

Method Statement

- Applicable on all
fade® Acoustic Plaster System

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METHOD-STATEMENT-2.0#

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1. Conditions for Installation & Storage

The fade® Acoustic Plaster System is a high-quality acoustic plastering system that absorbs unwanted noise in a wide range of environments.

As an acoustic plaster solution spray applied to walls and ceilings, its highly absorbent qualities allow for optimum acoustic control in a variety of spaces.

The system can be applied on virtually any surface including straight and curved walls, dramatic angles and arching domes, offering a more flexible, discreet alternative to traditional acoustic solutions such as suspended ceilings and acoustic panels.

The system can be colored in any RAL or NCS color available.

fade® Acoustic Plaster System brings together aesthetics and acoustic performance which makes it ideal for a wide range of developments ranging from historic buildings to high-end residential, commercial, retail and educational spaces.

We gently remind you that this system data sheet is a general guide on how the system is installed and specific technical advice is recommended before proceeding with any transaction.

Full technical information is available from your local fade® approved installer or from fade® Acoustic Ceilings.

Please note that the fade® Acoustic Plaster System can only be installed by fade® approved installers.

a. Conditions for Installation

Project Site Conditions

The installer must ensure that the project site is properly heated (if the installation takes place in cold climates) and that the project site can be dehumidified if necessary (if the installation takes place in a hot and humid climate). It is recommended that installation is carried out in temperatures above 4°C (39.20 °F).

Please note:

- In cold or humid conditions, the acoustic plaster will have a longer drying time and in some cases the plaster can crack due to the plaster drying from the "inside" and out.
- The building must be watertight to prevent any water leaks destroying the acoustic plaster system.
- The project site must have access to clean running water.
- When installing the system in buildings where there is a risk of movement in the construction due to materials settling the installer must take the necessary precautions.

Substrate

Suitable substrates are:

Regular gypsum wallboard/drywall, MF metal drywall grid system or similar 400mm (15 3/4") c/c, concrete, previously painted substrates, timber or steel studs 400mm (15 3/4") c/c.

Please note:

- If installation of the suitable substrate is done by others the installer must ensure that the substrate is acceptable, installed 400mm (15 3/4") c/c and completely flush before installing the acoustic boards.
- If the acoustic boards are installed onto a previously painted substrate with adhesive the installer must ensure that the bond-strength of the substrate is suitable for installation.
- If the acoustic boards are installed "direct-to-grid" the installer must ensure, that the building or the construction between floors is airtight to prevent dust deposits on the finished ceiling from airflow.

Acoustic Boards

The installer must ensure that the acoustic boards are being protected from direct and indirect sunlight at all times prior to the application of the acoustic plaster. If the acoustic boards are exposed to direct or indirect sunlight, there is a risk that the resin in the acoustic boards will activate and the acoustic plaster may discolor due to the activated resin. Once the first layer of acoustic plaster has been applied there will be no problems with direct sunlight.

Please note:

- The installer must ensure that the acoustic plaster is applied immediately after the acoustic boards are fixed to prevent any problems occurring from exposure to direct or indirect sunlight.

Acoustic Plaster

fade® Acoustic Plaster comes pre-mixed in buckets. The installer may need to add water to the plaster and mix again before installation. The amount of water that should be added to the acoustic plaster depends on the spray machine being used.

Please note:

- If acoustic plaster is sprayed directly on gypsum, please ensure that the gypsum has been primed prior to spraying. If not primed the sprayed area might discolor.
- The installer must ensure that each layer of fade® Acoustic Plaster is completely dry before applying a new layer of acoustic plaster on top. Failure to do so may result in the acoustic plaster cracking.

Colored Acoustic Plaster (fade® Acoustic – COLOR)

The color dye comes in bottles. Light colors will be filled in 100-250ml (3.38-8.45fl oz) bottles whereas strong colors will be filled in 500-1000ml (16.91-33.81fl oz) bottles. The bottles should be mixed into the acoustic plaster as per the instructions given by either your local distributor or from fade® Acoustic Ceilings.

