



Ecophon[®]

FADE[™]

Installation Guide

 **certainteed**
SAINT-GOBAIN

PANEL DIMENSIONS

48" x 48" x 1"

48" x 48" x 1.5"

INSTALLATION DIAGRAMS

FADE[™]


SAINT-GOBAIN

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Seamless acoustic plaster

The FADE™ system is a high-quality acoustic plastering system that absorbs unwanted noise. As an acoustic plaster solution spray applied, its highly absorbent qualities allow for optimum acoustic control in a variety of spaces.

The system offers a more flexible, seamless and discreet alternative to traditional modular acoustic solutions such as suspended ceilings and acoustic panels.

FADE brings together aesthetics and acoustic performance which makes it ideal for a wide range of projects ranging from historic buildings to high-end residential, commercial, retail and educational spaces.

Full technical information is available from CertainTeed.

Please note that FADE system should only be installed by approved installers.

IMPORTANT: Please read through this entire installation guide before starting your project.

INSTALLATION

Preparation

1. Installation only in indoor spaces.
2. Wet activities such as plastering, taping, painting, and trowel work must be completed first and thoroughly dried.
3. The application must occur at temperatures above 39° F (4° C), recommended room temperature for optimal drying conditions is 60-77° F. If necessary, the construction site may be appropriately heated with the relative humidity not to exceed 50%.
4. Integrations such as lights, speakers, ventilation, and access panels should be planned in advance; retrofitting is not possible.
5. Ensure tools and machines are in good condition.
6. Ensure all required material is available and on-site prior to starting installation.
7. FADE™ acoustic plaster is delivered in buckets.
Note that 17 fl oz of water must be added to the plaster and mixed carefully.
8. It is recommended to use a surface scaffold for work at great heights, as the final steps must be carried out in one pass.

Consumption for accurate calculation

For installation of **FADE** 0.39 lb/ft²

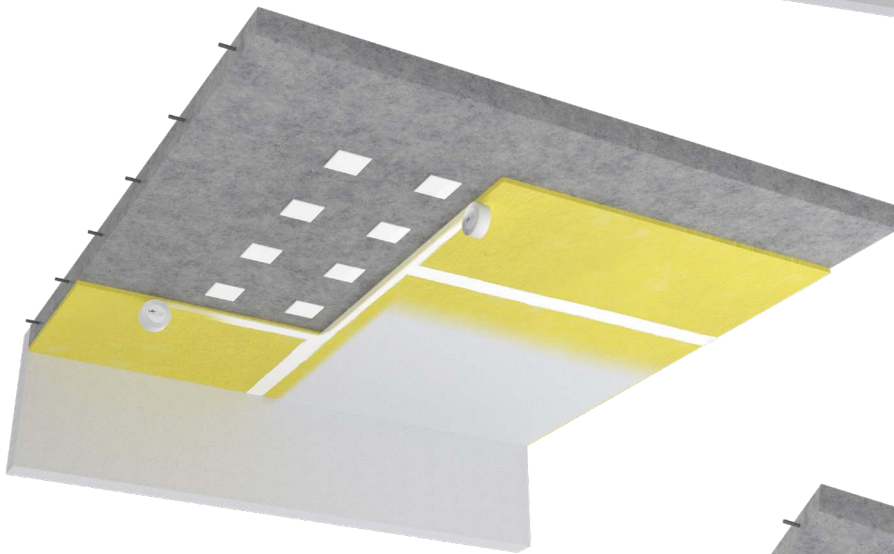
TYPES OF INSTALLATION

FADE™ acoustic plaster system can be installed in different ways.
All installation diagrams can be found on Ecophon.com.

Mechanically Fastened Application

FADE™

The acoustic boards are installed directly onto a gypsum board, concrete or plywood substrate with either **FADE Special Adhesive** or mechanically fixed with **FADE Special Washers**.



