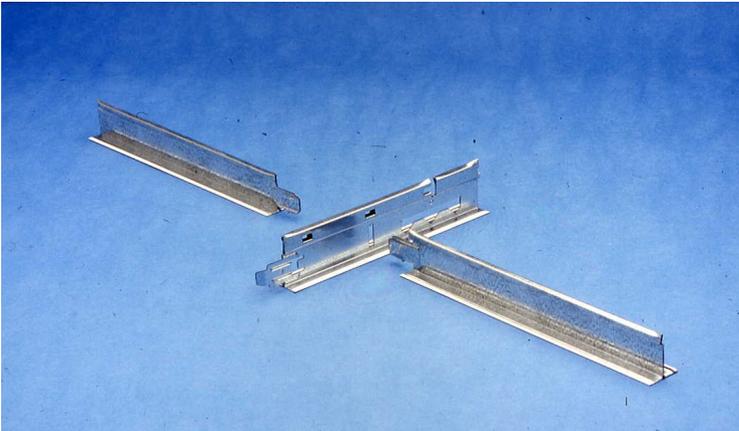


Rigidlock Grid

Installation Guide



The major features that designers and contractors insist are essential for a successful suspended ceiling system are quality materials, reliability, flexibility and ease of fitting.



Unit E, Halesfield 10, Telford, Shropshire. TF7 4QP

Tel: 01952 581 150 Fax: 01952 585 147

www.librasystemsuk.com

Site Conditions, Storage & Manual Handling

Site Conditions: Installation may start when the building, or the relevant area of the building, is glazed, wind and/or water tight. Wet trades should have finished before installation. A relative humidity of not greater than 70% and a temperature not lower than 7°C should exist, unless otherwise specified by Libra Systems.

Corrosive Resistant Grid should be used in areas of $\geq 70\%$ relative humidity.

Storage: Flat, dry, clean & safe storage.

Contractors are responsible for safeguard of goods on site. Poor/rough handling i.e. Dropping on corners or edges will result in damages to product.

Long product should be adequately supported along its length.

Suspended Ceiling Grid section is supplied in full cardboard cartons, care should be taken when opening cartons so as to prevent damage to section inside.

Manual handling:

Care should be taken when handling product as carton weights vary. Refer to Health & Safety, COSHH & PPE requirements when handling products. Risks should be assessed and where required mechanical lifting equipment should be used.

Step 1: Installation of Perimeter angle on walls

- Establish the finished floor to ceiling height, add the height of the perimeter angle, ie: 31mm and mark on 3 walls.

- Mark a connecting line on the fourth wall using a chalk line.

- Fix the perimeter angle to the walls using suitable fixings positioned 300mm apart. (See Fig 1)

- Construct internal and external corners to ensure that Ceiling Tiles lie flat. (See figs 1,2,3)

- Note! Perimeter angle must be level all around the room. (If necessary use a Spirit Level)

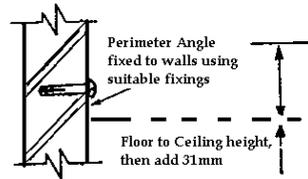


Fig.1

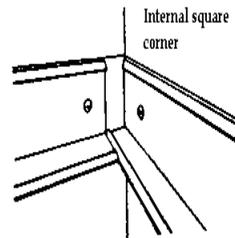


Fig.2

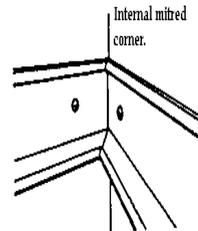


Fig.3

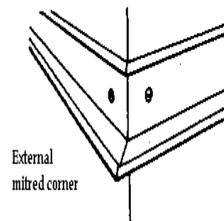


Fig.4

STEP 2 Suspension Layout

- Layout a grid 1200mm x 1200mm using a chalk line on the structural soffit, starting at the centre of the room to ensure even borders all around.

- Mark positions where the grid lines intersect, these become the positions of the top fixings. (The type of top fixing will depend on the construction of the soffit, for details contact fixing manufacturer).

- Note! Last fixing must not be more than 450mm from walls.

STEP 3 Installing “Hanger Wires”

- Measure depth from soffit to bottom of perimeter angle and add 200mm. Cut hanger wires to this dimension.

- Attach hanger wire to top fixing and wrap securely around itself 3 times.

- Fix a chalk line to the top edge of the perimeter angle and stretch, parallel to the intended direction of the Main Runner, across the room to the top edge of the perimeter angle on the wall opposite Ensure the chalk line is touching a row of hangers..

- Where the chalk line touches the hanger wire, bend the wire at 90 degrees.

STEP 4 Installing Main Runners

- Cut end of first Main Runner so that Cross Tee “H” slot aligns with chalk line and the cut end of the Main Runner sits on the perimeter angle. (See fig. 5)

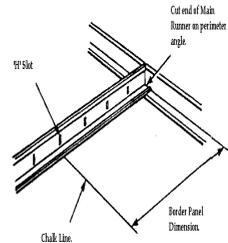


Fig.5

- Fix a chalk line as in Step 3, but this time
- position the line at the bottom of the perimeter angle, at 90 degrees to the intended direction of the Main Runner, a distance equal to the appropriate Border Tile dimension from the wall. (See fig. 5)
- Pass ends of hanger wire through the appropriate holes in bulb of Main Runner ensuring that each wire hangs vertically and is wrapped securely around itself 3 times.

- Lock into place next Main Runner and continue as previous ensuring each Main Runner is level, that Fire Splices are NOT adjacent to each other and a hanger wire is close to each Main Runner Joint/Fire Splice. (See fig. 6)

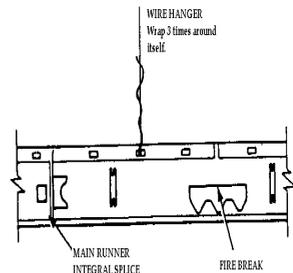


Fig.6

STEP 5 Installing 1200mm Cross Tees.

- Insert the end of the first full length 1200mm Cross Tee into the LEFT HAND side of the “H” slot in the Main Tee, in line with the chalk line set up at Step 4. Ensure the locking tag is fully through the Main Tee. (See fig. 7)

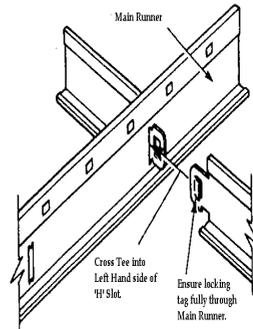


Fig.7

- Insert the second full length 1200mm Cross Tee into the same “H” slot from the opposite side of the Main Tee. Again, insert into the LEFT HAND side of the “H” slot.
- Cut Cross Tees at perimeter to suit Border Panel dimension.
- Continue procedure spacing Cross Tees 600mm apart across the Main Tees.

STEP 6 Installing 600mm Cross Tees

- Insert the end of the first full length 600mm Cross Tee into the LEFT HAND side of the “H” slot in the centre of the previously installed 1200mm Cross Tee, again ensuring the locking tag is fully through the 1200mm Cross Tee.
- Continue construction as in Step 5 until 600mm x 600mm module is complete.
- Remove all chalk guide lines.

STEP 7 Tile Installation

- Insert all full tile then measure, cut and fit border tiles, using hold-down clips if required. (See fig. 8)

Fig.8