Please note:

- The installer must ensure that the color dye is thoroughly mixed together with the acoustic plaster.
- Please ensure that the person in charge of the project site always approves the colored finish before the installation begins either by installing a mock-up or by asking fade® Acoustic Ceilings to provide you with a colored sample with the exact finish you are looking to achieve.

b. Storage

Acoustic Plaster

Always store in containers that are made of the same material as the original container used by fade® Acoustic Ceilings. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature: Frost free and dry conditions

Shelf life: 12 months

Acoustic Boards

Always store away from direct and indirect sunlight to avoid resin bleed through and damage to the acoustic boards.

Storage temperature: Frost free

Shelf life: 12 months

c. Inspection or Approval

When inspecting the finished acoustic plaster system for approval purposes please note that the inspection should be as per BS EN 13914 -2, which advises that works should be inspected for acceptance from positions normally used in adjacent areas. This is normally from an entrance doorway and from the center of a room in a domestic house and from about 2m (78 3/4") away from the surface in larger areas.

2. Types of Installation

Direct Installation (Type A)

The acoustic boards are installed directly onto the substrate either

- with approved adhesive or
- mechanically fixed with fade® Special Washers.

If the acoustic boards are installed using adhesive, please test the substrate for bond strength and clean the substrate prior to installation them.

It is the installers responsibility to ensure that the substrate is suitable for the use of adhesive as a fixing method.

Direct to grid (Type E)

The acoustic board is installed directly to a MF metal drywall grid system 400mm (15 3/4") c/c or similar with the fade® Special Washers.

When installing direct-to-grid the installer must ensure that the building is airtight to prevent dust deposits from airflow through the open-pored acoustic plaster system.

fade® Acoustic Plaster without acoustic board

The acoustic plaster is sprayed directly onto a primed plasterboard or concrete substrate to a total thickness of 3mm (1/8").

The installer must ensure that any cracks or indents in the substrate has been filled before spraying the plaster.

Suitable substrates:

- Regular gypsum wallboard
- MF metal drywall grid system 400mm (15 3/4") c/c or similar
- Concrete
- Previously painted substrates
- Timber/steel frame system 400mm (15 3/4") c/c or similar

3. Standard Finishes

fade® Acoustic - PLUS+

An ultra-smooth finish

item no. 14719

1 unit:	1 bucket containing 7.5kg (16.53lb)
Usage per m2 (sq'):	Approx. 2.5kg (5.5lb)
Effect per unit (7.5kg (16.53lb)):	Approx. 2.5-3m2 (26.90-32.28sq')
Grain size:	0.7mm (7/254")
Standard color:	NCS S 0300-N / RAL 9016
Shelf life:	12 months



fade® Acoustic - ALBUS

A smooth finish

item no. 14717

1 unit:	1 bucket containing 10kg (22.05lb)
Usage per m2 (sq'):	Approx. 4kg (8.82lb)
Effect per unit (7.5kg (16.53lb)):	Approx. 2.5-3 m2 (26.90-32.28sq')
Grain size:	2mm (1/16")
Standard color:	NCS S 0500-N / RAL 9010
Shelf life:	12 months



4. Materials

We strongly recommend that installation is carried out using only materials that have been approved or recommended by fade® Acoustic Ceilings.

In the event that installation has been carried out using materials that have not been approved by us prior to installation we reserve the right to decline any liability claims or any claim on the warranty.

a. Acoustic Boards

Isover

item no. 006605356-EU

Acoustic board thickness	20mm (3/4")
Acoustic board dimensions	2700x1200mm (106 5/16x47 1/4")
Acoustic board density	116kg/m ³
Reaction to fire	Euroclass A2-s1, d0



Ecophon

item no. G35573262-EU

Acoustic board thickness	25mm (1")
Acoustic board dimensions	1200x1200mm (47 1/4x47 1/4")
Acoustic board density	110kg/m ³
Reaction to fire	< 2 MJ/kg (ISO 1716)



Ecophon

item no. G35573260-EU

Acoustic board thickness	40mm (1 1/2")
Acoustic board dimensions	1200x1200mm (47 1/4x47 1/4")
Acoustic board density	110kg/m ³
Reaction to fire	< 2 MJ/kg (ISO 1716)



b. Special Metal Fixings

Used to mechanically fix the acoustic boards to a suitable substrate.

fade® Special Washer

item no. 15701-EU

Usage per m2 (sq'):	Approx. 8pcs
Load capacity	0.63 kN - 0.75kN
Durability (against corrosion)	Class A
Reaction to fire	Euroclass A1



c. Adhesive

Adhesive for direct installations on ex. concrete, plasterboard/gypsum and previously painted substrates.