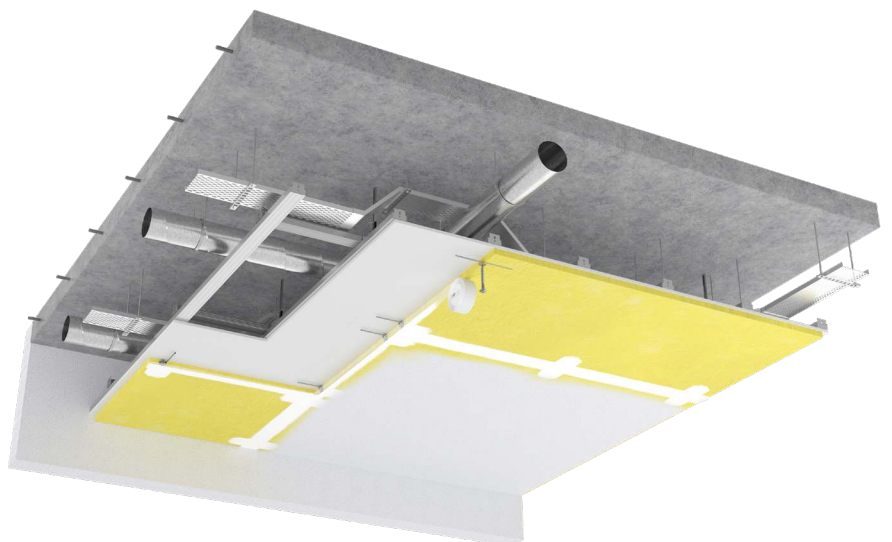
Adhesive/Glued Application

FADE

Suspended Ceilings

FADE

FADE boards can also be installed onto CertainTeed's 1-1/2" Drywall Suspension System or CertainTeed's QuickSpan Locking Drywall System at 16" O.C. spacing using **FADE Special Washers**.



FADE™ SMOOTH - SMOOTH SANDED FINISH

Installation timeline

A step-by-step guide to installing the FADE™ Smooth acoustic plaster system. The drying time of the plaster depends on the room temperature and the room humidity. Allow the acoustic plaster to dry thoroughly before proceeding to the next steps.

Detailed step-by-step instructions are found on later pages on this install guide.

STEP 1 ON SITE

INSTALL THE FADE ACOUSTIC BOARDS. FILL JOINTS, WASHERS AND IRREGULARITIES

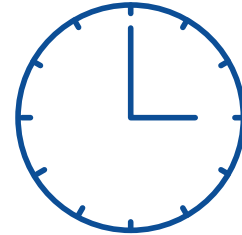
The acoustic boards are installed with adhesive or screws and FADE Special Washers. Joints are taped with FADE Special Tape. Joints, washer gaps and irregularities are filled with FADE Smooth plaster.



STEP 2 ON SITE

LET THE PLASTER DRY FOR AT LEAST 24 HOURS

The drying time of the FADE Acoustic Plaster depends on the room temperature and the room humidity. In hot and dry conditions, the drying may take less time. Please allow the acoustic plaster to dry thoroughly before proceeding to the next steps.



STEP 3 ON SITE

SPRAY FIRST LAYER

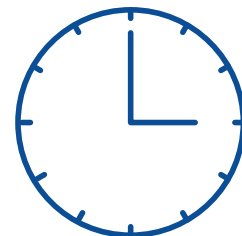
Lightly sand the fillings and joints to get an even surface. Spray the first layer of FADE Smooth. Smooth the surface with a wide trowel. Plaster consumption 0.18 lb/ft².



STEP 4 ON SITE

LET THE PLASTER DRY FOR AT LEAST 24 HOURS

The drying time of the FADE Acoustic Plaster depends on the room temperature and the room humidity. In hot and dry conditions, the drying may take less time. Please allow the acoustic plaster to dry thoroughly before proceeding to the next steps.



