

# INSTALLATION MANUAL



# Loading and Storage Handling Instructions

Wear appropriate safety equipment - Dust Mask or Respirator, Goggles, Safety Helmet and Hand Gloves.



## DONT'S ❌

Do not drag the Boards off the stack



## DO'S ✅

Boards must be lifted off the stack



Don't store Boards horizontally or vertically



Boards must be stacked on level surface over a pallet



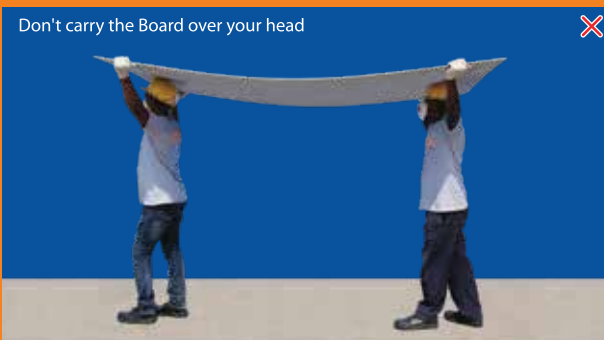
Don't hold the Board from the opposite ends



The right way to carry the Board



Don't carry the Board over your head



## Storage

Keep boards covered off the ground over the pallet on a clean, flat and level surface that is protected from direct exposure to weather.





## Board Cutting

### Do's

Cut the board face down when using a circular saw or mechanical Shears. Cover the saw table with a piece of carpet or soft cover to avoid scratches on the face of the board.

Cut the board in open and ventilated area.

Use a diamond cutting disc blade or hack saw.

### Dont's

Do not use wood cut blade. (Because it develops more dust and is hard to cut)

Avoid cutting vertically.



## Recommended Tools

### Cutting Machine

Marble Cutting machine with Diamond cutting disk blade

## Screws and Drilling Machine

Self Drilling and Tapping Screws with Phillips head



## Partition

### Channel Fixing

Mark the floor/ceiling with plumb line. Fix the floor/ceiling channel using Metal anchor. Place the Studs in between floor/ceiling on every 610 mm center to center.

Install intermediate channels if height exceed the board length. Channel to be fixed at every 2/4 feet or required height of the partition.



### Screw Fixing / Fastening

- Must be non-corrosive and designed for use with calcium silicate board
- Screw type is determined by application and/or wall design. For floor/wall/ceiling, wooden screw / metal anchor can be used for fixing GI channels
- Always use self drilling and tapping screws with Phillips head to fix boards.
- Length 25/38/50 mm as required

When fixing the screw on the board, it should be 25mm from all corners and 15mm from edges of the board.

Maintain 2 mm gap from board to board

### Insulation

Rock wool/Glass wool/Ceramic wool to be placed in the cavity of the partition.

**Note:** Density and dimension are based on selection / required specification.

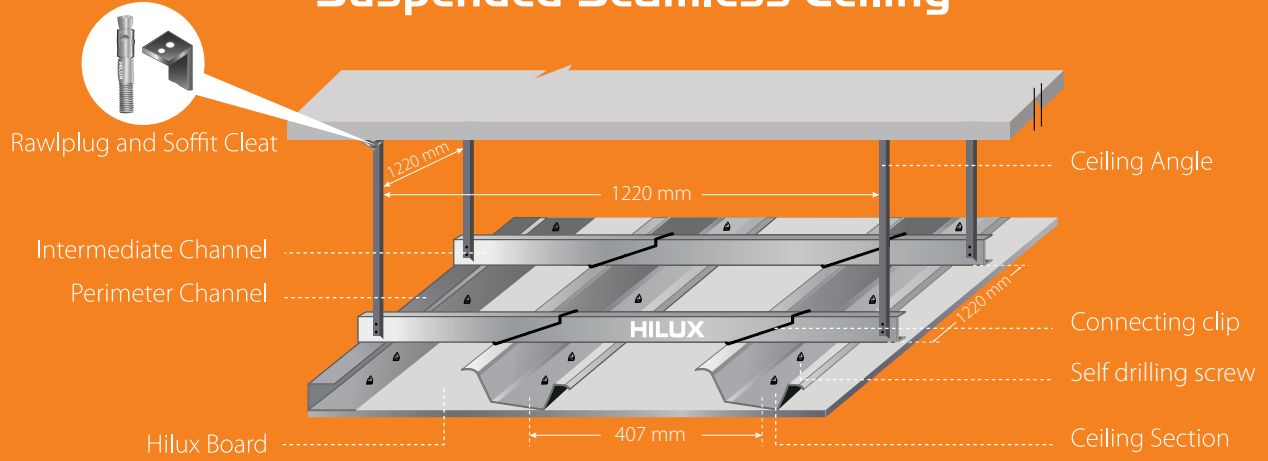
Provide MEP servicing conduits, if necessary  
Provide membrane (vertical / horizontal) bracing for additional support for hang-loads (Air Conditioners, TVs, Wash Basins, etc.)

