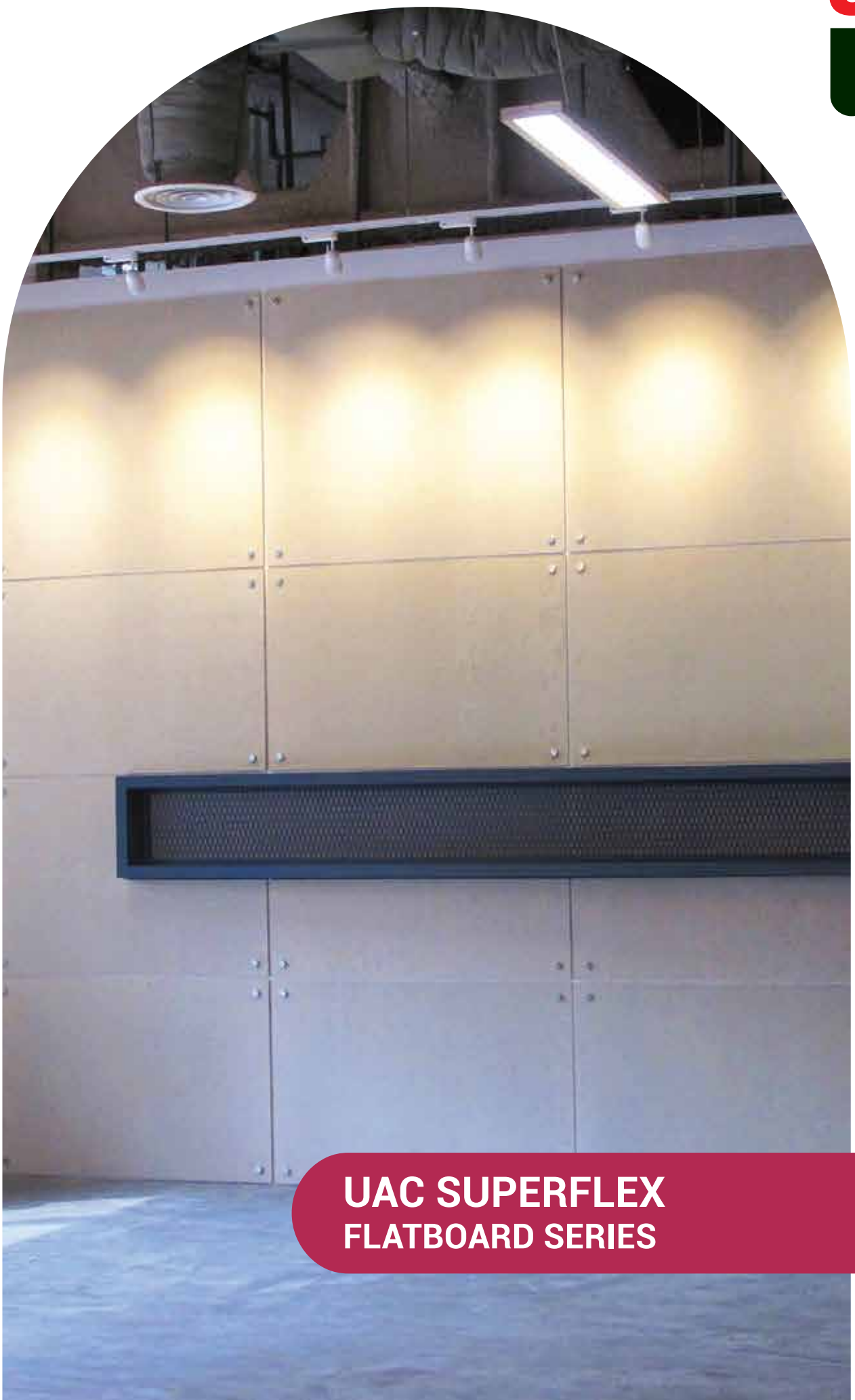


UAC SUPERFLEX
FLATBOARD SERIES

UAC Superflex



UAC Superflex is the ultimate multipurpose building board that comes with a smooth texture and a square edge profile. UAC Superflex is suitable for many general building purposes, including ceilings and wall partitions, whether internally or externally. It is ideal for gable ends, façades, eaves lining, soffits, permanent formwork, and substrate flooring.

UAC Superflex comes in a wide range of thicknesses, from 3.2mm up to 25.0mm, to cater for multipurpose applications of the toughest construction jobs.

