



# GEMINI TECHNICAL INDUSTRIES

Ceilings & Partition Solutions



# INTRODUCTION

## WHO WE ARE?

GTI is a recognized manufacturer of quality building materials in GCC and specialized in Metal Processing Products & Ceiling Suspension Systems.

Located in KIZAD, Abu Dhabi, U.A.E, the GTI manufacturing facility covers almost 24500 square meters. The facility features state-of-the-art machinery including fast, high-quality roll-forming machines as well as specialized equipment for pressing, bending, and notching. The facility's current annual production capacity is over 30,000 tons of galvanized iron (GI) and 5000 tons of Aluminum.

The modern facility and sizeable warehouse combined with the strategic location, which affords unparalleled access to the UAE and GCC road network and shipping lines, assures our customers of on-time delivery and sufficient supplies.

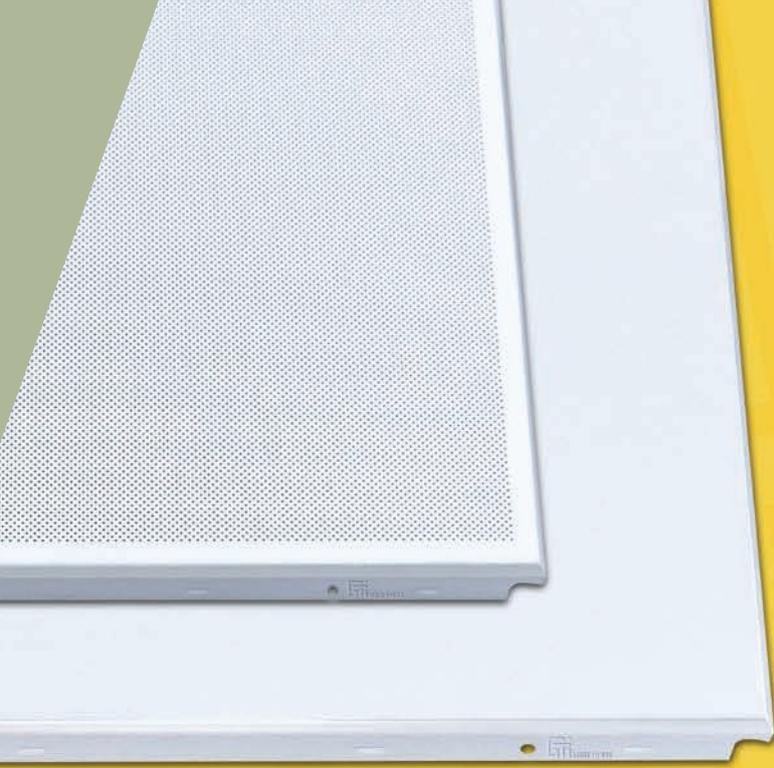
GTI materials for interiors are built to fit above the global standards, with high level of quality, consistency and reliability as expected from a world-class brand at a price suited to your requirements.



GTI is continually looking to expand its portfolio of products and services to meet international demand.

### **Currently, our products include:**

- Aluminum Ceiling Tiles**
- Furring Ceiling systems**
- T-Grid Suspensions**
- Metal profiles - Drywall Systems**
- Ceilings & Partition Accessories**
- Strip Ceiling**
- Open Cell System**
- Steel Channel Lintels**
- Access Panel**



01

CONCEALED / CLIP-IN SYSTEM



# Concealed / Clip-In System

**Highly durable.  
Highly economical.**



A concealed ceiling system is probably the most widely used metal tile ceiling system, and are often suspended from the soffit. It has no visible grid and can integrate lighting, ventilation, and smoke detectors. Various acoustic requirements can also be met.

The ceiling tiles are clipped into a concealed spring tee then are automatically leveled in the grid. The robust grid system can be easily installed and tiles can be removed and replaced for access to services.

Our Concealed Clip-in Ceiling System incorporates many features to provide an economic solution to most ceiling requirements. Comprehensive ranges of the most popular sizes and perforation patterns are held in stock, together with the necessary grid components.

## APPLICATIONS

- Offices
- Classrooms
- Laboratories
- Hospitals
- Airports
- Other commercial installations



## Color Tiles

Many colors and patterns are available in different edge details upon request.

- Concealed / Clip-In Tiles
- Main Suspension
- Installation Method



(GCITB4) (RAL9010/RAL9003)



Cooper Finish (GTICIT-CF)



Silver Lining Finish (GTICIT-SLF)



Gold Mirror Finish (GCIT-GMF)



Gold Texture (GTICIT-GT)



Gold Diamond Finish (GTICIT-GDF)



Light Gold Texture (GTICIT-LGT)



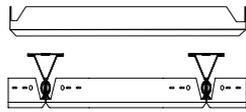
Silver Mirror Finish (GCIT-SMF)

| Description                | Reference/ID | Dimensions              |                          | Thickness | Color   |
|----------------------------|--------------|-------------------------|--------------------------|-----------|---|
|                            |              | A                       | B                        |           |   |
| Plain/Perforated Aluminium | GCIT B4      | 300mm<br>600mm<br>600mm | 600mm<br>600mm<br>1200mm | .6/.7/.8  | RAL-9003 / RAL-9010<br>(Other Colors Available) |
| Spring Tee                 | GTIST        | 3000/4000mm             |                          | 0.45/0.5  |   |
| Aluminium Edge Trim        | GTIET38      | 3000/4000mm             |                          | .6/.7     | RAL-9003 / RAL-9010<br>(Other Colors Available) |
| Main Channel GI 38         | GTIMC38      | 3000/4000mm             |                          | .45 - 1.5 | Galvanized Iron                                 |

### Finish

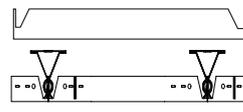
- Surface Finish- Plain | Perforated | Decorative Face Patterns

### Bevelled Type



Edge Details:

### Square Type



Edge Details:

### Raw Material

Aluminum Alloy as per ASTM B - 209 / Zinc plated. Galvanized Steel as per ASTM A653. Stainless Steel ( Brush / Mirror ).

