

CEILING

# USG MIDDLE EAST MONOSILENT CEILING INSTALLATION GUIDE

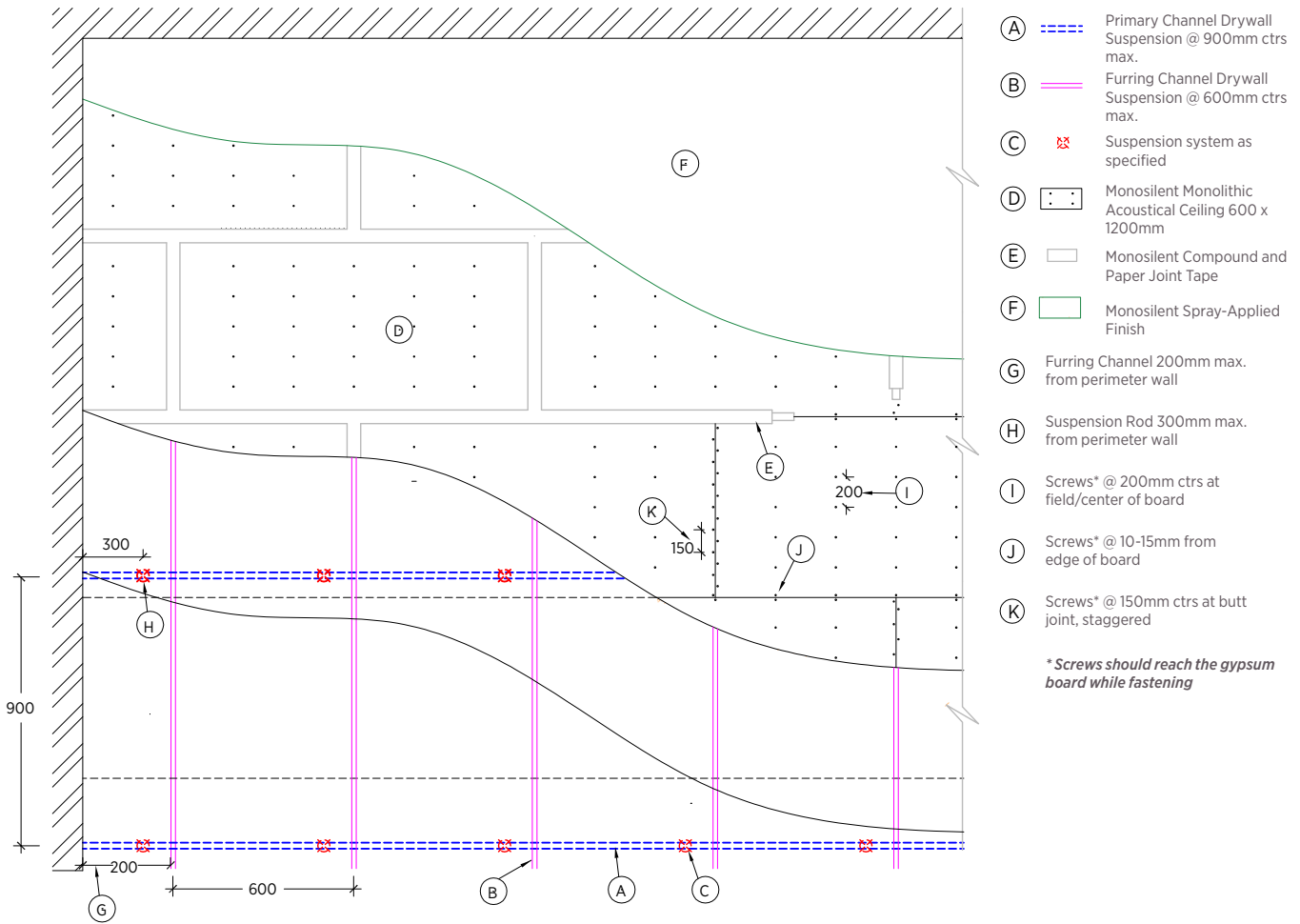
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**USG ME**   
INNOVATIVE SOLUTIONS. EVERYTIME.

**MONOSILENT MONOLITHIC  
ACOUSTICAL CEILING  
INSTALLATION**

**MONOSILENT CEILING INSTALLATION**

**FIXING CONFIGURATION**



**1. METAL FRAMING INSTALLATION**

- Fix the anchor to the concrete slab in a specific location that has been marked before starting the fixation. The site supervision team has to approve the anchor type.
- Hang the threaded rod instead of the installed angle bracket.
- Hang the primary channel bracket to the rod hangers.
- Slide the primary channel inside the brackets.
- The same procedure will be followed for each 900mm.
- Connect the primary channel, each 600mm, to a furring channel using a wire connection clip.
- The level should be followed carefully.
- The site charge will inspect the framework for any discrepancies to rectify, if any, before proceeding with the work.

