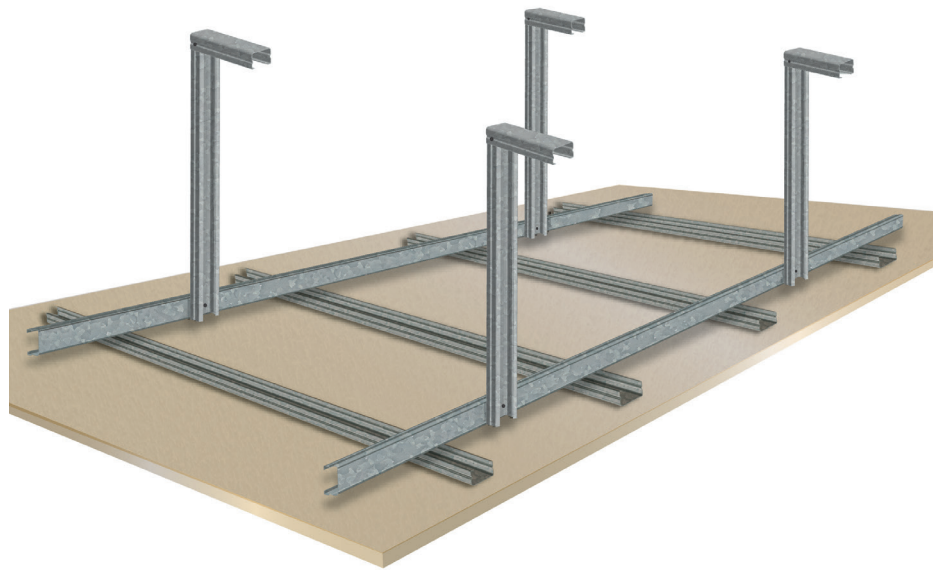


SINGAPORE

USG BORAL SHEETROCK® BRAND SYNIA INSTALLATION SYSTEM



GENERAL

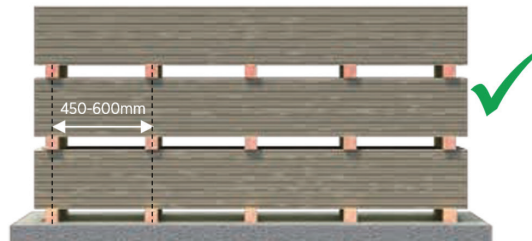
- 1.1 USG Boral Sheetrock® Brand Synia plasterboard has a re-engineered, lightweight core with USG Boral's innovative Sag-Defying Strength™ formulation. The panels have a superior sag resistance performance that allows for greater spans.
- 1.2 The non-combustible gypsum core encased in 100% recycled face and back papers.
- 1.3 The panels have four-sided tapered edges when installed for easy finishing when used with USG Boral's jointing compounds.
- 1.4 Complies with international standards such as BS EN 520, or equivalent local standard for physical properties.
- 1.5 Ensure the use of qualified Type 6 Needle Point bugle head drywall screws typically used for metal studs.
- 1.6 Metal trims and beads are recommended for protection and a neat finish appearance for edges, window or door openings.
- 1.7 USG Boral Paper Joint Tape is a high-strength paper tape that is lightly pre-creased and designed specifically for use with USG Boral Joint Compounds to provide optimum performance.
- 1.8 Refer to the USG Boral Interior Finishes Technical Manual for detailed finishing recommendations.

DELIVERY AND JOB-SITE STORAGE

- 2.1 All materials shall be delivered in their original, unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements.

Warning: Store all USG Boral SHEETROCK® Brand plasterboard panels flat, unless the site manager directs vertical stacking to avoid point overloading of the floor structure or a tripping hazard. Unstable panel stacking can fall over, causing serious injury or death. Do not move unless authorized.

- 2.2 Prevent face, back and edges of panels from exposure to cascading water.
- 2.3 Plasterboards should be stored in neat, flat stacks off the ground in a covered area to prevent sagging and minimize damaging board edges and surfaces. Plasterboard stacking supports should be spaced at no more than 600mm centers.
- 2.4 If storing outdoors, stack sheets on a level, moisture-free platform, and keep them completely protected against the weather. Ensure the platform can support a load up to 800kg/m³ density. Plasterboard stacking supports should be spaced at no more than 600mm centers.



LIMITATIONS

- 3.1 Avoid exposure to sustained temperatures exceeding 50°C.
- 3.2 Maximum framing spacing is 24" (610mm) centers.
- 3.3 Intended for interior applications only and must be kept dry during handling and storage. Please see USG Boral installation guidelines.
- 3.4 Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed-up and application of interior finishing. Insulation in the wall or floor cavities must be dry.

FRAMING

- 4.1 Measure out the hanger spacings according to the table below.

Property	Hangers	Main Runners	Secondary Runner
Spacing (mm)	900	900	610

- 4.2 Cut the ceiling batten to the desired length for use as hangers and snip the flange before securing it with a screw (Figure A).
- 4.3 Anchor the return leg to the soffit (Figure B).

