

# INSTALLATION INSTRUCTIONS

## BAUX ACOUSTIC WOOD WOOL

**BUILDING MATERIALS SHOULD BE BOTH SURPRISINGLY FUNCTIONAL AND REMARKABLY BEAUTIFUL WITHOUT COMPROMISING THE SAFETY AND ENVIRONMENTAL STANDARDS OF TOMORROW.**

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### **DO NOT INSTALL MATERIALS OF UNACCEPTABLE QUALITY**

Be sure to inspect materials carefully upon delivery and note any damages or quality rejections to BAUX immediately. BAUX do not bear any responsibility to adjust already installed products that don't meet expected quality standards.

Before installation, be sure to unwrap the packaging and let the products **acclimatize at least 48 hours** where the installation will take place. Let the products stay stacked. Inappropriate storage and lack of acclimatization could alter panel dimension and weight.

These instructions serve as a guide. The responsibility for recognizing and compensating for field conditions is with the installer. Installer should follow best practices for construction and workmanship. BAUX bears no responsibility for installation or contractor selection.

# GENERAL INSTRUCTIONS

## Acoustic Wood Wool

BAUX Acoustic Wood Wool is a functional, natural material made from two of the world's oldest building materials, wood and cement. The combination is simple and ingenious. Wood fiber offers excellent insulation, heat retention and sound absorption. BAUX is made from certified wood – FSC® and PEFC™ – guaranteeing that it can be traced back to responsible forestry operations. Cement, a proven and popular building material, is the binder that provides strength, moisture resistance and fire protection. Therefore, BAUX Acoustic products are versatile and durable in all climates.

## Unpacking and Handling

Please handle BAUX Wood Wool products with care during unpacking and installation. Be sure to inspect materials upon delivery and note any damages on the delivery and notify BAUX immediately.

Do not install materials of unacceptable quality. Materials waiting to be installed should be stored in original packing in a clean, climate-controlled environment free of moisture. Before installation, be sure to unwrap the packaging and let the products acclimatize at least 48 hours where the installation will take place. Let the products stay stacked. Inappropriate storage and lack of acclimatization could alter panel dimension and weight.

## Wall & Ceiling Surface Conditions

Make sure that the surface where you will install BAUX Acoustic Wood Wool is clean and free from dust. If the surface is uneven it must be leveled out before installation, this is particularly important when you install direct to the wall or ceiling.

Pay attention to painted surfaces where there is a risk for the paint to come off. Never install on a recently painted surface, the paint needs to dry properly. The responsibility for evaluating and recognizing potential issues with the paint or surface in general - and compensating for different field conditions is with the installer.

## Cutting and Painting

BAUX Wood Wool products can easily be cut to shape with a Hand Saw, Circular Saw or equal. The color does not run through the material so visible edges need touch up paint. Minor damages on the product during installation can be re-painted. Avoid repetitive re-painting since the acoustic performance may be reduced if too much paint is used.

## Installation method guidance

Below table will guide you to select an appropriate installation method depending on selected BAUX product and whether you want to install BAUX on the wall or ceiling and what kind of acoustical performance you aim for

		WALL					CEILING						
		Glue		Screw		Magnet	Glue			Screw			Magnet
		WG1	WG2	WS1	WS2	WM	CG1	CG2	CG3	CS1	CS2	CS3	CM
3D PIXEL		YES	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO
Small TILES		YES	YES	NO	NO	YES	YES	YES	YES	NO	NO	NO	YES
Large TILES		YES/NO*	YES/NO*	YES	YES	NO	NO	NO	NO	YES	YES	YES	NO
PANELS		NO	NO	YES	YES	NO	NO	NO	NO	YES	YES	YES	NO
Acoustic Performance	αw (H)	0.30-0.50	1.00	0.30-0.50	1.00	0.30-0.50	0.30	1.00	0.50-0.90	0.30	1.00	0.50-0.90	0.50-0.90
	NRC	0.40-0.60	0.95	0.40-0.60	0.95	0.40-0.60	0.40	0.95	0.45-0.90	0.40	0.95	0.45-0.90	0.45-0.90
	SAA	0.41-0.62	0.95	0.41-0.62	0.95	0.41-0.62	0.41	0.95	0.46-0.91	0.41	0.95	0.46-0.91	0.46-0.91
	Class	D	A	D	A	D-C	D	A	D-A	D	A	D-A	D-A

\* Large Parallelogram and Large Rectangle is not applicable for glue mounting on walls (WG1 and WG2). These tiles must be secured with screws.

## Acoustic Performance

The open structure of the material reduces sound reflections which makes BAUX Acoustic Wood Wool a proven sound absorber. The material dampens noise and contributes to restful acoustics in residential buildings, industrial premises, public spaces etc. BAUX is well equipped to absorb human voice frequencies (between 500-4000Hz) and is therefore often used in public spaces, offices and schools. BAUX wood wool 25 mm thickness, directly installed on the wall or ceiling performs NRC 0.40 and Alpha-w 0.30. The 3D PIXEL product with an even distribution of thicknesses 25/50/70mm perform NRC 0.60 and Alpha-w 0.50 when installed direct on the wall or ceiling. To reach higher absorption coefficients you can also use BAUX together with a 40 mm acoustic stone wool board. In this case you can reach NRC 0.95 and Alpha-w 1.0 (class-A).

