for ways to increase performance and productivity.
# USG BORAL STANDARD AND TECHNICAL BOARDS

<table>
<thead>
<tr>
<th></th>
<th><strong>STANDARD</strong></th>
<th><strong>UNISPAR</strong></th>
<th><strong>ECHOSTOP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Standard is composed of a gypsum core encased in heavy duty paper lining that is durable and environment-friendly.</td>
<td>Unispar is a cost effective alternative to 12mm gypsum board ceiling linings.</td>
<td>Echostop is a sound absorptive perforated gypsum board available in either square, round or slotted design perforations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dimensions</strong></th>
<th>4 ft x 8 ft</th>
<th>4 ft x 8 ft</th>
<th>1200 mm x 2400 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness</strong></td>
<td>9 mm</td>
<td>10 mm</td>
<td>1/2 in = 12.7 mm</td>
</tr>
<tr>
<td><strong>Edge Profile</strong></td>
<td>Recessed</td>
<td>Recessed</td>
<td>Recessed</td>
</tr>
<tr>
<td><strong>Paper Surface Color</strong></td>
<td>Gray</td>
<td>Gray</td>
<td>Light Yellow</td>
</tr>
</tbody>
</table>

| **Application** | Walls and ceilings of residential and commercial buildings | Ceiling lining | Retail stores, restaurants, offices, schools and other areas where sound absorption is required |

<table>
<thead>
<tr>
<th></th>
<th><strong>FIRESTOP</strong></th>
<th><strong>WETSTOP</strong></th>
<th><strong>WETSTOP + FIRESTOP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Firestop is recommended for partition wall and ceiling systems where specific fire-resistance ratings are required.</td>
<td>Wetstop is the latest advancement in water resistant gypsum board lining.</td>
<td>Wetstop + Firestop was developed specifically for use in wet area fire-rated partition systems.</td>
</tr>
</tbody>
</table>

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<td><strong>Edge Profile</strong></td>
<td>Recessed</td>
<td>Recessed</td>
<td>Recessed</td>
</tr>
<tr>
<td><strong>Paper Surface Color</strong></td>
<td>Pink</td>
<td>Green</td>
<td>Pink</td>
</tr>
</tbody>
</table>

| **Application** | Fire-rated wall and ceiling systems | Wet areas such as bathrooms and laundry areas | Wet area fire-rated partitions in commercial constructions |
USG BORAL COMPOUNDS

USG Boral manufactures and supplies an extensive range of high-quality and consistent joint compounds including bedding and base compounds, finishing, patching and skim compounds to transform your gypsum board joints, angles and fastener heads into one seamless surface.

**PREMIUM JOINTING**

USG Boral Premium Jointing is a plaster-based, all purpose compound especially designed for flush jointing gypsum board, internal/external angles and fastener heads.

**PREMIUM PREMIX**

USG Boral Premium Premix is a lightweight, premixed, vinyl-based, air drying compound used for finishing gypsum board joints, internal/external angles, and fastener heads.

**PAPER TAPE**

As a paper reinforcing tape, USG Boral Paper Tape is well famed for strengthening and fine-tuning the joints of interior drywall panels while preventing visible cracking.

<table>
<thead>
<tr>
<th>Description</th>
<th>Net Weight</th>
<th>Drying/Setting Time</th>
<th>Shelf Life</th>
<th>Mixing Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premium Jointing</td>
<td>20 kg</td>
<td>45 minutes (depending on local conditions)</td>
<td>9 months</td>
<td>1:2 (water to powder)</td>
</tr>
<tr>
<td>Premium Premix</td>
<td>28 kg</td>
<td>12-24 hours (depending on local conditions)</td>
<td>9 months</td>
<td>1:2 (water to powder)</td>
</tr>
<tr>
<td>Paper Tape</td>
<td>-</td>
<td>-</td>
<td>9 months</td>
<td>-</td>
</tr>
</tbody>
</table>

**Features**

**EASE OF USE**

- Easy to mix, and no lumps
- Easy to apply under shear pressure
- Fast drying time
- Easy to sand

**PERFORMANCE**

- Excellent bond to paper tape or joint strength
- Low shrinkage
- High Coverage
- High strength and resists tearing
- No stretch and wrinkles
- Superior center crease
- Easier corner finish

* Note: The 9 month shelf life indicated for the products on this page applies if the products are stored strictly following USG Boral’s storage instructions.