### Finish Coating / Material Standard

The coating on the tiles conform to ECCA standards and performed as per European norms: EN 1396 specifications. Aluminum alloy / temper:3005 / 3105 – H24, as per ASTM B 209 M.

### Fire Classification

Class 1 Surface spread of flame as per BS 476: Part 7: 1997  
Class A Surface spread of flame as per ASTM E84-16

## Clip-In-Suspension System Components

Material : Galvanized Iron as per ASTM A653M/ Aluminum as per ASTM B209M  
Indirect Hung as per ASTM C635M/ASTM C636M



### Tile Carrier Spring Tee (30x35mm)

Concealed Tee Bar grid (Spring tee) 0.45/0.5 mm thickness 4 mtr Length.



### Suspension/Primary Channel

"C" shaped zinc plated galvanized iron (GI) channel for Internal Use and higher thick for External Use.



### Perimeter Channel / Edge Trim (15x38x15mm)

"U" shaped channel fixed on the walls, edging at right angles to the panel. Color and finish to match the panel.



### Carrier Wire Clip

1.6mm thick zinc plated galvanized iron (GI) wire clip.



### L Edge Trim with Locking System

L shaped edge trim fixed to the walls. Color and finish to match the panel.



### Double Adjustment Clip

0.5mm spring steel used for wire hangers.



### W Edge Trim with Locking System

W shaped edge trim fixed to the wall to form a continuous groove . Color and finish to match the panel.



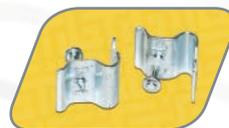
### Hanger Wire

Hanger wire is suspended from the underside of the floor structure to provide a structural support for drop suspended ceilings.



### Wedge Anchor

Wedge anchors are a non-bottom bearing, wedge style expansion anchor for use in solid concrete or grout-filled concrete masonry. The threaded stud version is available upon request.



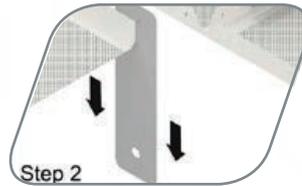
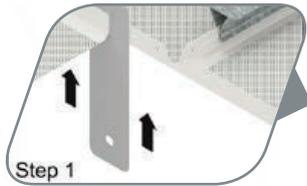
### CEILING CLIP

Quick and easy fastening without drilling. For use with Concrete, Concrete (light) over metal deck, Concrete (hard), and Steel.

## Installation



### How to Access Clip-In Panel



#### Step 1 – Mark the wall

Using the water level or laser method, mark the desired height on the wall.

#### Step 2 – Attach Edge Trim / U-shape or W-shape

Using screws and nails, fix the Edge Trim on the walls at the marked height.

#### Step 3 – Complete the grid

Mark the required distance intervals then proceed to fix the suspension system using the main channel maximum spaced @ 1200mm O.C and spring Tee spaced @ 600mm O.C, connected with wire clips or screwed, according to the approved layout.

#### Step 4 – Attach the hanging support

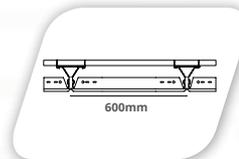
Fixing Hanging wires 3mm/4mm with adjustable clip and channel bracket or channel support from soffit of slab with Ceiling Clip and Cartridge or wedge anchor, connected directly to the main channel.

#### Step 5 – Install the tiles

Clip-in the 600mm x 600mm tiles in the correct pattern.

#### Step 6 – Cut the tiles (if necessary)

Cut apertures for lights and other services where required.



## Features



ACOUSTIC PROPERTY



CLEANABILITY



ANTI - MICROBIAL



GREEN BUILDING MATERIAL



CORROSION RESISTANCE



FIRE CLASSIFICATION



HUMIDITY RESISTANCE



EIGHT REFLECTANCE





02

EXPOSED CEILING SYSTEM

## Lay-in Ceiling Tiles



### GTI Ceiling Solutions Exposed Ceiling Systems

The GTI Exposed Ceiling Suspension System is a structural suspension system for Lay – In Ceiling Panels. It consists of 24mm/15mm Main Channel and cross tees that combine superior load carrying capacity, exceptional stability and design flexibility. The GTI Exposed Ceiling System save time and money as its offers an easy approach to installations and with the special stitch design in GTI Tees that give more strength for the system and rigidity.

Manufactured from steel and aluminium, the tiles can either be plain or perforated and are commonly painted, pre-coated and powder coated. If perforated, the holes can be in a straight or diagonal pattern with different designs.

### APPLICATIONS

- Offices
- Classrooms
- Laboratories
- Hospitals
- Airports
- Other commercial installations



“Plain, Perforated, and others are available”

| Reference | Dimensions |        | Thickness | Color               | Qty / Box |
|-----------|------------|--------|-----------|---------------------|-----------|
|           | A          | B      |           |                     |           |
| GTILICT   | 300mm      | 600mm  | .6/.7/.8  | RAL-9003/ RAL- 9010 | 28        |
| GTILICT   | 300mm      | 1200mm | .6/.7/.8  | RAL-9003/ RAL- 9010 | 28        |
| GTILICT   | 600mm      | 600mm  | .6/.7/.8  | RAL-9003/ RAL- 9010 | 28        |
| GTILICT   | 600mm      | 1200mm | .6/.7/.8  | RAL-9003/ RAL- 9010 | 28        |

#### Raw Material

Aluminum Alloy as per  
ASTM B - 209M / Zinc  
plated.  
Galvanized Steel as  
per  
ASTM A653M  
Stainless Steel ( Brush /  
Mirror ).