## Cleaning

BAUX Acoustic Wood Wool products can be cleaned with a vacuum cleaner without being harmed. Use a brush attachment and put light pressure on the surface. Dirt attached to the surface may be removed with a brush or a wet rag. Cleaning liquids may be used. In cases of heavy soiling, light cleaning with hot steam is proposed.

## Repairs

Minor damages on the surface usually have little impact on the appearance since the boards have the same structure throughout the entire product. Minor damages can be re-painted. Boards with larger damages need to be replaced.

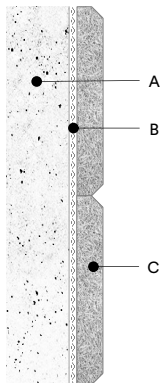
## Reuse, Recycling and Deposition

Boards that have been disassembled in connection with renovation or demolition may be reused. Wood wool boards may be ground down and recycled, e.g., as ballast and filling material, moisture absorbent sprinkling, substrate for running tracks etc. If wood wool material is deposited in nature, no negative environmental impact arises, on the contrary it adds a calcium supplement. When CO<sub>2</sub> from the air binds to the cement particles, calcium is formed (carbonation).

## WG1 – Glue directly to the Wall

- All BAUX Wood Wool products except Panels, Large Rectangle and Large Parallelogram can be installed with method WG1
- This is the fastest and most common method to install BAUX Wood Wool products

### Illustration



A: Wall  
B: Glue  
C: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Glue Application on page 10 and the complete instruction below
2. Position and mark the bottom left (or right) corner of the BAUX pattern on the wall and use this as a starting point for your installation
3. Either mount a horizontal beam below the bottom row of BAUX Wood Wool products as a foundation during installation (use laser or spirit level) or mark the bottom line with laser or tape
4. Put glue on the first piece and push it firmly towards the surface. You will be allowed to move the piece slightly on the surface to secure an exact positioning. Larger panels may be fixed with small nails to avoid gliding before the glue hardens
5. Install the first two bottom rows, piece-by-piece along the bottom beam/line. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the bottom section will grow successively further up on the pattern
6. Continue to install the pieces, one-by-one and row-by-row upwards
7. When you are finished you may remove the beam/tape
8. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

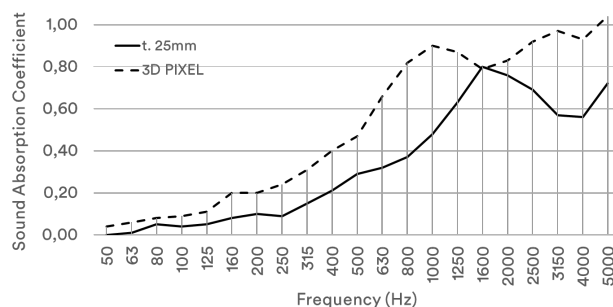
### NOTE

- i. Only use glue recommended by BAUX or a certified installation company
- ii. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

	25mm	3D Pixel
$\alpha_w$	0.30 (H)	0.50 (H)
NRC	0.40	0.60
SAA	0.41	0.62
Class	D	D

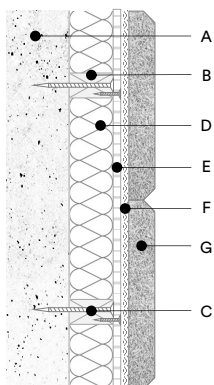
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## WG2 – Glue directly to the wall with Acoustic Stone Wool

- All BAUX Wood Wool products except Panels, Large Rectangle and Large Parallelogram can be installed with method WG2
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate

### Illustration



A: Wall  
B: Wooden Beams  
C: Screws (beams & plasterboard)  
D: Acoustic Stone Wool, 40mm  
E: Perforated Plasterboard  
F: Glue  
G: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Glue Application on page 10 and the complete instruction below
2. Install vertical or horizontal wooden beams with distance according to the Acoustic Stone Wool. Select a type of screw according to each specific field condition, i.e., depending on the surface material of the wall. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
3. Screw perforated plasterboards into the beams. Plasterboard perforation grade need to be higher than 17% in order to retain full acoustic effect from the stone wool behind
4. Glue BAUX Wood Wool products to the plasterboard according to installation method WG1
5. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

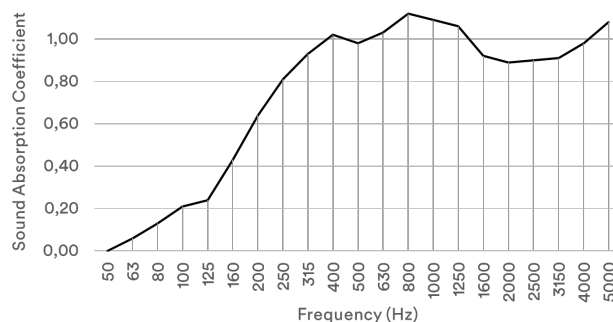
### NOTE

- i. Only use glue recommended by BAUX or a certified installation company
- ii. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