SHEETROCK® EASY COAT™

Sheetrock® Easy Coat™ is a plaster-based, setting type compound formulated for use over interior masonry, brick, block, concrete and pre-cast surfaces to level uneven walls. Easy Coat™ be can used in place of cement render.

- Net weight: 25 kg
- Mixing ratio: 1:2 (water to powder)
- Working time: 45 minutes
- Setting time: 80 minutes
- Application thickness: 5 mm to 50 mm
- Estimated coverage: 4.08 sqm @ 5mm thick or 1.70 sqm @ 15mm thick
- Shelf life: 9 months

**Features**

- Strong bond for lasting quality
- Formulated for a smooth finish that can be directly painted over
- Designed to minimize cracks
- Excellent coverage compared to cement render

SHEETROCK® EASY SKIM™

Sheetrock® Easy Skim™ is a plaster-based setting type compound, designed for interior skim coating of multiple surfaces such as gypsum boards, masonry, concrete and pre-cast walls and ceilings.

- Net weight: 25 kg
- Mixing ratio: 1:2 (water to powder)
- Working time: 80 minutes
- Setting time: 120 minutes
- Application thickness: 2 mm to 5 mm
- Estimated coverage: 12.5 sqm @ 2mm thick
- Shelf life: 9 months

**Features**

- Easy application over masonry, gypsum and precast wall
- Fine smooth matte white finish
- Excellent coverage

PREMIUM CORNICE

USG Boral Premium Cornice is a high-strength bonding compound formulated for adhering decorative cornices to walls and ceilings.

- Net weight: 20 kg
- Setting time: 30 minutes
- Shelf life: 9 months

**Features**

- High adhesion
- Excellent wet tack
- Smooth finish

PREMIUM CASTING

USG Boral Premium Casting is used mainly to cast plaster products such as cornices, corbels and other decorative moulding.

- Net weight: 20 kg
- Setting time: 10 minutes
- Shelf life: 9 months

**Features**

- Easy mixing
- Excellent wet working time
- Smooth pearly white finish

* Note: The 9 month shelf life indicated for the products on this page applies if the products are stored strictly following USG Boral’s storage instructions.
### USG Boral Acoustic and Laminated Ceiling Panels

**Impressions™ Climaplus™**
- **Description**: USG Boral’s most popular fine-fissured non-directional pattern which gives a cleaner and whiter ceiling appearance. The panels are easy to install, have low VOC emissions, and are resistant to mold and mildew.
- **Noise Reduction Coefficient (NRC)**: 0.60
- **Ceiling Attenuation Class (CAC) - Minimum**: 33
- **Light Reflectance**: 0.84
- **Thicknes**: 16 mm
- **Dimensions**: 600 mm x 600 mm
- **Edge Profile**: Fineline bevel
- **Humidity and Sag Resistance**: Yes
- **Application**: Offices, retail spaces, warehouses, schools, showrooms, restaurants

**Olympia Micro™ Climaplus™**
- **Description**: With micro perforations that provide a smoother look and suitable sound absorption, Olympia Micro™ Climaplus™ panels offer upscale appearance at a mid-range price.
- **Noise Reduction Coefficient (NRC)**: 0.50
- **Ceiling Attenuation Class (CAC) - Minimum**: 30
- **Light Reflectance**: 0.88
- **Thickness**: 16 mm
- **Dimensions**: 600 mm x 600 mm | 600 mm x 1200 mm
- **Edge Profile**: Shadowline tapered
- **Humidity and Sag Resistance**: Yes
- **Application**: Classrooms, hotels, reception and lobby areas, restaurants and retail stores.

**Mars™ Climaplus™**
- **Description**: Mars™ Climaplus™ panels are especially manufactured to maximize sound control and anti-sag performance. They have a high light-reflective finish (LR-.89) that reduces the need for light fixtures allowing for a decrease in energy consumption. Mars™ Climaplus™ panels are impact and scratch resistant, and may be washed and scrubbed.
- **Noise Reduction Coefficient (NRC)**: 0.70
- **Ceiling Attenuation Class (CAC) - Minimum**: 35
- **Light Reflectance**: 0.89
- **Thickness**: 19 mm
- **Dimensions**: 600 mm x 600 mm | 600 mm x 1200 mm
- **Edge Profile**: Square edge
- **Humidity and Sag Resistance**: Yes
- **Application**: Corridors, department stores, reception areas, lobbies and general office spaces.