FADE™ SMOOTH - SMOOTH SANDED FINISH

STEP 5 ON SITE

SAND THE FIRST LAYER. SPRAY THE 2ND LAYER WITH FADE™ SMOOTH ACOUSTIC PLASTER

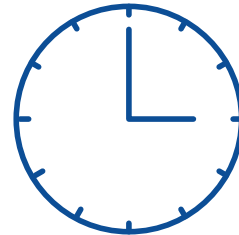
Once the first layer of acoustic plaster is completely dry, sand the entire surface. The second layer of acoustic plaster is sprayed. Smooth the surface with a wide trowel. Plaster consumption 0.18 lb/ft².



STEP 6 ON SITE

LET THE PLASTER DRY FOR AT LEAST 24 HOURS

The drying time of the FADE Acoustic Plaster depends on the room temperature and the room humidity. In hot and dry conditions, the drying may take less time. Please allow the acoustic plaster to dry thoroughly before proceeding to the next steps.



STEP 7 ON SITE

SANDING

Once the second layer of acoustic plaster is completely dry, sand the entire surface for a smooth finish. Total thickness of acoustic plaster full installation: 1/16".



Please note, the timeline serves as orientation, lists the necessary work steps and defines the minimum amount of time that must be taken into account.

A thicker plaster layer (compared to the recommended thickness of 1/16") may be applied to achieve a smoother aesthetic and visual finish. However, this may reduce the acoustic performances of the product.

CHECK LIST

TOOLS/MACHINES	APPLICATION	RECOMMENDATION
Pencil, folding ruler, utility knife	Measuring and cutting the absorbers	Standard
Cordless screwdriver	Fastening the absorbers in a screw-mounted installation	Commercially available professional tools
Notched trowel with 5/16" notch	Applying the adhesive in glued installation	Standard or available through CertainTeed
Trowel, smoothing trowel	Applying plaster to the special washer and the special joint tape	FADE™ Trowel Box available through CertainTeed
Plaster pump / Spray hopper	For applying plaster layers	For example: Graco RTX 5500, 5000
Trowel set	For smoothing the plaster layers	FADE trowel box offered by CertainTeed
Wall and ceiling sander	Sanding after the first layer with FADE	Sanding machine without brush rim on the sanding disc. For example Mirka LEROS 950CV EU. With sanding discs grainsize 220 perforated.
Drywall Suspension System	When installing boards to a suspended ceiling	CertainTeed Drywall Grid or Quickspan at 16" O.C. spacing.

Processing instructions

MATERIALS	FASTENERS	MACHINES FOR APPLYING PLASTER	MACHINES FOR SANDING
All materials to be used must be checked for their quality and completeness: • Undamaged panels (stored out of direct sunlight) • Frost-free stored plaster (stored out of direct sunlight) It is important to handle all materials carefully from the beginning.	It is necessary to procure corrosion-resistant fasteners suitable for the substrate from the construction site.	FADE should only be applied using machines of the recommended type.	FADE should only be sanded using non-rotating sanding machines with dust extraction.

Construction site setup

- Scaffolding
- Protective covering material
- Construction lights
- Tools and equipment for panel installation
- Tools, machines, and equipment for coating
- Possibly dehumidifiers / fans
- Planning documents for integrations (Reflected Ceiling Plan)
- Installation instructions and training for installers

REQUIREMENTS AND CONDITIONS

The installation of the FADE™ acoustic plaster should take place in the final phase of interior finishing. The installer must check the on-site conditions.