APPLICATIONS

Thickness	3.2mm	4.5mm	6.0mm	9.0mm	12.0mm	15.0mm	18.0mm	20.0mm	25.0mm
Internal Wall Lining			•	•	•	•	•		
External Wall Cladding			•	•	•	•	•		
Flooring						•	•	•	•
Permanent Formwork						•	•	•	•
Gable End			•	•	•				
Façade				•	•	•			
Backer / Sheeting Board		•	•	•	•				
Ceiling	•	•	•						
Soffits	•	•	•						
Eaves Lining	•	•	•						

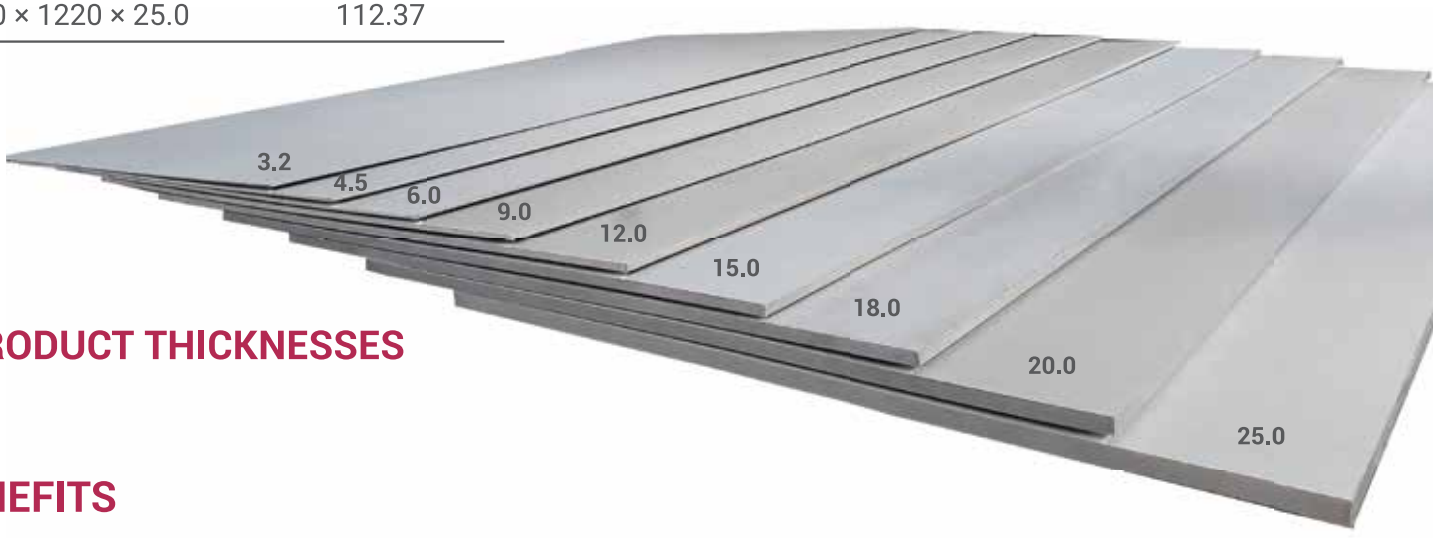
Dimensions (mm)	Nominal Weight (kg)
595 × 595 × 3.2	1.71
603 × 603 × 3.2	1.76
610 × 610 × 3.2	1.80
1195 × 595 × 3.2	3.43
1213 × 603 × 3.2	3.53
1220 × 610 × 3.2	3.60
1220 × 1220 × 3.2	7.19
2440 × 1220 × 3.2	14.38
1220 × 610 × 4.5	5.06
1220 × 1220 × 4.5	10.11
2440 × 1220 × 4.5	19.80
2440 × 1220 × 6.0	26.97
2440 × 1220 × 9.0	40.45
2440 × 1220 × 12.0	53.94
2440 × 1220 × 15.0	67.42
2440 × 1220 × 18.0	80.91
2440 × 1220 × 20.0	89.90
2440 × 1220 × 25.0	112.37

Flooring, Raised Floor

The table below shows the required minumum thickness for UAC Superflex Thicker Board:

RC Slab thickness (mm)	Clear Span, L (mm)								
	200	250	300	350	400	450	500	550	600
50	12	12	12	12	12	15	15	18	18
75	12	12	12	12	15	15	18	18	20
100	12	12	12	12	15	15	18	18	20
125	12	12	12	12	15	18	18	20	25
150	12	12	12	12	15	18	18	20	25
175	12	12	12	15	15	18	20	25	25
200	12	12	12	15	18	18	20	25	25
225	12	12	12	15	18	18	20	25	25
250	12	12	15	15	18	20	25	25	-
275	12	12	15	15	18	20	25	25	-
300	12	12	15	15	18	20	25	25	-
325	12	12	15	15	18	20	25	-	-
350	12	12	15	15	18	20	25	-	-

PRODUCT THICKNESSES

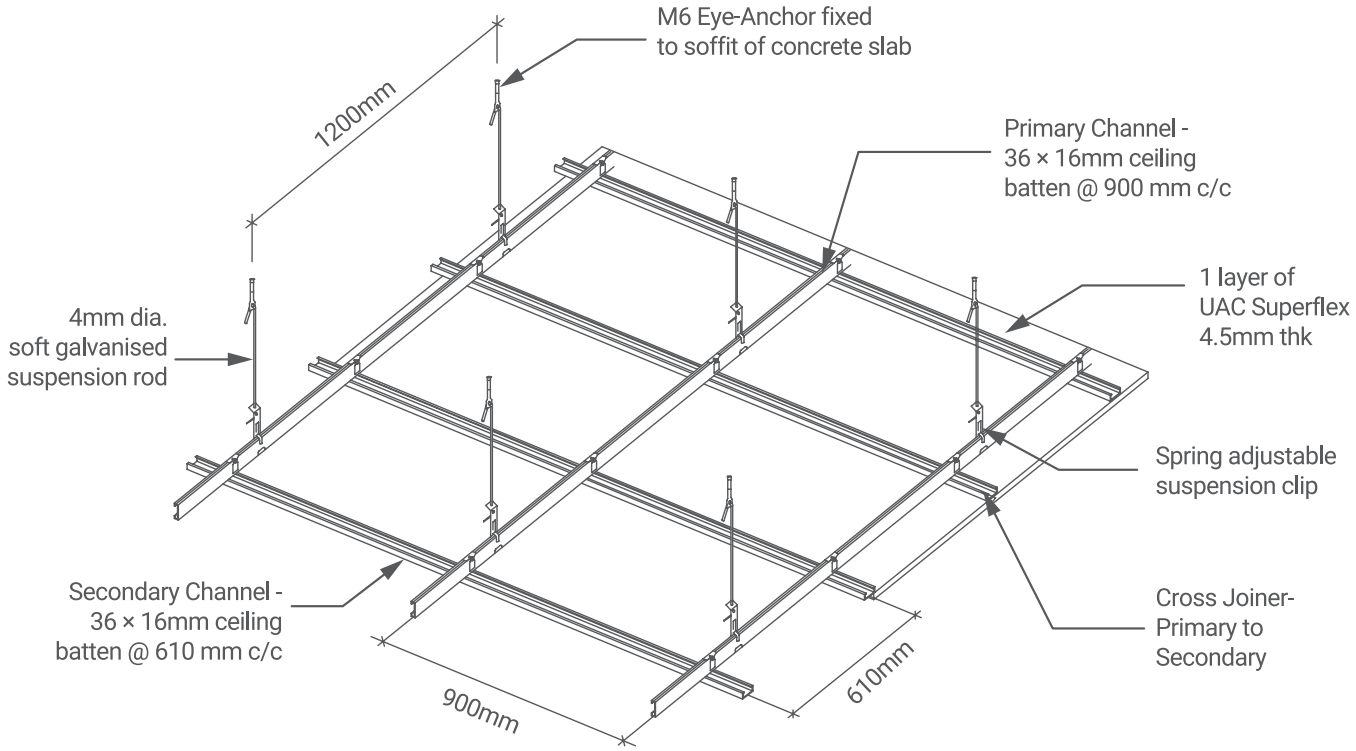


BENEFITS

- Quick Installation
- Smooth Surface
- Water-Resistant
- Dry Construction
- Tough and Flexible
- Durable
- Cooling
- Non-Hazardous
- Fire-Resistant
- Termite-Proof
- Cost Effective
- Versatile in Applications
- Versatile in Surface Finishes
- Rot-Free

CEILING

A. TYPICAL DETAIL FOR INTERNAL CEILING SYSTEM (CLIP FIXED)



1. Fix the 4mm galvanised suspension rod to soffit of concrete slab by using M6 eye anchor at 1200mm centres maximum, parallel to the primary channel row. Adjust the level of the ceiling frame by using spring adjustable suspension clip.

