

SONUS AND STRATA



StreamLINE-DFC **Framing** **Installation Principles:** *Ceilings*



Version 4
StreamLINE-DFC Framing for Sonus & Strata Installation Principles: Ceilings
As of July 23rd, 2019

For technical assistance, please contact:

206.571.5710

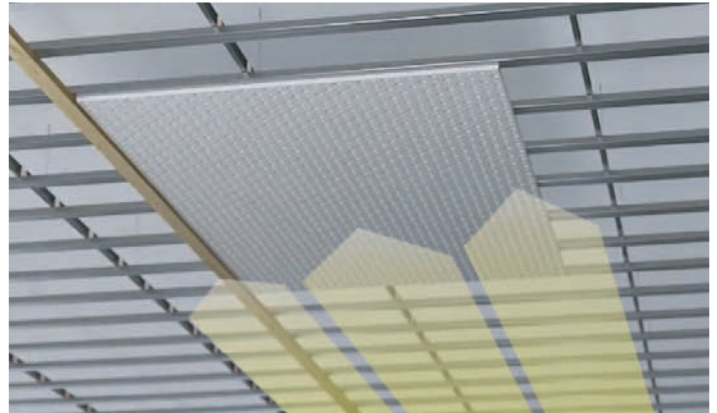
tech@gypsorb.com

PREPARATION

LAYOUT:

Prior to installing the Gypsoorb ceiling system on *StreamLINE* 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.
- Gypsorb panels must be installed so that the long edge of each panel runs perpendicular to the Gypsorb FC-60 Furring Channel.

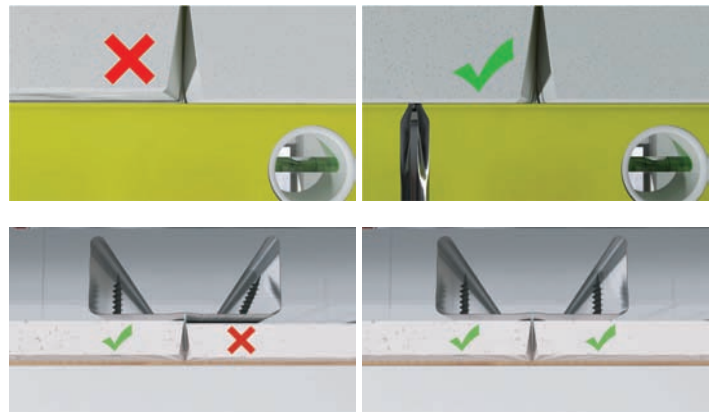


FRAMING:

GypSorb Sonus and Strata panels should not be installed directly to wood framing or structural framing members. A secondary framing system must be used.

The Gypsoorb panels must lie flush and co-planar on the framing in order to receive a proper finish. There should be NO metal or screw build up on the face of the framing.

To ensure a quality installation, we have developed the Gypso**rb** *StreamLINE* DFC system which was designed to maintain a smooth / flush and continuous mounting surface that can be attached directly to joists or other existing substrates.

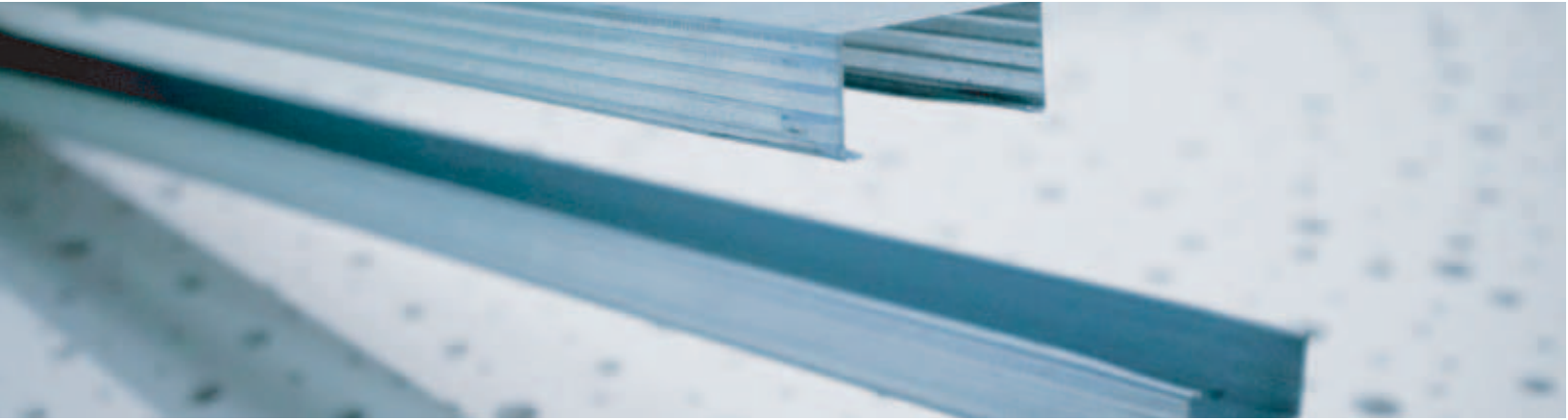


We recommend contacting Gypsorb prior to installation.

