Au.diMount CX4 Fixing System

Installation Instructions

atkar acoustics design innovation

System Description

The Au.diMount CX4 System is a unique concealed fixing system for timber substrate ceiling panels. Tested to comply with AS/NZS 2785 Suspended Ceilings, Au.diMount CX4 offer ergonomic installation thanks to its patented, light weight, expressed joint detail, as well as de-mountability.

Features and Benefits

- Light weight allows an easy and ergonomic installation
- Fully concealed fixing for a stylish appearance
- Easily demountable for maintenance and access to the plenum
- Integral expressed joint backing detail
- Wide range of applications – suitable for perforated or solid panels

CX4 System Applications

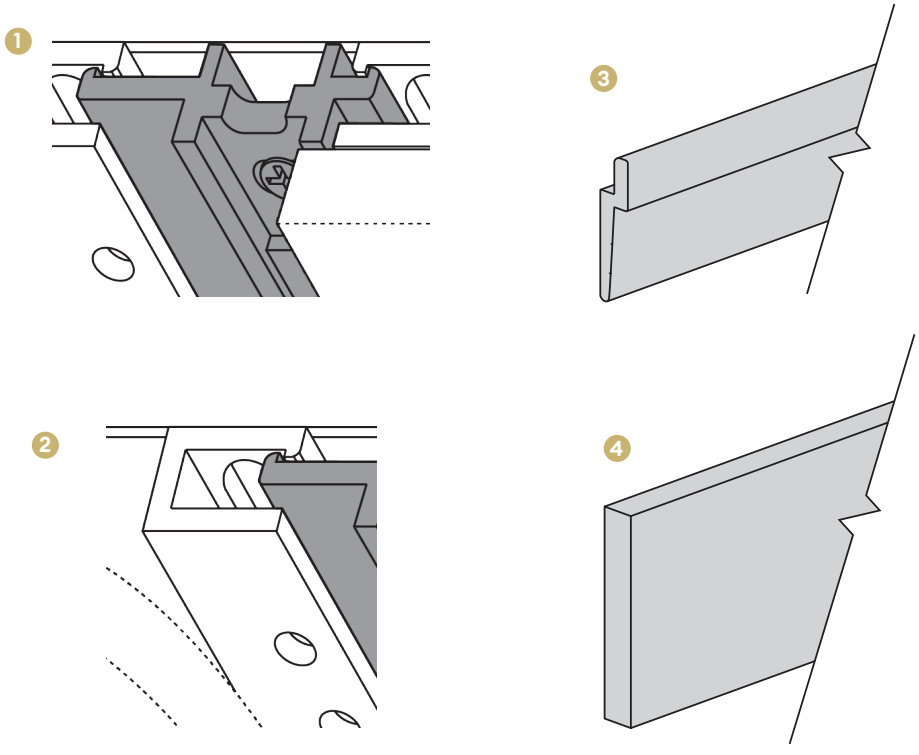
- Suitable for timber substrate ceiling panels
- Recommended for interior use only
- Minimum panel thickness: 12mm
- Expressed joint size: 10mm

Variations

- Angled ceilings
- Soffits

System Components

1. Panel Interlock ACH461
2. Carrier Rail ACZ460
3. Panel Rail ACC463
4. Black backing strip AXH06
5. Foam Tape FGT1616 (optional)
6. Fasteners supplied by others



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Au.diMount CX4 System Schematic

