



*Diamond Frames*<sup>TM</sup>  
False Ceiling & Partition Systems

# Diamond Frames False Ceiling Systems



[www.diamondframes.in](http://www.diamondframes.in)





## About False Ceiling

**Diamond Frames** Gypsum Board False Ceiling is a secondary ceiling, suspended below the main (structural) ceiling. It may also be referred to as a drop ceiling, False Ceiling, 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



False Ceiling also known as drop ceilings or suspended ceilings, offer several advantages and benefits in various settings. Here are some of the advantages of installing a False Ceiling:

**Aesthetic Appeal:** They provide a clean, finished look and can be customized with various designs, textures, and finishes to enhance the interior aesthetics.

**Concealed Utilities:** The gap between the false ceiling and main ceiling allows for the installation of electrical wiring, lighting fixtures, HVAC ducts, and other services, concealing them from view.

**Sound insulation:** Gypsum boards have good acoustic properties, reducing noise transmission between different rooms or floors.

**Thermal Insulation:** Gypsum boards can provide some degree of thermal insulation, helping to maintain comfortable indoor temperatures and reduce energy consumption.

**Lighting options:** False ceilings provide a convenient platform for integrating lighting fixtures. Recessed lights, LED panels, track lights, and other lighting systems can be easily installed within the false ceiling, offering flexibility in terms of design, ambiance, and functionality. This allows for effective illumination and creative lighting schemes.

**Easy Maintenance:** Gypsum false ceilings are durable, easy to clean, and resistant to moisture, making them low-maintenance.

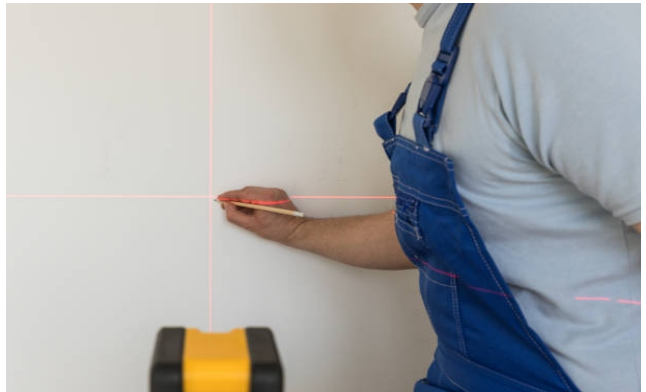


The Following products are commonly used in Gypsum False Ceiling



## 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.



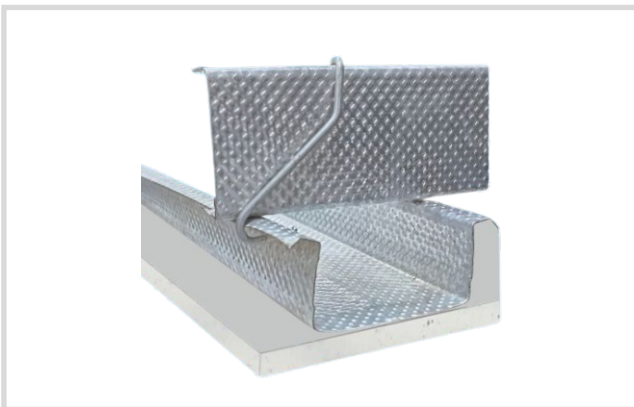
At the time of installation frame level must to be checked thoroughly with laser level machine or transparent



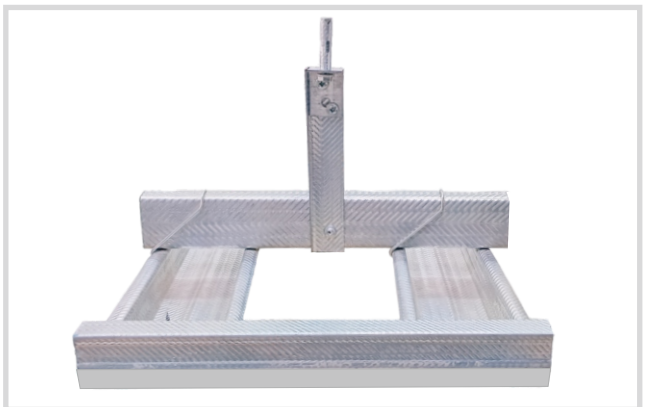
Marking is also done in side walls / partitions at the height where the false ceiling will be suspended below the original ceiling to fix perimeter.



Ceiling Angle to be fixed with the help of Anchor Fastener & DF Soffit Cleat to the true ceiling.