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**USG Boral** is a global leader in the manufacture of ceiling suspension systems and is recognized as a premier acoustical panel and specialty ceilings innovator. We provide creative building solutions that set new standards for productivity and efficiency, helping contractors and architects deliver high quality and innovative designs.

From light reflectance to sound reduction, durability to aesthetics, you’ll find the perfect panel or tile for your ceiling projects.
USG BORAL EASYFINISH™ SYSTEM

USG Boral’s EasyFinish™ Systems are customized cement plaster replacement systems that are designed to offer a solution to site finishing application and performance issues that have troubled installers, contractors, developers and property owners.

These innovative systems are tried and tested up to severe duty classification. USG Boral EasyFinish™ systems allow contractors to achieve smooth walls in a fraction of the time required for traditional wall leveling methods such as cement rendering.

USG Boral EasyFinish™ Bond and Solid combines USG Boral gypsum board and a specially formulated bonding compound to ensure that the partitions are smooth and durable.

**Types of Systems**

**USG Boral EasyFinish™ Bond System**
- For those requiring a smooth wall over masonry and quick installation

**USG Boral EasyFinish™ Frame System**
- For those requiring a true surface on masonry wall

**USG Boral EasyFinish™ Solid System EasyTrowel™ Application**
- For those requiring a smooth rock-solid wall

**USG Boral EasyFinish™ Solid System EasyScoop™ Application**
- For those requiring a smooth, solid wall

**ADVANTAGES AND BENEFITS**
- Smooth walls
  - Flat and smooth walls
  - Joint treated with USG Boral proprietary compounds for a seamless finish
- Solution for irregular walls
  - Achieve straight and accurate alignment of walls
  - Eliminate wavy walls
- Minimises cracking reworks
  - Reduce unsightly cracks that happens in most cement render finishes
  - Deliver projects on time
- Ease of installation
  - Fast and easy to install
  - Jobsites remain dry and clean
- Severe duty performance
  - Achieves severe duty performance for large body, soft body, small body and hard body impact for EasyFinish Solid application
  - Excellent load hanging capacity
- Warranted performance
  - Backed by the high-quality standards and outstanding service of USG Boral
  - Limited warranty for USG Boral EasyFinish™ Systems
  - Green construction
USG BORAL WALL INSTALLATION GUIDE

Tools and Materials Required

- Type S and D gypsum screws
- Power tool
- Wall Track
- Deflection Head Track
- C Stud

Application Steps

Step 1: Install C studs vertically along wall ends. Fasten studs to wall using applicable fasteners spaced at 100mm (maximum), rest at 500mm (maximum).

Step 2: Transfer floor track alignment to ceiling. Install ceiling track or deflection head tracks, similar with step 1.

Step 3: Fasten floor tracts using applicable fasteners at no more than 100mm from wall; rest at no more than 600mm.

Step 4: Install intermediate C studs, spaced at maximum of 610mm using 12mm thick USG Boral Standard board. The studs open face should face a single direction.

Step 5: Fasten gypsum boards to metal frames on a staggered manner. Fasten at sheet ends using Type S or D gypsum screws spaced no more than 200mm on centers. It is recommended to provide, at least, 10mm gap at gypsum board top and bottom.

Step 6: Stagger screw locations at sheet ends to provide fastening space for the screws.

Step 7: Space screws at 300mm maximum in the field.

Step 8: Use USG Boral Premium Jointing and Premium Premix and paper tape to have a complete jointing system.
USG BORAL CONCEALED CEILING INSTALLATION GUIDE

Tools and Materials Required

- Type S and D gypsum screws
- Power tool
- Wall angle
- Top cross rail
- Furring channel
- Locking key
- Hanger rod
- Suspension rod bracket
- Adjustable suspension clip

Application Steps

Step 1: Fasten wall channel or wall angle based on the established ceiling finish line at 50mm, initial, and rest at 600mm on center maximum.