#### Finish Coating / Material Standard

The coating on the tiles conform to ECCA standards and performed as per European norms : EN 1396 Specifications. Aluminium alloy / temper:3005 / 3105 – H24 as per ASTM B 209 M.

#### Fire Classification

Class 1 Surface spread of flame as per BS 476: Part 7: 1997  
Class A Surface spread of flame as per ASTM E84-16

Note: Lay-In Tile on T15 and T24 available.

## Lay-In-Suspension System Components

The Suspension T-Grid with a capping face used for 600mm x 600mm aluminium, steel, vinyl or mineral fibre tiles.



**Cross Tee**



**Main Tee**



**L-Angle**



**W-Angle**

These consist of galvanized steel with pre-painted polyester coating aluminium or PPGI capping.  
RAL 9003 / 9010

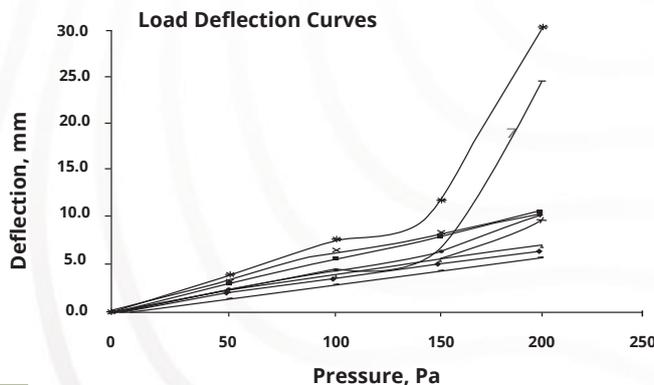
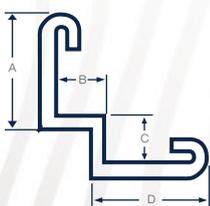
These consist of galvanized steel with pre-painted polyester coating aluminium or PPGI capping.  
RAL 9003 / 9010

These L-shaped suspensions have galvanized steel pre-painted polyester coating with the same color finishing as the tiles.  
RAL 9003 / 9010

Galvanized Steel Pre-painted Polyester Coating W-Angle (Plain), same color finishing as the tiles.  
RAL 9003 / 9010

| Description             | Reference/ID | Dimensions               | Thickness | Length | Color               |
|-------------------------|--------------|--------------------------|-----------|--------|---------------------|
| <b>Cross Tee</b>        | GTICT 60     | H - 25mm W - 24mm        |           | 600mm  | RAL-9003/ RAL- 9010 |
|                         | GTICT120     | H - 25mm W - 24mm        |           | 1200mm | RAL-9003/ RAL- 9010 |
|                         | GTICT 60     | H - 32mm W - 15mm (T-15) |           | 600mm  | RAL-9003/ RAL- 9010 |
|                         | GTICT120     | H - 32mm W - 15mm (T-15) |           | 1200mm | RAL-9003/ RAL- 9010 |
| <b>Main Tee</b>         | GTIMT360     | H - 32mm W - 15/24mm     |           | 3600mm | RAL-9003/ RAL- 9010 |
|                         | GTIMT360     | H - 38mm W - 24mm        |           | 3600mm | RAL-9003/ RAL- 9010 |
| <b>L-Angle</b>          | GTIPPGA15    | H - 19mm W - 15mm (T-15) | 0.45      |        |                     |
|                         | GTIPPGA20    | H - 20mm W - 20mm        | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTIPPGA25    | H - 25mm W - 25mm        | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTITA25      | H - 25mm W - 25mm        | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
| <b>W-Angle</b>          | GTIWA10      | A 19 B 9 C 9 D 19        | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTIWA15      | A 19 B 15 C 15 D 19      | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTIWA20      | A 20 B 19 C 19 D 20      | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
| <b>W-Angle with Tab</b> | GTIWA10T     | A 19 B 9 C 9 D 19        | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTIWA15T     | A 19 B 15 C 15 D 19      | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |
|                         | GTIWA20T     | A 20 B 19 C 19 D 20      | 0.45      | 3000mm | RAL-9003/ RAL- 9010 |

