



SONANCE

PROJECT HANDBOOK

ARCHITECTURAL SERIES INSTALLATION

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INTRODUCTION

SONANCE offers what few have before: the ability to contribute to brilliant architecture and genius design by removing an element. By removing dated protruding fixtures and other traditional wall-mounted necessities, and replacing them with flush fixtures, the products bow out of the spotlight and allow the artistic structure to take center stage. Unlike other device installations, the SONANCE Architectural Series does not have a trim bezel to hide typical construction tolerance such as a classic flanged speaker. Proper installation is paramount to the Architectural Series product.

PLATFORMS, SPEAKERS AND GRILLE OPTIONS

SMALL ROUND

B4R 1/2" GYPSUM PANEL BRACKET PF	92671
B4R 5/8" AS PANEL BRACKET PF	92792
UB4	92590
BPC4R	92487
VP4R BPC	92868
X4R SPEAKER	92383
Z4R SPEAKER	92386
A4RMT METAL GRILLES W/TRIM PF	92762
A4RM METAL GRILLES PF	92771
A4RC CLOTH GRILLES PF	92789
SMALL ROUND ACOUSTIC ENCLOSURE	92445

SMALL SQUARE

B4S 1/2" GYPSUM PANEL BRACKET PF	92672
B4S 5/8" AS PANEL BRACKET PF	92793
UB4S	92592
BPC4S	92490
VP4S BPC	92869
X4S SPEAKER	92384
Z4S SPEAKER	92387
A4SMT METAL GRILLES W/TRIM PF	92763
A4SM METAL GRILLES PF	92772
A4SC CLOTH GRILLES PF	92790
SMALL SQUARE ACOUSTIC ENCLOSURE	92449

SMALL RECTANGLE

B4 1/2" GYPSUM PANEL BRACKET PF	92670
B4 5/8" AS PANEL BRACKET PF	92791
UB4	92591
X4 SPEAKER	92382
Z4 SPEAKER	92385
A4MT METAL GRILLES W/TRIM PF	92761
A4M METAL GRILLES PF	92770

MEDIUM ROUND

B6R 1/2" GYPSUM PANEL BRACKET PF	92674
B6R 5/8" AS PANEL BRACKET PF	92795
UB6R	92593
BPC6R	92488
VP6R BPC	92870
X6R SPEAKER	92377
Z6R SPEAKER	92380
X6RTL	92725
X6RSST	92728
A6RMT METAL GRILLES W/TRIM PF	92759
A6RM METAL GRILLES PF	92768
A6RC CLOTH GRILLES PF	92786
MEDIUM ROUND ACOUSTIC ENCLOSURE	91688

MEDIUM SQUARE

B6S 1/2" GYPSUM PANEL BRACKET PF	92675
B6S 5/8" AS PANEL BRACKET PF	92796
UB6S	92595
BPC6S	92491
VP6S BPC	92871
X6S SPEAKER	92378
Z6S SPEAKER	92381
X6STL	92727
X6S SST	92885

MEDIUM SQUARE (continued)

A6SMT METAL GRILLES W/TRIM PF	92760
A6SM METAL GRILLES PF	92769
A6SC CLOTH GRILLES PF	92787
MEDIUM SQUARE ACOUSTIC ENCLOSURE	92474

MEDIUM RECTANGLE

B6 1/2" GYPSUM PANEL BRACKET PF	92673
B6 5/8" AS PANEL BRACKET PF	92794
UB6	92594
X6 SPEAKER	92376
Z6 SPEAKER	92379
X6TL	92600
A6MT METAL GRILLES W/TRIM PF	92758
A6M METAL GRILLES PF	92767
MEDIUM RECTANGLE ACOUSTIC ENCLOSURE	91687

LARGE ROUND

B8R 1/2" GYPSUM PANEL BRACKET PF	92677
B8R 5/8" AS PANEL BRACKET PF	92798
UB8R	92596
BPC8R	92489
X8R SPEAKER	92371
Z8R SPEAKER	92374
A8RMT METAL GRILLES W/TRIM PF	92756
A8RM METAL GRILLES	92765
LARGE ROUND ACOUSTIC ENCLOSURE	91900

LARGE SQUARE

B8S 1/2" GYPSUM PANEL BRACKET PF	92678
B8S 5/8" AS PANEL BRACKET PF	92799
UB8S	92598
BPC8S	92492
X8S SPEAKER	92372
Z8S SPEAKER	92375
A8SMT METAL GRILLES W/TRIM PF	92756
A8SM METAL GRILLES PF	92766
LARGE SQUARE ACOUSTIC ENCLOSURE	

LARGE RECTANGLE

B8 1/2" GYPSUM PANEL BRACKET PF	92676
B8 5/8" AS PANEL BRACKET PF	92797
X8 SPEAKER	92370
Z8 SPEAKER	92373
A8MT METAL GRILLES W/TRIM PF	92757
A8M METAL GRILLES PF	92764
LARGE RECTANGLE ACOUSTIC ENCLOSURE	91708

FASCIA SPEAKERS

Z8F WHITE SPEAKER	92388
Z8F BLACK SPEAKER	92400

AS WOOFERS AND SUB AMPLIFIER

BPS-1 (REQUIRES A150 SUB AMP BELOW)	92478
A150 SUB AMPLIFIER 115V	92476
X8WR	92455
X8W	92456
X8WS	92457



BEFORE CONSTRUCTION BEGINS

FIVE PRELIMINARY STEPS THAT WILL ENSURE A SUCCESSFUL PROJECT:

1. Schedule weekly meetings with the General Contractor (GC), Architect, Interior Designer and other trades involved in installation and finishing of the Architectural Series Mounting Platform.
2. Meet with the supervisor of each trade involved in the process and explain the requirements for the proper installation of the Architectural Series Mounting Platform.
- 3. It is highly recommended that the drywall contractor do a mock-up prior to finishing on site.**
4. Schedule meetings with each contractor involved with the project and explain the proper methods of installing and finishing the Architectural Series Mounting Platform.
5. Observe every step of the process and implement any corrective action by notifying the supervisor of the trade and the GC.

RECEIVING PRODUCT

The Architectural Series Mounting Platforms are shipped separately from Speakers and the Grilles.