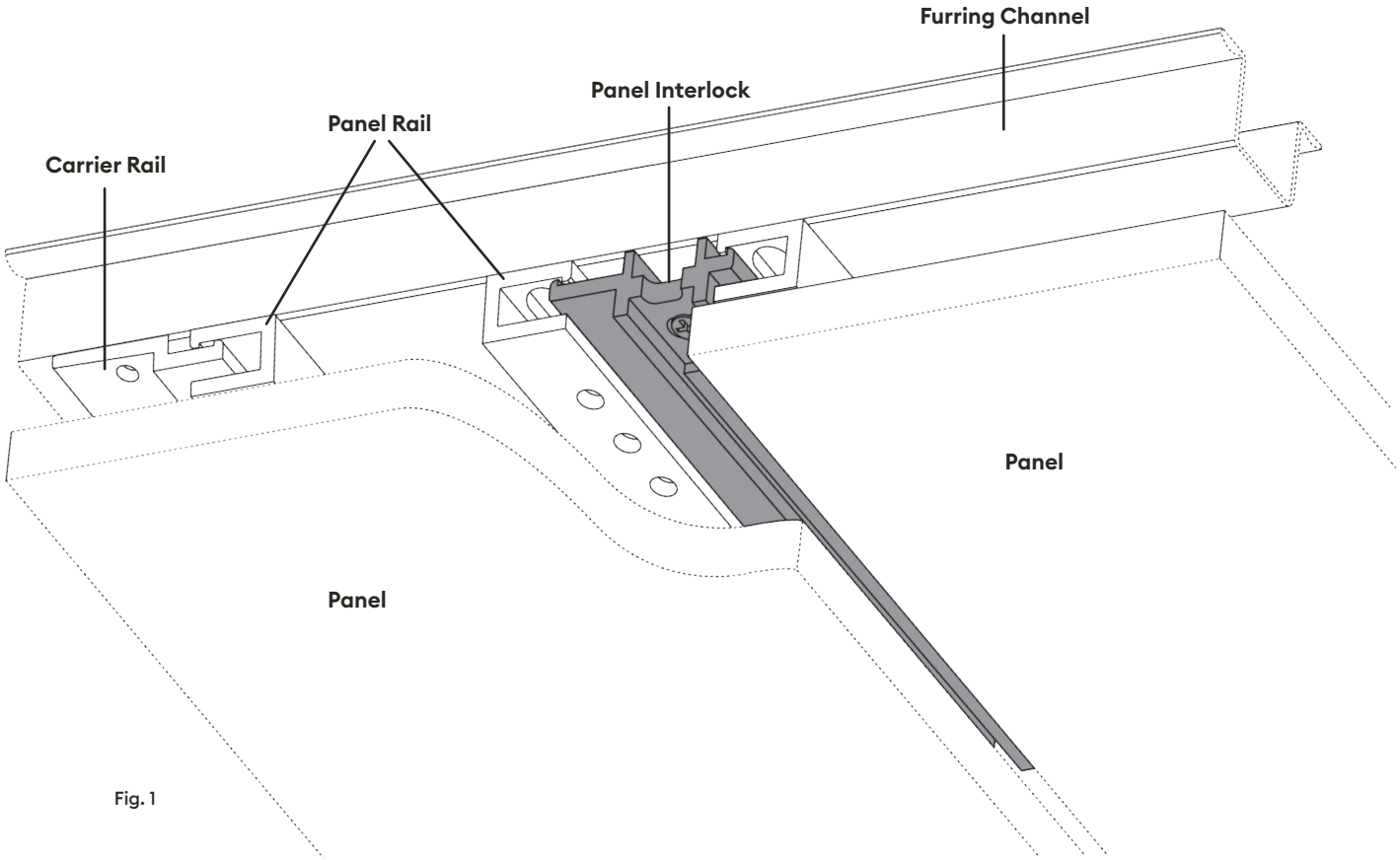


Fig. 1

Fixing Guide Table

Panel Type	Material Thickness (mm)	Maximum Framing Centres (mm)	Fasteners Centres
MDF	12	600	Same as framing centres
	16 - 18	600	
PLYWOOD	12	600	Same as framing centres
	16 - 24	600	