40mm Acoustic Stone Wool	
$\alpha_w$	1.00 (H)
NRC	0.95
SAA	0.95
Class	A

Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997

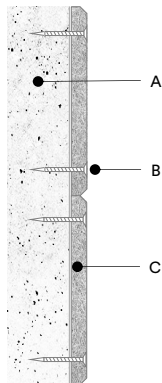


# WALL WITH SCREWS

## WS1 – Screw directly to the Wall

- Recommended BAUX Wood Wool products to be installed with method WS1 are PANELS, Large TILES and 3D Pixels
- Small TILES and 3D TILES are easier to install with method WG1

### Illustration



A: Wall  
B: Screws  
C: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Screw positioning on page 10 and the complete instruction below
2. Position and mark the bottom left (or right) corner of the BAUX pattern on the wall and use this as a starting point for your installation
3. Screw BAUX Wood Wool products to the wall, one-by-one and row by row. Begin with the first two bottom lines of pieces. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern. Select a type of screw according to each specific field condition, i.e., depending on the material of the wall. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
4. Continue to install the pieces, one-by-one and row-by-row upwards
5. When you are finished you may remove the beam/tape
6. Use touch-up paint to cover screw heads and repair any damages occurred on BAUX Wood Wool products during installation

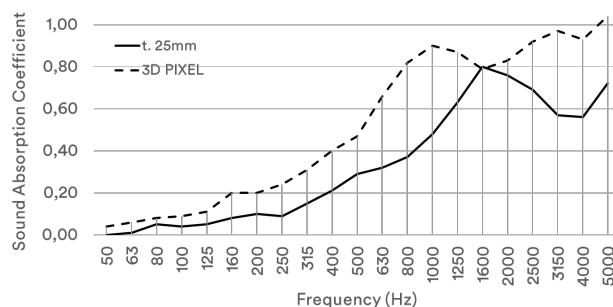
### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

	25mm	3D Pixel
$\alpha_w$	0.30 (H)	0.50 (H)
NRC	0.40	0.60
SAA	0.41	0.62
Class	D	D

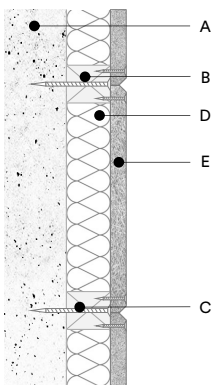
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## WS2 – Screw with Acoustic Stone Wool

- Recommended BAUX Wood Wool products to be installed with method WS2 are PANELS and Large TILES
- Small TILES and 3D TILES with distance to the wall are easier to install with method WG2
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration



A: Wall  
B: Wooden Beams  
C: Screws (beams & plasterboard)  
D: Acoustic Stone Wool, 40mm  
E: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Screw positioning on page 10 and the complete instruction below
2. Install vertical or horizontal wooden beams with distance according to the size of the Acoustic Stone Wool panels and selected type of BAUX product. Select a type of screw according to each specific field condition, i.e., depending on the material of the wall. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
3. Screw BAUX Wood Wool products into the beams. Install one-by-one and row by row. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern
4. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

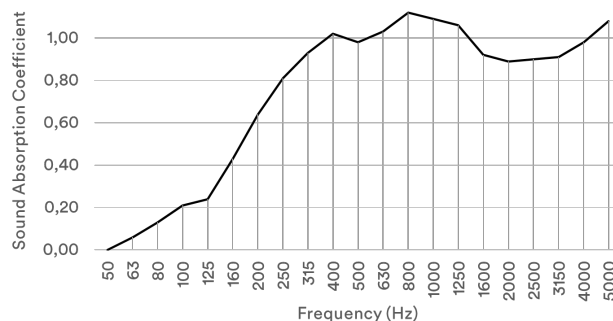
### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

	40mm Acoustic Stone Wool
$\alpha_w$	1.00 (H)
NRC	0.95
SAA	0.95
Class	A

Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



# BAUX

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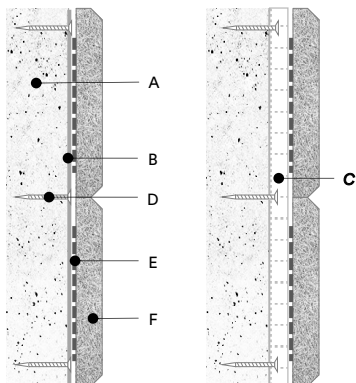
# WALL WITH MAGNETS

## WM (A&B) – Magnets directly to the Wall

- All BAUX Wood Wool products can be installed with method WM except PANELS and Large Tiles .
- WM-B method will have slightly improved acoustic performance compared to WM-A but currently BAUX have no data measurement for this

### Illustration

WM-A – Metal Sheets    WM-B – Standard Cassettes



- A: Wall
- B: Metal Sheet (1 mm thick)
- C: Standard Cassette (20 mm thick)
- D: Screws
- E: Magnets
- F: BAUX Acoustic Wood Wool

### Instructions

#### Preparation

1. Before you start, read and follow the General Instructions on page 1 and the complete instruction below
2. Measure and mark out the pattern position for your installation on the wall. Keep a distance from the sides of approximately 200mm