Sonance Architectural Series Mounting Platforms



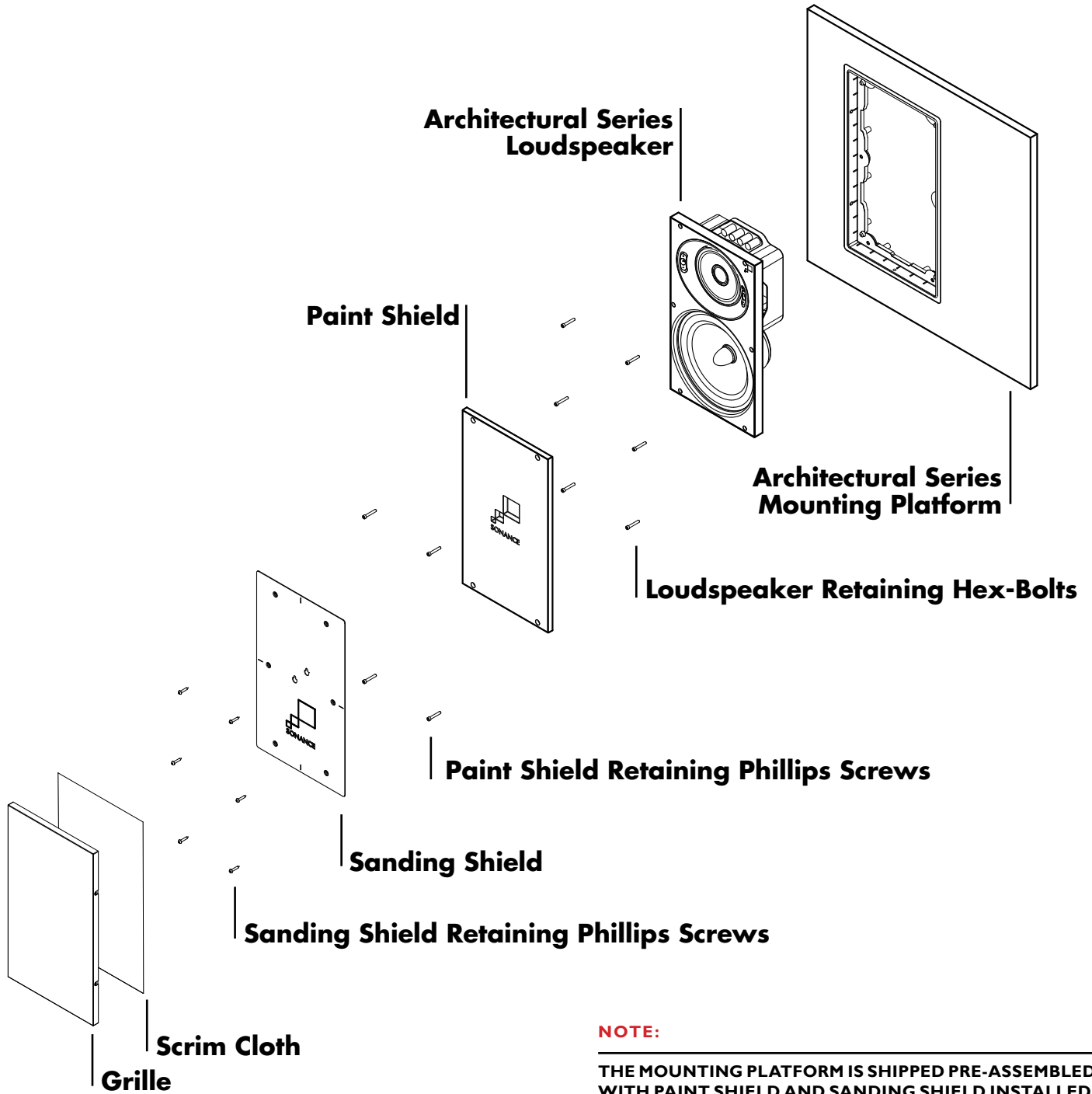
Sonance Architectural Series Speakers



Sonance Architectural Series Grilles



COMPLETE ARCHITECTURAL SERIES PRODUCT



NOTE:
THE MOUNTING PLATFORM IS SHIPPED PRE-ASSEMBLED WITH PAINT SHIELD AND SANDING SHIELD INSTALLED, AND SHOULD REMAIN INTACT DURING INSTALLATION.



DEFINITIONS

ARCHITECTURAL SERIES LOUDSPEAKER

The Architectural Series Loudspeakers are specifically designed for the Architectural Series Mounting Platform.

CORNER BEAD

90° metal frame used to mate 2 pieces of drywall for even compounding.

GRILLE

The only visible piece after a proper Architectural Series Installation. The grille protects and hides the loudspeaker.

HOT MUD

A drywall industry term referring to a fast setting joint compound. Typically available in 5,10,20,40 and 90 minute setup times. Due to the precise nature of the Architectural series installations, 20-minute is preferred.

JOINT COMPOUND

Any compound used in drywall finishing, typically sold in powder form and mixed with water.

KEYHOLE

Slots cut into the Sanding Shield to aid removal.

LOCTITE® THREAD SEALANT

glue-like liquid that prevents unwanted movement of the Hex-Bolts retaining the speaker.

LOUDSPEAKER RETAINING HEX-BOLTS

Hex Head bolts that secure the loudspeaker into the Mounting Platform. **All Hex-Bolts must have thread sealant applied during the installation process.**

MESH TAPE

neatly woven, crisscross pattern of fiberglass threads used in conjunction with joint compound to join drywall panels or patch holes in drywall.

MOUNTING PLATFORM

The Sonance Architectural Series Mounting Platform is designed to precisely hold a Sonance Architectural Series loudspeaker securely in a standard 1/2 inch or 5/8 inch drywall surface.

PAINT SHIELD

A large plastic part designed to prevent excess paint or debris from entering the Mounting Platform.

PAINT SHIELD RETAINING SCREWS

Phillips head screws that secure the paint shield in place.

PATCH CLIP

A small metal part designed to secure two pieces of drywall together.

PAPER TAPE

Adhesive Backed Paper tape used to patch holes and seams in drywall.

SANDING SHIELD

A large metal part that fits exactly into the mud dam to prevent any joint compound from entering the Mounting Platform. The Sanding Shield is also used as a guide during final sanding.