GlueFast Adhesive 1200+ all season

item no. 15704-EU

1 unit:	1 bucket containing 10kg (22.05lb)
Usage per m2 (sq'):	Approx. 0.7kg (1.54lb)
Effect per unit (10kg (22.05lb)):	Approx. 14m2 (150.64sq')
Initial tack:	Minimum 125kg/m ² (275.62lb/sq')
Shelf life:	12 months (frost free)



d. Self-adhesive Fiberglass Scrim Tape

fade® Special Tape used on joints between acoustic boards to support the construction.

fade® Special Tape

item no. 15703-EU

1 unit:	Roll 50mm x 100m (115/16x3937")
Usage per m2 (sq'):	Approx. 1.5m (59 1/16")
Effect per unit (100m (3937")):	Approx. 60m2 (645.60sq')



e. fade® Acoustic COLOR dye

Color dye provided by fade® in the NCS/RAL color of your choosing.

*Please ask your local fade® representative for more information on colors and installation.

fade® Color dye

item no. 14717.C.INT / 14719.C.INT

1 unit:	1m ² (10.76sq')
	100ml, 250ml, 500ml, & 1000ml
Bottle sizes:	(3.38fl oz, 8.45fl oz, 16.91fl oz, & 33.81fl oz)



f. Miscellaneous Materials

Materials used when installing the system.

Plastic covering	To cover walls before spraying
Sanding pads	Grain size: 220
Tape	For edges before spraying



5. Tools & Equipment

Tools and equipment used for installation of the system may vary from installation company to installation company and from one part of the world to another part of the world.

Tools and equipment mentioned below therefore serve as a guideline for standard equipment we recommend installing the system. In case of doubts please do not hesitate to contact us and ask if you can use a certain tool or equipment for your installation.

a. Standard Installation Tools

Tools and equipment used for standard installations.

Knife & measurement tool

To measure and cut the acoustic boards



Screwing gun

To install acoustic boards mechanically



Trowel set +
trowel attachment

To fill gaps, joints and troweling the plaster

**These items can be purchased from fade®*



50L (12.5U.S. gallons) mixing bucket

To mix the acoustic plaster with water or color dye



Mixing paddle

To mix the acoustic plaster with water or color dye



Cura 2500

To spray the acoustic plaster

Technical details:

Output: 1-25 l/min
(.25-6.25U.S. gallons/min)
Max grain size:
2-4mm (1/16-3/16")
Motor 400V / 2,2kW / 50Hz
/ 16A
AC Inverter; stepless speed
variation



Spray Hopper

To spray the acoustic plaster on areas less than 50m² (538sq')

Technical details:	Air Spray Trigger Gun
	Four Nozzles (4mm, 6mm, 8mm, 12mm (3/16", 1/4", 5/16", 1/2"))
	<i>*This item can be purchased from fade®</i>



Compressor

To be used together with the plaster pump or the spray hopper

Technical details:	Minimum 400L (0.25U.S gallons)/min constant air pressure
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6. General Installation Guide

This is a general guide on how the system is installed. The guide will only show the installation of the fade® Acoustic Plaster System. For information about suitable substrates and how to properly install substrates (e.g. MF metal grid) please see our construction details or our DWG library or consult with your local fade® distributor.

1. Suitable Substrate

Done by others.



2. Acoustic Board

The acoustic boards are installed to the suitable substrate with tight joints. Installation can be done with an approved adhesive or mechanically with screws and fade® Special Washers 400mm (15 3/4") c/c.



3. Filling – Joints

fade® Special Tape is applied to the joints and filled with acoustic plaster to an even surface.

Steps 3 & 4 are all done in the same workflow.



4. Filling – Washers & Irregularities

Washers and any irregularities/indents are filled with acoustic plaster to a level and flush surface.

After joints, washers and any irregularities have been filled, the plaster must dry for at least 24 hours

The Acoustic plaster on joints and washers can be given a light sanding when dry to remove any irregularities.