#### WM-A - Metal Sheets

1. Install the sheets to the wall using screws. Installer should follow best practices for construction and workmanship and select an appropriate screw and fixing type for each specific wall condition

#### WM-B - Standard Cassette

1. Attach the included brackets to the bottom of the panels
2. Install the cassettes to the wall using the attached bottom brackets and the two top holes. Start with the bottom row closest to the floor
3. For each successive row, start by folding out the flaps at the bottom of the cassette, fold them to a maximum of 90°. Place the cassette on top of a installed cassette, the folded flaps should fit in the top holes of the previous cassette. Attach the cassette to the wall using the two top holes, see detail below

#### BAUX Wood Wool products

1. Install the first two bottom rows, piece-by-piece along the bottom line. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the bottom section will grow successively further up on the pattern, see detail below
2. Continue to install the pieces, one-by-one and row-by-row upwards
3. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

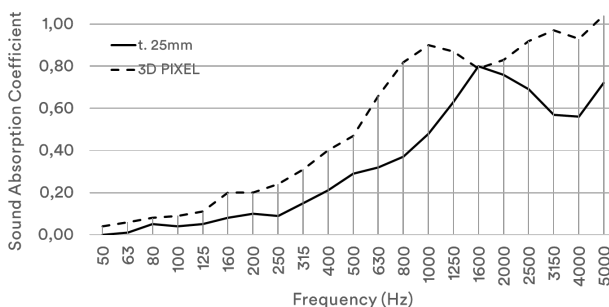
#### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

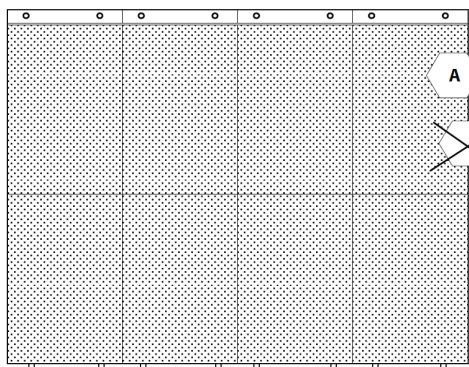
### Acoustic Performance

	25mm	3D Pixel
$\alpha_w$	0.30 (H)	0.50 (H)
NRC	0.40	0.60
SAA	0.41	0.62
Class	D	D

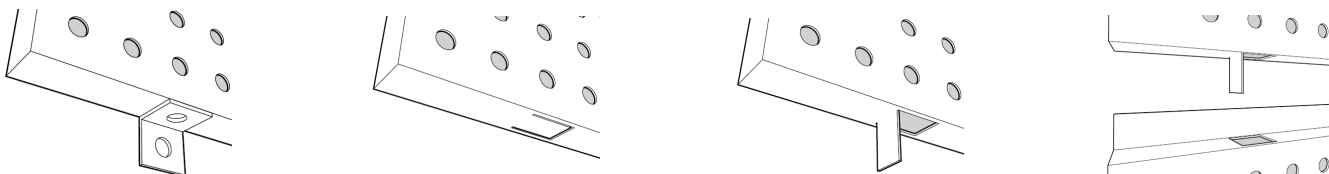
\*C with Standard Cassette  
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



### MW2 - Standard Cassette Details



Place the BAUX Acoustic Wood Wool according to the picture. They should not be placed further out than Detail A



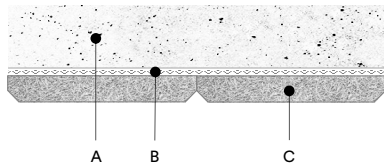
# BAUX

# CEILING WITH GLUE

## CG1 – Glue directly on the Ceiling

- Recommended BAUX Wood Wool products to be installed with method CG1 are Small TILES except 3D Pixels
- CG1 is approved according to Swedish safety regulations. Regulations outside Sweden may be different and must therefore be controlled

### Illustration



A: Ceiling  
B: Glue  
C: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Glue Application on page 10 and the complete instruction below
2. Position and mark the start of the BAUX pattern on the ceiling
3. Put glue on the first piece and push it firmly towards the ceiling. You will be allowed to move the piece slightly on the surface to secure an exact positioning
4. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern
5. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

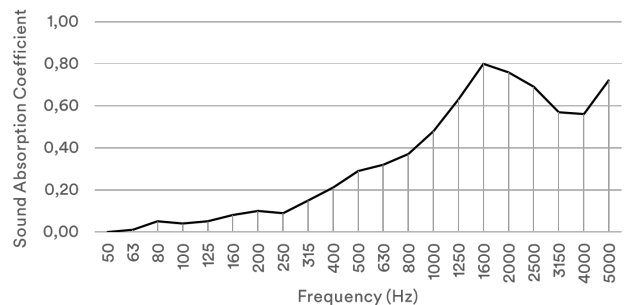
#### NOTE

- i. Only use glue recommended by BAUX or a certified installation company
- ii. An approved local ceiling installation company must verify method CG1 before usage
- iii. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