SANDING SHIELD RETAINING SCREWS

Phillips head screws covered with a blue plastic film to aid in removal. These screws hold the Sanding Shield in place during installation.

SCRIM CLOTH

An acoustically transparent material designed to protect the loudspeaker from dust as well as hide any unwanted reflections of the speaker under the grille.

TOPPING COMPOUND

The final layer of drywall compound over the walls surface.



INDUSTRY STANDARDS

DRYWALL FINISHING LEVELS

A Level 5 Drywall Finish, is required for a SONANCE Mounting Platform installation. It is the only way to meet the critical appearance conditions expected by the client.

Finishing Level Definitions from the USG “The Gypsum Construction Book” are included here for reference.

The following finishing level definitions are based on GA-214-96, “Recommended Levels of Gypsum Board Finish,” and are intended to provide an industry standard for drywall finishing.

Level 0 Drywall Finish, used in temporary construction or wherever the final decoration has not been determined. This level is unfinished without taping or corner beads. It also can be used where non-predecorated panels will be used in remountable partitions which are to be painted as a final finish.

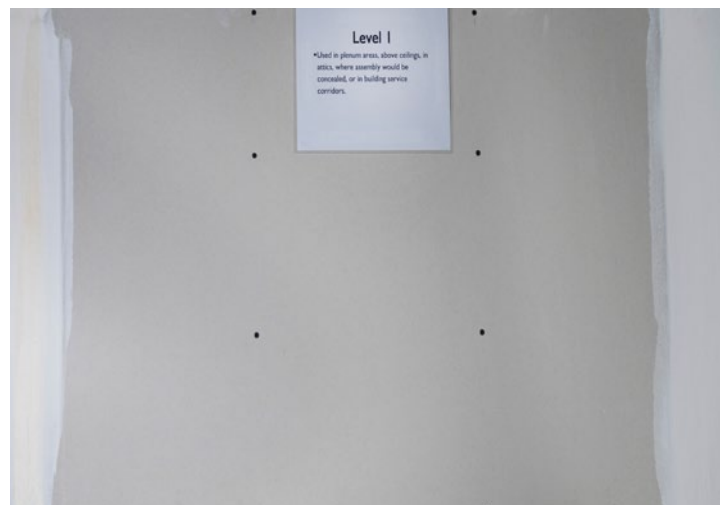
Level I Drywall Finish is frequently used in plenum areas above ceilings, in attics, in areas where the assembly would generally be concealed or in building service corridors and other areas not normally open to public view.

Some degree of sound and smoke control is provided; in some geographic areas, this level is referred to as “fire-taping,” although this level of finish does not typically meet fire-resistant assembly requirements.

Where a fire resistance rating is required for the gypsum board assembly, details of construction should be in accordance with the reports of fire test that have met the requirements of the fire rating imposed.

All joints and interior angles shall have tape embedded in the joint compound.

Accessories are optional at specifier discretion in corridors and other areas with pedestrian traffic. Tape and fastener heads do not need to be covered with joint compound. Surface should be free of excess joint compound. Tool marks and ridges are acceptable.





Level 2 Drywall Finish may be used with setting-type compound or in areas where water-resistant gypsum backing board (specification ASTM C630) is used as a substrate for tile. It may also be specified for standard gypsum board surfaces in garages, warehouse storage or other similar areas where surface appearance is not of primary importance.

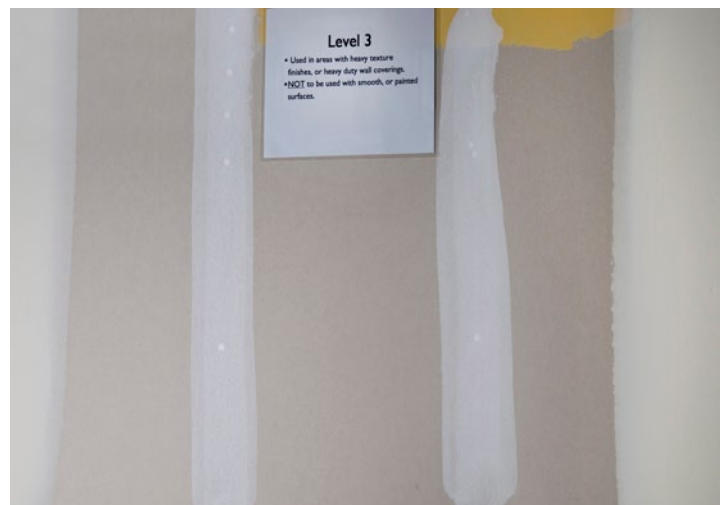
All joints and interior angles should have tape embedded in the joint compound and should be immediately wiped with a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles.

Fastener heads and accessories should be covered with a coat of joint compound. Surface should be free of excess joint compound. Tool marks and ridges are acceptable.

Level 3 Drywall Finish is typically used in areas which are to receive heavy texture (spray or hand applied) finishes before final painting, or where commercial-grade (heavy duty) wall coverings are to be applied as the final decoration. This level of finish should not be used where smooth painted surfaces or where lighter weight wall coverings are specified. The prepared surface should be coated with a drywall primer prior to the application of final finishes.

All joints and interior angles have tape embedded in the joint compound and should immediately be wiped with a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles.

One additional coat of joint compound is applied over all joints and interior angles. Fastener heads and accessories are covered with two separate coats of joint compound. All joint compounds should be smooth and free of tool marks and ridges. The prepared surface is covered with a drywall primer prior to the application of the final decoration.





Level 4 Drywall Finish level should be used where residential grade (light duty) wall coverings, flat paints or light textures are to be applied. The prepared surface is coated with a drywall primer prior to the application of final finishes. Release agents for wall coverings are specifically formulated to minimize damage if coverings are subsequently removed. The weight, texture and sheen level of the wall covering material selected should be taken into consideration when specifying wall coverings over this level of drywall treatment. Joints and fasteners must be sufficiently concealed if the wall covering material is lightweight, contains limited pattern, has a glossy finish or has any combination of these features. In critical lighting areas, flat paints applied over light textures tend to reduce joint photographing. Gloss, semigloss and enamel paints are not recommended over this level of finish.

All joints and interior angles should have tape embedded in the joint compound and are immediately wiped with a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles.

