



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



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

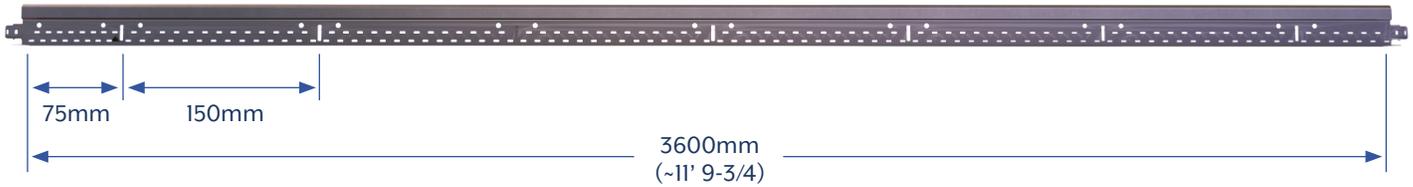
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ARMSTRONG METRIC DRYWALL GRID **FRAMING INSTALLATION**



GypSorb'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 GypSorb 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



ARMSTRONG METRIC DRYWALL GRID **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**

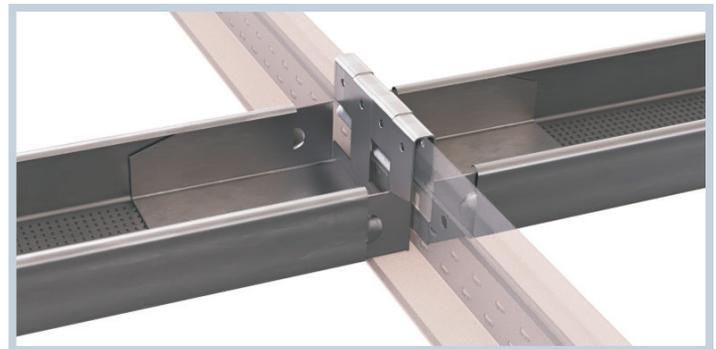
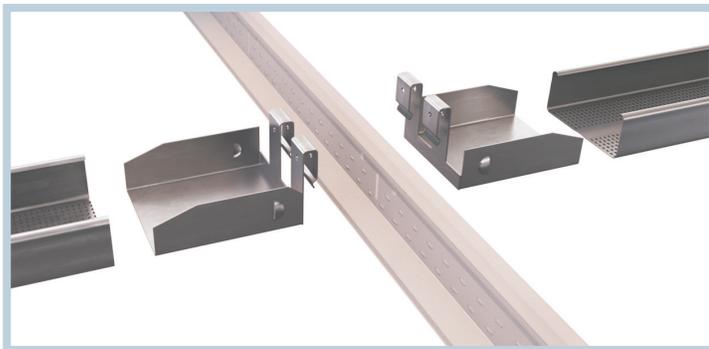
²GYP-SORB BLOCKING ASSEMBLY: For use with Armstrong Metric Drywall Grid.