$\alpha_w$	0.30 (H)
NRC	0.40
SAA	0.41
Class	D

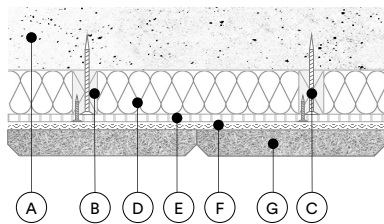
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## CG2 – Glue with Acoustic Stone Wool

- Recommended BAUX Wood Wool products to be installed with method CG2 are Small TILES except 3D Pixels
- CG2 is approved according to Swedish safety regulations. Regulations outside Sweden may be different and must therefore be controlled
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration



A: Ceiling  
B: Wooden Beams  
C: Screws (beams & plasterboard)  
D: Acoustic Stone Wool, 40mm  
E: Perforated Plasterboard  
F: Glue  
G: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Glue Application on page 10 and the complete instruction below
2. Install wooden beams on the ceiling with distance according to the size of the Acoustic Stone Wool panels. Select a type of screw according to each specific field condition, i.e., depending on the material of the ceiling. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
3. Screw perforated plasterboards into the beams. Plasterboard perforation grade need to be higher than 17% in order to retain full acoustic effect from the stone wool behind
4. Glue BAUX Wood Wool products to the plasterboard according to installation method CG1
5. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

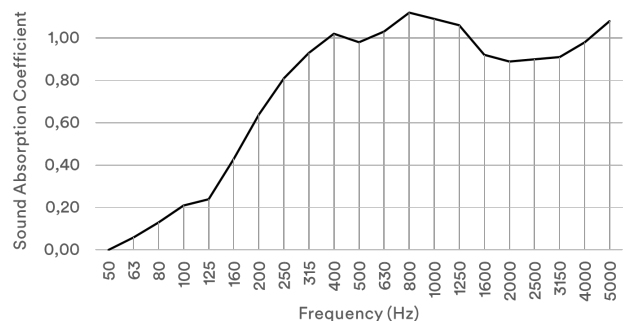
#### NOTE

- i. Only use glue recommended by BAUX or a certified installation company
- ii. An approved local ceiling installation company must verify method CG2 before usage
- iii. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

40mm Acoustic Stone Wool	
$\alpha_w$	1.00 (H)
NRC	0.95
SAA	0.95
Class	A

Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



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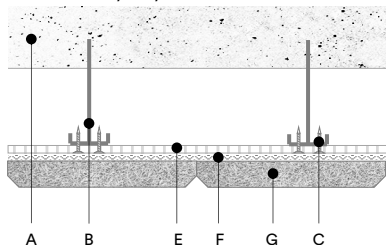
# CEILING WITH GLUE

## CG3 (A&B) – Glue with Suspended Ceiling (with or without Acoustic Stone Wool)

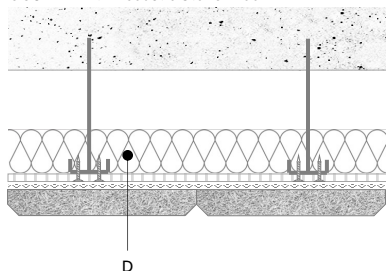
- Recommended BAUX Wood Wool products to be installed with method CG3 are Small TILES except 3D Pixels.
- CG3 is approved according to Swedish safety regulations. Regulations outside Sweden may be different and must therefore be controlled
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration

CG3-A – Cavity Only



CG3-B – With Acoustic Stone Wool



- A: Ceiling
- B: Ceiling Grid System
- C: Screws
- D: Acoustic Stone Wool, 40mm
- E: Perforated Plasterboard
- F: Glue
- G: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Glue Application on page 10 and the complete instruction below
2. Install a ceiling grid system according to the instructions from the manufacturer of the Ceiling Grid. BAUX can provide a system from CIPRIANI (<http://www.cipriandrywall.co.uk>)
3. Screw perforated plasterboards into the ceiling grid. Plasterboard perforation grade need to be higher than 17% in order to retain full acoustic effect from cavity or stone wool behind
4. If installation is made according to CG3-B with Acoustic Stone Wool, place the stone wool successively during the installation on top of the perforated plasterboards
5. Glue BAUX Wood Wool products to the plasterboard according to installation method CG1
6. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

### NOTE

- i. Only use glue recommended by BAUX or a certified installation company
- ii. An approved local ceiling installation company must verify method CG3 before usage
- iii. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

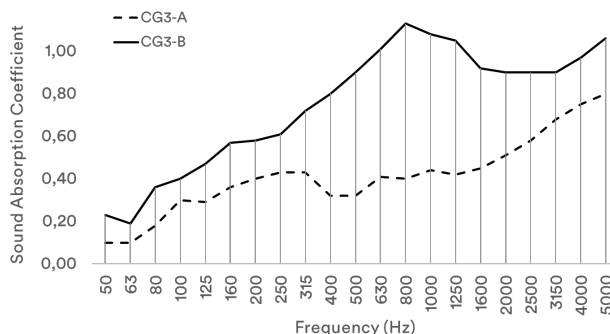
#### CG3-A (400mm cavity)