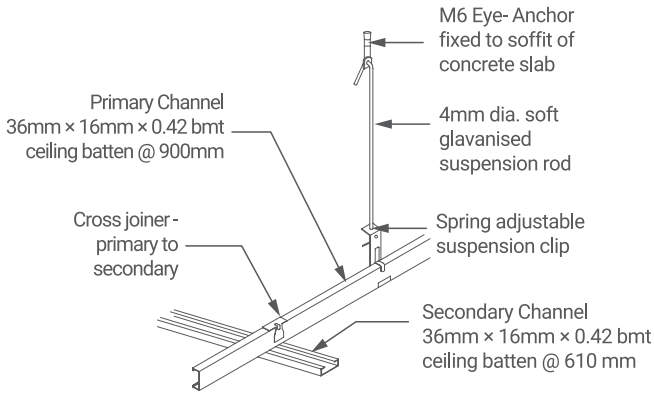
2. Set up the galvanised iron metal studs to the level by lining up 36mm × 16mm × 0.42 BMT primary channel at 900mm centers maximum and 36mm × 16mm × 0.42 BMT secondary channel at 610mm centers maximum. Fix the cross joiners at the primary channel at 610mm centers maximum. Then, snap fit the secondary channel into the cross joiners.

3. Screw fix the UAC Superflex 4.5mm directly to the underside of secondary channel.

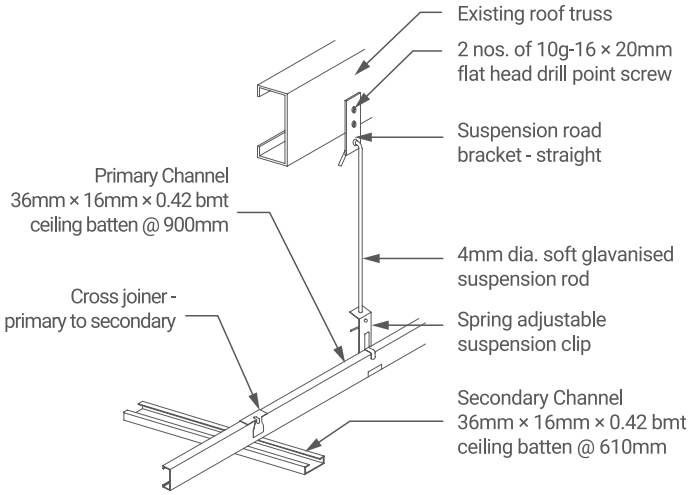
4. Seal the gaps between board joints using paintable Polyurethane sealant (PU sealant) or Modified Silicone sealant, and patch the screw points using UAC Jointing Compound or cementitious jointing compound.

5. Apply paint after seal the gaps and patch the screw points.

Note: Internal pressure is not taken into consideration in the design. Kindly refer to UAC representative for frame spacing and configuration in accordance the required design criteria.



FOR CONCRETE FIXING DETAILS



FOR ROOF TRUSS FIXING DETAIL

B. TYPICAL DETAIL FOR EXTERNAL CEILING SYSTEM (SCREW FIXED)

1. For typical ceiling drop with drop less than 1500mm, fix the 51mm × 35mm × 0.75 BMT suspension channel (C-stud) to soffit of concrete slab by using M6 anchor bolt at 1200mm centres maximum, parallel to the primary channel (C-stud) row. Adjust the level of the ceiling frame before screw fixing to the primary channel.

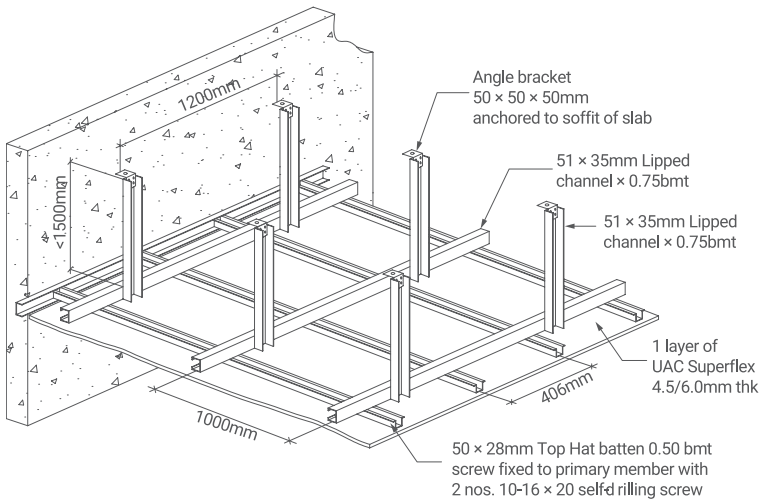
2. Set up the galvanised iron metal studs to the level by lining up 51mm × 35mm × 0.75 BMT primary channel (C-stud) at 1000mm centers maximum and 50mm × 28mm × 0.50 BMT @406mm screw fixed to primary member with 2 nos. self-drilling screw.