In addition, two separate coats of joint compound are applied over all flat joints and one separate coat of joint compound is applied over interior angles. Fastener heads and accessories are covered with three separate coats of joint compound. All joint compounds will be smooth and free of tool marks and ridges. The prepared surface will be covered with a drywall primer prior to the application of the final decoration.

Level 5 Drywall Finish, the highest quality is the most effective method to provide a uniform surface and minimize the possibility of joint photographing and of fasteners showing through the final decoration. This level of finish is required where gloss, semigloss or enamel are specified; or when flat joints are specified over an untextured surface, or where critical lighting conditions occur. The prepared surface shall be coated with a drywall primer prior to the application of final decoration.

All joints and interior angles have tape embedded in joint compound and should be immediately wiped with a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles. Two separate coats of joint compound are applied over all flat joints and one separate coat of joint compound is applied over interior angles.

Fastener heads and accessories are covered with three separate coats of joint compound. A thin skim coat of joint compound is trowel applied to the entire surface. Excess compound is immediately sheared off, leaving a film or skim coating of compound completely covering the paper. As an alternative to a skim coat, a material manufactured especially for this purpose may be applied. The surface must be smooth and free of tool marks and ridges. The prepared surface will be covered with a drywall primer prior to the application of the final decoration.



TYPICAL MISCONCEPTIONS OF THE ARCHITECTURAL SERIES MOUNTING PLATFORM

1. Unlike other device installations, the Architectural Series Mounting Platform does not have a trim bezel to hide typical construction tolerance such as a wall plate. (See diagram 1 and 2)
2. It is a very common mistake for the drywall contractor to treat the mud dam as "Corner Bead". Please make it clear to the drywall contractor that the MUD DAM is NOT corner bead and MUST be treated differently.

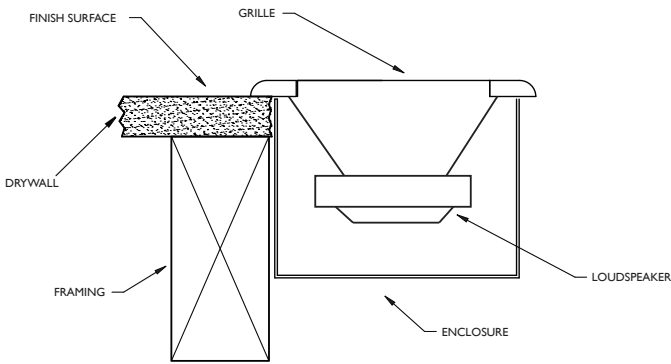


Diagram 1. Typical Flanged Loudspeaker Construction Installation

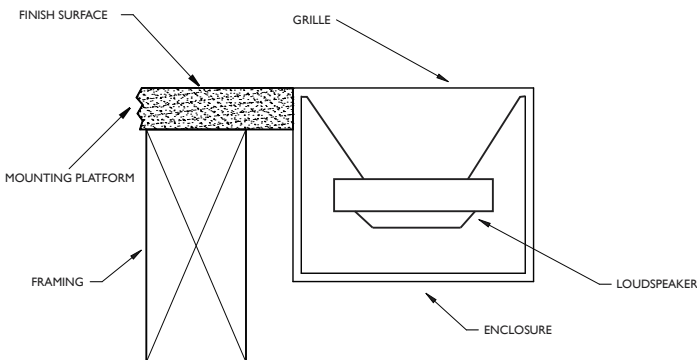


Diagram 2. Architectural Series installation

STORING AND UNPACKING BOXES

1. Keep the Architectural Series Mounting Platforms in their original packaging until just before installation.
2. Store packaged platforms off the ground in a secure, dry area until they are needed. Keep all materials dry and above freezing.
3. Lay out the Architectural Series Mounting Platforms in the general area where they are to be installed to help speed installation.
4. At the time of installation and finishing, all materials must be at a temperature of 55°F (12.8°C) or above.



Standard Install

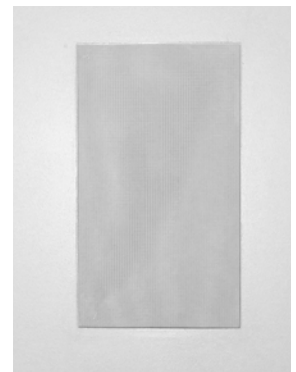


Standard Grille

The bezel of a flanged speaker hides the cutout



Architectural Series Install



AS Grille

There is no bezel to hide imperfections

BEST PRACTICE

SHOW THE OTHER ASSOCIATED TRADES THE MOUNTING PLATFORMS TO ENSURE THEY ARE NOT DISCARDED.

CUTTING THE MOUNTING PLATFORM

For installs in corners and other tight spaces, trimming of the Mounting Platform may be necessary. Follow the instructions below for consistent cutting results.

1. Mark area to be trimmed on Mounting Platform.

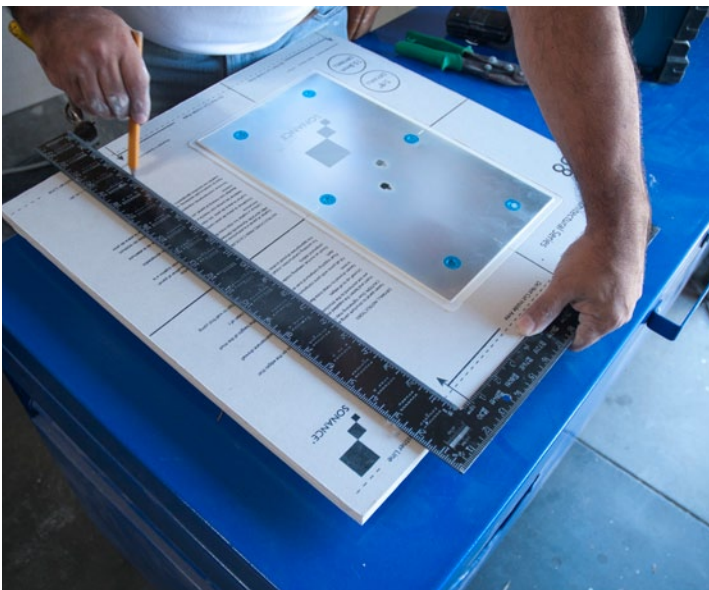
3. Cut with circular saw with carbide blade.



