

**CEILING** | **SYSTEMS**

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# **METAWORKS™ Baffles**

## **Installation Details**



# Armstrong METALWORKS™ Baffles

## Installation Guide

The Armstrong METALWORKS™ Baffle ceiling system is made up of extruded aluminium Baffle profiles which are supported by the Unigrid™ suspension system as per details below.

The integrity of the entire suspended ceiling depends on the 5mm gal rod and Unigrid™ Suspension Clips and Channel being used, which satisfy Australian / New Zealand standard 2785-2000).

### 1. Before You Start

All material delivered to site should be checked for damage, unopened and original packages.

At this stage if you are unsure of the suitability of material for this project, ask questions, as it is very expensive to remove materials that have been installed.

All materials to be kept dry and protected from the elements.

### 2. Determine Baffle Direction

- It is important at this stage to determine the direction the Baffle being installed.
- The drawing supplied by the builder will show the Baffle direction required.

### 3. Installation Of Hangers and Unigrid™

- The 5mm Gal rod shall to be cut to pre-determined lengths, and a hook bent to 30° on one end (must be a sharp bend, so the suspension bracket will fit into the bend without the rod straightening)
- Fit the Suspension Clip to the rod at this stage.
- Ensure all suspension rods are vertical.
- Install Unigrid™ Channels at 1200mm (maximum) centres with Suspension Hangers (5mm Rod and Clip) at 1200mm (maximum) centres along the length of each Unigrid™ Channel (Item MET111). Ensure Locking Clips are installed to secure the Suspension Clip to the Unigrid Channel. See Fig. 1 for details and specific components: 5mm Rod, Suspension Clip (item MET203) and Locking Clip (item MET200)
- The 1st Unigrid Channel must be no more than 400mm from the perimeter.
- The Unigrid™ Channels are to be installed parallel, in a manner that the puchings along the length, align from one Unigrid™ Channel to the next. Note: the Unigrid Chaneles are directional and punched on both sides at 50mm OC, and 25mm offset.

#### MetalWorks Baffle Components

| Item                     | Description                | Dimension (mm) |        |        |
|--------------------------|----------------------------|----------------|--------|--------|
|                          |                            | Width          | Height | Length |
| MB100                    | Baffle                     | 25             | 100    | 3600   |
| MB150                    | Baffle                     | 25             | 150    | 3600   |
| MBJ                      | Baffle Joiner              | 20             | —      | 90     |
| MB100C                   | Baffle End Cap (plastic)   | 25             | 100    | —      |
| MB150C                   | Baffle End Cap (plastic)   | 25             | 150    | —      |
| <b>Suspension System</b> |                            |                |        |        |
| MET111                   | Unigrid™ Channel           | 20             | 30     | 3750   |
| MET103                   | Unigrid™ Channel Connector | 17             | 23     | 95     |
| MBH                      | Baffle Hanger              | —              | 48     | —      |
| MET203                   | Suspension Clip            | —              | —      | —      |
| ROD                      | Suspension Rod             | 5              | —      | 4000   |
| MET200                   | Locking Clip               | —              | —      | —      |

