

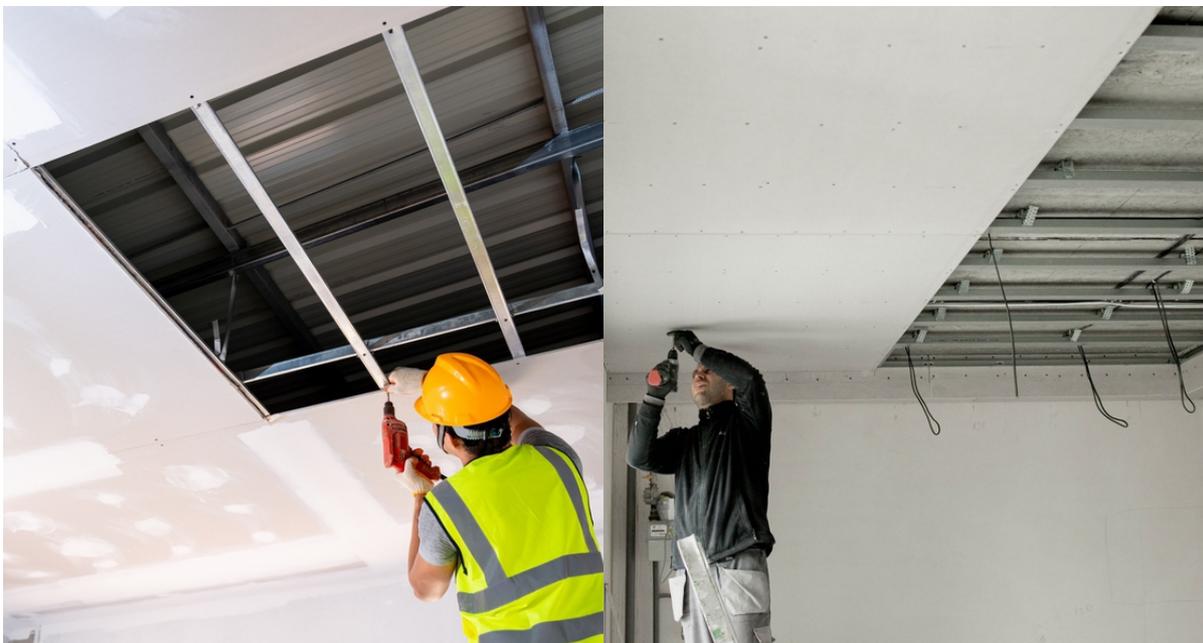


# False Ceiling System



## About False Ceiling

**GSF Gypsum Board False Ceiling** is a secondary ceiling, suspended below the main (structural) ceiling. It may also be referred to as a drop ceiling, also eiling, suspended ceiling, drop in ceiling or drop out ceiling and is a stress of modern construction and architecture in commercial as well as residential fields. It creates a gap between the two layers, allowing for the installation of lighting fixtures, air conditioning ducts, and other utilities. Overall, gypsum false ceilings are a versatile and practical option for enhancing the aesthetics and functionality of interior spaces. They offer a wide range of design possibilities, provide additional insulation and hiding space for utilities, and are relatively easy to install and maintain.





## Advantages & Benefits of Gypsum False Ceiling



A gypsum false ceiling is a suspended ceiling made from gypsum boards or panels, offering a sleek, modern look while improving functionality. Gypsum is a lightweight, fire-resistant material that enhances the aesthetic appeal of interiors and provides various practical benefits.

1. **Smooth Finish:** Offers a seamless, smooth surface, perfect for painting or creating decorative designs.
2. **Fire Resistance:** Gypsum is a natural fire retardant, increasing safety in homes and commercial spaces.
3. **Sound Insulation:** Reduces noise, making it ideal for offices, theaters, & homes, ensuring privacy and tranquility.
4. **Thermal Insulation:** Helps regulate room temperature, leading to energy savings by reducing the load on air conditioning systems.
5. **Moisture Resistance:** Gypsum boards resist dampness, making them suitable for areas like bathrooms and kitchens.
6. **Lightweight and Durable:** Reduces the structural load while maintaining strength, durability, and long-lasting performance.
7. **Versatile Design:** Easily adaptable to different shapes, styles, & lighting setups, offering a wide range of aesthetic possibilities.
8. **Conceals Wiring & Ducts:** Hides unsightly electrical wiring, air conditioning ducts, and plumbing, ensuring a clean, organized appearance.
9. **Quick Installation:** The lightweight nature of gypsum allows for faster & easier installation, minimizing project time lines.



