

CERTIFIED ALTERNATIVE METHOD OF INSTALLING THE LOUDSPEAKER

INTRODUCTION

This installation procedure can be used as an alternative to the approved plaster method outlined in the **SA2 Certification Guide part# 960.068 rev #2, 4.1 Finishing the Loudspeaker into Plaster Base or Treated Gypsum Wallboard with a 1/16" veneer plaster coat and 4.2 Finishing the Loudspeaker into Standard Finished Drywall.**

When implementing this alternative procedure the installation time of the SA2 can be significantly reduced. This reduction is due to the shorter curing time of the filler foam in comparison to the supplied joint compound.

SUPPLY OF MATERIALS

Hilti CF-116-14 Grip Filler Foam is not supplied with the installation kit included in the SA2 Loudspeakers.

USE OF MATERIALS

Before proceeding, please carefully read "Directions of use", "Precautions", "Safety Advice" and any other Warnings and Directions printed in the Hilti CF-116-14 Grip Filler Foam material container.

ADDITIONAL TOOLS AND EQUIPMENT NEEDED

Flush saw, typically used in woodworking to cut off dowels flush.

Latex gloves and safety glasses

Clean Towel/rag

PRO/CONS

Professional drywallers and plasterers are more familiarized with methods and tools required for applying joint compound. However, this material has a prolonged drying/curing time when utilized to fill large gaps and cannot be sanded until completely dry.

The CF-116-14 Grip Filler Foam is simple to apply; it requires no mixing and is ready to sand in a fraction of the time when compared to joint compound.

Once cured it is quite easy to cut and sand, and provides an exceptional bond to the substrates.



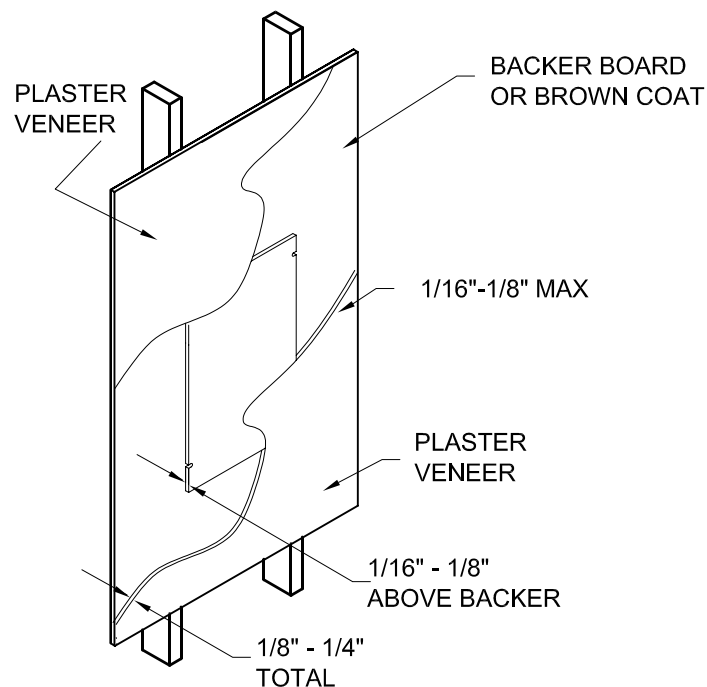
4. FINISHING THE LOUDSPEAKER

4.1 Finishing the Loudspeaker into Plaster Base or Treated Gypsum Wallboard with a 1/16" veneer plaster coat.

NOTE: If the final veneer plaster coat is thicker than 1/8".

The face of the loudspeaker should be adjusted out past the surface of the unfinished plaster base or treated gypsum board. This adjustment should allow the loudspeaker to receive no more than 1/8" maximum of veneer plaster

1. Adjust the four Allen head screws so that the face of the loudspeaker is flush to - or slightly above the unfinished surface of the plaster base or treated gypsum board - Refer to note directly above.