2. Mark cut line with a square or other suitable tool.

NOTE

ONLY CUT OUTSIDE THE MARKED AREA





MOUNTING THE PLATFORM NEW CONSTRUCTION

1. Place the Mounting Platform into position and fasten it with one 1^{5/8}" appropriately-threaded drywall screw, on the horizontal center line, to one stud.
3. Using at least six 1^{5/8}" drywall screws, fasten the Mounting Platform to the studs.



DO NOT TIGHTEN THE SCREW COMPLETELY SO THAT IT MAY ACT AS A HINGE



2. With the aid of a level, pivot the loose end of the Mounting Platform until it is level.
4. Attach Patch Clips to any unsecured edge of the Mounting Platform.



DRYWALL INSTALLATION

This section shows the correct steps to achieve a proper Architectural Series drywall finish.

1. Transfer size of Mounting Platform to the Drywall.
3. Mount Drywall and secure Patch Clips.



2. Cut hole into Drywall

4. Once the drywall and Patch Clips are secured, break tabs off Patch Clips by working tabs back and forth



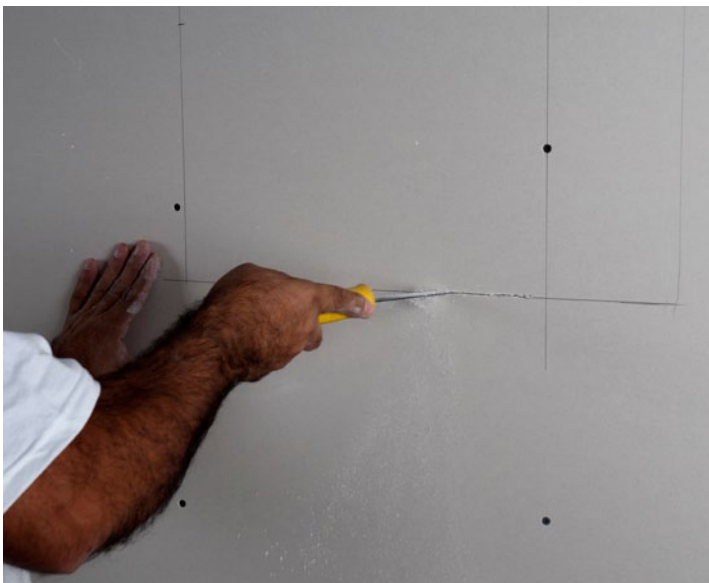
MOUNTING THE PLATFORM - RETROFIT

This section shows the correct steps to achieve a proper Architectural Series drywall finish in an existing wall

1. Locate area for Mounting Platform installation. For the most secure install, locate studs and align edges. Outline Mounting Platform and confirm location with GC
3. Attach Patch Clips to unsupported drywall edges.



2. Cut opening, allow 1/4" of clearance room to level the Mounting Platform
4. Fit the Mounting Platform. Check for level, and mount with at least 6 (1^{5/8}") appropriately-threaded drywall screws.

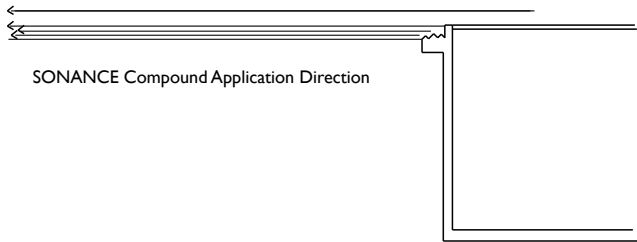
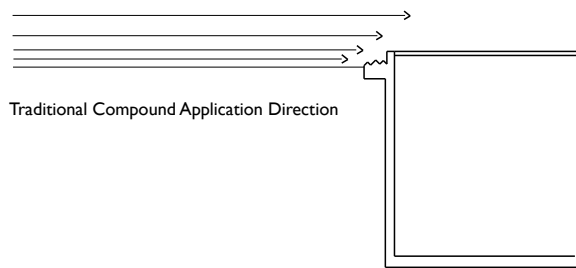


FINISHING THE ARCHITECTURAL SERIES MOUNTING PLATFORM USING LEVEL 5 DRYWALL FINISH

NOTE

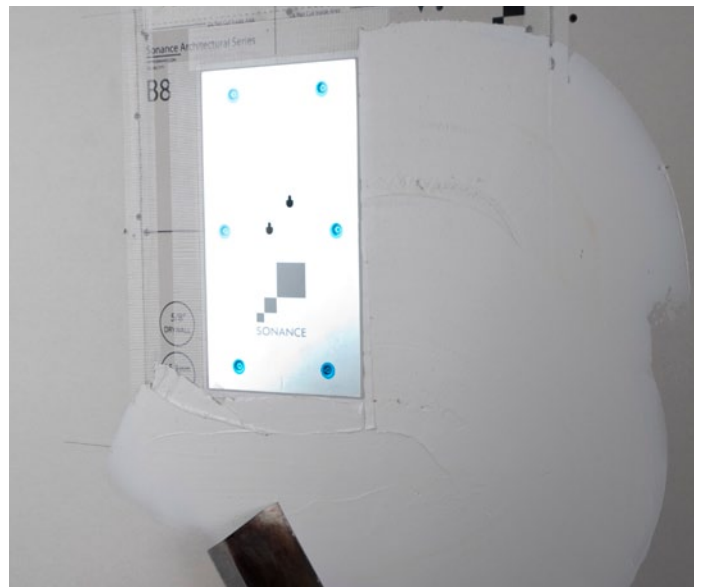
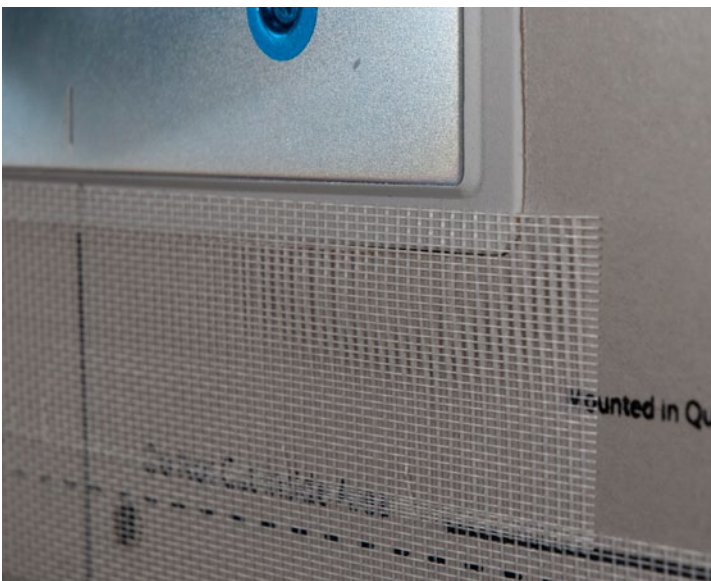
THE INSTRUCTIONS AND PICTURES CONTAINED IN THIS DOCUMENT REFER TO FINISHING USING HOT MUD AND MESH TAPE. FOLLOW FINISHING COMPOUND MANUFACTURER'S INSTRUCTIONS FOR THE PROPER MATERIAL AND JOINT TAPE TO BE USED. BUILD LAYERS FROM THE MUD DAM OUTWARD