Step 2: Install sofit brackets/roof brackets. Start 300mm, maximum, from the face of the wall; rest spaced at 1200mm maximum.

Step 3: Install suspension rod, adjustable suspension clips and top cross rail (TCR)/primary carrying channel. The sofit and ceiling brackets may be used as reference.

Step 4: Install furring/secondary framing perpendicular to top cross rail/primary carrying channel. Please refer to the table of secondary frame spacing.

Step 5: Install gypsum boards perpendicular to the secondary framing on a staggered pattern. Fasten using Type D or S gypsum screw at 300mm spacing on center.

Step 6: Apply jointing using USG Boral Premium Jointing, Premium Premix and Paper Tape to achieve the desired level of finish.

NOTE:

- It is recommended to provide additional

SECONDARY FRAME SPACING

<table>
<thead>
<tr>
<th>USG Boral Gypsum Board Types</th>
<th>Furring Channel Maximum Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 mm Standard Board</td>
<td>406 mm</td>
</tr>
<tr>
<td>12 mm Standard Board</td>
<td>610 mm</td>
</tr>
<tr>
<td>10 mm Unispan</td>
<td>610 mm</td>
</tr>
</tbody>
</table>
**JOINTING AND FINISHING INSTALLATION GUIDE**

**Tools Required**

- Joint knife
- Trowel
- Sanding paper

<table>
<thead>
<tr>
<th>USG BORAL RECOMMENDED JOINT SYSTEM TO ACHIEVE LEVEL 4 FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>USG Boral Level 4 Joint Finish System over Gypsum Board</td>
</tr>
<tr>
<td>USG Boral Paper tape</td>
</tr>
</tbody>
</table>

1ST COAT

2ND COAT

FINISHING COAT

**USG BORAL JOINT SYSTEM TO ACHIEVE LEVEL 4 FINISH**

<table>
<thead>
<tr>
<th>USG Boral Level 4 Joint Finish System over Gypsum Board</th>
<th>Standard All Purpose Joint Finish</th>
<th>Professional Joint Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>USG Boral Paper tape</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Steps**

**Step 1:** First coat - Fill any gaps in joints with base compound prior to the taping process and fill recessed joint with a layer of base compound using a flexible 150mm broadknife.

**Step 2:** First coat - Centre and press the paper tape into the base compound using a 150mm broadknife, drawing along the joint with sufficient pressure to remove excess compound.

**Step 3:** First coat - Apply a skim coat of compound to fill the recess and spot fastener heads.

**Step 4:** Second coat - Allow sufficient time for the first coat of base compound to set then apply a second coat of base compound approximately 200mm wide. Feather joint edges.

**Step 5:** Finishing coat - Using a trowel, apply a coat of finishing compound approx 250mm wide, feathering out approximately 25mm beyond edges of the basecoat.

**Step 6:** Dry sanding - Use a curved trowel on the finishing coat to produce a slight convex curve. Feather out the edges.

**Recessed joint system:** Follow coating width application for recessed joint system

**Square joint system:** Follow coating width application for square joint system

**NOTES:**

- Allow 24 hours or completely dry (longer in cold, wet weather conditions). Vertical joints should be kept a minimum of 200mm from the edge of openings.
- When dry, lightly sand to a smooth finish with sanding mesh or 150-220 grit paper, depending on sanding hardness of finishing compound used.

The term ‘level of finish’ applies to plasterboard linings prior to decoration. As per ASTM C840 Application and Finishing of Gypsum Board defines three levels of finish: 3, 4 and 5.

Level 4 is the default level of finish for gypsum board linings, unless specified otherwise. It is essential that the level of finish is determined at the design stage since each level has specific requirements for substrate tolerances and gypsum board installation, jointing and finishing.
At the 16th Annual Globa Gypsum Conference and Exhibition (Bangkok, Thailand), which is the largest and most established event in the gypsum industry, USG Boral was awarded three prominent industry awards. Our excellence in innovation was also recognized at the 2016 Home Timber and Hardware Group National Conference (Gold Coast, Australia) when we were honoured with the prestigious Innovation of the Year Award for our Sheetrock® gypsum boards.