2. Prepare the Grip Filler Foam can as per label instructions (grip, nozzle and straw).



3. Using a wet towel/rag moisten the edge of the loudspeaker and also the edge of the drywall. This will ensure the proper curing and adhesion of the foam to the substrates.



4. With the can upside down (valve at the bottom) insert the straw in the gap all the way to the lip of the enclosure and the loudspeaker. This will insure that once the foam is dispensed it will expand and fill the gap between the enclosure and loudspeaker, preventing any possible rattle or buzzing.



7. If the enclosure was installed after the drywall, the notches made to accommodate the enclosure tabs can also be filled the foam.

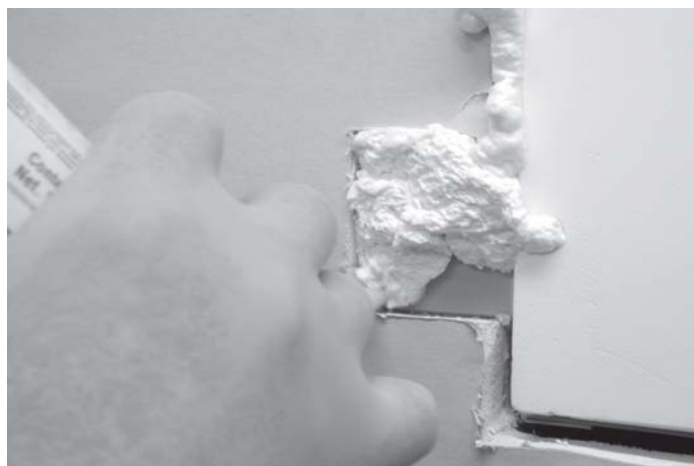


NOTE: when the liquid foam contacts the air it will expand at a 40:1 ratio

5. Apply light pressure to the trigger on the grip until fluid begins to come out of the straw.

NOTE: on a typical gap of 3/8" fill with the dispensed liquid up to the edge of the drywall. Once the edge is reached, begin to move the dispenser with a slight angle to the direction of travel.

6. Apply a continuous stream of material to each of the gaps in a contiguous manner.



8. Allow a minimum of 1 hour for the foam to cure. (Please note that room temperature and humidity conditions may shorten or extend cure time).

NOTE: The foam cures from the outside in. If you notice that wet foam appears on the blade when cutting, wait another 30 minutes to proceed.

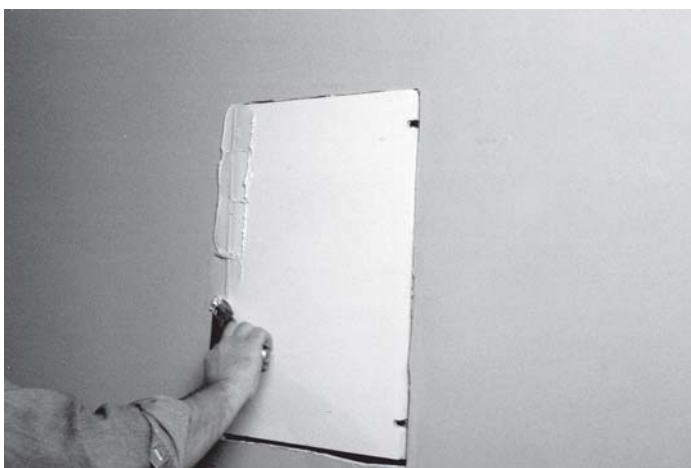
9. Once cured, cut the excess foam with a flush saw. It is suggested to start cutting in a portion with excessive foam build-up and slowly work around the perimeter of the filled gap.



10. In this step the buildup of scratch coat/plaster should be made up to the edge of the loudspeaker surface. Allow to completely dry.



12. After you are finished sanding, go over the area lightly with a damp sponge and clean up any loose drywall dust.



11. Using a drywall-sanding block with a 150-grit sanding screen, sand the plaster until it is flush with the loudspeaker.



