

SONUS AND STRATA



Armstrong Metric Drywall Grid **Framing** **Installation Principles: Ceilings**



Version 4
Armstrong DGS Framing for Sonus & Strata Installation Principles: Ceilings
As of November 23rd, 2019

For technical assistance, please contact:

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PREPARATION

LAYOUT:

Prior to installing the Gypsoorb ceiling system on Armstrong Metric DGS framing, determine the best layout for your space.

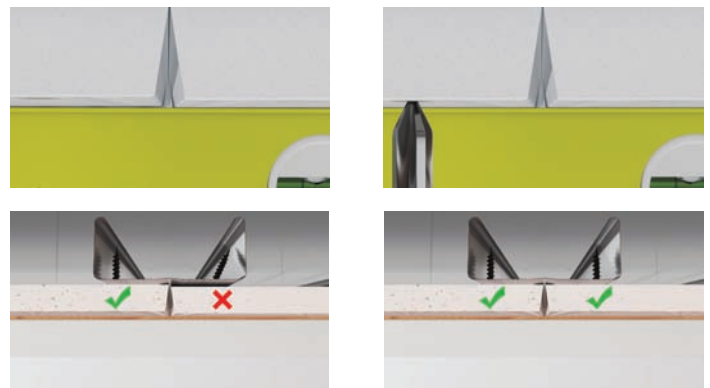
- Minimize joints – most perforation patterns have multiple board sizes available allowing for optimal layout options.
- Lighting direction – we recommend aligning the Gypsorb panels to run in the same direction as the lighting source.



FRAMING:

Gypsoorb Ceilings should not be installed directly to wood framing or structural framing members. A secondary framing system must be used. To ensure a quality installation, we have developed a framing system which has been designed to maintain a smooth, continuous mounting surface specifically for Gypsoorb perforated panels.

There must be NO metal or screw build up. The Armstrong DGS system has been designed to keep the framing components flush and free from build up. **The Gypsoorb panels must lie flush and co-planar on the framing in order to receive a proper finish.**



NOTES

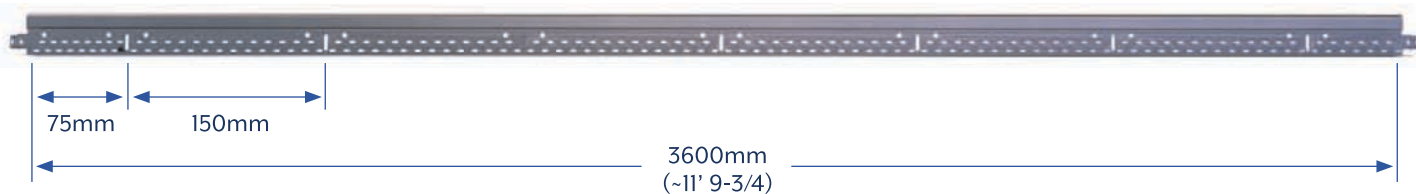
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FRAMING INSTALLATION

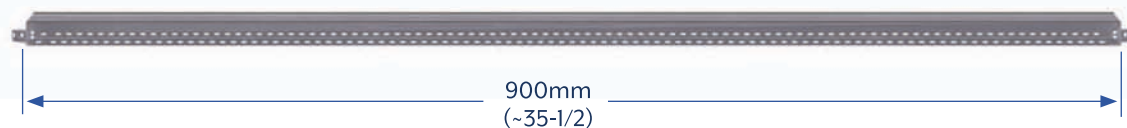


Gypso**rb**'s Sonus and Strata boards can now be installed on the Armstrong Metric Drywall Grid System. The assembly consists of Armstrong's 3600mm main tee with routes every 150mm, the 900mm cross tee and wall angle. The system is able to accommodate the varying sized Gypso**rb** boards through the use of our patented DWG-60 Clip and precision sized FC-60-861 Channel.