2. Apply the first coat of "Hot Mud" from the Mud Dam outward.



1. Apply mesh tape to all material seams. Pay close attention as to not tape over the top of the Mud Dam.

3. Continue to cover entire Mounting Platform from the Mud Dam outward. Feather outside edge, and lightly scrape before fully set. DO NOT SAND.



4. Using topping compound, build second layer from Mud Dam outward. All subsequent layers are with topping compound
6. Second layer will totally cover first layer



5. Continue to cover in even strokes.

7. Feather edge appropriately on outer strokes. After coat is feathered allow to dry slightly and then scrape surface to remove irregularities. DO NOT SAND.



IMPORTANT

DO NOT COVER ENTIRE AREA WITH COMPOUND UNTIL FINAL "SKIM" COAT. BUILD LAYERS FROM THE MUD DAM OUT. FAILURE TO FOLLOW THIS STEP WILL PREVENT THE SPEAKER FROM CORRECTLY ALIGNING WITH WALL SURFACE.



8. Build third coat in a similar fashion, expanding the compound area. Start from the Mud Dam and pull outward in even strokes.

10. Continue to expand area.



9. Use large strokes to avoid excess ridges and tool marks.

11. Smooth out area around Mud Dam. At this stage the Mud Dam should be slightly exposed. After third coat is applied allow to dry slightly and scrape. DO NOT SAND



12. The finish coat (fourth coat) should cover the entire panel including the Sanding Shield.

14. The Mud Dam itself can be used as a guide for the knife on the finish coat.



13. Continue finishing the entire panel.

15. After panel is completely covered with the final coat, allow to fully dry before sanding.



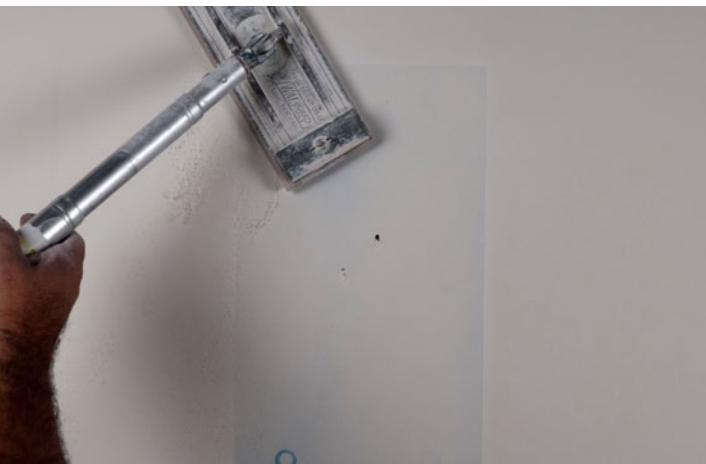
BEST PRACTICE

A 60 MICRON SANDING FILM IS RECOMMENDED FOR FINAL SANDING.

16. Sand using a sanding block or sanding pole (NOT A SPONGE) until the outline of the Sanding Shield is completely exposed.
18. Spot-sand tops of screw protectors.

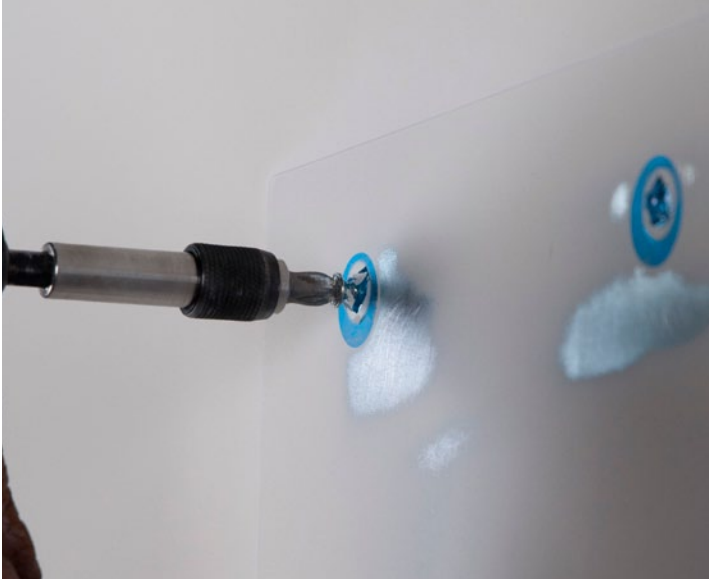


17. Once the Perimeter of the Sanding Shield is visible, spot sand the tops of the screws.
19. Inspect the surface by rubbing your hand over entire area. If the Sanding Shield feels raised against surrounding compound, repeat final skim coat. You should not feel any difference in the Sanding Shield and surrounding compound.