**W-Angle**  
Color: RAL 9003 / 9010



### ACCESSORIES



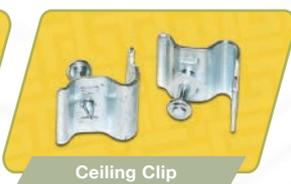
**Wedge Anchor**



**Adjustable Spring Clip**

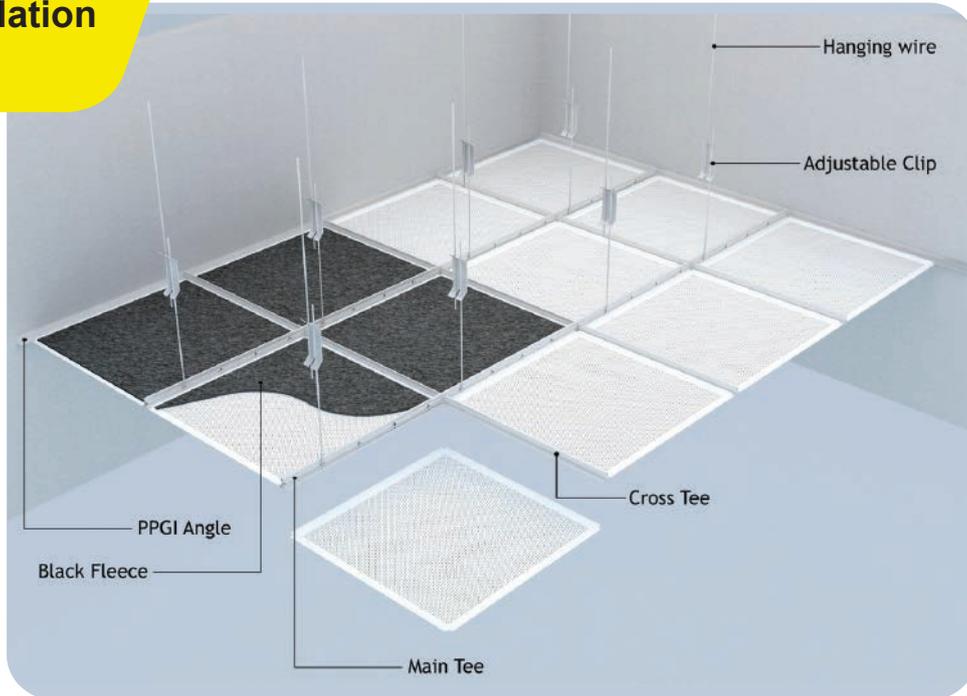


**Hanger Wire**



**Ceiling Clip**

## Installation



### Step 1 – Mark the wall

Using the water level or laser method, mark the desired height on the wall.

### Step 2 – Attach the L-Angle / L or W shape

Using screws and nails, fix the L-Angle on the walls at the marked height.

### Step 3 – Complete the grid

Mark the required distance intervals then proceed to fix the suspension system using the Main and Cross Tee according to the approved layout.

### Step 4 – Attach the wires

Fix the suspension system with 3mm or 4mm wires using ceiling clips and cartridges or wedge anchor.

### Step 5 – Install the tiles

Lay in the 595mm x 595mm tiles in the correct pattern.

### Step 6 – Cut the tiles (if necessary)

Cut apertures for lights and other services where required.

## Features



ACOUSTIC PROPERTY



CLEANABILITY



ANTI - MICROBIAL



GREEN BUILDING MATERIAL



CORROSION RESISTANCE



FIRE CLASSIFICATION



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EIGHT REFLECTANCE





03

T-GRID SUSPENSION

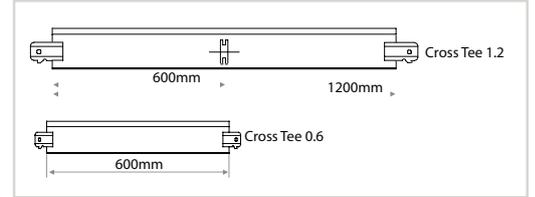
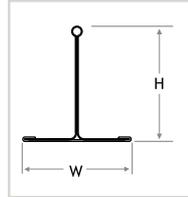
## TEE 15/24 - Grid Main Suspension



**Cross Tee**

These consist of galvanized iron (GI) with pre-painted polyester coating aluminum or PPGI capping.

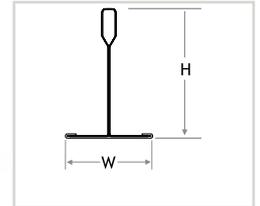
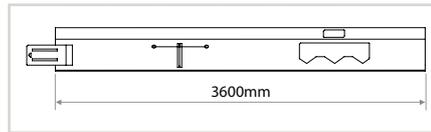
| Reference | Dimensions    | Length | Material                           | Piece / Box |
|-----------|---------------|--------|------------------------------------|-------------|
| GTICT 60  | H 25mm        | 600mm  | Pre Painted Galvanized Iron (PPGI) | 75          |
|           | W 24mm        |        |                                    |             |
| GTICT 120 | H 32mm        | 1200mm | Pre Painted Galvanized Iron (PPGI) | 50          |
|           | W 15mm (T-15) |        |                                    |             |



**Main Tee**

These consist of galvanized iron (GI) with pre-painted polyester coating aluminum or PPGI capping.

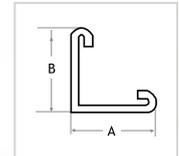
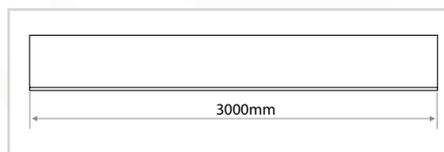
| Reference | Dimensions | Length | Material                           | Piece / Box |
|-----------|------------|--------|------------------------------------|-------------|
| GTIMT 360 | H 32       | 3600mm | Pre Painted Galvanized Iron (PPGI) | 25          |
| GTIMT 360 | W 15/24mm  | 3600mm | Pre Painted Galvanized Iron (PPGI) | 25          |



**L-Angle**

These L-shaped suspensions have galvanized steel pre-painted polyester coating with the same color finishing as the tiles.

| Reference      | Dimensions | Length | Material                           | Piece / Box |
|----------------|------------|--------|------------------------------------|-------------|
| GTILA15 (T-15) | H 19       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |
| GTILA20        | W 15       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |
| GTILA25        | H 20       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |
|                | W 20       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |
|                | H 25       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |
|                | W 25       | 3000mm | Pre Painted Galvanized Iron (PPGI) | 25          |



### APPLICATIONS

Offices  
Classrooms  
Laboratories  
Hospitals  
Airports & Other Commercial Installations



### Product Specifications

1. Material: Galvanized Iron (GI) According to BS EN 10346: 2009 ( Formerly BS EN 10142: 1991 ) Coating to ASTM A653 / A653M.
2. Manufacture as per ASTM C635 / ASTM C635M. Direct Hung as per ASTM C636/C636M
3. Cap - Pre Painted RAL 9003 or RAL 9010.