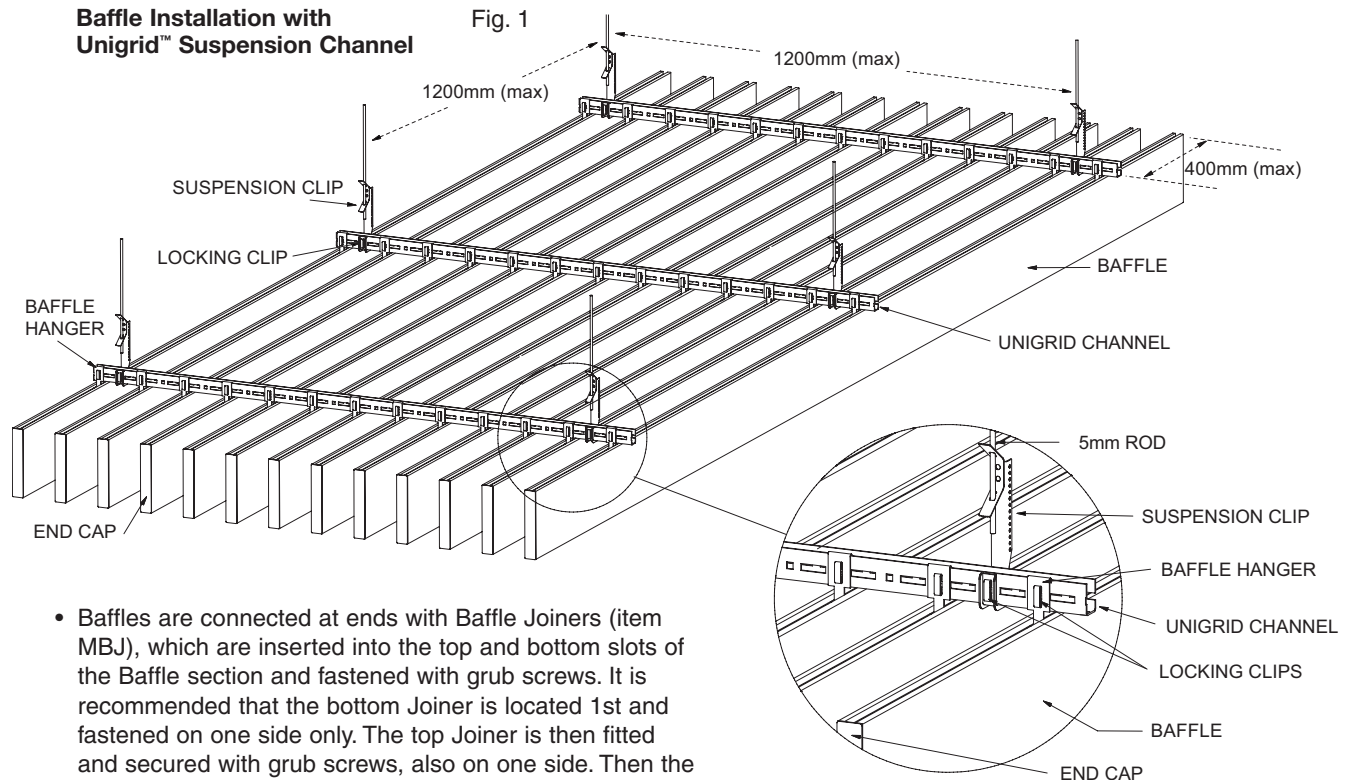


# Armstrong METALWORKS™ Baffles

## 4. Installation of the Armstrong Baffle sections

- Unless specifically ordered, Baffles will be factory produced to a nominal size, typically 3,600mm. Baffle extrusions may need to be trimmed to exact dimension, which can be done simply, on site, using an aluminium drop saw.
- Locate Baffle Hangers (item MBH) in slot of Baffle section at 1200mm centres. Hangers are inserted into the slot, then rotated 90° and fixed into position by tightening the grub screw.
- Baffle is lifted into position and hangers engage over lip of Unigrd™ Channel. Each Hanger is then secured into position by inserting the Locking Clip. Note: Baffles are spaced according to specification, but can be located along the Unigrd at 25mm increments (see below).

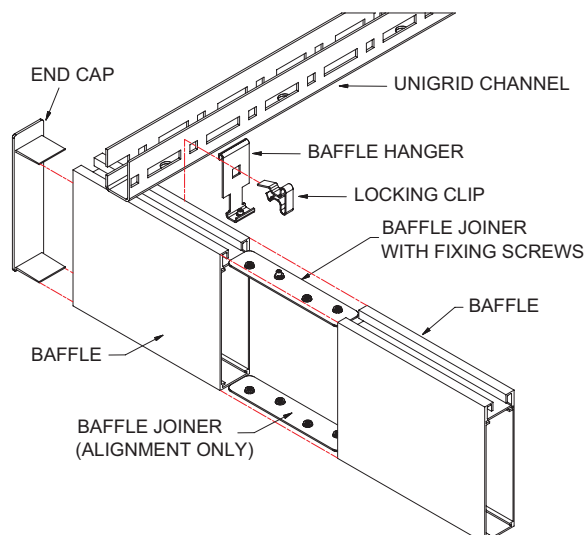
### Baffle Installation with Unigrd™ Suspension Channel



- Baffles are connected at ends with Baffle Joiners (item MBJ), which are inserted into the top and bottom slots of the Baffle section and fastened with grub screws. It is recommended that the bottom Joiner is located 1st and fastened on one side only. The top Joiner is then fitted and secured with grub screws, also on one side. Then the two Baffle sections are joined and the top Joiner is screw fastened on the 2nd Baffle profile (see Fig. 2).
- Where required, End Caps are located on exposed ends of Baffle sections. End Caps are simply located by pushing the End Cap tongues into Baffle slots.

