INSTALLATION INSTRUCTIONS

*Megasorber FM, FG and P Range Lightweight Acoustics Panels*

These recommendations are for general guidance only. Installation methods must be tested under actual service conditions to determine their suitability for a particular purpose.

1. **Keep Sheets Flat:**
   Sheets must be kept flat during the handling and installation process. Bending or folding sheets may create creases on the Soundmesh G8 facing. Once formed, these creases are difficult to remove.

2. **Cutting:**
   The product can be hand-cut by a knife or machine-cut by a bench saw or rotating blade cutter with a fine tooth blade.

   ![Knife cut by hand](image1.png)

   Knife cut by hand: it is recommended using a sharp Stanley and/or serrated knife.

   ![Cutting process](image2.png)

   Note: It is recommended to wear gloves during cutting. The Soundmesh G8 facing edges may irritate or cut the skin.

3. **Direct-fix: Installing panels with adhesives**

   **Substrate surface preparation:** The surface must be flat, dry and free of oil, dust, grease and other contaminants. Clean substrate with Megasorber AC5 or similar.

   ![Adhesive products](image3.png)

   Megasorber AC5 Adhesive Cleaner

   Megasorber A200 High-Tack, High-Temperature Resistant Adhesive

   Megasorber A100 Fast Drying, High-Tack Spray Adhesive
Megasorber AC5 Adhesive Cleaner
Megasorber AC5 Adhesive Cleaner is recommended for adhesive removal and surface cleaning.

**Option 1: Megasorber A200:**

1. High-Tack, High Temperature Resistant Adhesive.
2. An odourless and fast curing adhesive.
3. It is specifically designed to provide instant holding of the FM F acoustic foam.
4. Adjustable: panel can be re-positioned within 7 minutes of application.
5. Recommended usage:
   - about one cartridge (290ml) per 1.2m x 1.2m panel;
   - 1.5 to 2 sausage (600ml) per 1.2m x 2.4m panel.

**Option 2: Megasorber A100 High-Tack Spray Adhesive**

1. An air-less spray adhesive system.
2. Specifically designed for installing Megasorber acoustic panels.
3. It is supplied in a canister (17.2kg) or as an aerosol (500ml).
4. *Estimated coverage:* about 99m² per canister and about 4m² per aerosol.

Please note that we recommend A100 on a smooth surface, such as refrigeration panels, plasterboards and metal panels. We recommend using A200 if the surface is un-even or textured, such as concrete soffit and brickwork.

Photos below show the installation process. Please follow this video link to view the installation process: [http://www.megasorber.com](http://www.megasorber.com) “Installing Megasorber Panels with A200 adhesive”.

- **Installing Megasorber acoustic panels onto the walls with A200:**
  1. Application of adhesive
  2. Installing the panel
  3. Finish

- **Installing Megasorber acoustic panels onto the ceiling using A200 with shadowing finish:**
• Installing Megasorber acoustic panels onto the ceiling and walls using A200 with shadowing finish:

![Ceiling installation](image1)

• Installing Megasorber acoustic panels onto the walls using A200 with shadowing finish:

![Wall installation](image2)

• Installing Megasorber acoustic panels onto the ceiling and walls using A200 with J profile flashing finish:

![Ceiling and wall installation](image3)

**Direct-fix onto Concrete Slab with Megasorber A200 Adhesive**

Megasorber FM50 and P50 Acoustic Panels

Megasorber FM50 or P50

Concrete slab

J profile flashing

Megasorber A200

200mm 800mm 200mm

400mm 1600mm 400mm

2400mm

80mm

52mm

40mm

200mm 200mm

Megasorber A200
• Installing panels using Megasorber A200 adhesive with aluminium or metal top-hats on concrete slab, plasterboard or Bondor panel ceiling:

![Diagram showing installation process](image)

• Installing panels using Megasorber A200 adhesive with powder coated aluminium or trims on a concrete slab, plasterboard or Bondor panel ceiling and walls:

![Diagram showing installation process](image)
4. **Direct-fix: Installing panels onto concrete soffit directly with mechanical fixing method:**

Concrete pins are recommended. A typical mechanical fastening system is shown below:

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**Direct-fix of Megasorber Acoustic and Thermal Insulation Panels with Concrete Pins**

- **Concrete slab**
- **Z (or J profile) profile flashing**
- **Megasorber Acoustic Panel**
- **Concrete pin**
- **Pin**

**Concrete pin:**
- **Model:** IF-6-30
- **Depth:** 30mm

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**Powder-actuated Tool**

**Megasorber installed on ceiling and wall with pin**

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• Installing Megasorber panels onto the concrete slab ceiling with pins:

5. Installing panels between purlins:
The following drawings show how Megasorber panels can be installed between purlins:
6. **Installing Megasorber Panels in a suspended ceiling gird:**

Typical finish is shown below:

![Image]

7. **Seal joints with colour-matching self-adhesive tape:**

Alternatively, a matching Soundmesh G8 Tape can be used to seal the edges and joins; The standard Soundmesh G8 colours are: Black (B), White (W), Grey (G) and Sandstone (S) Tape.

![Image]

Recommendations for applying the Soundmesh G8 tape are as follows:
- The substrate surface must be flat, dry, free of oil, dust, grease and other contaminants.
- Soundmesh G8 tape must be firmly pressed against the substrate upon application to ensure the adhesive has full contact with the substrate.
- The ambient temperature for application is recommended to be above 10°C.
- For products with water / fluid repellent G8 facing, the G8 tape can be applied with heat and pressure, such as an iron or a hot air-gun plus a pressure roller.

**Typical finish after installation with Soundmesh G8-T75 tape sealing joins:**

![Image]