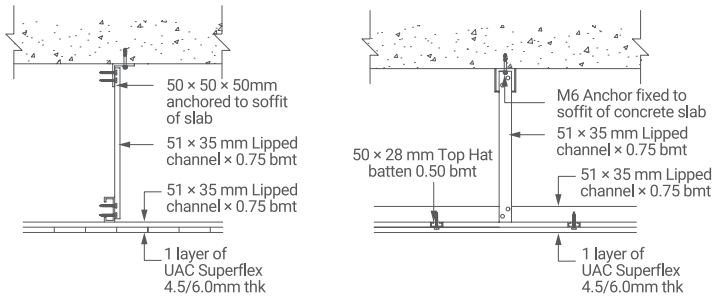
3. Screw fix the UAC Superflex 4.5mm or 6.0mm thick directly to the underside of secondary channel.

4. Seal the gaps between board joints using paintable Polyurethane sealant (PU sealant) or Modified Silicone sealant, and patch the screw points using UAC Jointing Compound or cementitious jointing compound.

5. Apply paint after sealing the gaps and patching the screw points.

Note: Kindly refer to UAC representative for frame spacing and configuration in accordance the required design criteria.





TYPICAL SECTION OF CEILING BATTEN & SUSPENSION

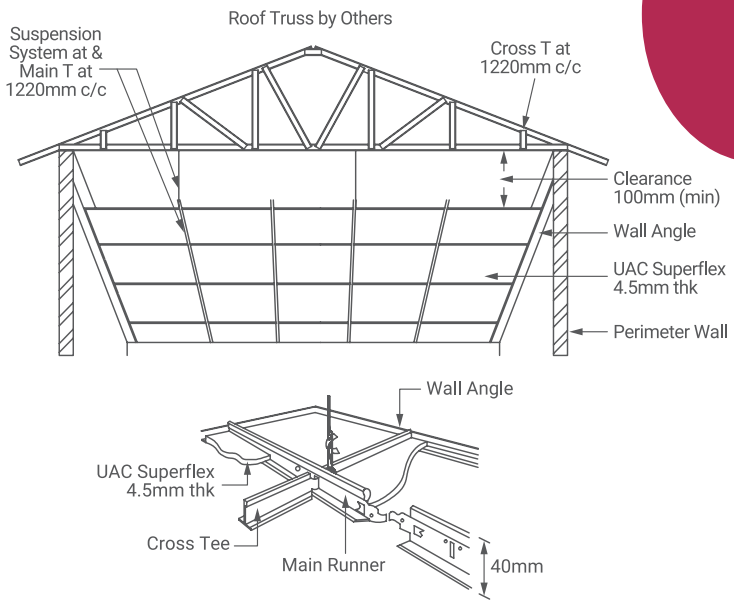
C. TYPICAL CEILING LINING (SUSPENDED CEILING)

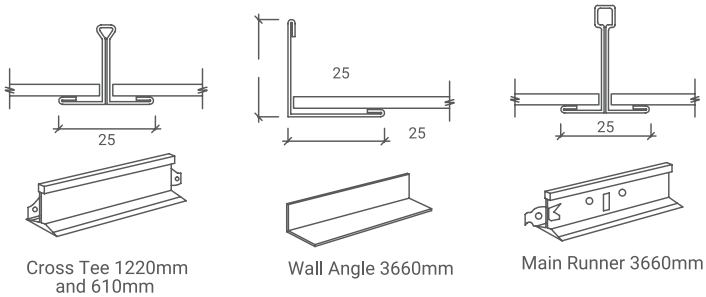
UAC Superflex ceiling boards with 3.2mm and 4.5mm thick are widely used for suspended ceiling systems. The standard board sizes are 610mm × 610mm and 610mm × 1220mm. However, the pre-cut sizes can be supplied to fit the designated support grid dimension, as shown below:

UAC Superflex Board Size	Grid Size
595mm × 595mm	600mm × 600mm
603mm × 603mm	610mm × 610mm
595mm × 1195mm	600mm × 1200mm
603mm × 1213mm	610mm × 1220mm

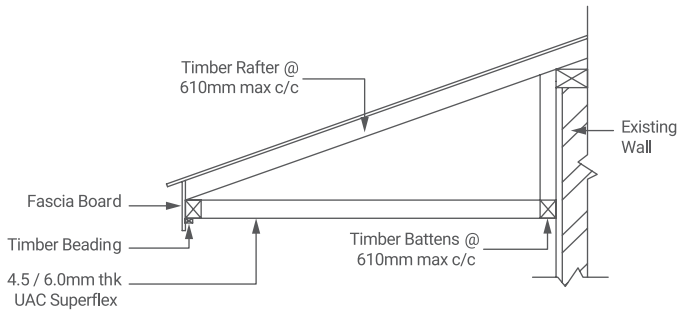
The suspended ceiling system consists of Main-T, Cross-T, and Wall Angle. They are suspended by using suspension rods. Attach the suspension rods to the roof truss using suitable screws.

Note: Kindly refer to UAC representative for frame spacing and configuration in accordance with the required design criteria.

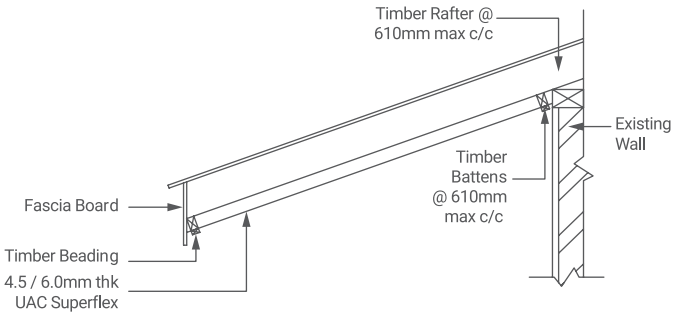




D. TYPICAL DETAIL - FIXED CEILING EAVES / SOFFIT LININGS



FLAT EAVES / SOFFIT



RAKED EAVES OR SLOPPING CEILING

UAC Superflex ceiling board with 3.2mm, 4.5mm, and 6.0mm thick are widely used for fixed ceiling eaves and soffit linings applications. Fix the UAC Superflex ceiling board to the timber framework by using nails (for 3.2mm and 4.5mm thick boards) or screws (for 6.0mm thick boards), spaced at 610mm centres maximum.

E. TYPICAL JOINT DETAIL - NAIL & SCREW ON APPLICATION

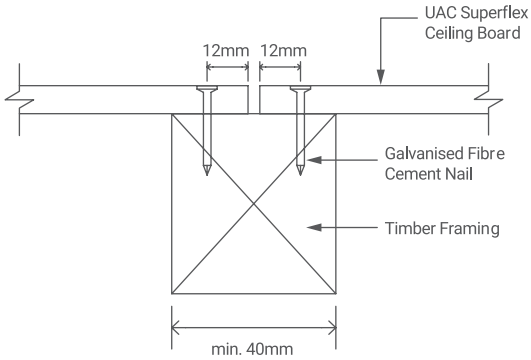
1. Timber Fixing Joint: Fix the UAC Superflex ceiling board to the kiln-dried timber framing by using galvanised fibre cement nail.

2. Butt Joint: Fix the UAC Superflex ceiling board to the 0.5mm to 1.2 BMT galvanised light gauge steel section by using self-drilling wing tek screw. The gap is less than 3mm wide.

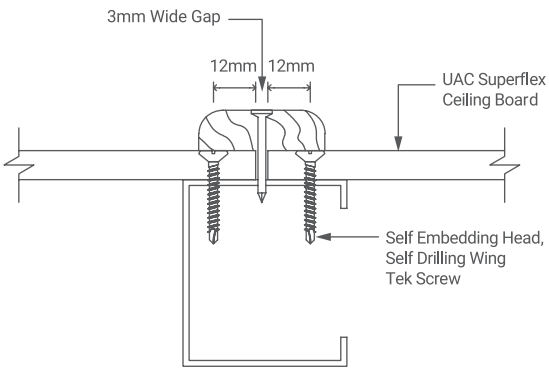
3. Sealant Joint: Use the Paintable Polyurethane sealant to cover the 3mm to 6mm wide gap as well as to serve as seamless ceiling.