# T-Grid Suspension

## Applied With



**Aluminum  
Ceiling Tiles**



**Gypsum Tiles**



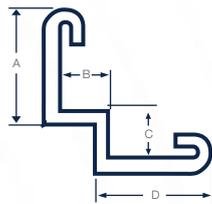
**Minerals  
Fibre Tiles**

## Edge Trim



**W - Angle (Plain)**

| Reference | Dimensions |    |    |    | Length | Material                              | Piece / Box |
|-----------|------------|----|----|----|--------|---------------------------------------|-------------|
|           | A          | B  | C  | D  |        |                                       |             |
| GTIWA10   | 19         | 9  | 9  | 19 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |
| GTIWA15   | 19         | 15 | 15 | 19 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |
| GTIWA20   | 20         | 19 | 19 | 20 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |

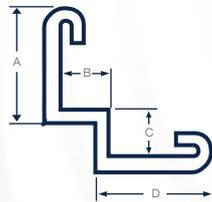


Plain Color:  
RAL 9003 / 9010



**W - Angle with Tab**

| Reference | Dimensions |    |    |    | Length | Material                              | Piece / Box |
|-----------|------------|----|----|----|--------|---------------------------------------|-------------|
|           | A          | B  | C  | D  |        |                                       |             |
| GTIWA10T  | 19         | 9  | 9  | 19 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |
| GTIWA15T  | 19         | 15 | 15 | 19 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |
| GTIWA20T  | 20         | 19 | 19 | 20 | 3000mm | Pre Painted<br>Galvanized Iron (PPGI) | 50          |



W-Angle with Tab  
Color: RAL 9003 / 9010

## ACCESSORIES



Wedge Anchor



Adjustable Spring Clip



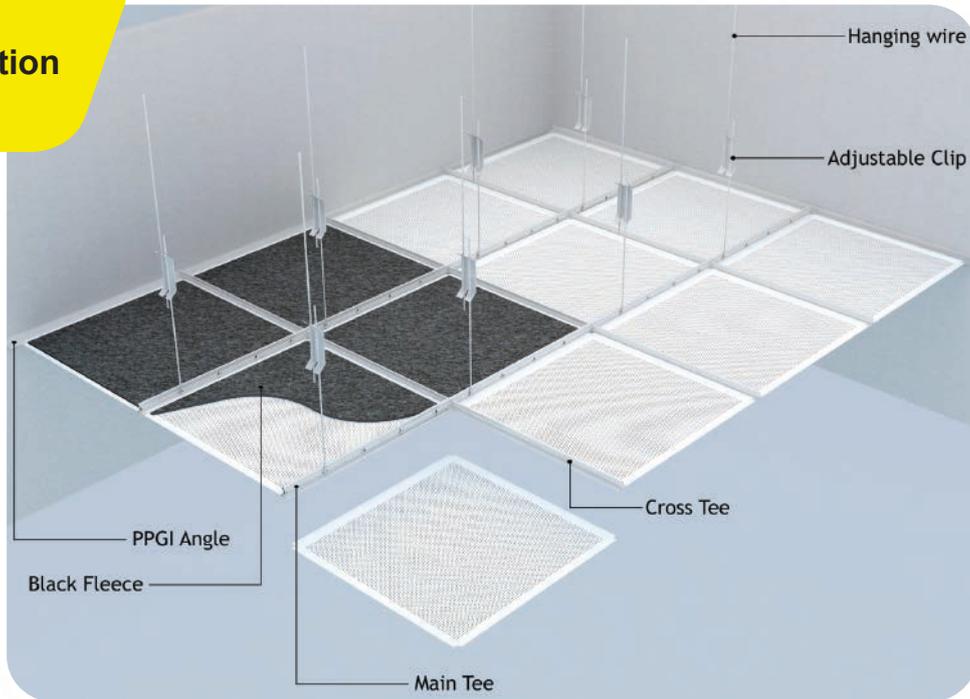
Hanger Wire



Ceiling Clip

**Note: T-15mm Grid System available upon request.**

## Installation



### Step 1 – Mark the wall

Using a water level or laser method, mark the desired ceiling level on the walls.

### Step 2 – Attach the L-Angle

Using screws and nails, fix the L-Angle on the walls at the marked height.

### Step 3 – Complete the grid

Mark the required distance intervals proceed to fix the suspension system using the Main and Cross Tee according the approved layout.

### Step 4 – Attach the wires

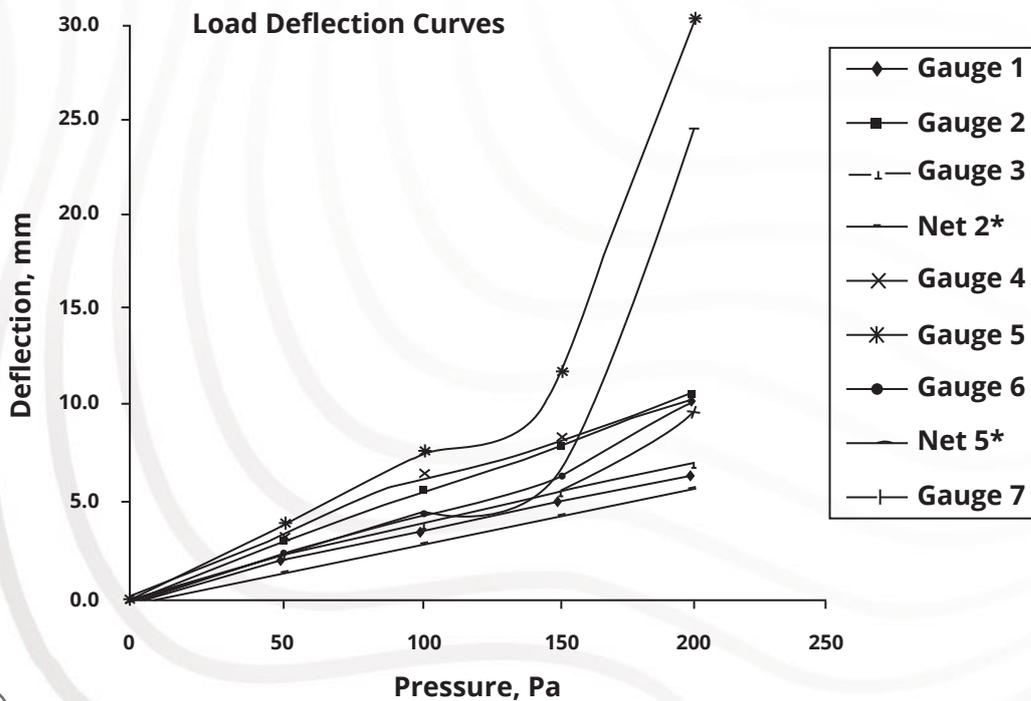
Fix the suspension system with 3mm or 4mm wires using ceiling clips and cartridges.