**This step may have to be repeated once the plaster has dried out and until one has achieved a completely levelled and flush surface with no indents or irregularities.*



After joints, washers and any irregularities have been filled, the plaster must dry for at least 24 hours (see "8. Installation Time" below).

Acoustic plaster on joints and washers are sanded lightly when dry to remove any irregularities.

5. Spraying & troweling the *first* layer of plaster

The first layer of acoustic plaster is spray-applied onto the boards and trowelled smoothly immediately after being applied.

Use a 4mm nozzle to avoid clumping.

1st layer should be slightly thicker to help hide imperfections.



Trowel the acoustic plaster gently and to a smooth surface.



6. Spraying & troweling the *second* layer of plaster

The second layer of acoustic plaster is spray-applied onto the boards and trowelled smoothly immediately after being applied.

The plaster is applied in two layers with a minimum of 24 hours of drying time between each spraying (see "7. Installation Time" below).

Once sprayed and trowelled the plaster should build 3-4mm (1/8-3/16") thickness in total.



Trowel the acoustic plaster gently and to a smooth surface.



7. Sanding

Once the second layer of acoustic plaster is completely dry and for a completely smooth finish, sand the entire surface until satisfied.

Use a 220 grainsize sandpaper for the best result

Excess dust on the surface from sanding can be blown away using high pressurized air.

Use an electrical sander with a vacuum cleaner attached to avoid dust.

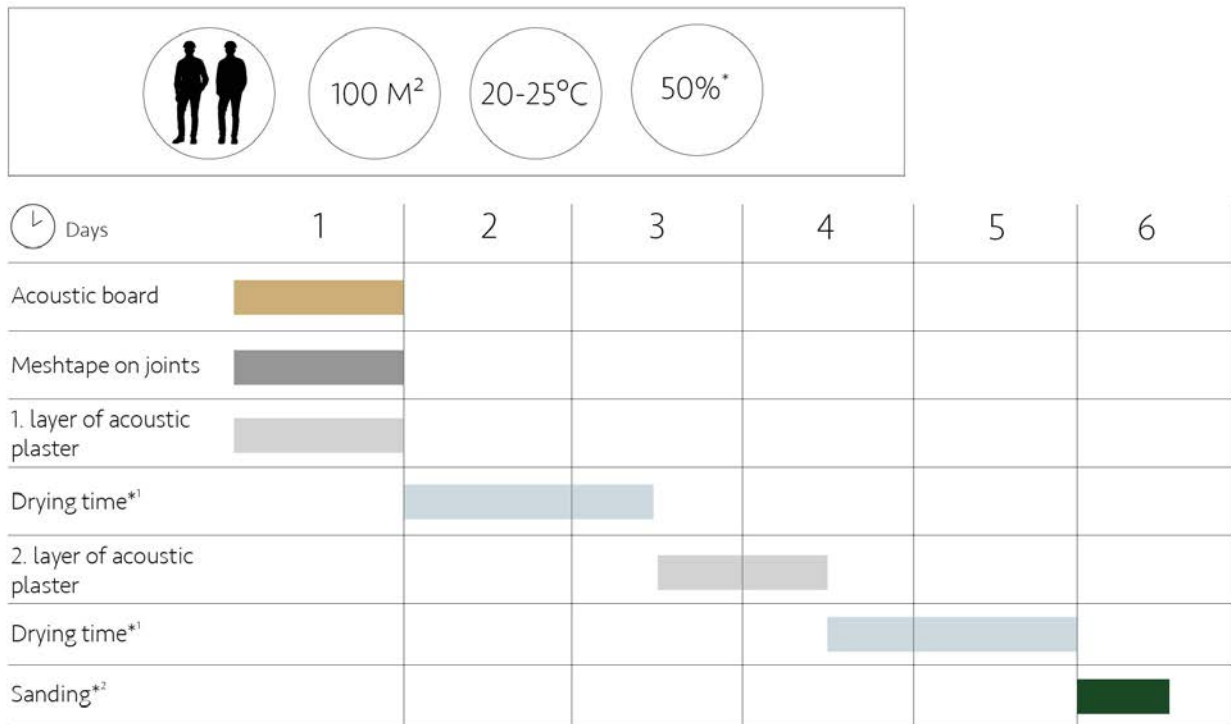
Sand using circular movements for the best result



7. Installation Time

The installation time in this example presuppose a work group of 2 installers and a ceiling size of at least 100m² (1076.39sq').