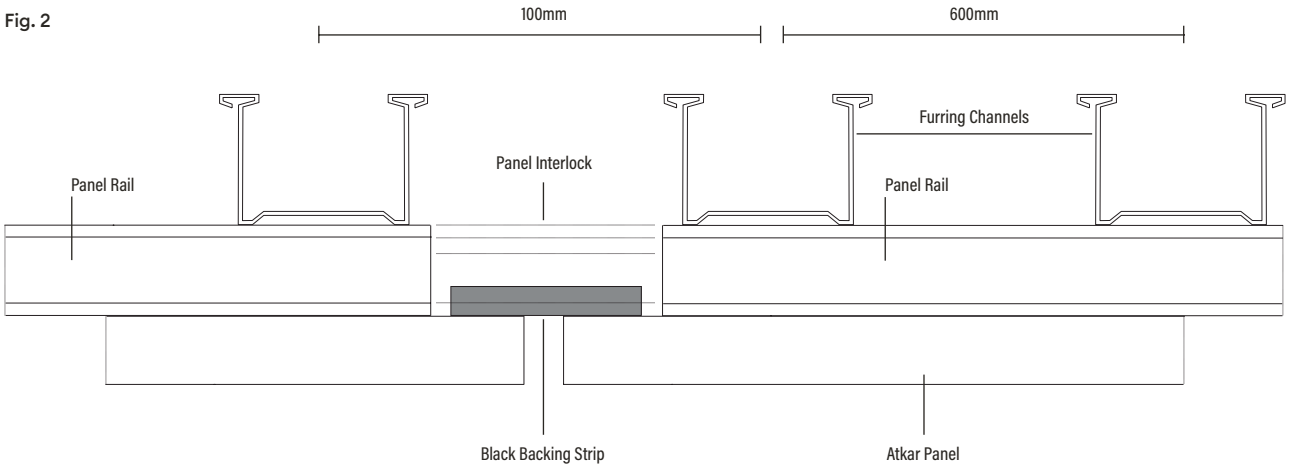
Table provides a general fixing guide. A reduction in Framing Centres should be considered for high impact area as corridors and crowded places as well as for area where panels are to be curved.

Note: The fixing method is of a general nature only and it doesn't consider wind loads, expansion joints and other special design requirements that should be separately addressed by the specifier.

Installation procedure

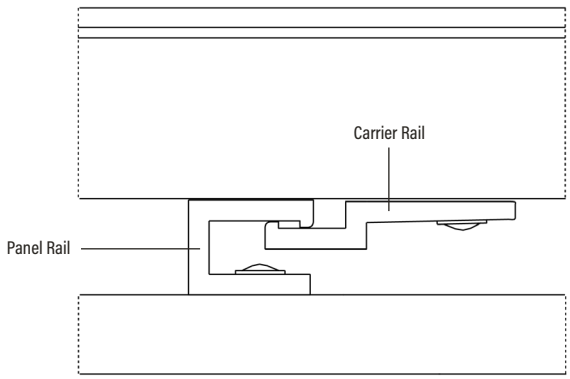
1. **Support Framing system:** prior to construction of the support framing system, the entire ceiling should be set out in a grid format, bearing in mind location of fixing points as determined by panel layout.
   i. It is recommended that set out is conducted from the centre of the room and that location of light fittings and other service is considered to avoid cutting through any of the framing members or panel fixing points.
   ii. It is important that layout grid is kept square and level to avoid complications with panel installation.
2. Furring Channels to be spaced at maximum 600 mm centres (maximum 100m centres at panel joints). A double furring channel would normally be required at the panel joints.