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

*GYP-SORB COMPLETE COMPONENT SET BLOCKING ASSEMBLY CONNECTION

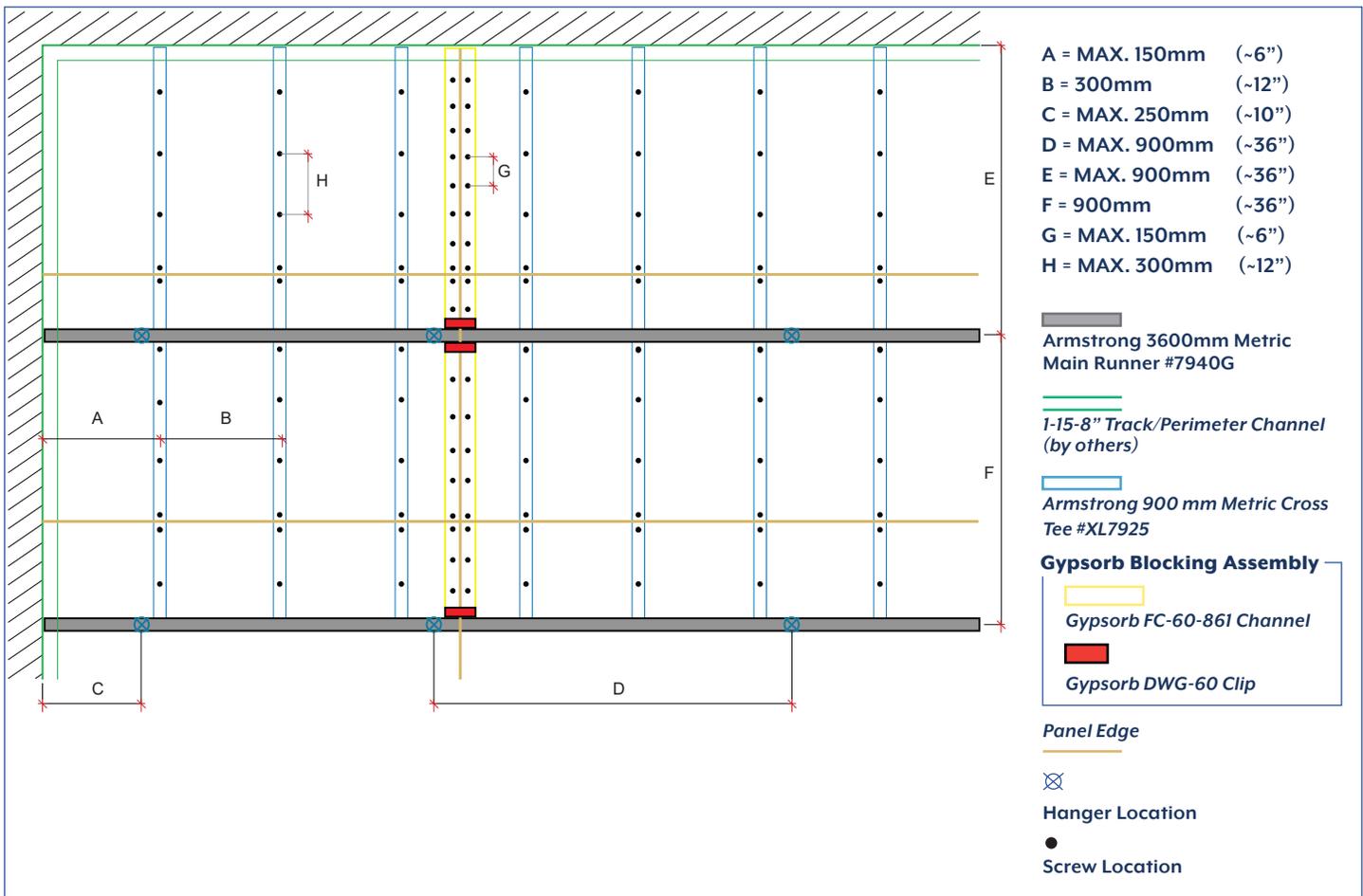
The GBA consists of one piece of FC-60-861 Furring Channel and two pieces of DWG-60 Clips.

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

ARMSTRONG METRIC DRYWALL GRID 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 GypSorb 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 GypSorb to the framing.
- The screw surface of the Armstrong Metric DGS and the GypSorb 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

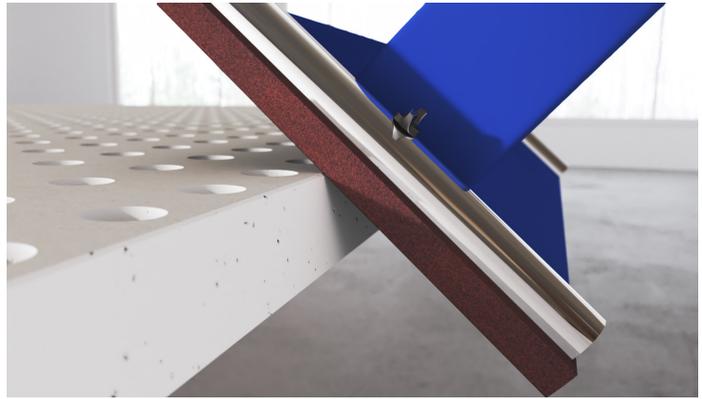
BOARD PREPARATION:

- 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 Gypsorb joint filler.



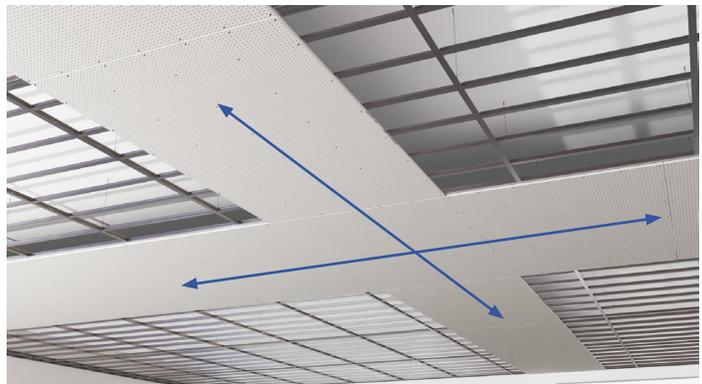
ACOUSTICAL BATTS

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



BOARD INSTALLATION

- Establish the board layout in the room. Insert the Gypsorb 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 center 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 Gypsorb 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. Gypsorb 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 Gypsorb 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 Gypsorb 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

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

IMPLEMENTATION

GypSorb Ready Mix filler is used with the GypSorb 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 GypSorb Ready Mix gun
- 2 GypSorb Ready Mix caps
- 1 GypSorb Ready Mix scraper
- 2 GypSorb Ready Mix nozzles
- 1 GypSorb Ready Mix spatula (for covering screw heads)
- 1 GypSorb Ready Mix brush

CHARACTERISTICS

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

CONSUMPTION

Each GypSorb Ready Mix insert will cover between 75 to 86 s.f. (7-8 M2) of GypSorb Sonus or Strata panels depending on the module size. Each carton of GypSorb 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 GypSorb Ready Mix insert and place it into the GypSorb Ready mix gun, close the gun, squeeze the trigger to force the filler out of the nozzle.