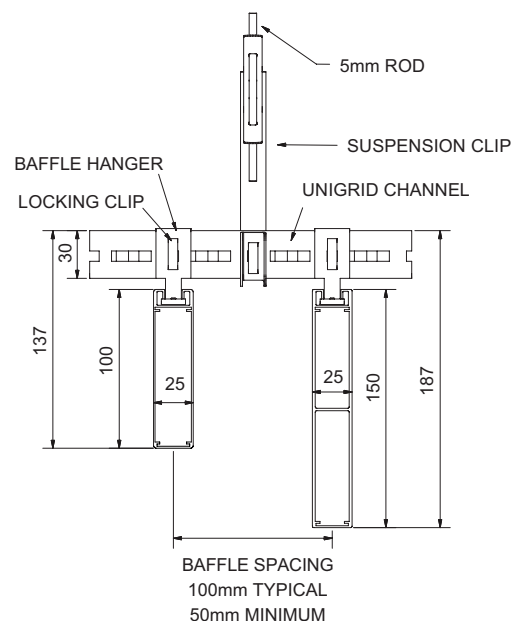
### Connection Details

Fig. 2



### Section Views

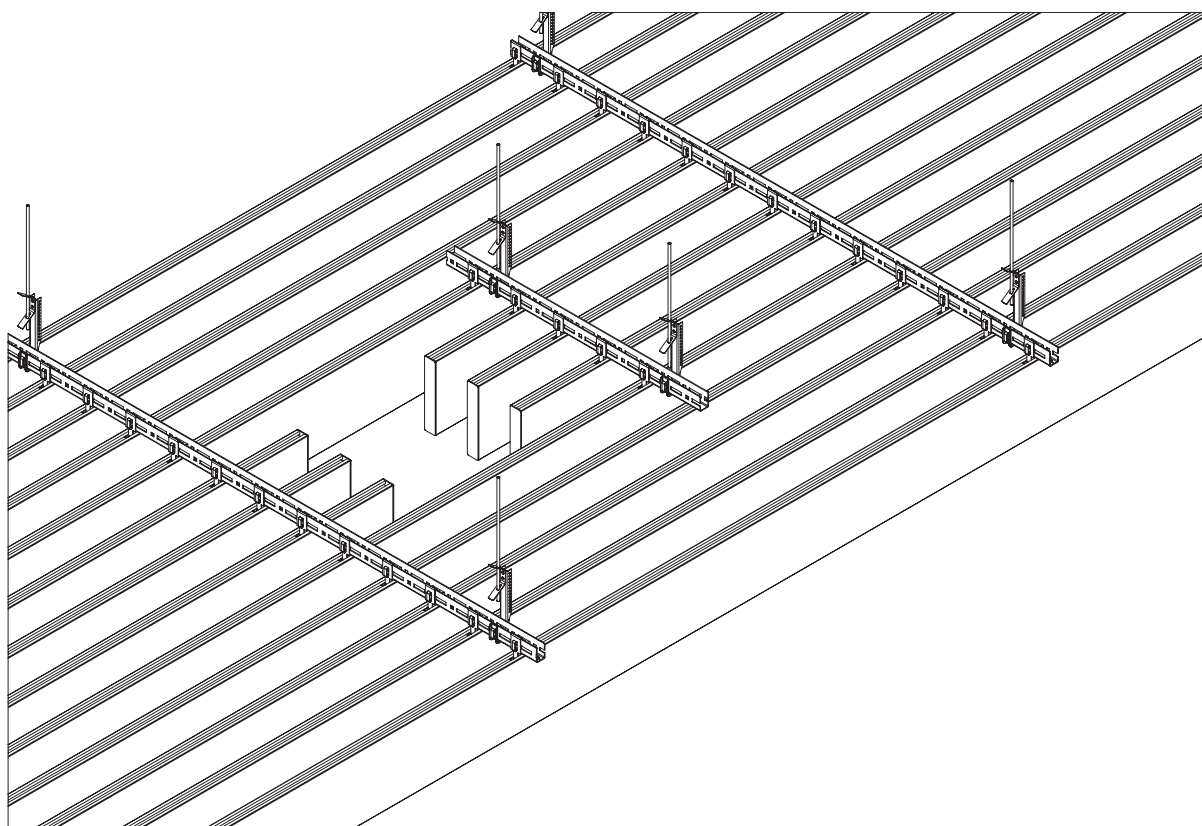
Fig. 3



# Armstrong METALWORKS™ Baffles

## 5. Creating Openings / Voids For Integration of Services

- Openings can be simply created in the Baffle Ceiling as per the drawing below. Baffle sections are to be cut to specified length on site, using an aluminium drop saw.
- Additional Unigrig Channels and Suspension Hangers are to be applied where Baffles are cut (refer drawing for detail). Baffle sections should not cantilever more than 400mm from supporting Unigrig Channel.
- All Mechanical services to be independently supported.



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