4. Timber joint: Use the timber batten to cover the 3mm wide gap.

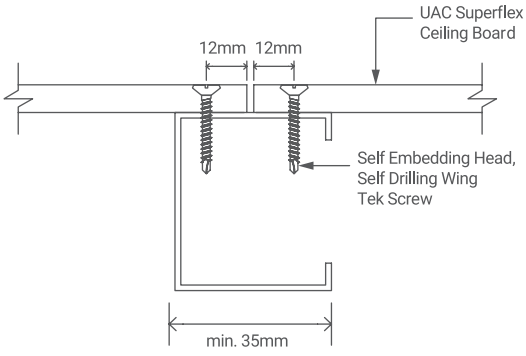
5. Express Joint: It is similar to butt joint, but the gap is from 3mm to 6mm wide gap.



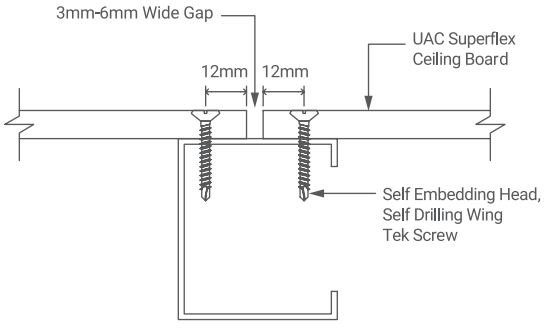
TIMBER FIXING JOINT



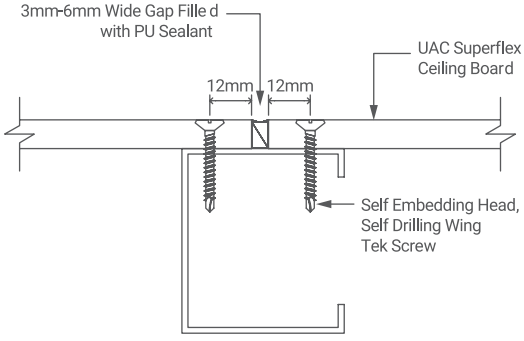
TIMBER JOINT



BUTT JOINT



EXPRESS JOINT



SEALANT JOINT

WALL

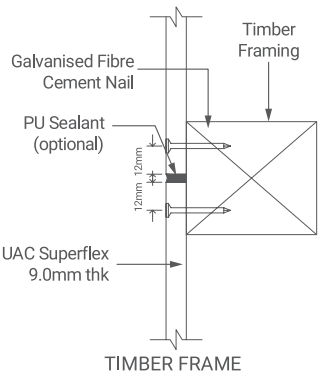
A. TYPICAL DETAIL INTERNAL / EXTERNAL WALL FIXING / PARTITIONING

1. UAC Superflex is used as internal and external drywall systems and partitioning. Install UAC Superflex on both sides of 76mm × 0.55 BMT galvanised steel studs at 610mm centres maximum.

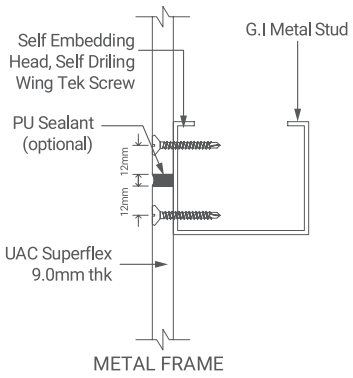
2. Screws should not be placed less than 12mm from sheet edges and 50mm from corners. Screws should be fixed at 200mm centres maximum around the perimeter of the sheet and 300mm centres maximum at the intermediate of the sheet. For drywall with tiles, please contact UAC representative for frame spacing.

3. Seal the gaps between board joints using paintable Polyurethane sealant (PU sealant) or Modified Silicone sealant, and patch the screw points using UAC Jointing Compound or cementitious jointing compound. Apply painting after sealing the gaps and patching the screw points.