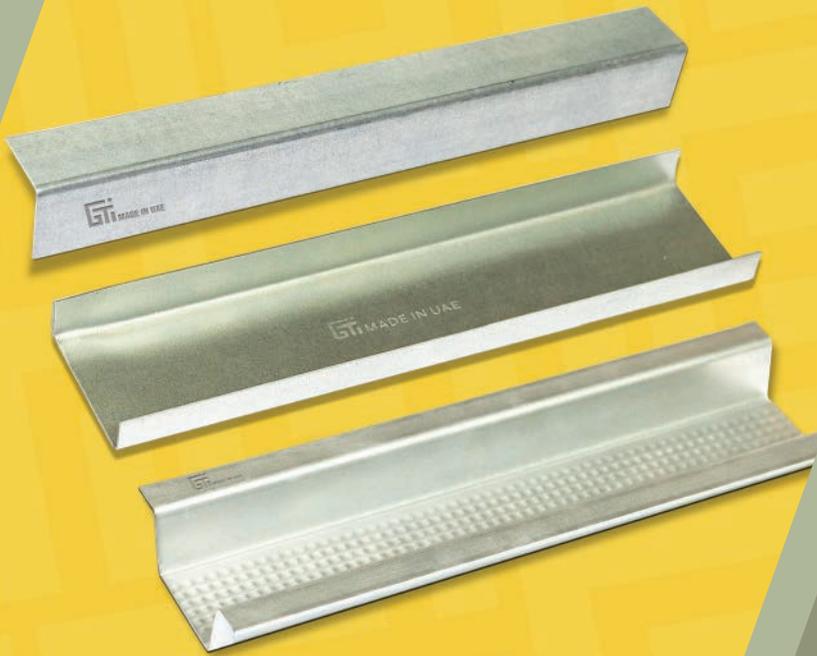
### Step 5 – Install the tiles

Lay in the 595mm x 595mm tiles in the correct pattern.

### Step 6 – Cut the tiles (if necessary)

Cut apertures for lights and other services where required.





04

FURRING CEILING SYSTEM

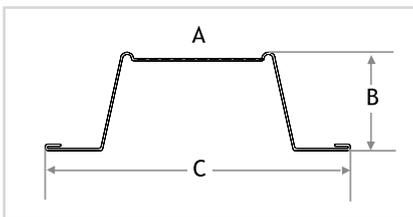
## Furring Channel System

The GTI Furring Channel System is a concealed ceiling system that suspends a hat shaped grid of furring channel in conjunction with a primary support (main channel) and wall trim components onto which plaster board is directly fixed. This allows for a smooth surface that can be kept plain or decorated. Lighting, access panels and ventilation can also be accommodated easily.



Furring Channel

| Reference | Dimensions | Thickness | Length | Material             |
|-----------|------------|-----------|--------|----------------------|
|           | A B C      |           |        |                      |
| GTIFC35   | 35 22 68   | 0.45-0.9  | 3000mm | Galvanized Iron (GI) |
| GTIFC50   | 50 22 83   | 0.45-0.9  | 3000mm | Galvanized Iron (GI) |

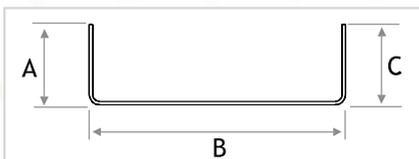


- Galvanized Iron (GI): BS EN 10346:2009 (formerly BS EN 10142:1991).
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005 ASTM C645 / C645 M.
- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.



Main Channel

| Reference | Dimensions | Thickness | Length | Material             |
|-----------|------------|-----------|--------|----------------------|
|           | A B C      |           |        |                      |
| GTIMC38   | 12 38 12   | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIMC45   | 15 45 15   | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |

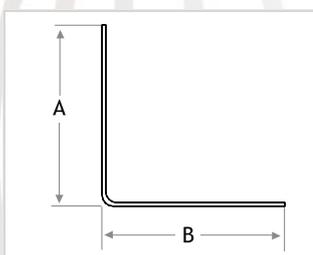


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- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.



GI Angle

| Reference | Dimensions | Thickness | Length | Material             |
|-----------|------------|-----------|--------|----------------------|
|           | A B        |           |        |                      |
| GTIA20    | 20 20      | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIA25    | 25 25      | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIA30    | 30 30      | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |



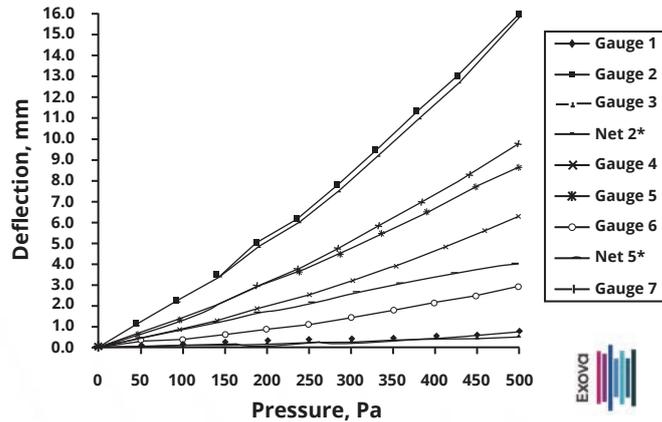
- Galvanized Iron (GI): BS EN 10346:2009 (formerly BS EN 10142:1991).
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005 ASTM C645 / C645 M.
- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.