REQUIREMENTS

- The application takes place only in enclosed indoor spaces.
- The application must occur at temperatures above 40°F, recommended room temperature for optimal drying conditions is 60-77°F. If necessary, the construction site must be appropriately heated.
- In case of very high humidity (>50%), dehumidification measures are required. Under cold or humid conditions, the drying time of the plaster is extended, and in rare cases, the joints may crack if the plaster dries from the inside out.
- FADE acoustic plaster comes pre-mixed in buckets. Before installation 16 fl oz of water needs to be carefully mixed into each bucket.
- Storage: Always store in containers that are made of the same material as the original container provided by CertainTeed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Storage temperature: Frost free and dry conditions (38°F or above). Shelf life: 12 months.
- Ensure that the acoustic boards are being protected from direct and indirect sunlight. If the acoustic boards are exposed to direct or indirect sunlight, there is a risk of discoloring. Once the first layer of acoustic plaster has been applied there will be no problems with sunlight exposure.
- For adhesive installation, the substrate must be checked for suitability.
- Suitable substrates generally include: regular plasterboard / drywall, CertainTeed Drywall Grid, concrete, previously painted surfaces, wood or steel stud framework 16" O.C.
Note: Gypsum/drywall, concrete & wood substrates should be primed with a stain blocker (ex. KILZ Original).
- Note: If the installation of the substrate (metal construction, plasterboard, etc.) is carried out by third parties, the installer must ensure that the substrate is acceptable and completely level.
- The FADE acoustic plaster and Fade Special Adhesive are not suitable for levelling uneven substrates.

TOOLS AND MATERIALS

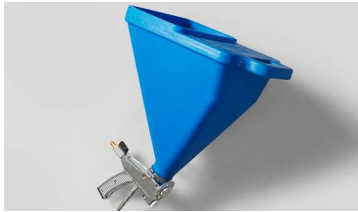
Tools and equipment mentioned below serve as a guideline for standard equipment recommended for installing the system. If installation has been carried out using materials that have not been approved by CertainTeed prior to installation CertainTeed reserves the right to decline any liability claims or any claim on the warranty.

EQUIPMENT	ITEM NO.	
FADE™ Acoustic Plaster	1471910	
Acoustic Boards 48" x 48"	37573294 = 4' x 4' x 1" 37573295 = 4' x 4' x 1.5"	
FADE Special Joint Tape	15703-EU	
FADE Special Adhesive	15704-EU	
Tape Measure	Sourced Locally	
Utility Knife	Sourced Locally	

TOOLS AND MATERIALS continued

EQUIPMENT	ITEM NO.	
Trowel for Adhesive 5/16"	15731-EU Or sourced locally	
FADE™ Special Washers	15734	
FADE Trowel Box To fill gaps, joints, and troweling the plaster. Containing: Silver line trowel 8", 16", 24" and 32" Silver line recharge blade 8", 16", 24" and 32" 1 adapter for Silver line trowels and extension shaft 1 extension shaft for Silver line trowel 1 trowel 6"	15716-EU	
Electric Drill / Screw Gun	Sourced locally	
Mixing Machine To mix the acoustic plaster with water or color dye.	Sourced locally	
Hand Mixer To mix the acoustic plaster	Sourced locally	

TOOLS AND MATERIAL continued

EQUIPMENT	ITEM NO.	
Spray Hopper Or a plaster pump for larger projects. (ex. Graco RTX 5000/5500) Nozzle size: 4mm	Sourced Locally	
Covering Material Plastic covering and tape to cover walls before spraying.	Sourced locally	
Compressor Double tank compressor is recommended. A large air tank to ensure a constant pressure and flow of plaster. Smaller compressors will drop in pressure which will lead to a bad result when spraying. Air Delivery SCFM @90 PSI - 5 Max Pressure - 165 PSI Tank Size - 27 Gal or larger Reference machines: Graco RTX texture sprayer 5000 or 2000 Series	Sourced locally	

IMPORTANT INFORMATION

Before installation

- The room should be protected from direct and indirect sunlight when installing the FADE™ boards.
- Ensure a smooth, clean, dry strong surface.
- Suitable surfaces are gypsum/drywall, concrete, light concrete or building board.
- Avoid surfaces which are sensitive to moisture or water.
- The surface, boards, plaster and adhesive must be at a temperature between 50-77°F.
- When using color tinted plaster, in order to ensure the correct color, tinted color plaster should be used through the whole installation from filling of joints and irregularities, first layer and second layer.
- In case of doubt or uncertainty, an adhesion test should be carried out prior to the installation. Please contact your CertainTeed representative.