APPLYING THE FILLER

- Apply GypSorb Ready Mix filler with the GypSorb 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 GypSorb 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.

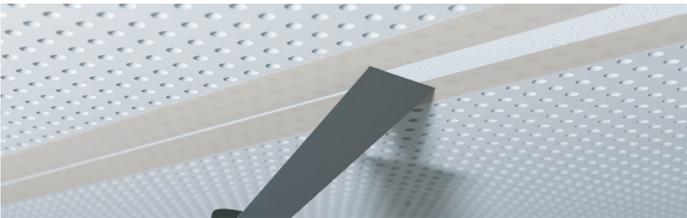
FINISHING

- 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 GypSorb panels does not tear when removing.
- At this time, cover the drywall screw heads with standard finish compound using the GypSorb 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 the last residues.

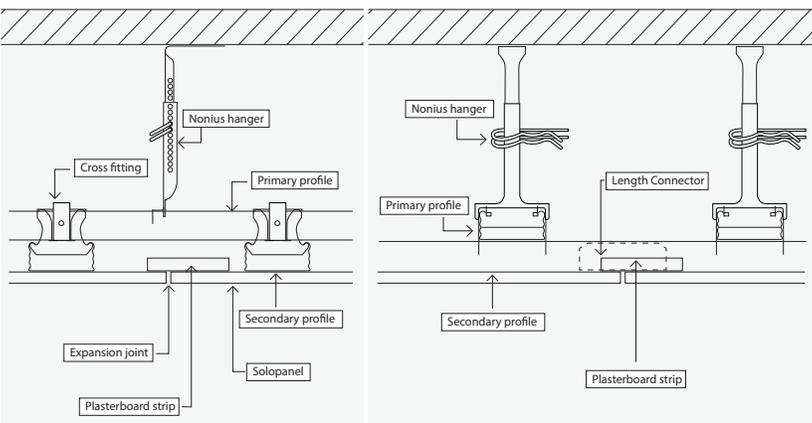
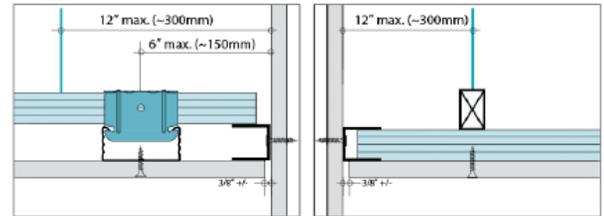
The surface is ready to be painted, by a low nap roller only.



Preparation

TYPICAL PERIMETER DETAIL:

To compensate for tolerances in the main structure, it is recommended to install non-perforated, 1/2" gypsum sheets with cut edges around the periphery of the structure. The boards should be joined straight edge to straight edge and not tapered edge to straight edge. Bevel the non-perforated, 1/2" gypsum board and prime the same as the perforated board edges. **DO NOT** fasten the Armstrong Main Tees or Cross Tees to the perimeter track.



EXPANSION / CONTROL JOINTS:

Ceilings exceeding 2500 sq. ft. in area, and partition, wall, and wall-furring runs exceeding 30 ft. all require control joints. Do not exceed 50 ft. between ceiling control joints in either direction. Install a control joint wherever ceiling framing or furring changes direction. Do not exceed 30 ft. between control joints in walls or wall furring. Be sure to install a control joint where an expansion joint occurs in the base of an exterior wall. Wall or partition height door frames may serve as control joints. Whenever possible, ensure that control joints coincide with any building control joints.

NOTE: Where a control joint occurs in an acoustically rated assembly, provision may be necessary to block the sound at the joint opening by using backing material, such as gypsum board, mineral fiber or equivalent, or filling the void created with resilient insulating material.

Metric To Imperial Conversion Table

Metric Board Size	Imperial Conversion (inches)	Total S.F. / Board
900 X 2400	35.43 X 94.49	23.25
900 X 2700	35.43 X 106.30	26.15
1188 X 1980	46.77 X 77.95	25.32
1188 X 1998	46.77 X 78.66	25.55
1188 X 2394	46.77 X 94.25	30.61
1188 X 2700	46.77 X 106.30	34.53
1188 X 2706	46.77 X 106.54	34.60
1196 X 2001	47.09 X 78.78	25.76
1196 X 2691	47.09 X 105.95	34.65
1200 X 1875	47.24 X 73.82	24.22
1200 X 1980	47.24 X 77.95	25.57
1200 X 2000	47.24 X 78.74	25.83
1200 X 2400	47.24 X 94.49	31.00
1200 X 2500	47.24 X 98.43	32.29
1200 X 2700	47.24 X 106.30	34.87

Sonus and Strata Board installation

FILLING PERFORATIONS:

The installation of GypSorb 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 GypSorb 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 Compound / 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 GypSorb 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 GypSorb panels can then be painted in accordance with the specified finish.

Maintenance & Upkeep

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.