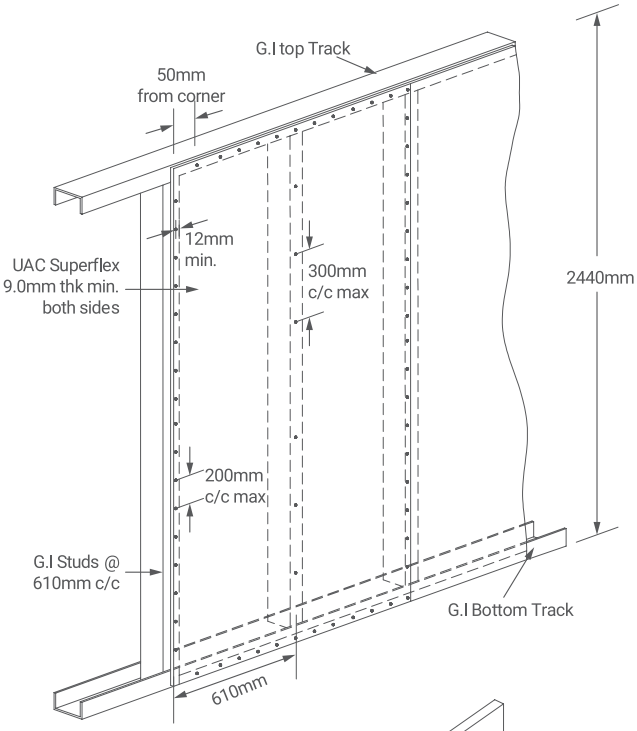
Note: For the door and window openings, kindly refer to UAC representative for frame spacing and configuration in accordance the required design criteria.

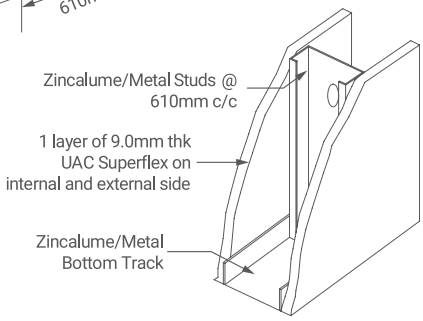


TIMBER FRAME



METAL FRAME





CROSS SECTION DETAIL

B. TYPICAL CONNECTION DETAILS FLOORING (HOLLOW SECTION FRAME)

UAC Superflex is used as internal and external flooring systems. Design the flooring system to meet specific load requirements. Typically, the flooring system uses 2440mm × 1220mm × 18.0mm/20.0mm/25.0mm thick UAC Superflex fastened onto mild steel rectangular hollow section or galvanised iron metal studs framing system.

1. Install the hollow section at approximately 610mm centres to support the floor boards.

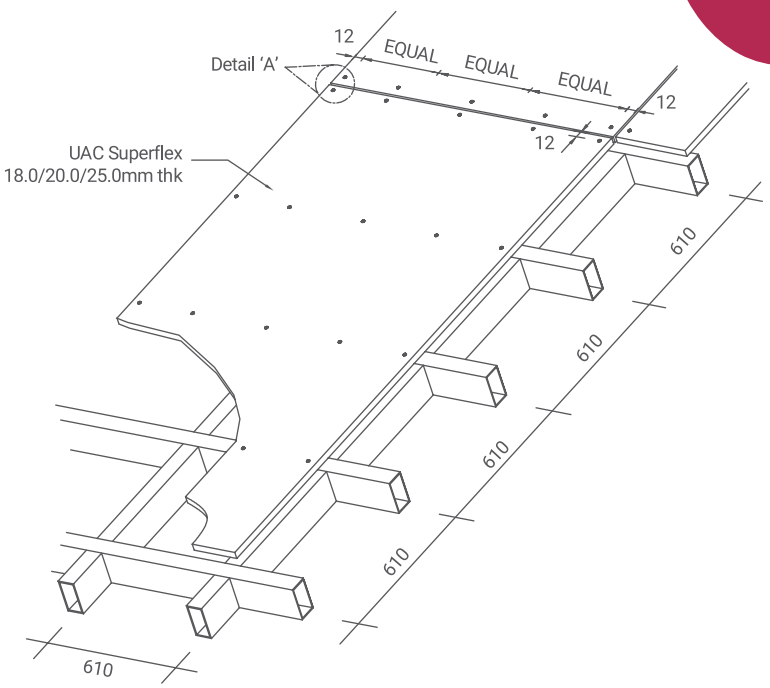
2. Fix the UAC Superflex to the steel framing system by using No. 30 CSK head tek screw.

3. Fastener should not be placed less than 12mm from sheet edges.

4. [Optional] Seal the 3mm-5mm gap between board joints and patch the screw points using cementitious jointing compound or paintable Polyurethane sealant (PU sealant) or Modified Silicone sealant.

5. For external flooring, adjust the floor support to allow a minimum of 2 degree fall or slope.

Note: It is the responbility of the structural engineer to ensure the framing system in which UAC Superflex will be laid on will perform under the design load.



TYPICAL SECTION

A Member of Boustead Group

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