Required personal protective equipment

- Mask
- Gloves
- Eye Protection

INSTALLATION PROCESS

Check construction site conditions

During the installation of acoustic panels, a stable substrate is required:

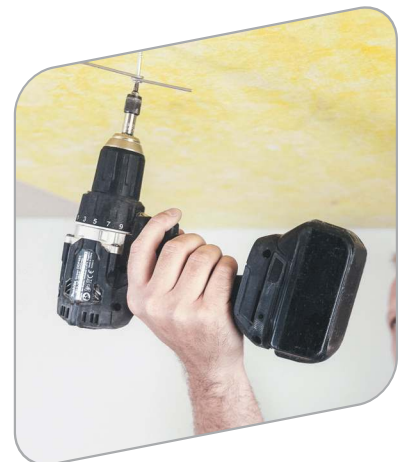
- For suspended installation, CertainTeed Drywall Suspension System and/or Quickspan should be used following the standard installation guidelines. Use 16" on-center spacing.
- For adhesive installation, the existing substrate must be checked for load-bearing capacity.

The acoustic panels should be inspected for defects or damage. It must be ensured that only flawless acoustic panels are used.

Ensure that all necessary tools and machines are available (see checklist).

Installation

- Layout integration supports according to the ceiling plan and use a barrier primer (es. KILZ Original).
- Install FADE boards in staggered pattern to avoid "cross joints" and continuous joints in both directions (see diagram below).



Installation screwed with
Fade Special Washer



Installation glued with
FADE Special Adhesive

INSTALLATION PROCESS continued

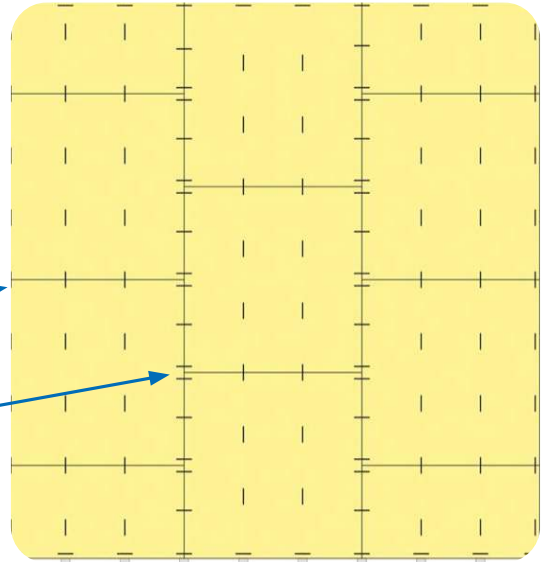
Installation by screwing with FADE™ Special Washer

Schematic representation of the Special Washer for securing the acoustic panels. The maximum spacing between Special Washers is 16".

Maintain an approximate distance of 2" from the edge area.

The spacing between Special Washers at panel joints is approximately 3".

NOTE: FADE™ Special Washers **MUST** be used if install is not a glue-up application. Warranty will be voided if required FADE materials are not used.



Steps for installing and finishing FADE Special Washers:

NOTE: Screws are not provided. Use non-corrosive, suitable hardware based on the substrate.



Screw the FADE Special Washer through the acoustic panel.



Make a slight incision on the side without the eyelet.



Recess the FADE Special Washer.

SEQUENCE OF INSTALLATION

Installation by gluing with FADE™ Special Adhesive.
The maximum spacing between adhesive application is 16".
Maintain an approximate distance of 2" from the edge area.



Prepare acoustic plaster for processing

- Add 16 fl oz of water into each FADE bucket and mix carefully.
- For color applications (only possible with textured finish), add and mix color tint/pigment into EACH coat. Pigment mix ratios are printed on the tint bottles as ratios vary based on color tone. All color mixing is done on-site by the installers.
- The amount of water added to plaster (16 fl oz per bucket) must be reduced by the amount of color pigment added per bucket.
Example: 250ml (8oz.) color tint that calls for 1 bottle per 3 buckets. The ratio for 3 buckets would be 40oz. of water & 8oz. of pigment/tint.