### Board Fastening

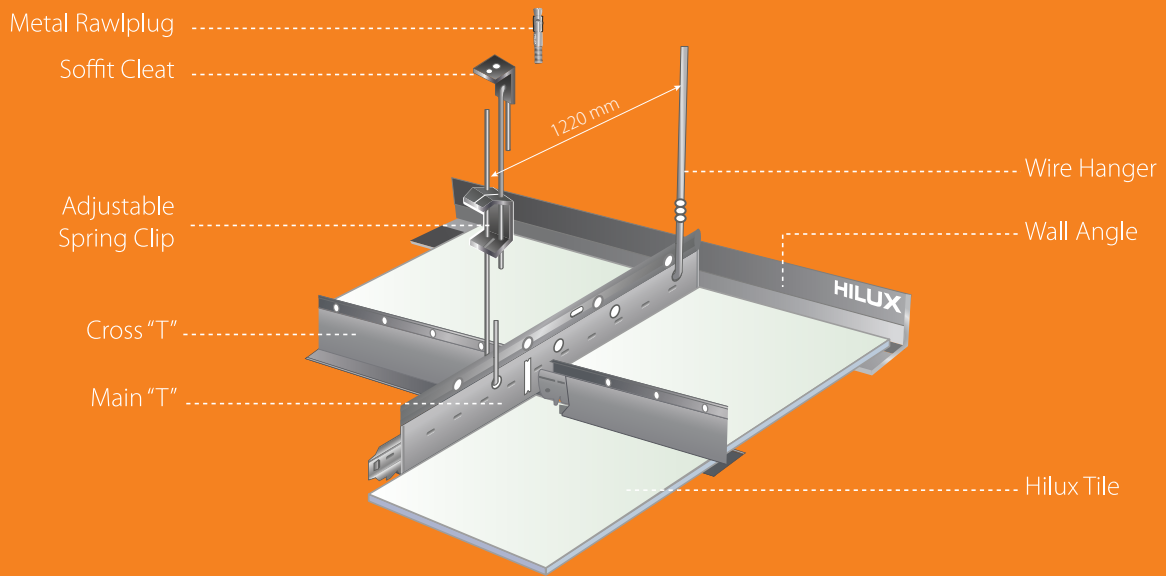
- The boards should be fastened to studs or solid framing - a maximum of 250 mm on center
- In some instances, there may not be a stud or framing available to fasten into - such as, along a rake, inside or outside corners, or at a window or door opening. In these areas, the boards must be fastened to a structural - rated sheathing
- Ensure tapping vertical and horizontal portion before installing the board



## Suspended Seamless Ceiling



## Suspended Grid Ceiling



## Application Matrix

Components/ Application*	Board size in mm*				Thickness in mm*				
					6	8	10	12	16
Dry Wall Partition	2440x1220	1830x1220				★	★	★	
Wall cladding/Paneling	2440x1220	1830x1220					★	★	
Seamless ceiling	2440x1220	1830x1220				★			
Grid ceiling	1220x610	1195 x 595	610x610	595x595	★	★			
Roof Under lay	2440x1220	1830x1220					★	★	
Furniture	2440x1220	1830x1220				★	★	★	★
Doors	2440x1220	1830x1220					★	★	★
Kitchen cabinets	2440x1220	1830x1220					★	★	★
TV wall units	2440x1220	1830x1220					★	★	★

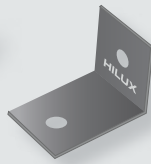
\*We reserve the right to make technical changes at any time.

# General Accessories

## Ceiling Seamless Finish - Accessories



Intermediate Channel



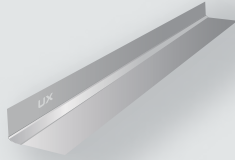
Soffit Cleat



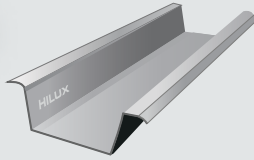
Connecting Clip



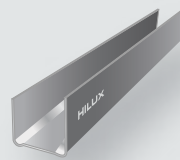
Metal Rawlplug



Ceiling Hanger



Ceiling Section

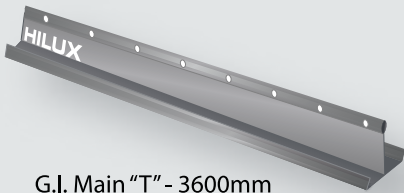


Perimeter Channel

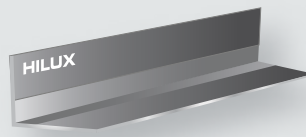


Self Drilling Screw with Underhead Cutter

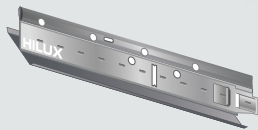
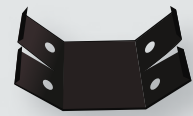
## Grid Ceiling - Accessories