**NOTE:**  
Folded Angle can be produced upon request.  
Available size: 20x20 / 25x25.  
All dimensions in mm

## ACCESSORIES



Positive Load Deflection Curves

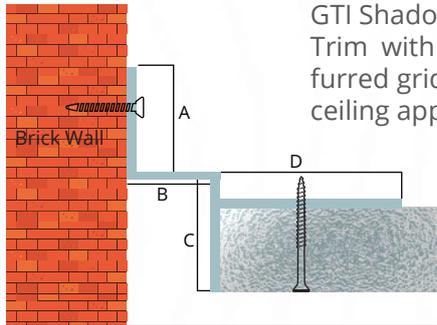


## Edge Trim F- Profile

## SHADOW GAP EDGE TRIM PPGI F PROFILE



F - Profile (PPGI)



GTI Shadow Gap Edge Trim is suitable for the usage as an Edge Trim with a gap size of 20x20mm in conjunctions with the furred grid system directly fixed to the gypsum board 12.5 mm ceiling application.

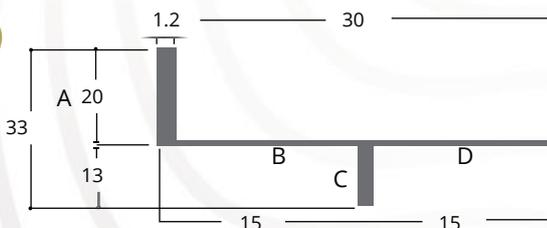
| Reference | Dimensions             | Thickness | Length | Material                           |
|-----------|------------------------|-----------|--------|------------------------------------|
| GTISGET   | A B C D<br>20 20 20 20 | 0.45/0.55 | 3000mm | Pre Painted Galvanized Iron (PPGI) |

- Galvanized Iron(GI) BS EN 1034:2009 to ASTM A653/A653M.
- Coating Type: Polyester Pre-Painted Coating with Surface color RAL 9003/RAL 9010.

## SHADOW GAP EDGE TRIM ALUMINUM F PROFILE



Aluminum F - Profile

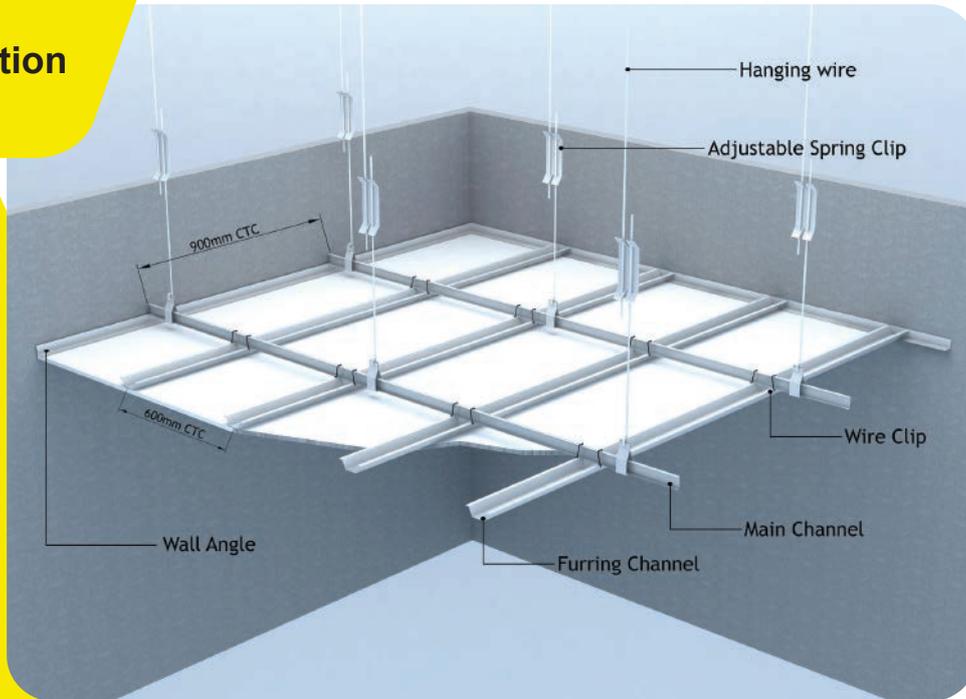


- Material : Extruded Aluminum Profiles, Alloy : 6063, Temper T 6
  - Ultimate Tensile Strength (Mpa) :215 (min)
  - 0.2 % Yield Strength (Mpa) :170 (min)
  - Elongation % :06 (min)
- Standards : Comply to British Standards
  - BS EN 573 - 3 - 2013 Part 3
  - BS EN 755 - 2 - 2013 Part 2

| Reference | Dimensions    | Thickness | Length | Material                |
|-----------|---------------|-----------|--------|-------------------------|
| GTISGET   | 20 15 13 15   | 1.2mm     | 3000mm | Aluminium Powder Coated |
| GTISGET   | 20 20 13 20   | 1mm       | 3000mm |                         |
| GTISGET   | 20 20 15.5 20 | 1mm       | 3000mm |                         |

Note: All dimensions are in mm

## Installation



### Step 1 – Mark the ceiling height

Using a water level or laser method, mark the desired ceiling level on the walls.

### Step 2 – Fix the GI Angle

Place the Angle at the marked height.