**The products are commonly used in gypsum false ceiling**



**Gypsum Boards**



**Metal Framework**



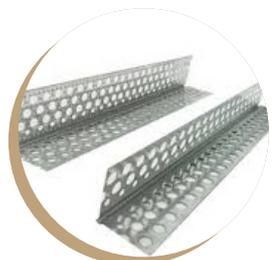
**Fasteners & Screws**



**Jointing Tape**



**Gypsum Plaster**



**Corner Beads**

## False Ceiling Installation Process

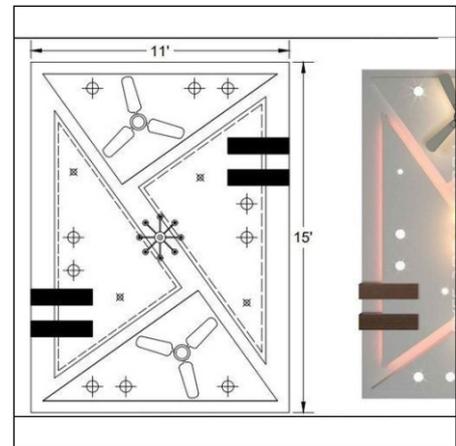
Firstly, all required measurements of ceiling (length and width) and ceiling to wall (for height of false ceiling) are taken for each room where false ceiling is to be installed. material requirement is calculated depending on size, area of rooms/ place where it needs to be installed. The ceiling levelling is done with water or laser levelling because most of the times the slabs are not levelled. After levelling

procedure is complete, marking is done.

### 1. Planning & Design



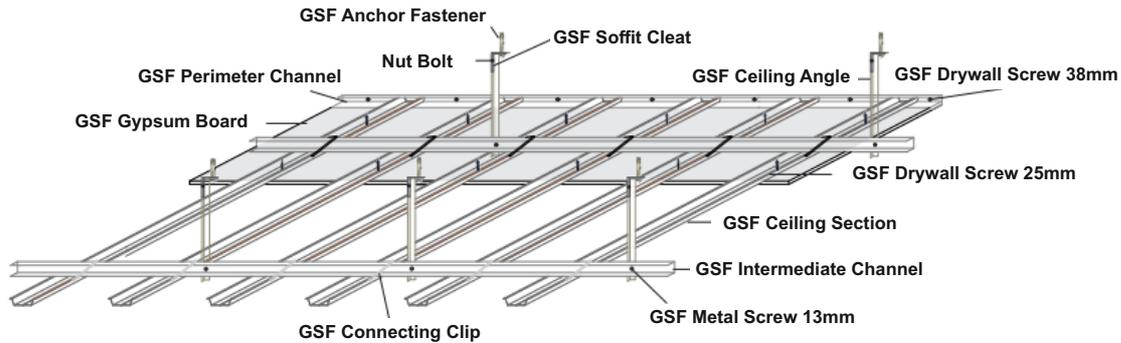
**Measure the Area**



**Design Layout**



**Marking**



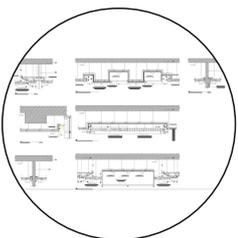
In the false ceiling installation, fittings serve as the master support points. After hanging the Ceiling Angles, the Perimeter Channels are fitted onto the walls at the desired false ceiling height. Next, the Intermediate Channel is fixed to the Ceiling Angles at a 1220mm distance. Ceiling Sections are attached to this framework using GSF Connecting Clips, spaced 457mm apart, to securely suspend plasterboard or other ceiling materials. This precise framework ensures a stable and durable false ceiling installation.



Suspended Ceiling which includes **GYP System Frames Perimeter Channel** of width 27mm (0.55mm thick having one flange of 20mm and another flange of 30mm) along with the Perimeter of ceiling is Screw fixed to brick/ block wall & partitions with the help of nylon sleeves & drywall screws @ 610mm centres.



**GYP System Frames Intermediate Channel** of width 45mm (0.90mm thick with two equal flanges of 15mm each) from the soffit at 1200mm centres with **Ceiling Angle** (0.55mm thick, having on flange of 10mm & another flange of 25mm) are fixed to soffit with the help of Soffit Cleat & Rawl Plug.



**GYP System Frames Ceiling Section** of width 80mm (0.55mm thick, having two flanges of 26mm each with lip of 10.5mm) are then fixed to the **Intermediate Channel** with the help of GYP Connecting Clip and in direction perpendicular to the Intermediate Channel at 457mm centres.

## Fixing of GSF Gypsum Board

The 12.5mm tapered GSF Gypsum Board is screw-fixed to the Ceiling Sections using 25mm GSF-Drywall Screws spaced at 300mm intervals. This can be done either manually with a screwdriver or mechanically with a drilling machine using an appropriate attachment for accurate and secure fixing.



## Fixing of GSF Gypsum Board

Square and tapered edges of the boards should be seamlessly joined and finished for a smooth, flush appearance. This is achieved by applying jointing compound and reinforcing with GSF fiber tape, ensuring a clean, professional finish.



Applying drywall tape over the joints.



Covering the joints with a layer of jointing compound.



After the joint treatment



Finished Look

## Safety Measures of False Ceiling

Ensure the false ceiling system is installed with adequate load-bearing capacity and stability, using proper hangers and hardware. Consult experts to comply with safety standards and regulations.



## Head Office

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