$\alpha_w$	0.50 (H)
NRC	0.45
SAA	0.46
Class	D

#### CG3-B (400mm cavity)

$\alpha_w$	0.90 (H)
NRC	0.90
SAA	0.91
Class	A

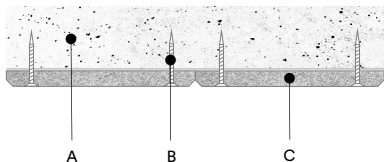
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## CS1 – Screw directly on the Ceiling

- Recommended BAUX Wood Wool products to be installed with method CS1 are PANELS and Large TILES
- Small TILES are easier to install with method CG1

### Illustration



A: Ceiling  
B: Screws  
C: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Screw positioning on page 10 and the complete instruction below
2. Position and mark the start of the BAUX pattern on the ceiling
3. Screw BAUX Wood Wool products to the ceiling, one-by-one and row by row. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern. Select a type of screw according to each specific field condition, i.e., depending on the material of the ceiling. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
4. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

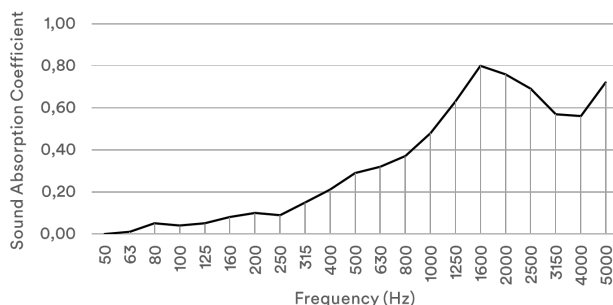
### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

$\alpha_w$	0.30 (H)
NRC	0.40
SAA	0.41
Class	D

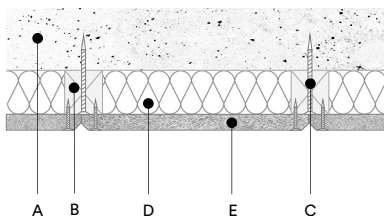
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## CS2 – Screw with Acoustic Stone Wool

- Recommended BAUX Wood Wool products to be installed with method CS2 are PANELS and Large TILES
- Small TILES are easier to install with method CG2
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration



A: Ceiling  
B: Wooden Beams  
C: Screws  
D: Acoustic Stone Wool, 40mm  
E: BAUX Acoustic Wood Wool

### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Screw positioning on page 10 and the complete instruction below
2. Install wooden beams with distance according to the Acoustic Stone Wool and selected type of BAUX product. Select a type of screw according to each specific field condition, i.e., depending on the material of the ceiling. BAUX Acoustic Wood Wool weigh 11 kg/m<sup>2</sup> = 2.25 lbs per ft<sup>2</sup>
3. Screw BAUX Wood Wool products into the beams. Install one-by-one and row by row. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern
4. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

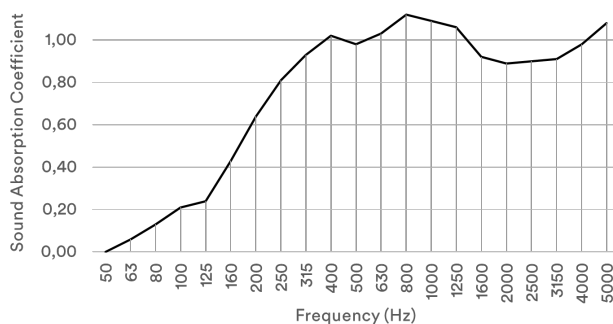
### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

### Acoustic Performance

$\alpha_w$	1.00 (H)
NRC	0.95
SAA	0.95
Class	A

Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997





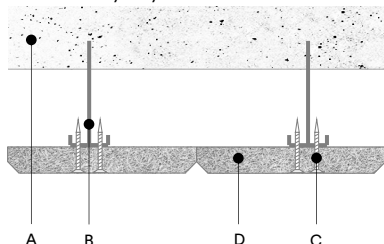
# CEILING WITH SCREWS

## CS3 (A&B) – Screws with Suspended Ceiling (with or without Acoustic Stone Wool)

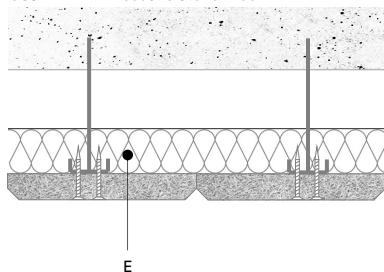
- Recommended BAUX Wood Wool products to be installed with method CS3 are PANELS and Large TILES
- Small TILES ,3D TILES and other Large TILES are easier to install with method CG3
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved. Select a type of screw according to specific field condition, i.e., depending on the material of the wall. BAUX Acoustic Wood Wool weigh  $11 \text{ kg/m}^2 = 2.25 \text{ lbs per ft}^2$
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration

CS3-A – Cavity Only



CS3-B – With Acoustic Stone Wool



### Instructions

1. Before you start, read and follow the General Instructions on page 1, Guidelines for Screw positioning on page 10 and the complete instruction below
2. Install a ceiling grid system according to the instructions from the manufacturer of the Ceiling Grid. BAUX can provide a system from CIPRIANI (<http://www.cipriandrywall.co.uk>)
3. Screw BAUX Wood Wool products into the Ceiling Grid System. The provider of the Ceiling Grid will be able to suggest right type of screws
4. Install the pieces, one-by-one and row by row. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively cross the pattern
5. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