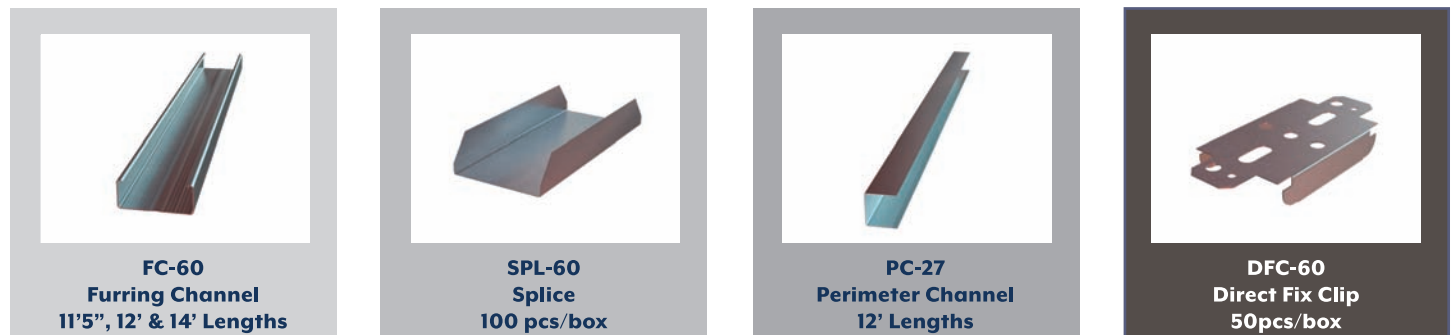
NOTES

This image shows a single sheet of white paper with horizontal blue lines, resembling notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

StreamLINE FRAMING INSTALLATION



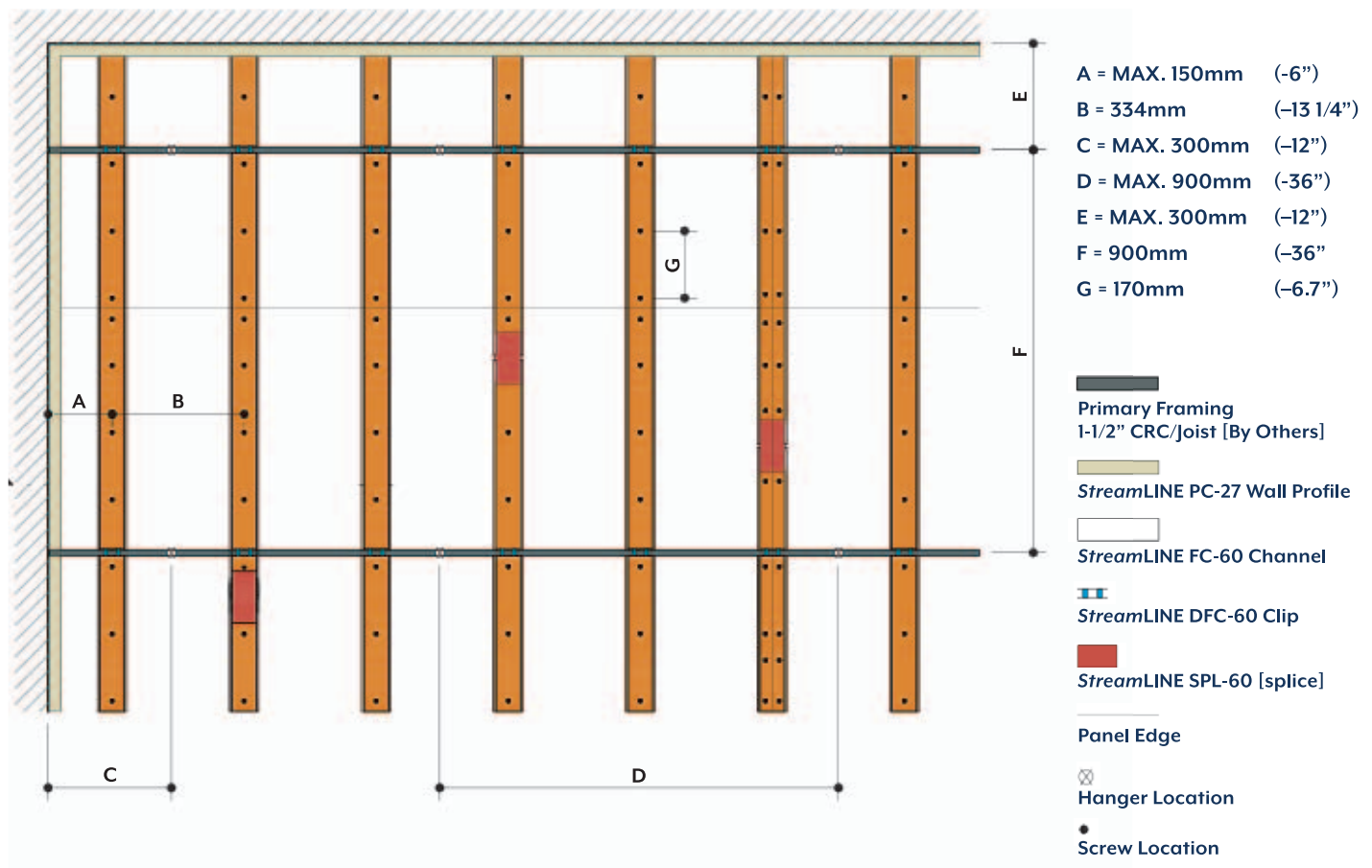
The Gypso**rb** *StreamLINE-DFC* framing system is designed specifically to accommodate Gypso**rb** Sonus and Strata perforated gypsum installations (but can also be used on Stratum installations). The system consists of the FC-60 Furring Channel which is attached direct to joists using the DFC-60 Direct Fix Clip. FC-60 Furring Channel sections are connected using the SPL-60 Splice and terminated at the perimeter using the PC-27 Perimeter Channel.