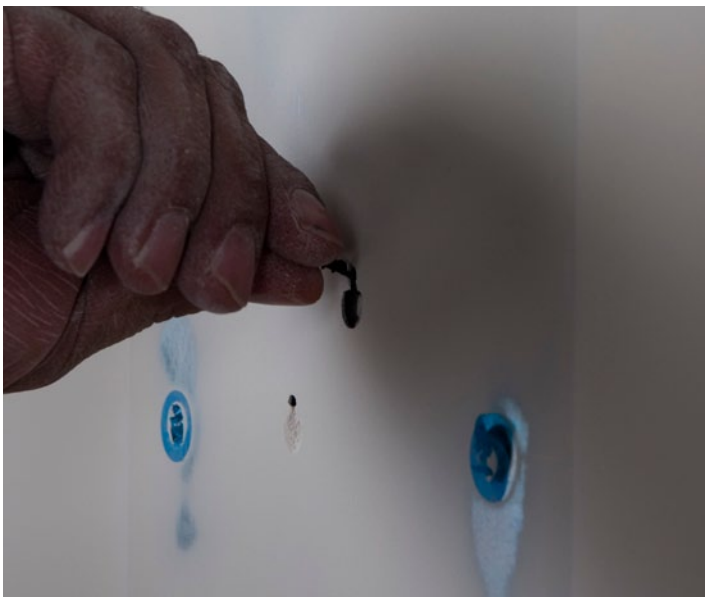


REMOVING THE SANDING SHIELD

1. Peel off or pierce Blue Film with screwbit. Remove the Sanding Shield retaining screws.
2. Dig any excess Topping Compound out of the Keyholes.
3. With two (2) drywall screws inserted into the Keyholes, remove the Sanding Shield. Removing the Sanding Shield will expose the Paint Shield.



2. Dig any excess Topping Compound out of the Keyholes.





PAINTING

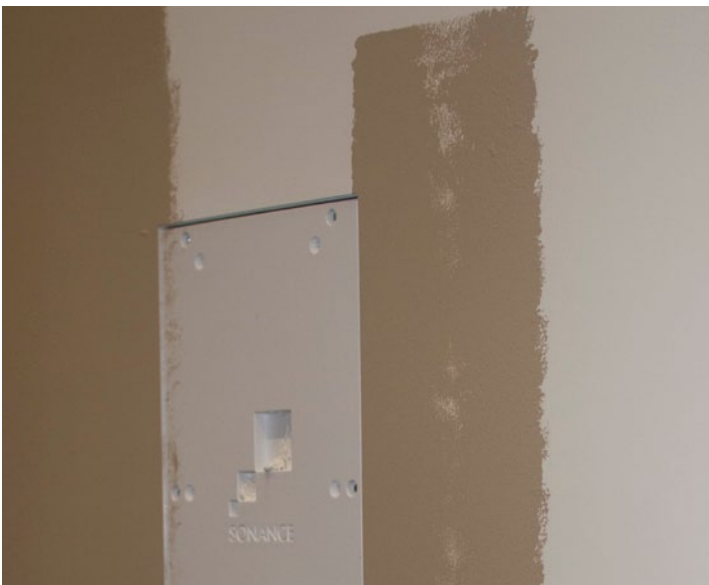
1. Roll paint and/or primer evenly over wall surface.

3. Make sure all exposed edges of the Paint Shield are painted.



2. Work around Paint Shield. Slightly overlap the paint shield with paint.

4. Inspect inside lip for proper paint coverage.



REMOVING THE PAINT SHIELD

1. Remove the retaining screws from the Paint Shield.



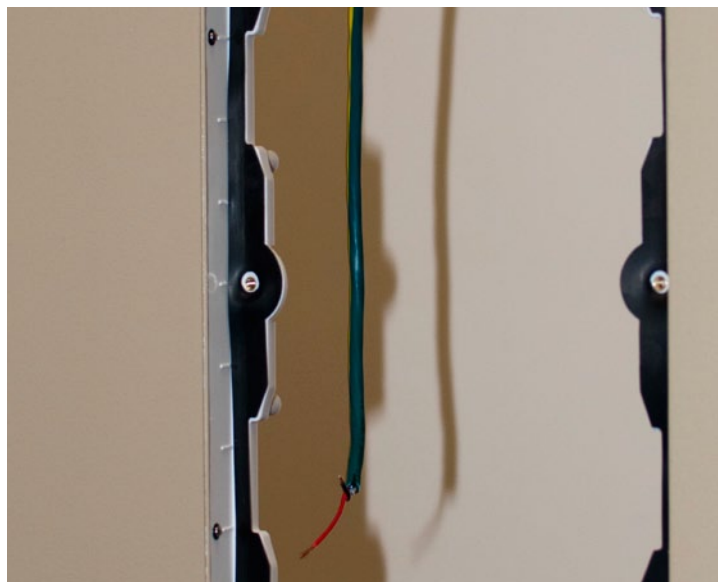
3. Inspect the shelf for even painting. Remove any dust or particulates with a dry brush. Touch up areas with paint as needed.



2. Using the SONANCE logo as a gripping location, remove the Paint Shield to expose the Mounting Flange.



4. Once shelf is clean, route speaker wire to opening.



WIRING AND MOUNTING THE ARCHITECTURAL SERIES SPEAKER

1. Locate the Speaker Mounting Screws and Loctite thread sealant. 3. Connect speaker wire to terminals on top of speaker.



2. Place a drop of thread sealant onto one of the Mounting Screws. Repeat with remaining screws. 4. Insert top of Architectural Series speaker into opening.





5. Once speaker is in the correct position, secure the first screw using the supplied Allen Wrench. Continue to fasten the speaker into the wall with the Mounting Screws and Thread Sealant.

NOTE

THE LOCTITE THREAD SEALANT PREVENTS THE HEX HEAD SCREWS FROM BECOMING LOOSE.



6. After all screws have been tightened, inspect the Architectural Series speaker face and wall. The speaker front surface must be slightly recessed for proper Grille finish.



PAINTING THE GRILLE

1. Open the Grille packaging and remove one Grille with support tray. Flip the Grille over to expose the Scrim Cloth.
3. Starting to remove Scrim Cloth at a corner using a pick or scribe. Be careful the Scrim Cloth is delicate.



2. Use a heatgun to soften the adhesive.



4. Once the Scrim Cloth is removed, store in a safe place away from painting area. Flip Grille over and position over tray. Priming with an XIM Primer is recommended. Due to the grille pattern multiple light strokes are required, DO NOT COAT IN A SINGLE PASS.

