

## METALWORKS

### Clip-In and Clip-In Swing Down Ceilings

#### General Installation Instructions

#### 1.0 GENERAL

##### 1.1 Product Description

MetalWorks Clip-in is a downward accessible Galvanized Steel or Aluminum ceiling panel available in standard 600mm x 600mm size. It is designed to install on the DP12 suspension system. All full panels can be removed and reinstalled without movement up into the plenum area. Custom size available on request.

##### 1.2 Storage and Handling

The ceiling panels shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall be stored in accordance with the instructions on the carton. Proper care should be taken when handling to avoid damage or soiling.

##### 1.3 Site Conditions

Building areas to receive ceilings shall be free of construction dust and debris.

##### 1.4 Ceiling Panel Layout

The ceiling panel layout should have perimeter panels equal in width on opposite ends. These cut perimeter panels should be more than 50% of their original width. Divide the room dimension by the nominal width of the panel. Determine the remainder, add one full panel width, and divide by two to determine the width of the border panel. This will create the best visual and installation.

#### 2. PREPARATION

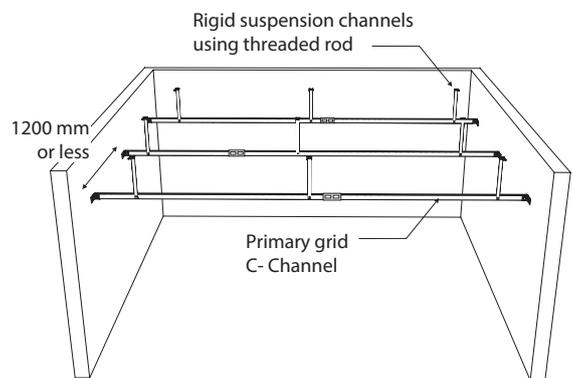
2.1 Determine desired height of new ceiling.

2.2 Strike a level line around the perimeter of the area at this height.

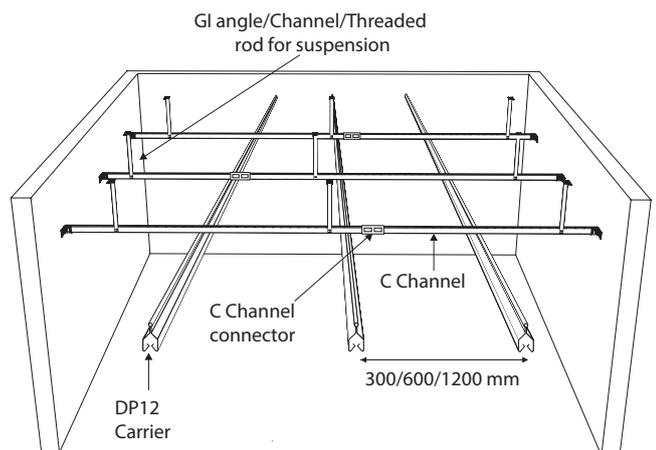
- A) Suspension: M6 threaded rod to be used for suspension of Clip-In system with appropriate anchor.
- B) Perimeter: Use 19X32mm Wall Moulding for Clip-In system.
- C) Distance of the first suspension point should not be more than 300mm from the perimeter and maximum distance of 1200mm centre to centre between suspension in both the directions.
- D) Place the first primary steel angle section (C - Channel) at a distance not greater than 300mm with on centre distance between two steel angle not greater than 1200mm.

#### 3.0 INSTALLATION

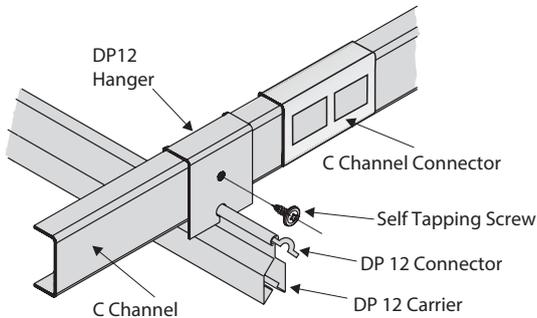
3.1. Place primary steel angle sections (C-Channel) at distances not greater than 1200 mm



3.2. Suspend to ceiling using rigid means such as threaded rods or galvanized steel sections (channel/angle etc.)



**3.3** Connect longer pieces of primary steel angle sections using splices (C-Channel connector)

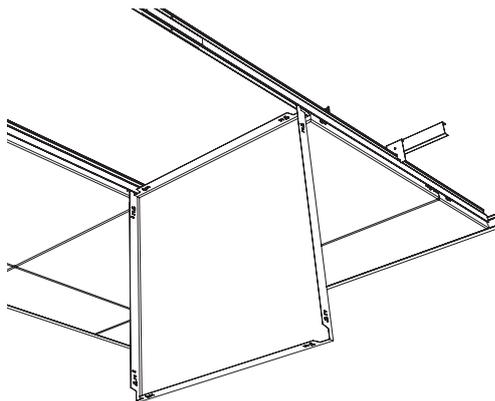


**3.4.** Place secondary steel angle sections perpendicular to primary steel angle sections with on-centre spacing of 300, 600 or 1200 mm depending on size of ceiling panel.

**3.4.1.** Secure the connection between primary and secondary steel angle sections using a DP12 hanger and self tapping screw as shown in the diagram.

**3.4.1.** Connect longer lengths of secondary steel angle sections using a DP12 connector

**3.5.** To install Clip-in tiles, engage the pips on the tiles on to the clip-like end of the secondary steel angle sections (DP12 carrier) by applying positive upward pressure.



**3.6.** Use hold down spring clamps for perimeter cut tiles.

Recommended tool for cutting metal tiles : Use a slitting shear



Tiles can be removed for maintenance using the special removal tool as shown in the picture.

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