Apply FADE Special Joint Tape to all panel joints

CRITICAL NOTE: Over-Spreading Joints:

- To achieve an optically perfect result, attach FADE Special Joint Tape in all joints between boards and an extra-thin layer of FADE acoustic plaster.
- Use a minimal amount of FADE Plaster to attach the joint tape to avoid building up the joints with plaster.
TIP: Apply only enough plaster to keep joint tape in place. Tape mesh should be visible after plaster is applied.
- FADE Special Washer and irregularities are also filled with the prepared FADE acoustic plaster (possibly in color) to create a uniform surface. Plaster consumption 0.04 lb/ft².



Let the filling and the joints dry completely.

SEQUENCE OF INSTALLATION continued

When the plaster is completely dry, sand the irregularities on the board, fillings, washers and joints.

- Use a sanding machine or pole sander.
- Sandpaper Grit: 220, 10+1 holes.
Note: Sandpaper should be pre-worn to knock down high surfaces.
- Gaps between acoustic ceiling and other wall material more than 1/8" should be filled with acrylic sealant.



Applying the first layer of FADE™

Spray the first layer of FADE™ plaster. Consumption 0.18 lb/ft² / Coverage 40 sq. ft. per bucket

- Smooth the sprayed surface with a wide trowel

FADE acoustic plaster is applied only through spray technology

- For areas up to 1000 ft², spray hopper can also be used. Processing methods such as hand spreading will not achieve satisfactory results and are outside any warranties. For areas larger than 1,000 sq.ft., a plaster pump sprayer is recommended.
- Smoothing with the trowel is done in order to smooth the surface and not to reduce applied material thickness.
- The drying time must be observed as it can vary depending on the room climate. The first plaster layer must be completely dry before additional coating.

SEQUENCE OF INSTALLATION continued

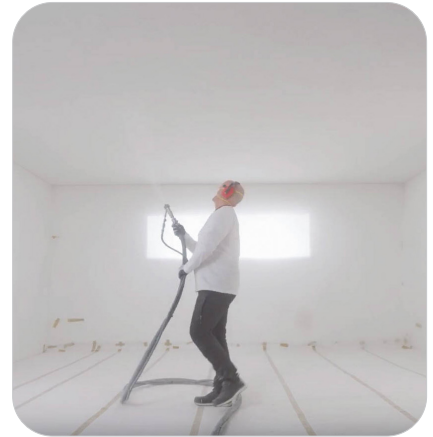
Sand the whole surface of the dry FADE™

- Start sanding next to the walls.
- Lightly sand the entire surface to an even finish. A sanding machine or manual sanding pole can be used.
- The sanding process must be carried out in circular, figure-eight motions to prevent striping.
- If necessary, blow away dust on the surface with a compressor and air.



Spray the second plaster layer with FADE

- The first layer must be completely dry before applying the second layer.
- Spray the second layer with FADE. Plaster consumption 0.18 lbs/ft² & coverage of 40 sq.ft./bucket.
- Air pressure, constant airflow on 90 to 120 PSI.
- Nozzle size 5/32" (4 mm).
- Smooth the surface with a wide trowel.
- The finished plaster layer must not exceed a total thickness of 1/16" (1.5 mm).
- Drying time must be observed as it can vary depending on the room climate.



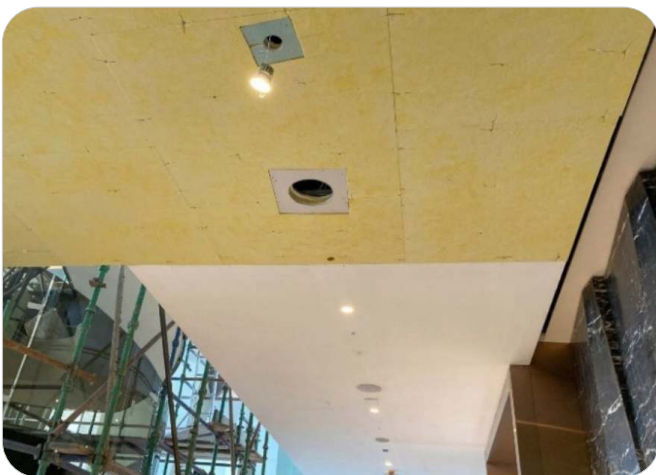
Finalize by sanding the whole surface of the dry FADE