Fig. 2

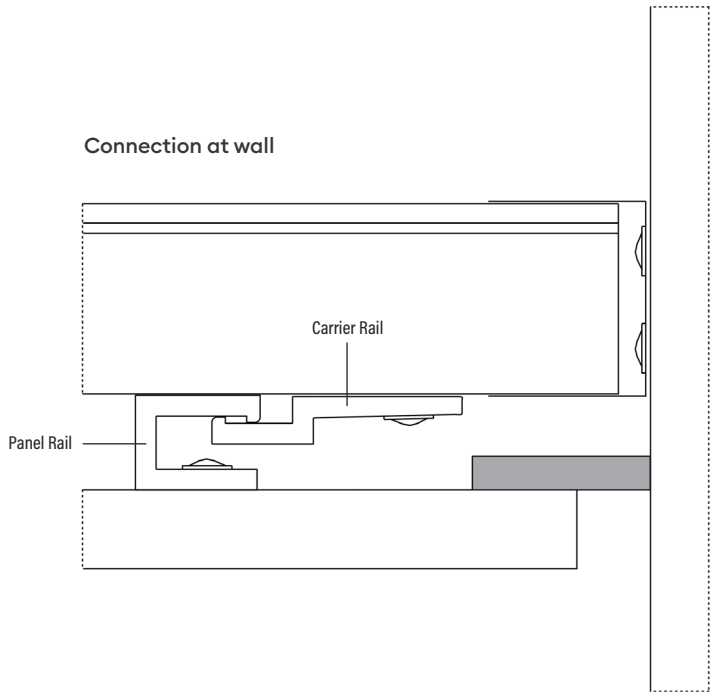


3. Position panels so as Panel Rails (located along the length of a panel, typically in 3 rows) are perpendicular to support framing (i.e. furring channels).
4. Fix Carrier Rail to the Furring Channels, using appropriate screws, at locations to match the corresponding Panel Rail centres located on the edged centre of the starting panel. Then fix all remaining Carrier Rails to align with the Panel Rail in the centre of all other panels.

Connection at middle of panels

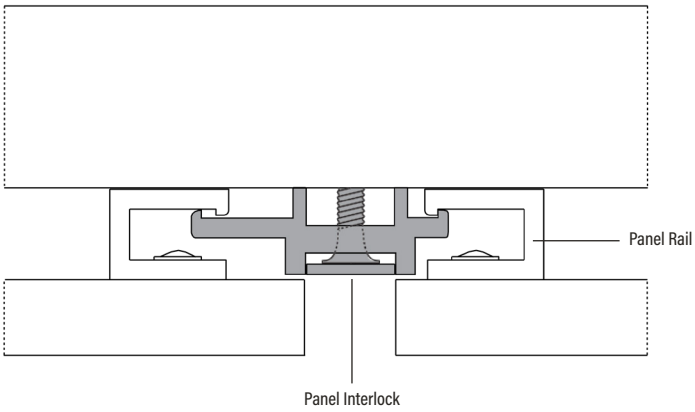


Connection at wall

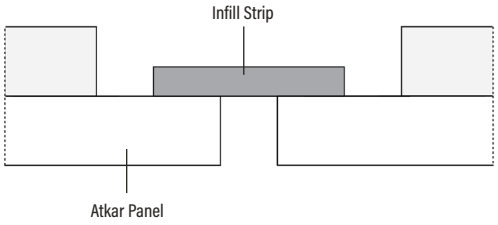


5. Working one area at a time (recommended approx.. 10-20 sqm), mount the first row of panels onto Carrier Rail ensuring Panel Rails fully engage with the Carrier Rail
6. Fix Panel Interlock to the framing system, using appropriate screws and do not fully tighten screws; Panel Interlock must be positioned in the expressed joint on the long edge of panel, perpendicular to the framing structure.
7. Ensure that Panel Rail located on the edge of a panel fully engages with Panel Interlock
8. Mount adjoining panels according to sequence 3 to 7, making minor adjustments where necessary to accommodate any tolerance discrepancies. Note that the end panel row will also require an additional Carrier Rail to engage the additional Panel Rail on those panels
9. When all panels in the current working area have been installed, ensure all expressed joints are consistent and then tighten the Panel Interlock fixing screws
10. Insert Backing Strips in the space between panels, on the short side, perpendicular to panel rails.
11. When all panels have been installed, check adjoining panel flushness, and check expressed joints alignment, making adjustment when necessary. Optional Foam tape can be installed on panel interlock to conceal the screw fixing.

Connection between panels



MDF Infill Strip between panels



Demounting Instructions

It is not recommended that panels are demounted and re-installed by unqualified personnel. Any lack of system knowledge could lead to a system failure.

1. To demount a panel, locate and remove screws from within the expressed joint
2. Slide panel back to disengage from the Panel Interlock and down (this usually requires two people)
3. To re-install a panel, engage Panel Rail with Carrier Rail and Panel Interlock
4. Ensure screws are fixed back through the Panel Interlock. Failure to secure properly the panel through the panel interlock could lead to system failure and panel dislodgement.

Compliance with AS Standards

Au.diMount CX4 is tested to comply with AS/NZS 2785/2000 Suspended Ceilings.

If seismic compliance is required and perimeter wall or abutment, running perpendicular to CX4 joints where panel end, is not structural, please contact Atkar on 1300 333 833 or email enquiries@atkar.com.au