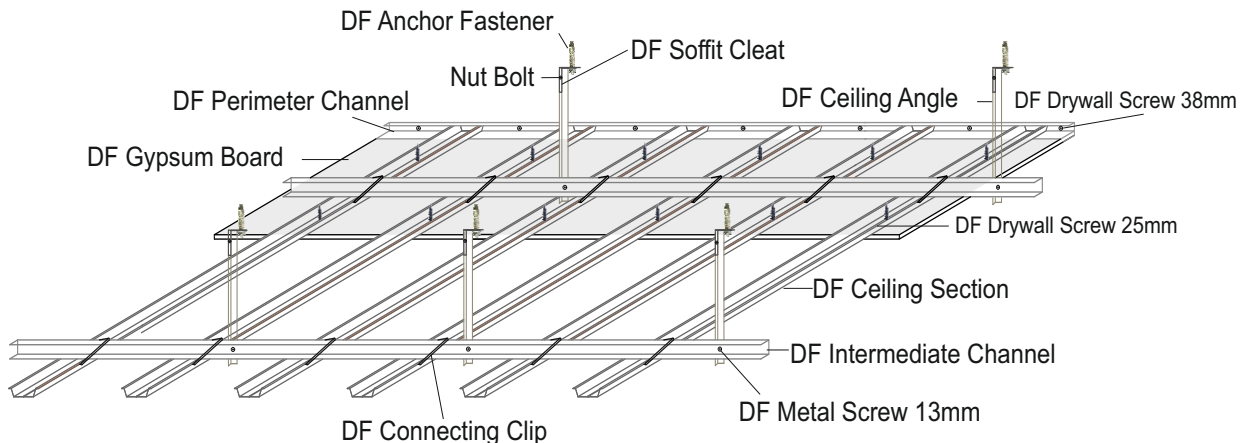


Every junction of Intermediate Channel and Ceiling Sections must be connected with Connecting Clip.

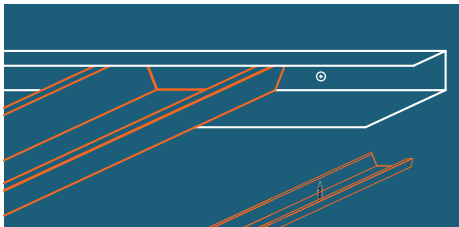


Ceiling Angle to be suspended from Soffit Cleat with the help of self drilling metal screw or 12.5mm long nut bolt.

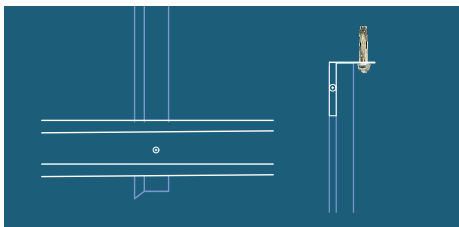
# False Ceiling Framing Layout



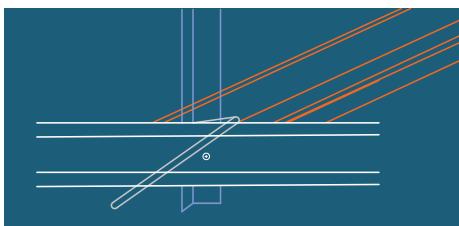
These fittings become the master support points False Ceiling. Once the Ceiling Angles are hanged then the Perimeter Channels need to be fitted on the walls / partitions at a height where false ceiling will be suspended. Then the Intermediate Channel needs to be fixed with the hanged Ceiling Angles according to the level at the distance of 1220mm Ceiling Sections are then fitted to the main foundation forming the precise framework that enables attaching plaster board or any other material used for false ceiling. Ceiling Sections need to be fitted below the Intermediate Channel with DF Connecting Clip at the distance of 457mm centre to centre that enables suspending the plaster board or any other materials used for False Ceiling.



Suspended Ceiling which includes **Diamond 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.



**Diamond 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 and Rawl Plug.



**Diamond 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 **DF Connecting Clip** and in direction perpendicular to the Intermediate Channel at 457mm centres.



## Fixing of DF Gypsum Board

12.5mm tapered DF Gypsum Board is then screw fixed to the Ceiling Section to fix Gypsum Board on GI Channel using 25mm DF-Drywall Screws at 300mm centres. Mechanically either with a screw driver or a drilling machine with suitable attachment.



## Jointing & Finishing

Square and tapered edges of the boards are to be joined and finished so as to have a flush look which includes filling and finishing with Jointing Compound & DF Fiber Tape.

Applying Drywall Tape on joinery area



Covering joinery area with Jointing Compound



After joint treatment



Finished Look



## Safety measures of False Ceiling

The false ceiling system should be installed properly, ensuring that it has sufficient load-bearing capacity and stability. This involves using appropriate hangers, support wires, and other hardware that can adequately hold the weight of the ceiling components without posing a safety risk. It is crucial to consult with architects, engineers, or construction professionals who specialize in false ceiling systems to ensure that the safety measures are properly implemented in accordance with local regulations and industry standards.

# Our Presence

All India Networks

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