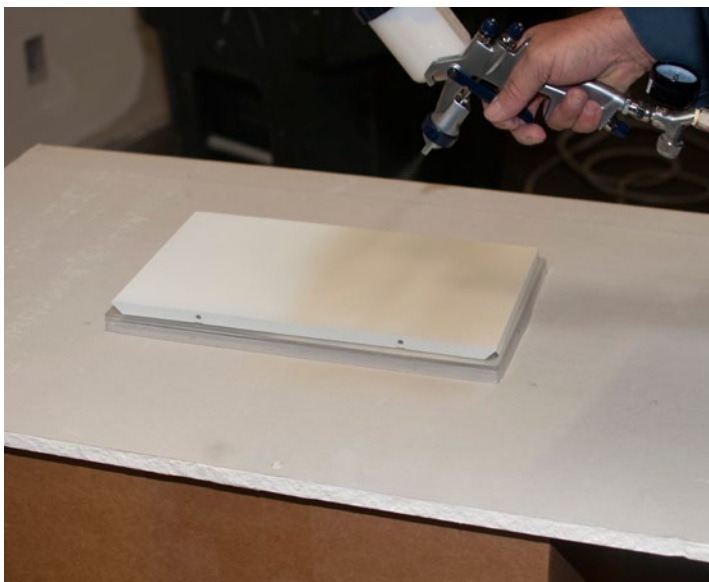




5. Ensure proper primer coverage and allow to dry per manufacturers specifications
7. Allow Paint to fully dry.



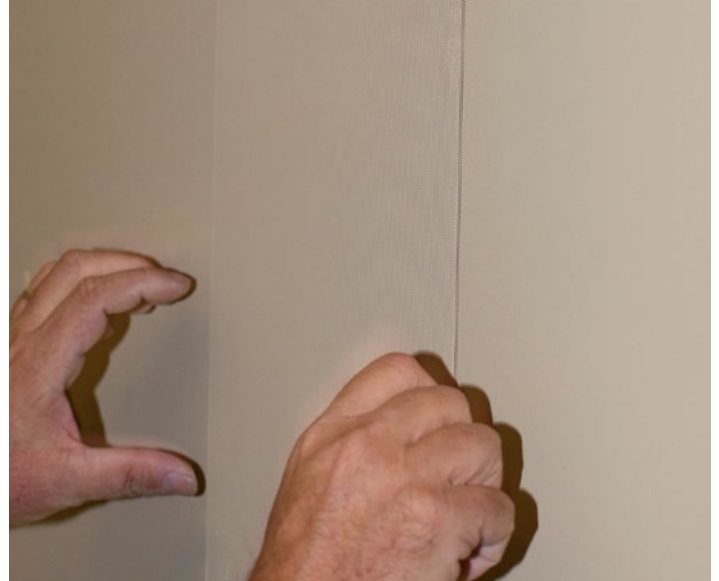
6. Once Primer has fully dried, begin painting with paint sprayer. Like the primer, multiple light coats are necessary for even hole coverage. After first coat is dry, rotate grille 90 degrees and apply second coat. Follow this pattern until evenly covered
8. Once the Paint is fully dry, flip Grille back into the tray and gently press the Scrim Cloth back into original position with putty knife or other suitable tool.



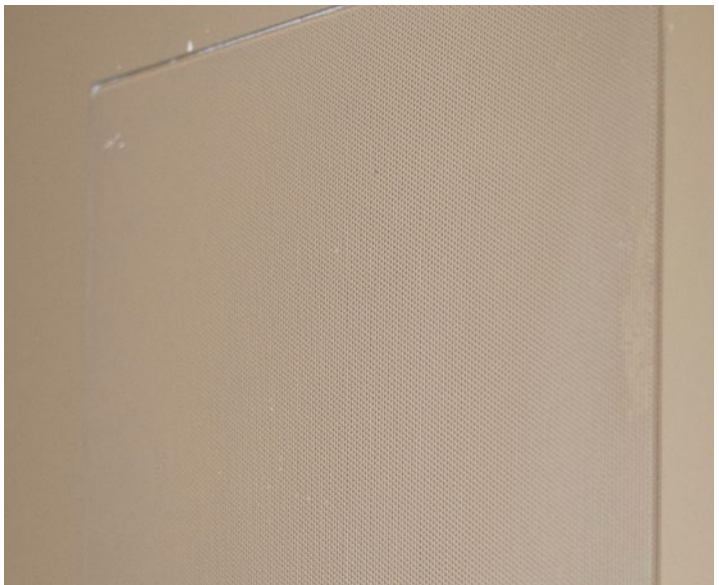
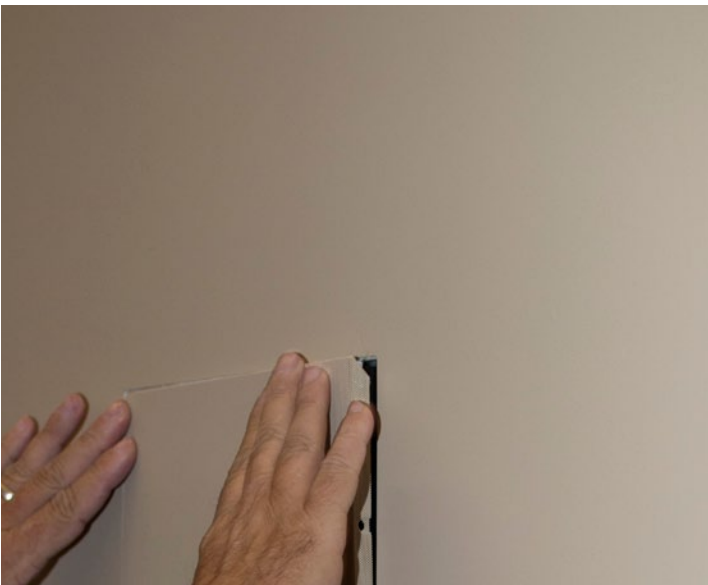


INSTALLING THE GRILLE

1. Due to the nature of the product, the Grilles are designed to fit very tightly to the speaker opening. line up the bottom portion and place the grille into position.
3. Continue to work Grille into Grille Channel. The finished product should be as even to the wall surface as possible.



2. Gently work the Grille into position. Grilles are relatively soft and moldable, The finished look depends greatly on the smooth flat look of the Grille. Do not hammer or use any other tool or excessive force when installing the Grilles.
4. Inspect installation.





The Finished Architectural Series Installation