13. Retrieve a sheet of vellum and hold it up to the wall, covering the face of the loudspeaker evenly. Make a pencil mark at each of the four corners of the overlay; this will give you a rough idea how far out you will need to spread the adhesive.



14. Using a 2-inch paintbrush, apply a coat of Adhesive Primer to the speaker surface and the surrounding area inside of the pencil marks. This procedure will keep the plaster from absorbing the entire amount of overlay adhesive causing the vellum to bubble or lift up from the plaster. The drying time can be accelerated by using a hair dryer at a safe distance of 2 ft. from the wall. Place your hand palm down just skimming the loudspeaker surface; if the dryer is too hot on your hand, it is too hot for the speaker.



15. After the adhesive primer has dried, use a 2-inch paintbrush and apply a generous amount of overlay adhesive evenly within the pencil marks on the wall.



16. Using your hand apply the vellum overlay starting at the center of the loudspeaker, gently working your way out toward the edges. Use a 6-inch hard plastic squeegee or a taping knife and, once again, start at the center, moving out past the edges, utilizing a good amount of pressure.



17. With the first couple of passes, you will notice an excess of adhesive on your squeegee, leaving the adhesive on will help you glide over the vellum with ease and at the same time completely saturating the vellum with adhesive.



18. If the edges look like they are starting to come up, then simply peel up the paper and apply more adhesive.
19. Using a damp sponge wipe the excess adhesive off loudspeaker surface and the surrounding area of the wall. Allow the vellum overlay to dry for a minimum of 2 hours. It is very important that the overlay is completely dry before proceeding to the next step. The drying time can be accelerated using a hair dryer at a safe distance of 2 feet from the wall. Place your hand palm down just skimming the surface of the loudspeaker; if the dryer is too hot on your hand, it is too hot for the speaker.



20. Apply the final veneer plaster coat no more than 1/8" thick. The use of the SOUND ADVANCE Installation Compensation Circuit -ICC® is recommended for all plaster veneer situations.



2. Prepare the Grip Filler Foam can as per label instructions (grip, nozzle and straw).



3. Using a wet towel/rag moisten the edge of the loudspeaker and also the edge of the drywall. This will ensure the proper curing and adhesion of the foam to the substrates.

4.2 Finishing the loudspeaker into Standard Finished Drywall.

1. Adjust the four Allen head screws so that the face of the loudspeaker is flush to the unfinished surface of the plaster base or treated gypsum board.



4. With the can upside down (valve at the bottom) insert the straw in the gap all the way to the lip of the enclosure and the loudspeaker. This will insure that once the foam is dispensed it will expand and fill the gap between the enclosure and loudspeaker, preventing any possible rattle or buzzing.



NOTE: when the liquid foam contacts the air it will expand at a 40:1 ratio

5. Apply light pressure to the trigger on the grip until fluid begins to come out of the straw.

NOTE: on a typical gap of 3/8" fill with the dispensed liquid up to the edge of the drywall. Once the edge is reached begin to move the dispenser with a slight angle to the direction of travel.

6. Apply a continuous stream of material to each of the gaps in a contiguous manner.



7. If the enclosure was installed after the drywall, the notches made to accommodate the enclosure tabs can also be filled the foam.



8. Allow a minimum of 1 hour for the foam to cure. (Please note that room temperature and humidity conditions may shorten or extend cure time).

NOTE: The foam cures from the outside in. If you notice that wet foam appears on the blade when cutting, wait another 30 minutes to proceed.

9. Once cured, cut the excess foam with a flush saw. It is suggested to start cutting in a portion with excessive foam build-up and slowly work around the perimeter of the filled gap.



10. Using a drywall-sanding block with a 150-grit sanding screen, sand any excess foam until it is flush with the loudspeaker.