MAIN CARRIER: COLD ROLLED CHANNEL

Gypso rb <i>StreamLINE</i> ®Component	MAIN CARRIER: JOIST Based on 32" o.c.
FC-60	1 l.f. / s.f.
DFC-60	0.37 pcs / s.f.
SPL-60	~0.1pcs / s.f. (1 splice needed per FC-60 pc)
PC-27	As needed

StreamLINE FRAMING INSTALLATION



PRIMARY FRAMING / PERIMETER TRIM

- Install primary framing / joists (by others) 1-1/2" above the desired finished ceiling plane at no greater than 36" on center. If joists / substrate is existing, be sure DFC-60 clips are attached at intervals no greater than 36" o.c. For existing structures with joist spacing at 16" on center, we recommend attaching to every other joist at 32" o.c.
- Install Gypsoorb PC-27 Perimeter Channel directly underneath the primary framing / joists / substrate along the perimeter. This should result in the bottom of the PC-27 surface at 1/2" above the desired finished ceiling plane.

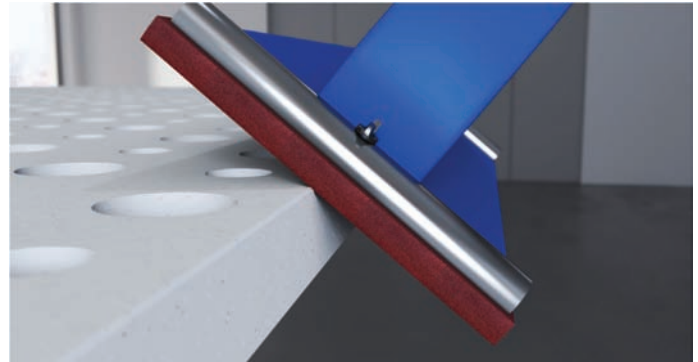
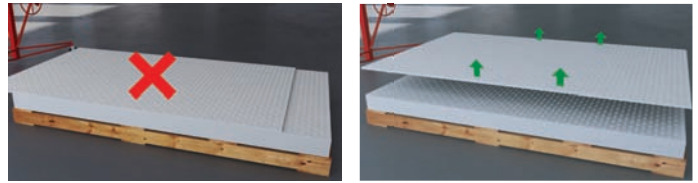
ATTACHING FURRING CHANNEL

- Spacing for the Gypsoorb FC-60 Furring Channel will vary depending on the board size and pattern being installed (**Reference Spacing Chart – see Appendix**). The maximum spacing for the Gypsoorb FC-60 Channel is 334mm (13-1/4")
- Fix the Gypsoorb FC-60 Furring Channel perpendicular to the primary framing using the Gypsoorb DFC-60 Clip. The DFC-60 clip can be shimmed if needed.
- Connect sections of Gypsoorb FC-60 Furring Channel together with Gypsoorb SPL-60 Splices
- The Gypsoorb FC-60 Furring Channel should terminate approximately 1/8" from the wall and rest inside the PC-27 Perimeter Channel. DO NOT fasten the Gypsoorb FC-60 Furring Channel to the Gypsoorb PC-27 Perimeter Channel. (**See Appendix**)
- The screw surface of the Gypsoorb FC-60 Furring Channel must be kept flat and uninterrupted as not to create a change in elevation for the panels. Do not overlap metal framing components or allow fastener build up on surface of framing area.