### NOTE

- i. The responsibility for recognizing and compensating for field conditions is with the installer

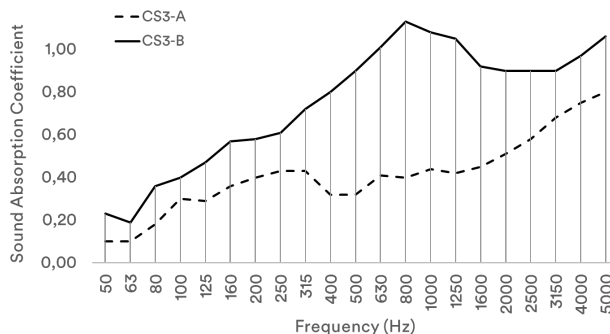
### Acoustic Performance

#### CS3-A (400mm cavity)

$\alpha_w$	0.50 (H)
NRC	0.45
SAA	0.46
Class	D

#### CS3-B (400mm cavity)

$\alpha_w$	0.90 (H)
NRC	0.90
SAA	0.91
Class	A



Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997

- A: Ceiling
- B: Ceiling Grid System
- C: Screws
- D: BAUX Acoustic Wood Wool
- E: Acoustic Stone Wool, 40mm

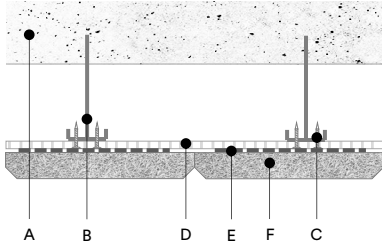
# CEILING WITH MAGNETS

## CM (A&B) – Magnets with Suspended Ceiling (with or without Acoustic Stone Wool)

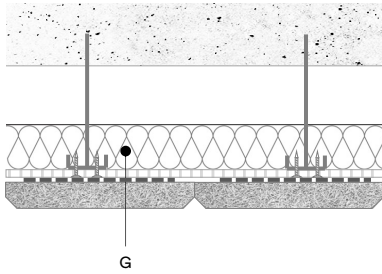
- Recommended BAUX Wood Wool products to be installed with method CM are Small TILES (except 3D PIXELS). BAUX will prefix a magnet on the rear side of each piece
- CM is approved according to Swedish safety regulations. Regulations outside Sweden may be different and must therefore be controlled
- With an Acoustic Stone Wool board behind BAUX Acoustic Wood Wool, the acoustic performance will be improved, especially for low frequency noise. The acoustic improvement for human voice frequencies compared to direct installation is more moderate.

### Illustration

CM-A – Cavity Only



CM-B – With Acoustic Stone Wool



- A: Ceiling
- B: Ceiling Grid System
- C: Screws
- D: Expanded Metal
- E: Magnets
- F: BAUX Acoustic Wood Wool
- G: Acoustic Stone Wool, 40mm

### Instructions

#### Preparation

1. Before you start, read and follow the General Instructions on page 1 and the complete instruction below
2. Measure and mark out the pattern position for your installation on the ceiling
3. Install a ceiling grid system according to the instructions from the manufacturer of the Ceiling Grid. BAUX can provide a system from CIPRIANI (<http://www.cipriandrywall.co.uk>)
4. Screw expanded metal sheets to the ceiling grid, see detail below. Installer should follow best practices for construction and workmanship and select an appropriate screw and fixing type for each specific ceiling grid system
5. Install BAUX Wood Wool products towards the expanded metal sheets. Make sure to position the pieces very linear and accurate against each other. This is especially critical for triangular and parallelogram shapes, a smaller error in the beginning will grow successively further cross the pattern
6. If installation is made according to CM-B with Acoustic Stone Wool, place the stone wool successively during the installation on top of the expanded metal sheet
7. Use touch-up paint to repair any damages occurred on BAUX Wood Wool products during installation

#### NOTE

- An approved local ceiling installation company must verify method CM before usage

### Acoustic Performance

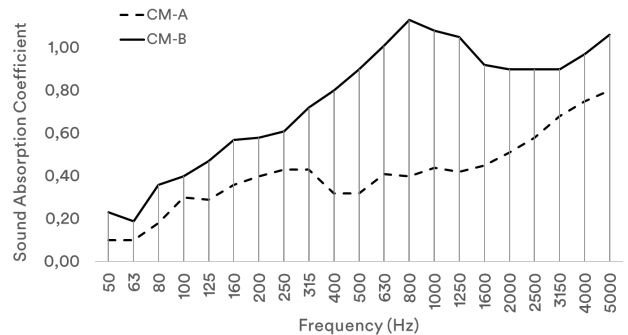
#### CM1 (400mm cavity)