11. For this application you should need to mix up one bag of joint compound. Mix in two measuring cups of water per one bag of joint compound. Apply a light coat over the urethane foam to cover any imperfections or voids. Allow to completely dry before proceeding to the next step.
12. Using a drywall type sanding block with a 150 grit sanding screen, begin to sand the joint compound until it is flush to the face of the loudspeaker and wall.



13. Using a paintbrush or a slightly damp sponge, clean the dust off the face of the loudspeaker and wall.



14. Retrieve a sheet of vellum and hold it up to the wall, covering the face of the loudspeaker evenly. Make a pencil mark at each of the four corners of the overlay, this will give you a rough idea as to how far out you will need to spread the adhesive.



15. Use a 2-inch paintbrush and apply a generous amount of overlay adhesive evenly within the pencil marks on the wall.



16. Using your hand apply the vellum overlay starting at the center of the loudspeaker, gently working your way out toward the edges. Use a 6-inch hard plastic squeegee or a taping knife and, once again, start at



the center, moving out past the edges, utilizing a good amount of pressure.

20. Once compound is dry, once more, lightly sand out until smooth.



17. Using a damp sponge, wipe the speaker surface and the surrounding area of the wall clean from any excess adhesive. Allow the vellum overlay to dry for a minimum of 2 hours. It is very important that the overlay is completely dry before proceeding to the next step. The drying time can be accelerated using a hair dryer at a safe distance of 2 feet from the wall. Place your hand palm down just skimming the surface of the loud-speaker; if the dryer is too hot on your hand, it is too hot for the speaker.
18. If there is a wrinkle in the overlay that will not roll down, wait until the vellum is completely dry and the wrinkle should shrink down and become smooth.
19. For this application you should need to mix up only one bag of joint compound. Like before, mix in two measuring cups of water per one bag of joint compound. Apply the last coat of joint compound to the edges of the vellum and feather it out to the wall.



WARRANTY

SOUND ADVANCE SYSTEMS, Inc. (sometimes referred to as "Sound Advance" or "SAS"); hereby warrants to each owner of the SA2 Loudspeakers during the term of this warranty, that:

1. If your SOUND ADVANCE SA2 loudspeakers are installed by a **Certified SA2 Dealer/installer**, recommended procedures, materials and techniques, the SA2 loudspeakers are covered by a FIFTEEN (15) year Limited Warranty, from the original date of purchase by the first buyer. This Warranty is transferable to a new owner of the dwelling containing such SA2 loudspeakers.

Should, a SOUND ADVANCE SA2 loudspeaker fail during this 15-year warranty period, SOUND ADVANCE will replace it at no charge, and will pay for (a) the labor to remove the defective loudspeaker, (b) return shipping costs, (c) labor to re-install the loudspeaker, and (d) except as set forth the next paragraph, restoration of the wall or ceiling surface to a condition as close as reasonably possible to the original. If permanent artwork covers the loudspeaker, then SAS shall not be responsible for any damage to such artwork, and owner shall be responsible for restoring such artwork. If wall covering, such as wallpaper or leather or unique products, covers the loudspeaker, then SAS shall not be responsible for complete restoration, but SAS may issue a replacement or reimbursement allowance to the owner on a case-by-case basis.

2. If your SOUND ADVANCE SA2 loudspeakers are installed by a **Non-Certified SA2 Dealer/installer**, the SA2 loudspeakers are warranted to be free from defects in materials and workmanship for a period of ONE (1) year from the original date of purchase. During this warranty period, SAS will repair or replace (at its option) all such defects without charge for parts or labor, if returned prepaid to the proper SOUND ADVANCE Service facility, together with the original sales receipt or other proof of purchase. The units will be returned prepaid.

3. Should you require Warranty Service, please contact your Dealer/Installer. If further assistance is required, call SOUND ADVANCE SYSTEMS at 800-592-4644 (within U.S.) or 714-556-2378 - 8:00 A.M - 5:00 P.M. Pacific Time, or Fax at 714-556-5425.