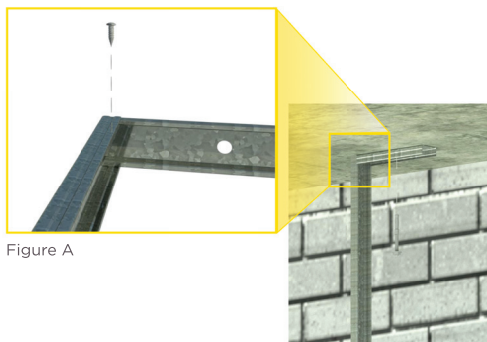


Figure A

Figure B

FRAMING CONT.

- 4.4 Place the main runner (back-to-back) and secure them with a screw. Ensure that the screw is not over-driven (Figure C).

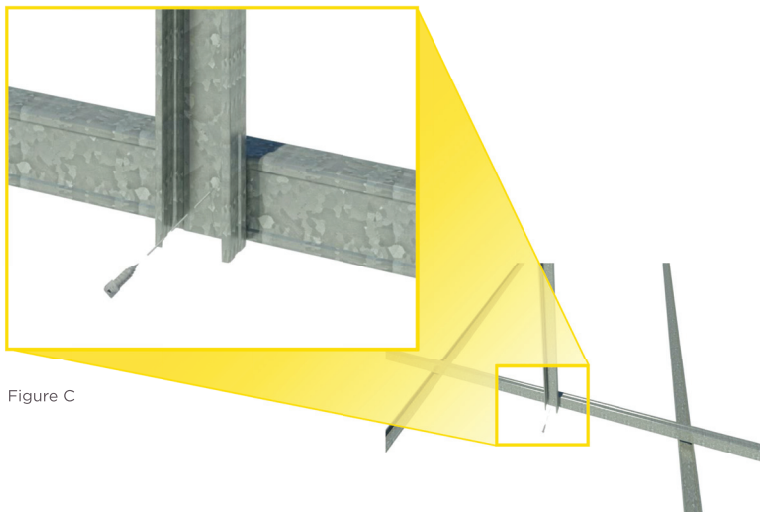


Figure C

- 4.5 Run the secondary runners perpendicular to the main runners and use a screw to attach them together (Figure D).

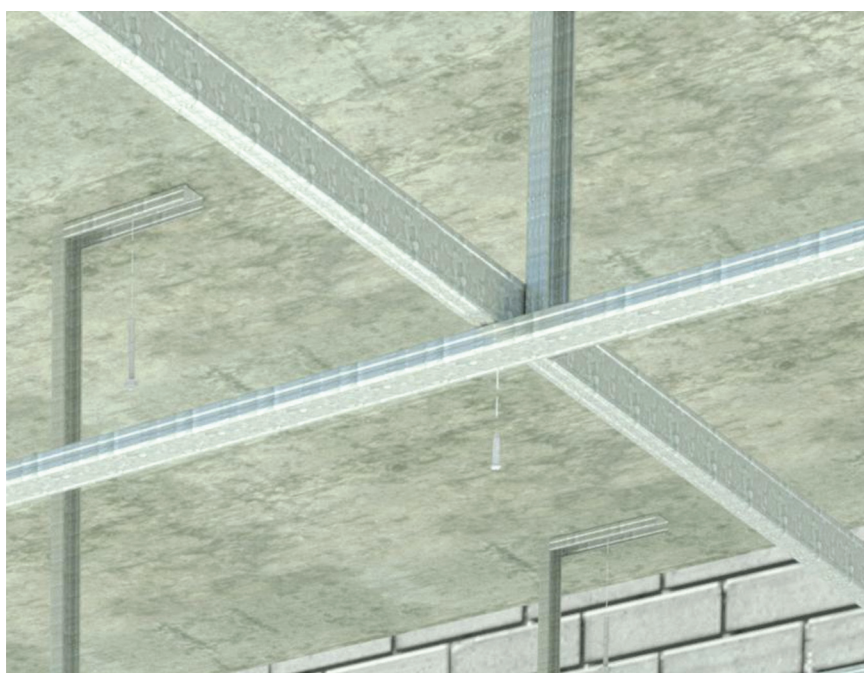
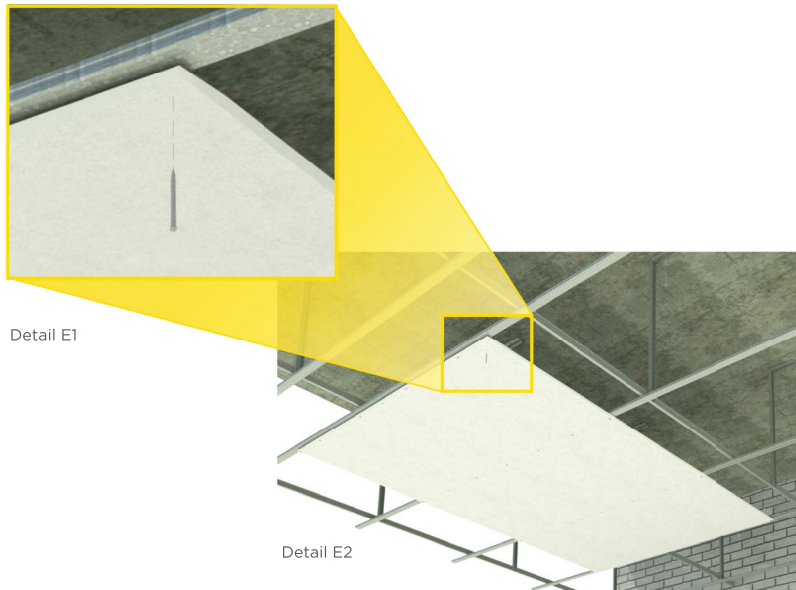