G.I. Main "T" - 3600mm



Wall Angle



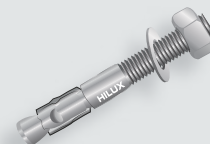
G.I. Cross "T" - 1200mm



Self Drilling Screw with Underhead Cutter



Soffit Cleat



Metal Rawlplug



Level Clip with Wire



G.I. Cross "T" - 600mm

## Jointing and Finishing

(Square / Taper Edge)



Jointing Compound

### Recommended Materials

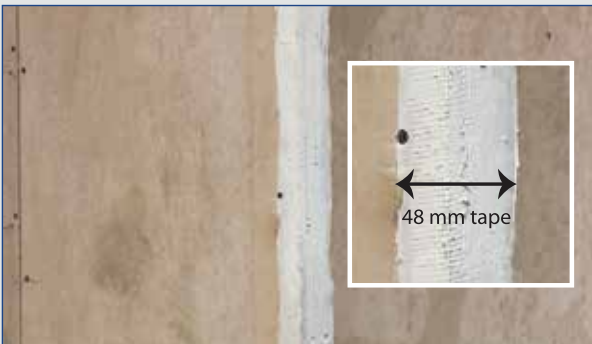
#### Jointing Compound

Knauf USG (all purpose jointing compound)  
or formulated jointing compound



- Apply 1st coat 76 mm wide on the joint area
- Coat 2 - Spread a 100 mm wide layer of jointing compound along the seam
- Coat 3 - Apply the jointing compound 150 mm wide over the second coat

**Note:** Ensure 2-4 hours of curing time for each coat (as per climatic condition)



### Finishing

- Leave it for 24 hours or as per climatic condition to dry and use 120/140 grit sandpaper to smoothen the walls



- Finish all MEP cut out works before start of the jointing and finishing
- Ensure board should be tapered before jointing and finishing (vertical and horizontal)
- Remove the edge tape
- Clean the surface area
- Apply the jointing compound paste mixture initially in the 2 mm gap
- Fix the fibre mesh tape on the joint area and spread evenly on either side of the joint (48 mm wide)



### CORNER JOINTS (Internal and External)

- Fold the fibre mesh tape as 24 mm x 24 mm and fix
- Jointing and finishing to be done over the installed screws
- All cut-outs to be taken before the jointing finishing application
- Fix the masking tape on both sides spread over the board's edges



### Primering

Cement primer to be applied on entire surface area before putty / painting / wall paper or any other decorative application

\*Paint to be applied as per paint manufacturer's recommendation.

## Sealing (Option 2)



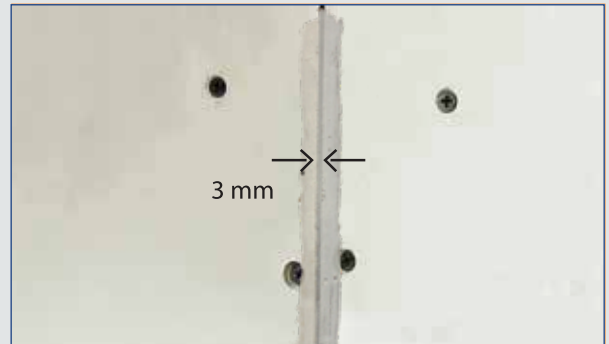
### Sealant

Bostik 2637 or Boss PU sealant



## Jointing and Finishing

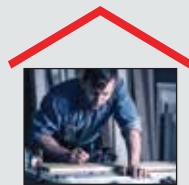
- Fix masking tape on two boards joint area to avoid spreading the sealant material
- Apply sealant 3 mm in between two boards
- Remove the masking tape
- Apply cement based primer and putty on surface
- Do not butt the two Boards
- Do not fix fibre mesh tape in joints area
- Use only paintable sealants



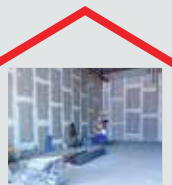
Ramco SmartBuild is an end-to-end Service and Solutions initiative for Dry Construction



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