$\alpha_w$	0.50 (H)
NRC	0.45
SAA	0.46
Class	D

#### CM2 (400mm cavity)

$\alpha_w$	0.90 (H)
NRC	0.90
SAA	0.91
Class	A

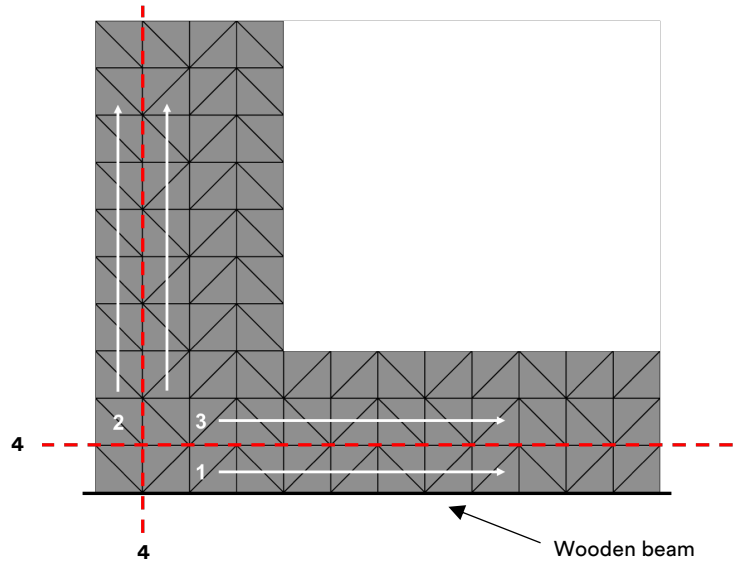
Sound absorption measured according to the reverberation room method (SS-EN ISO 354:2003) and evaluated according to SS-EN ISO 11654:1997



## MOUNTING COMPLEX PATTERNS

Start by organizing the tiles or panels according to colors, keep the packing paper between the tiles in order to reduce the risk for damage

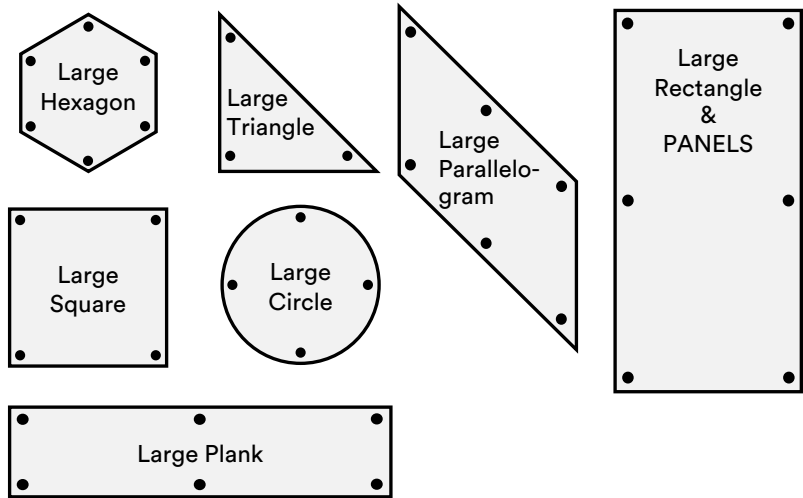
1. Start with the bottom row (horizontal), put a supporting wooden beam in the bottom and/or use laser to ensure it is straight. It is essential to get the first (bottom) row straight. If installing large tiles it is a good idea to use a wooden beam or small screws on the first row to minimize risk for gliding
2. Continue with one vertical row, to create an L-shape.
3. Then continue with one row at a time, one horizontal and one vertical
4. Control the pattern by inspecting the horizontal and vertical lines (See dashed red line in illustration below for directions)
5. Important – make sure you put the tiles without space between. If necessary, use a plank to protect the tiles and a hammer carefully to push tiles together.



## SCREW APPLICATION

A rule of thumb is that the screw should be twice as long as the material you attach if you attach it to wood. It is also beneficial with a screw with wide and flat head.

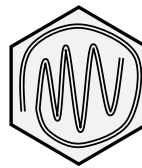
1. Only use screw installation for Large TILES (and 3D Pixel tiles if glue cannot be used)
2. The screws should be inserted min 20mm ~1 inch from the edge of the piece
3. BAUX can provide screws but screws should be selected according to each specific field condition, i.e., depending on the material of the installation wall or ceiling



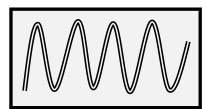
## GLUE APPLICATION

1. Glue should be applied on the rear side of BAUX Wood Wool products with a distance between each glue string of max 100 mm ~ 4 inches
2. Glue string should be ~8 mm in diameter ~0.3 inches
3. For all large TILES, also put a surrounding string following the edge of each piece

Large Tiles



Small Tiles/Panels



### NOTE

1. Only use glue recommended by BAUX or a certified installation company
2. The responsibility for recognizing and compensating for field conditions is with the installer

### RECOMMENDED GLUE

**BOSTIC A785  
HIGH GRIP DECO**

- Direct grip
- Sustainable, low VOC
- Solvent free
- Perfect adhesion without use of a primer, even on slightly damp substrates
- Paintable
- Almost odorless

Application temperature: +5°C to + 40°C  
Base: Acrylic dispersion  
Density: 1,30 g/ml (ISO 1183-1)  
Temperature resistance: -20°C to + 75°C



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# GET IN TOUCH

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