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

- Position the first board in the center of the room, aligning it perpendicular to the Gypsoorb FC-60 Furring Channel so that the short edge of the board covers 1/2 of the furring channel. 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).
- 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 8" 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)

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.

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

FEATURES:

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

SONUS AND STRATA BOARD FINISHING



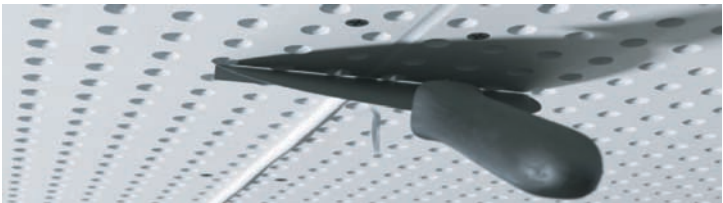
PREPARING THE FILLER

- 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.



APPYING 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.



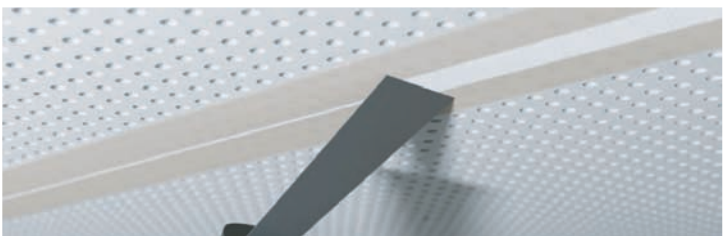
PREPARING THE JOINTS FOR FINISH

- 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 any last residue.

The surface is now ready to be painted.

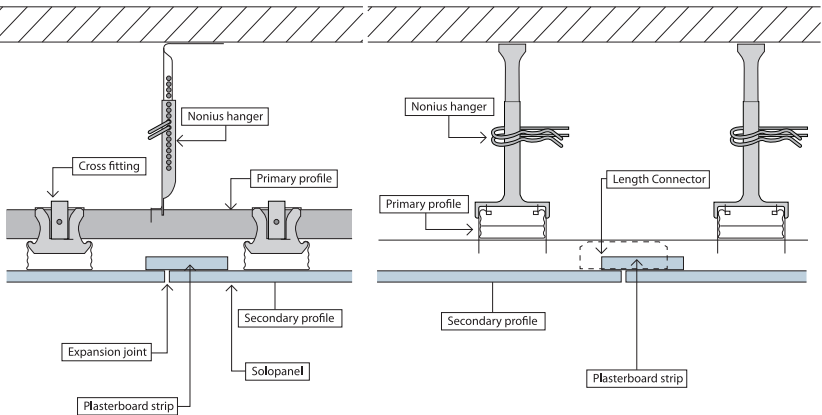
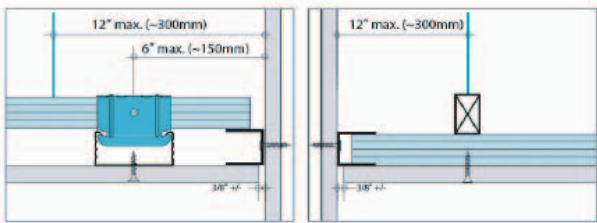
Use only a low nap paint roller.

SONUS AND STRATA BOARD PREPARATION

APPENDIX

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

APPENDIX

TABLE #2

Gypso**rb** STREAMLINE FC-60 Spacing Guide

Board size	FC-60 Spacing (mm)	FC-60 Spacing (inches)
924 X 2706	301	11 - 27/32"
1188 X 1980	330	13"
900 X 2700	300	11 - 13/16"
1200 X 2000	334	13 - 5/32"
897 X 2760	307	12 3/32"
1196 X 2001	334	13 - 5/32"
1200 X 1980	330	13"
1188 X 1998	333	13 - 1/4"
1188 X 2394	300	11 - 13/16"
1200 X 1875	313	12 - 5/16"
1200 X 2500	313	12 - 5/16"

SONUS AND STRATA BOARD FINISHING

FILLING PERFORATIONS:

The installation of Gypso**rb** 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 Gypso**rb** 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 Gypso**rb** 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 Gypso**rb** 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.