- Start sanding next to the walls.
- Lightly sand the entire surface to an even finish. A sanding machine or manual sanding pole can be used.
- The sanding process must be carried out in circular, figure-eight motions to prevent striping.
- If necessary, blow away dust on the surface with a compressor and air.

To achieve the acoustic performance outlined in the product data sheets you must respect the instructions in the installation guides for FADE, both documents available on [Certainteed.com](https://www.certainteed.com). A thicker plaster layer (compared to the recommended thickness of 1/16") may be employed to achieve a smoother aesthetic and visual finish. However, this may reduce the acoustic performances of the product.

INTEGRATIONS AND TRANSITIONS

- For integrations, support boards must always be installed. We recommend gypsum boards with the same thickness as the absorber to be installed. These need to be primed with a barrier primer before applying FADE™ acoustic plaster.
- The transitions, like the panel joints of the absorbers, need to be treated in the same way.
- A retrofit into a completed FADE ceiling is not possible.
- The acoustic panels cannot bear any loads!



CORNER CONFIGURATIONS AND CONNECTIONS

External corners

Depending on the desired appearance, panel joints can be covered with a "corner guard" (e.g. CertainTeed LEVELLINE® Flexible corner trim or CertainTeed NO-COAT® Flexible Corners). Make sure that the width of the corner guard is big enough to cover the whole corner. Recommended width is $x2 + 25/32$. The corner guard is to be glued with polyurethane construction adhesive (e.g. Loctite construction adhesive).

Before applying the corner guard, sand the board where the corner guard is supposed to be attached. By removing the same amount of board material as the corner guard will add, make sure that the corner guard will be at same level as the acoustic board.

Internal corners

For internal corners there is no need to use a corner protection when installing FADE™ acoustic plaster.



Connections to adjacent components

When making connections, it is important to ensure that the acoustic panels extend to the adjacent component. No joints should be formed in this area. Sensitive or adjacent components and materials must be protected from unintentional plaster splatters and moisture to prevent damage and corrosion.



Connections to adjacent components

COLORS

FADE™ acoustic plaster installed with fine texture can be tinted in color by using FADE Color Dye. Tinted plaster is used in whole installation from filling of joints, washers and irregularities, first layer to second layer.

When doing installations with tinted FADE plaster, the final layer is not to be sanded due to risk of color changes. The surface should be finished by a fine textured surface.



FADE with color dye installed with fine texture

The mixing of colors is always done on-site. Depending on the color, you will receive different packaging units: 100 ml, 250 ml, 500 ml, and 1000 ml. Please refer to the instructions on the pigment bottle for the prescribed mixing ratio.

The pigment should be shaken vigorously in the bottle before use! To make sure that all color pigment is added to the bucket(s), once the color bottle is emptied add a small amount of water in the bottle and shake it and empty that final color pigment into the bucket(s).

The pigments must be thoroughly mixed with FADE acoustic plaster. It is recommended to mix the colored plaster buckets with each other in bigger buckets to get a homogeneous color in entire installation.

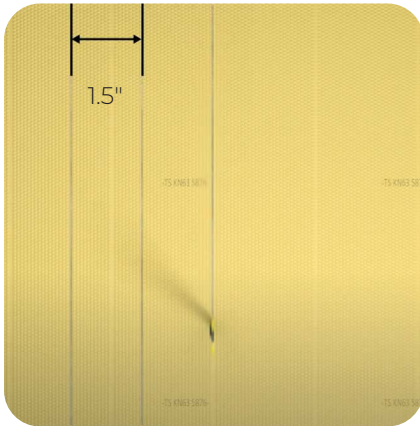
Ensure that the mixture is prepared according to the specifications to achieve the desired color. It is recommended to create a sample area to make sure that the color is correct.