Armstrong DGS Main Runner #7940G (nominal 12' length)



Armstrong DGS 900mm Cross Tee #XL7925 (nominal 3') length



FRAMING INSTALLATION



COMPLETE COMPONENT SET*

=

**1 FC-60-861 Furring Channel
2 DWG-60 Clips**

Armstrong / GypSorb Components	Consumption
Arm. 7940G	1 piece / 40 s.f.
Arm. XL7925	1 piece / 3 s.f.
1-5/8" Track	As Needed

GypSorb Blocking Assembly = GBA²

GypSorb FC-60-861	~1 piece per	1.25 pieces / board (1 pc. / board) (if using 900mm wide board, only 1 GBA per board needed)
GypSorb DWG-60 Clip	~ 2 pieces per	

***If you are ordering a COMPLETE COMPONENT SET, you must order 1.25 sets per board installed**

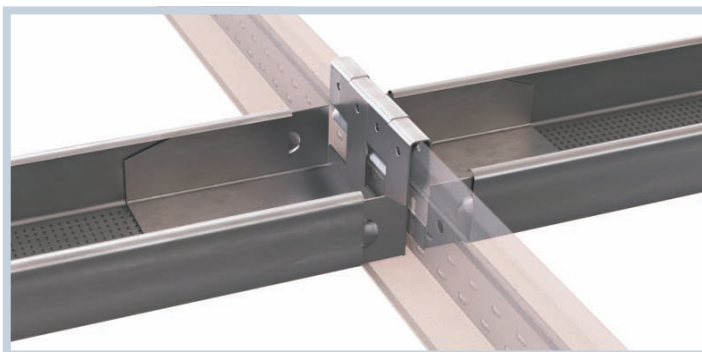
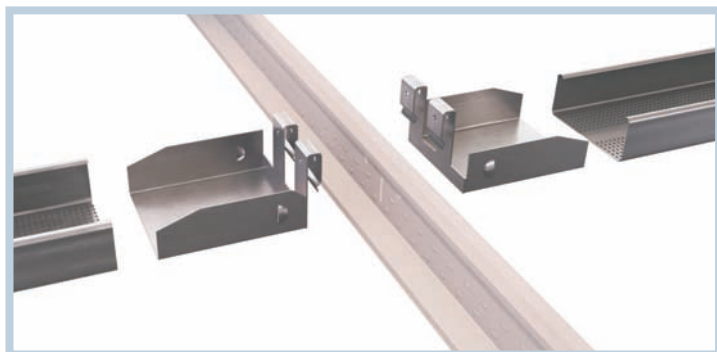
²GYPSORB BLOCKING ASSEMBLY: For use with Armstrong Metric Drywall Grid.

Please contact your local Armstrong Dealer to purchase the Armstrong Metric DGS

*GYPSORB COMPLETE COMPONENT SET BLOCKING ASSEMBLY CONNECTION

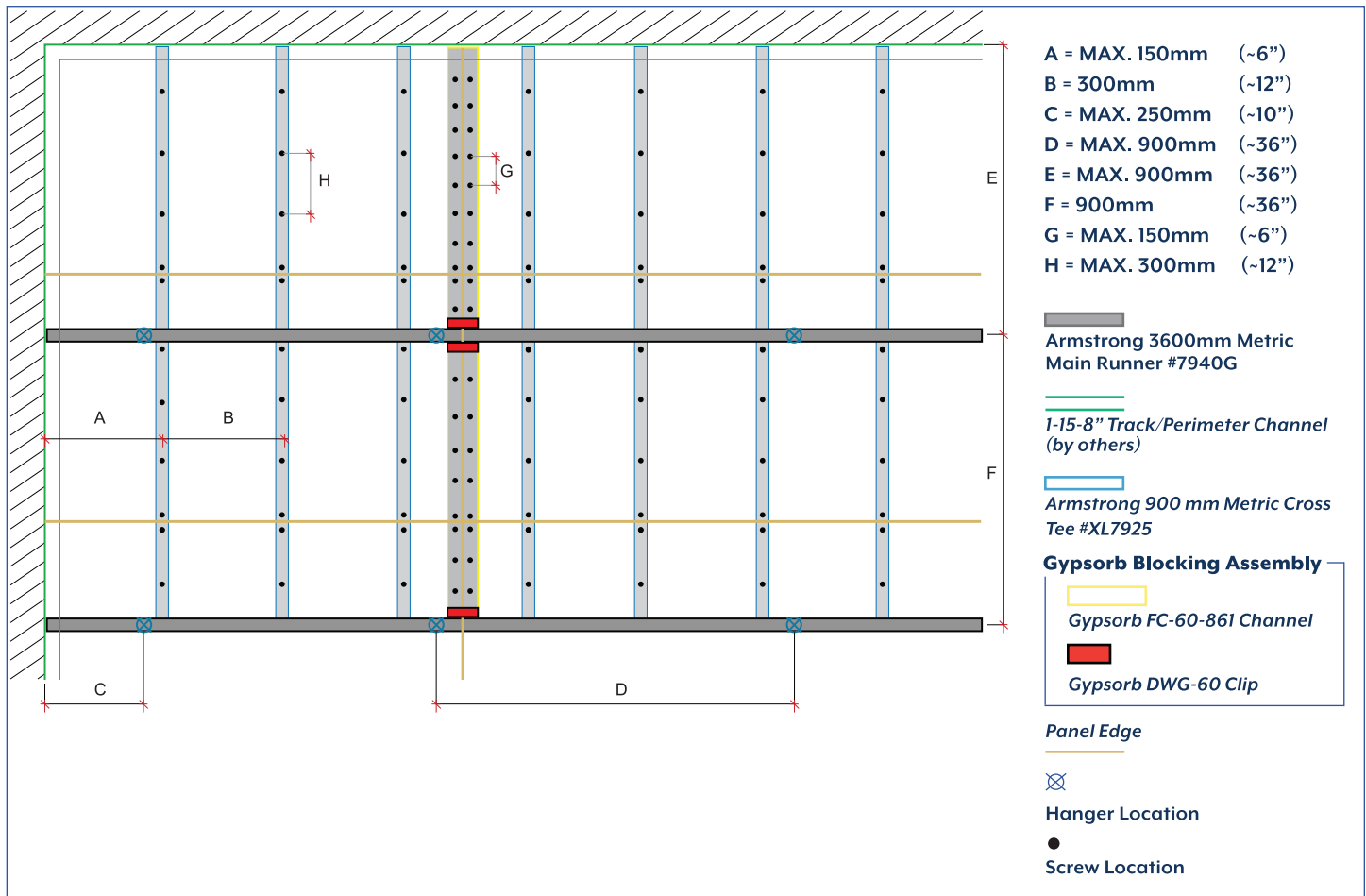
The GBA consists of one piece of FC-60-861 Furring Channel and two pieces of DWG-60 Clips.