**2. INSTALLATION OF BOARDS**

- Verify the level of the installation area before proceeding.
- Install USG Monosilent Ceiling Panels with dimensions 600x1200x50mm or 600x1200x38mm.
- Cut the USG Monosilent Ceiling Panels using a T square and utility knife, scoring the face at the desired length.
- Avoid marking the panels in the field unless covered by USG ME Monosilent Compound before spraying (e.g., pencil, marker).
- Fasten the USG Monosilent Ceiling Panels onto primary channel profiles from end to end.
- Add a row of screws in the middle of the board, following the primary channel spacing (i.e., 600mm).
- Ensure that screw spacing does not exceed 200mm.

**3. Jointing System (Level 4 Finish)**

Item	Fixing Centers
Tape	Paper Joint Tape or Fiberglass Mesh Tape
First Coat	Monosilent Compound
Second Coat	
Finish	Monosilent Spray Applied Finish

The joints are finished using the USG ME Jointing Compound per the table. It is imperative to finish the joints as flat and level with the board's surface as possible. Slightly hollow or crowned joints will show imperfections under critical lighting after the finish is applied.

To achieve a Level 4 finish, use Paper Joint Tape and relevant USG ME Jointing Compound as per the above, and finish all board joints to the correct finished width.

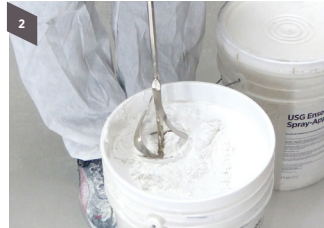
## MONOSILENT CEILING INSTALLATION

### 4. MIXING

- The finish must be thoroughly mixed before application.
- Mix in the 17L container before filling the spray machine hopper.
- Check for proper consistency using the material thickness gauge provided by the spray equipment manufacturer (small steel ball). If the ball sinks completely, the texture is ready to spray. If the ball does not sink within 3-4 seconds, add more water, 100ml at a time, and mix thoroughly until the ball sinks.
- Up to 500ml of clean, potable water may be added to achieve the proper spray consistency.



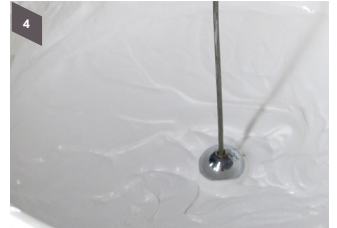
**Step 1**  
*Check the consistency of the Mac Plaster  
Spray Applied Finish*



**Step 2**  
*Mix Paint using electric drill*



**Step 3**  
*Mix until smooth*



**Step 4**  
*Check the viscosity of the paint using  
the material thickness gauge (small steel  
ball)*

### 5. SETTING THE EQUIPMENT

- Prime the Spray Machine Prime texture equipment with five liters of clean water.
- With the air nozzle switched off, cycle water through the hose and drain the water out completely (including water in the hose).
- Pour the mixed Monosilent Spray Applied Finish into the hopper.
- Empty the water remaining in the hose until the paint starts to flow. With the air nozzle turned off, cycle the remaining water from the hose into an empty bucket until the paint reaches the spray gun.
- When the paint has reached the gun, cycle the paint through the gun back into the hopper until it is flowing smoothly through the machine.
- When there is a need to stop spraying for longer than 30 minutes, submerge the gun in clean water to avoid blockage in the spray gun.
- Adjust the pump pressure to 60 to 70psi depending on the desired texture and the air pressure to 80 to 90psi.
- For a finer texture, a higher pump pressure can be adopted. Set the independent air compressor regulator to 120psi.
- Standard spray gun 4mm tip with added GRACO fan tip 4mm adaptor must be used to increase spray fan width to 400mm for a faster and smoother finish.

### 6. SPRAYING

- Apply Monosilent Spray-Applied Finish in at least four coats, cross-hatching with at least a 50% overlap to achieve the desired appearance and sound performance.
- Maintain a clean and safe working environment. During the application, wear proper protective equipment, including safety goggles, a NIOSH-approved respirator, and overalls.
- Start the application in one corner and work progressively across the ceiling.
- Recoat using the same technique once the finish is dry to the touch (approximately 1 to 4 hours).
- Apply each coat with a minimum 700mm gun clearance.
- Allow the paint to dry for approximately 4 hours between layers.
- Between each spray, submerge the gun into the clean water to prevent blockage in the spray gun.
- Apply at least four successive coats until the desired appearance is achieved.
- Consider the spray successful when all butt joints, recessed joints, and screw heads are no longer visible under natural light, and a consistent and delicate texture is achieved.
- Leave the ceiling to dry for at least 24 hours, ensuring it is completely dry.
- If necessary, use a soft rubber-bladed squeegee to remove any minor irregularities.



**Step 1**  
*Apply Monosilent Spray Applied Finish*



**Step 2**  
*Start in one corner and work  
progressively across the ceiling*



**Step 3**  
*Four coats of Monosilent Spray Applied  
Finish must be applied*



**Step 4**  
*Leave the ceiling to dry for a minimum  
of 24 hours*



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