FADE plaster is delivered in a 17 lb container and must be mixed on-site with the recommended amount of water stated on the plaster bucket, which is reduced by the amount of color dye added.

CURVES AND SHAPES

Bent, curved, and arched installation. A suitable and good surface is crucial.

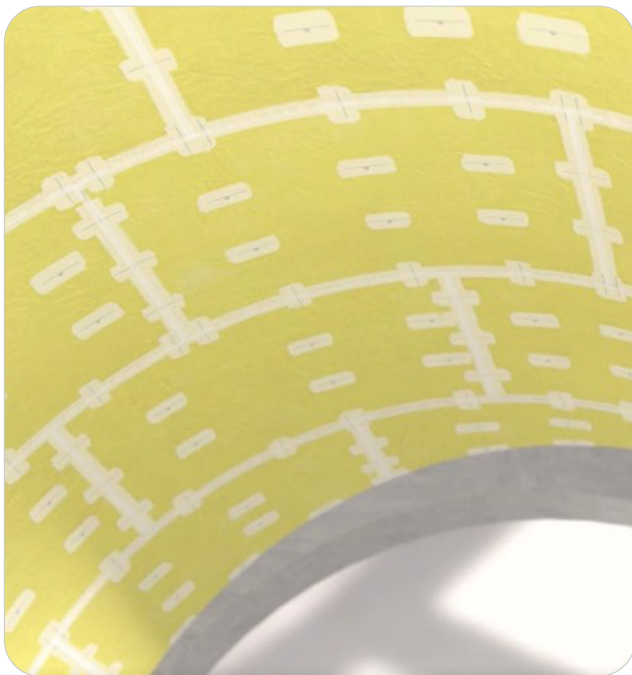
It is possible to install with screws or adhesive on a curved, bent, or arched surface.



The acoustic panels must be scored on the back and bent to match the curvature of the surface.

For an inward curve (concave), the panels must be scored from the back approximately every 1.5" (1/3 to 1/2 of the panel thickness).

For an outward curve (convex), a V-shaped cut must be made (1/3 to 1/2 of the panel thickness).



CURVES AND SHAPES *continued*

The acoustic panels are attached with screws (including FADE™ Special Washers) or FADE Special Adhesive. When mounting with adhesive, it is recommended to use special washers until the adhesive has dried.

The panel joints are covered with FADE Special Joint tape, and the tape is lightly embedded with the FADE acoustic plaster. The special washers and any irregularities are also filled with acoustic plaster. Once the plaster has dried, it must be lightly sanded to better shape the curve.

When applying the first layer of FADE acoustic plaster, care must be taken to smooth the plaster along the curve.

Once the first layer is completely dry (at least 24 hours), the surface can be sanded to further refine the curve.



MAINTENANCE AND CLEANING

The FADE™ system requires no regular maintenance. The acoustic plaster is not statically charged and therefore does not attract dust or dirt from the air. The surface can be cleaned with compressed air.

Any use of water or cleaning fluid will lead to clogging of the porous structure, resulting in a reduction of sound-absorbing effectiveness.

All craftsmen involved in the project are to be informed that all work on the system must be carried out carefully and with clean tools. Clean gloves should also be worn during the work. This advice is particularly important for subsequent installation work by other trades.

A man in a black shirt is shown from the side, holding a spray gun and applying a white substance to a ceiling. The spray gun is emitting a fine mist of the material. The background is a plain, light-colored wall.

CertainTeed is the leading supplier of indoor acoustic solutions that improve working performance and quality of life. We believe in the difference sound can make to our everyday lives, and are passionate advocates for the importance of room acoustics to people's wellbeing — whatever the space, activity or need.

Having a sound effect on people is the principle that guides all we do. We're proud of the human approach that promise is founded on. And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.



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