Insert one clip into each end of the furring channel to create one assembly as seen below in assembly photos.



Failure to use GBA may void manufactures warranty

FRAMING INSTALLATION



PRIMARY FRAMING / PERIMETER TRIM

- Install 1-5/8" track/perimeter channel 1/2" above the desired finished ceiling plane.
- Install Armstrong Metric Main Runners #7940G 1/2" above the desired finished ceiling plane at 900mm (~36") on center. The main tees should terminate approximately 1/8" from the wall and rest inside the perimeter channel.

ATTACHING CROSS TEES AND DWG-60 ASSEMBLY

- Spacing for the #XL7925 cross tees shall be 300mm (~12").
- Joints for all boards should be aligned and not staggered
- Insert one Gypsoorb Blocking Assembly* between the main runners at each short edge of the Sonus/Strata panel.
- Insert at least one screw through the pre drilled hole at the top of the DWG-60 clip and fasten to the bulb of the main runner. This will prevent the assemble from lifting while screwing the Gypsoorb to the framing.
- The screw surface of the Armstrong Metric DGS and the Gypsoorb FC-60 Channel must be kept flat and uninterrupted as not to create a change in elevation for the panels.



SONUS AND STRATA BOARD INSTALLATION

BOARD PREPARATION:

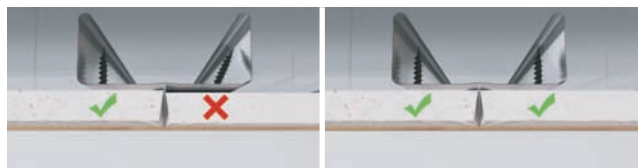
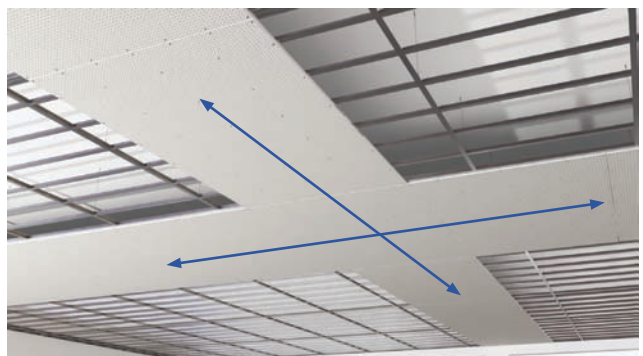
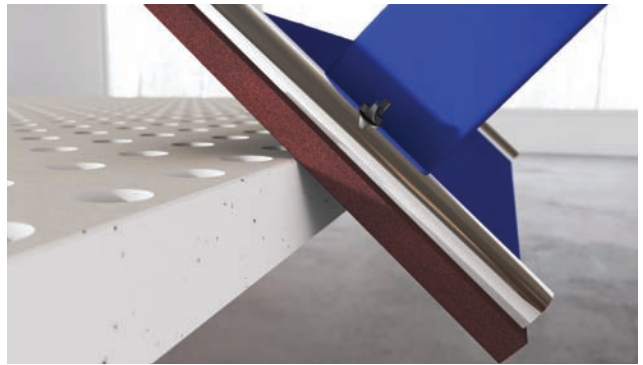
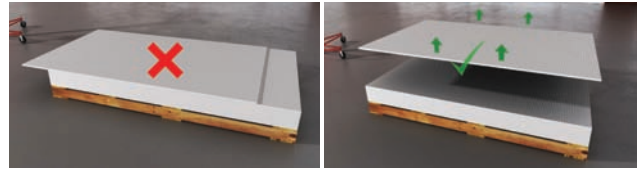
- Remove board from pallet being sure to lift straight up and not sliding in order to avoid peeling away the acoustical scrim.
- Using a sanding block and a medium grade sandpaper, remove the hard edge on **all** four sides of the face of the board.
- Factory edges on most board sizes and patterns should be primed already. If not, make sure **all** four exposed sides of the board are primed using a drywall primer to ensure proper bond of the Gypsoorb joint filler.

ACOUSTICAL BATTS

- Prior to installing the Gypsoorb Boards, install any additional specified acoustical batt / blanket into the framing cavities.

BOARD INSTALLATION

- Establish the board layout in the room. Insert the Gypsoorb blocking assemblies where the joints of the short edges of each panel are projected to fall (do not screw into position until the location of the short joints are firmly established). Position the first board in the venter of the room, aligning it perpendicular to the Armstrong DGS Main Tees. It is recommended to temporarily install a straight edge guide to the framing in order to assist with aligning the first row of boards (align to the long edge of the panel). Position the Gypsoorb blocking assembly so the center of the assembly falls on the center line of the panel joint. At this time, you can fasten the blocking assemblies once the short joint locations have been confirmed.
- Remove temporary guide and install subsequent boards. It is recommended to install boards perpendicular to the first row to create a "cross" pattern. From there, proceed to fill in each quadrant of the ceiling working from the middle towards the perimeter. Gypsoorb panels must be installed in a directional fashion. The print on the long edge of the board should be facing the same direction for **all** panels when installed.
- Each Gypsoorb Sonus or Strata Board must be spaced and aligned appropriately before being fastened to the framing. To do so, utilize the spacer tool which can be found in the installation kit (Sonus panels only). Visually check alignment after each board is installed to ensure the pattern remains consistent.
- Each Gypsoorb panel **MUST** be flush and co-planar. After each board is installed, check for flush by using a straight edge at various locations along the joints. If necessary, small adjustments can be made by backing out the screws in low areas.
- Board edges may be either V (Skewed Edges) or FF (Tab Edges) depending on the pattern and board size selected. V Edges are skewed on **all** four sides. FF edges will have a tab edge on one short side and one long side providing approximate spacing without the need of a spacer tool. It is, however, recommended that a spacer tool still be utilized in order to ensure exact spacing and alignment.
- Secure each board (using standard drywall screws) starting at the center of the board working your way to outwards towards the edges, making sure to keep each screw 1" from the edge of the board and spacing every 6" on the perimeter and 12" in the field.



SONUS AND STRATA BOARD FINISHING



GYPSORB READY MIX JOINT FILLER

Gypsoorb Ready Mix Joint Filler is the new ready-to-use filler developed to facilitate installation of Gypsoorb Sonus and Strata ceilings. In addition to the significant savings in time and increased efficiency achieved by eliminating numerous application steps associated with the traditional joint filler (mixing, cleaning bucket), Gypsoorb Ready Mix keeps the worksite cleaner.

IMPLEMENTATION

Gypsoorb Ready Mix Filler is used with the Gypsoorb Ready Mix Kit. No cleaning is required between applications (with the exception of the nozzle).