Figure D

PLASTERBOARD CUTTING AND APPLICATION

- 5.1 Place panel with ivory-colored face paper side up. Measure and mark the panel to the desired size.
- 5.2 Line up straightedge or T-square with the marks and hold firmly against the panel. Draw pencil line as a guide for scoring. Score through paper and lightly into core. Wear a glove on your holding hand to protect yourself.
- 5.3 To break the panel core, securely grasp the board edges on both sides of the score line and snap the board with a quick, firm movement. Use a utility knife with sharp blade for scoring. Complete cutting by running knife through back paper for the length of the panel and snapping back to face.
- 5.4 After cutting the panel, smooth the cut edge with a drywall rasp or sandpaper wrapped around a block of wood. Be sure the keep edge as square as possible. Always wear a dust mask when sanding.
Tip: Plasterboards may bend and break under their own weight. Be sure to adequately support the panels prior to scoring.
- 5.5 Apply plasterboard sheets with recessed edges at right angles to framing members.
- 5.6 Begin fastening screw from the centre of the board head or tail, keeping 10 to 15mm from the edges to avoid edge cracking. Distance between the perimeter screw to be minimum 200mm (Figure E).



- 5.7 Screw spacings can be extended to 300mm at the non-perimeter areas.
- 5.8 The plasterboards should be installed in a staggered configuration.
- 5.9 Panels must be installed in a perpendicular direction to the secondary runner frame.
- 5.10 In single layer systems, butt joints must be between framing members and back-blocked. All recessed joints in an area containing three or more joints must also be back-blocked.

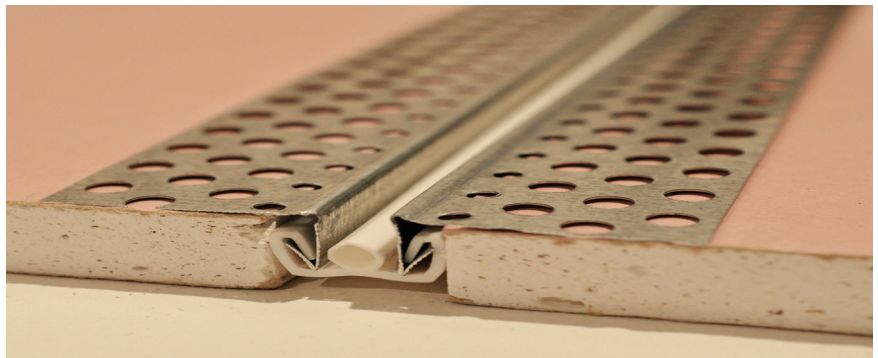
JOINT TREATMENT AND FINISHING

- 6.1 It is essential that the level of finish is determined at the design stage since each level has specific requirements for substrate tolerances and plasterboard installation, jointing and finishing. The desired level of finish may not be achieved unless all of these requirements are met through various stages of construction.
- 6.2 USG Boral recommends the use of USG Boral joint compounds and the three-coat jointing system using paper tape to achieve the best joint strength.
- 6.3 Refer to USG Boral's Interior Finishes Technical Manual for details and recommendations.
- 6.4 For priming and decorating with paint, texture or wall covering, follow manufacturer's directions or recommendations.
- 6.5 If using semi-gloss or gloss paint, it is recommended that plasterboard surface is finished to a Level 5 standard as these paints tend to highlight surface variations.

For Levels of Finish please refer to USG Boral Plasterboard Installation manual.

CONTROL JOINTS

- 7.1 Control joints in internal ceilings should be placed at 12m (maximum) intervals in both directions (15m intervals in ceilings with perimeter relief).
- 7.2 Control joints must be provided over movement joints in the substrate or structural elements and at every change of lining or substrate material.
- 7.3 Control joints in non-fire rated ceilings can be formed by fitting Rondo P35 Control Joint Bead.



Rondo P35 Control Joint Bead

CLEAN UP

- 8.1 Leftover material shall be removed from the job site.
- 8.2 Waste material shall be disposed of in a safe manner and in compliance with site, local, state and/or federal requirements.

Warning

Products described here may not be available in all geographic markets. Consult your USG Boral sales office or representative for information.

Safety First!

This technical information is intended to provide general information and should not be a substitute for professional building advice. We recommend you use a qualified person to install USG Boral products. Illustrations in this guide are only representative of USG Boral products and the appearance and effects that may be achieved by their use. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website (USGBoral.com) .

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

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