The drying time of the fade® Acoustic Plaster depends on the room temperature and the room humidity. Please allow the acoustic plaster to dry thoroughly before proceeding to the next steps.



100M² (1076.39sq'), 20-25°C (68.00-77.00 °F)

* Relative Room Humidity

*¹ Depends on the room temperature and humidity. In hot and dry conditions, the drying may be less.

*² Sanding is optional and is recommended for an ultra-smooth finish

8. Maintenance, Cleaning, & Repairing

a. Maintenance

The system does not require any general maintenance. The extent to which an individual surface requires cleaning will vary as this depends on the effects of dirt, smoke etc. The acoustic plaster is anti-static and does not attract dust or dirt from the air.

b. Cleaning

The surface can be cleaned using a soft, dry rush or pressurised air. Any application of water or cleaning fluid will lead to clogging of the porous structure and a resultant reduction of the sound absorbing properties.

c. Repairing

Stains or other damages that have penetrated the surface and cannot be removed by the actions mentioned above can be repaired by applying a thin layer of acoustic plaster onto the imbedded stain or damaged area. Apply the acoustic plaster gently and do not "force" the acoustic plaster onto the stain or damaged area.

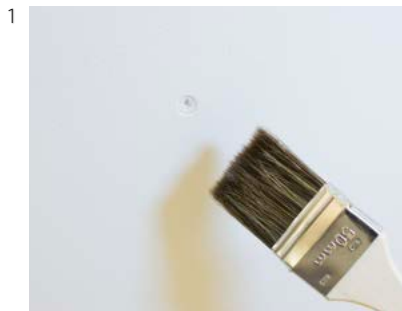
Repairing Minor Damages

1. Brush the damage gently to remove the old acoustic plaster.

2. Fill the damaged area with fade® Acoustic Plaster.

3. Let the acoustic plaster dry.

4. Sand the area until satisfied.



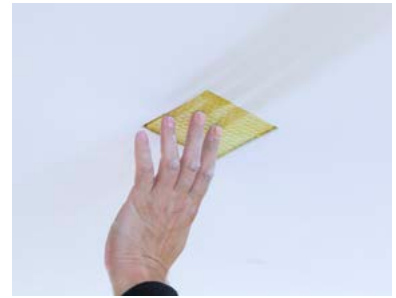
Repairing Penetrating Damages

1. Cut out the damaged area.
2. Place a new piece of acoustic board in the empty area.
3. Apply fade® Acoustic Plaster on the new piece of acoustic board and let it dry. Repeat this step to ensure that the plaster on the repaired area is level with or slightly above the plaster on its surrounding areas.
3. Sand the plaster on the repaired area until satisfied with the finish.

1



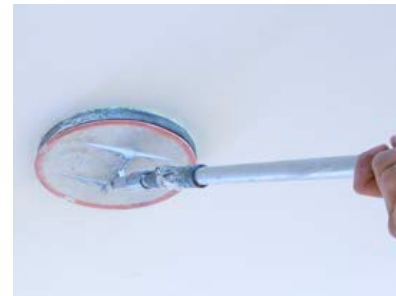
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3



4



Repairing Stain Damages

1. Remove approximately 1-2mm of the stained acoustic plaster by sanding the area.
2. Spray the stained area with a white protection spray and let it dry. Make sure, that the stain is properly sealed.
3. Once the protection spray is dry fill the damaged area with acoustic plaster.
4. Once the acoustic plaster is dry sand the area until satisfied.



1



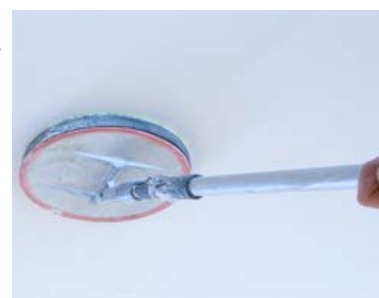
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