PROCESS:

- Flush-scraping joints after 1 h
- Sanding after 12 to 24 h (depending on humidity)

THE GYPSORB READY MIX KIT



- 1 Gypsoorb Ready Mix gun
- 2 Gypsoorb Ready Mix caps
- 1 Gypsoorb Ready Mix scraper
- 2 Gypsoorb Ready Mix nozzles
- 1 Gypsoorb Ready Mix spatula (for covering screw heads)
- 1 Gypsoorb Ready Mix brush

CHARACTERISTICS

Application Temperature	5 to 35°C
Storage	6 months (sausage pack closed) away from frost
Color	white

CONSUMPTION

Each Gypsoorb Ready Mix insert will cover between 75 to 86 s.f. (7-8 M2) of Gypsoorb Sonus or Strata panels depending on the module size. Each carton of Gypsoorb Ready Mix contains 12 inserts.

FEATURES:

- Easy and quick to apply
- No mixing, no cleaning
- No shrinkage

SONUS AND STRATA BOARD FINISHING



PREPARING THE FILLER

- Take a GypsoSorb Ready Mix insert and place it into the GypsoSorb Ready Mix gun, close the gun, squeeze the trigger to force the filler out of the nozzle.

APPLYING THE FILLER

- Apply GypsoSorb Ready Mix Filler with the GypsoSorb Ready Mix extruder gun. Ensure that the joints are overfilled (ceiling void side and visible side) after running along the joint with the gun.

PREPARING THE JOINTS FOR FINISH

- After about an hour, remove the excess joint filler from the joints by using the GypsoSorb Ready Mix Scraper Tool. Then, gently compress the material into the joint with your finger to create a slight concave which will receive a final coat of finish compound.

FINISHING

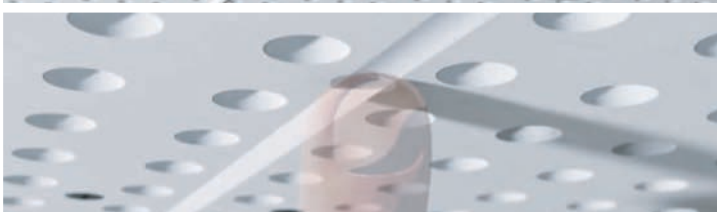
- Apply finishing / topping compound to the joints (such as WestPac Green Dot) with a putty knife. If masking tape is used, be sure to use a paper safe tape so that the finish paper on the GypsoSorb panels does not tear when removing.
- At this time, cover the drywall screw heads with standard finish compound using the GypsoSorb Ready Mix Spatula as a guide to prevent filling in any of the perforations.

SANDING / PAINTING

- After about 12 to 24 hours, depending on the humidity of the room, lightly sand the surface with very fine sandpaper to remove any last residue.

The surface is now ready to be painted.

Use only a low nap paint roller.



SONUS AND STRATA BOARD INSTALLATION

APPENDIX

FILLING PERFORATIONS:

The installation of Gypsoorb Perforated Gypsum Acoustic Panels may require the filling and finishing of some of the panel perforations to achieve the required aesthetic look of the completed system.

To fill Gypsoorb panel perforations follow these recommendations:

Spray the perforations to be filled with a deep primer prior to fill-ing. Fill the selected perforations with a Setting-Type Joint Com-pound / Hot Mud. It may be helpful to mask off areas you do not wish to fill with a low tack painters tape. Immediately after filling the perforations, clean the surface of the Gypsoorb panel so it is free from any compound. After the Setting-Type Compound / Hot Mud has fully cured, use a finish compound to fill the perforations flush with the panel face and allow to dry. Gently sand around the filled perforations and then apply any additional coats of Ready-Mix Joint Compound as needed to achieve a uniform, flat finish. Sand as necessary for a smooth finish.

The Gypsoorb panels can then be painted in accordance with the specified finish.

SONUS AND STRATA MAINTENANCE & UPKEEP

APPENDIX

MAINTENANCE & UPKEEP:

Gypsorb perforated gypsum panels are designed for use under normal conditions of 70% relative humidity and 77°F.

Cleaning Gypsorb panels can be accomplished using a dry duster or vacuum cleaner. Removal of marks depends on the paint used on site, although a damp cloth using normal cleaning practices and a neutral cleaning solution is normally suitable for minor marks. In the case of stubborn marks or if in doubt, refer to the paint manufacturer's recommendations.

In the event a mark or stain can not be removed, it is recommended to repaint the surface using the original paint used during installation. DO NOT spray the paint onto the panels as overspray will cover the acoustical scrim. Use a low nap roller to apply paint.

Gypsorb perforated gypsum panels are NOT recommended for use in active plenum locations—Ducted HVAC systems are suggested.