### Step 3 – Fix the grid

Create a grid using the Furring Channels maximum spaced at 600mm O.C and Main Channels maximum spaced @1200mm O.C not more than 200mm distance of furring channel from the walls and not more than 400mm distance of Main Channel from the wall. Attach hanging wire and adjustable clips maximum Spaced at 1200mm O.C on both directions to the concrete soffit using ceiling clips and cartridges, or using rigid support as main channel or L-Angle to form a rigid suspension.

### Step 4 – Connect the Main and Furring Channels

Connect the Main Channel with the Furring Channel using the wire clip.

### Step 5 – Adjust

Make the required adjustments to the Main and Furring Channels to accommodate MEP, lighting, diffusers, etc.

### Step 6 – Fix the plasterboard to the Furring

Screw the 12.5mm thick plasterboard to the Furring Channels using drywall screws

### Step 7 – Fill the gaps

Using joint compound, fill the gaps in the plasterboard.

### Step 8 – Finish the joints

Fix joint fiber tape and finish with a joint compound to ready the ceiling for decoration.

### Step 9 – Cut apertures if necessary

Cut apertures for lights and plenum boxes, HVAC balancing and re-fix.

### Step 10 – Construct archway

Construct archway structure in angle system to required profile.



05

DRY WALL PARTITIONING SYSTEM

## GTI Wall Solutions

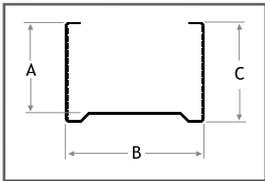
The GTI Drywall Partitioning System is a range of vertical metal studs combined with ceiling and floor tracks that form a frame onto which drywall or plasterboards can be placed. This stud and track system is available in several widths, and have been tested to meet fire, acoustic and structural standards. A particular feature of the studs is their knurled flange surface, which allows for easier and faster screwing of drywalls using drywall screws. This allows the contractor to complete drywalls with the minimum amount of effort.



Stud

| Reference | Dimensions      | Thickness | Length | Material             |
|-----------|-----------------|-----------|--------|----------------------|
|           | A B C           |           |        |                      |
| GTIS 40   | 34 40 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 50   | 34 50 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 60   | 34 60 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 63   | 34 63 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 70   | 34 70 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 73   | 34 73 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 75   | 48 75 50        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 90   | 34 90 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 98   | 34 98 36        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 100  | 48 100 50       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 123  | 34/48 123 36/50 | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 148  | 34 148 36       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIS 150  | 48 150 50       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |

Other sizes of Length, Depth & Flange can be made upon request.  
Depth 100mm upto 300mm, Thickness 1mm upto 3mm, Flange maximum 60mm.



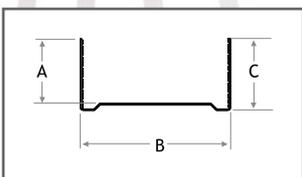
- Material Standard: Galvanized Iron-BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005  
ASTM C645 / C645 M.
- Length can be made up to 13 Meters.
- Flange height can be made upto 50mm.



Track

| Reference | Dimensions      | Thickness | Length | Material             |
|-----------|-----------------|-----------|--------|----------------------|
|           | A B C           |           |        |                      |
| GTIT42    | 25 42 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT52    | 25 52 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT62    | 25 62 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT65    | 25 65 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT72    | 25 72 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT75    | 25 75 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT77    | 38 77 40        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT92    | 25 92 25        | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT100   | 25 100 25       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT102   | 38 102 40       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT125   | 25/38 125 25/40 | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT150   | 25 150 25       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |
| GTIT152   | 38 152 40       | 0.45-1.5  | 3000mm | Galvanized Iron (GI) |

Other sizes of Length, Depth & Flange can be made up on request.  
Depth 100mm upto 300mm, Thickness 1mm upto 3mm, Flange maximum 70mm.

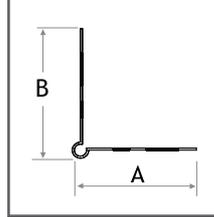


- Material Standard: Galvanized Iron-BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.
- Manufacturing Standard, : BS EN 10162 : 2003 / BS EN 14195 : 2005  
ASTM C645 / CA645 M.
- Flange height can be made upto 50mm.



| Reference | Dimensions | Thickness | Length | Material |
|-----------|------------|-----------|--------|----------|
|-----------|------------|-----------|--------|----------|

|          | A  | B  |      |                                  |
|----------|----|----|------|----------------------------------|
| GTIDAB30 | 30 | 30 | 0.45 | 2400/3000mm Galvanized Iron (GI) |

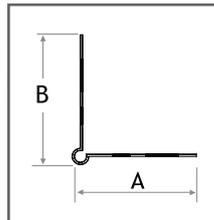


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



| Reference | Dimensions | Thickness | Length | Material |
|-----------|------------|-----------|--------|----------|
|-----------|------------|-----------|--------|----------|

|           | A  | B  |      |                                 |
|-----------|----|----|------|---------------------------------|
| GTIDABP30 | 30 | 30 | 0.45 | 400/3000mm Galvanized Iron (GI) |

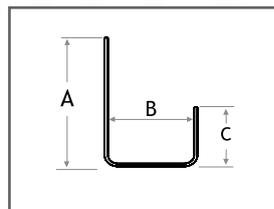


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



| Reference | Dimensions | Thickness | Length | Material |
|-----------|------------|-----------|--------|----------|
|-----------|------------|-----------|--------|----------|

|          | A  | B  | C |      |                             |
|----------|----|----|---|------|-----------------------------|
| GTIDEB13 | 24 | 13 | 9 | 0.45 | 3000mm Galvanized Iron (GI) |
| GTIDEB15 | 24 | 15 | 9 | 0.45 | 3000mm Galvanized Iron (GI) |

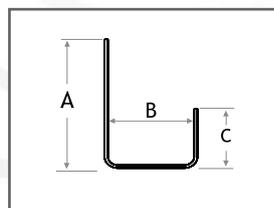


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



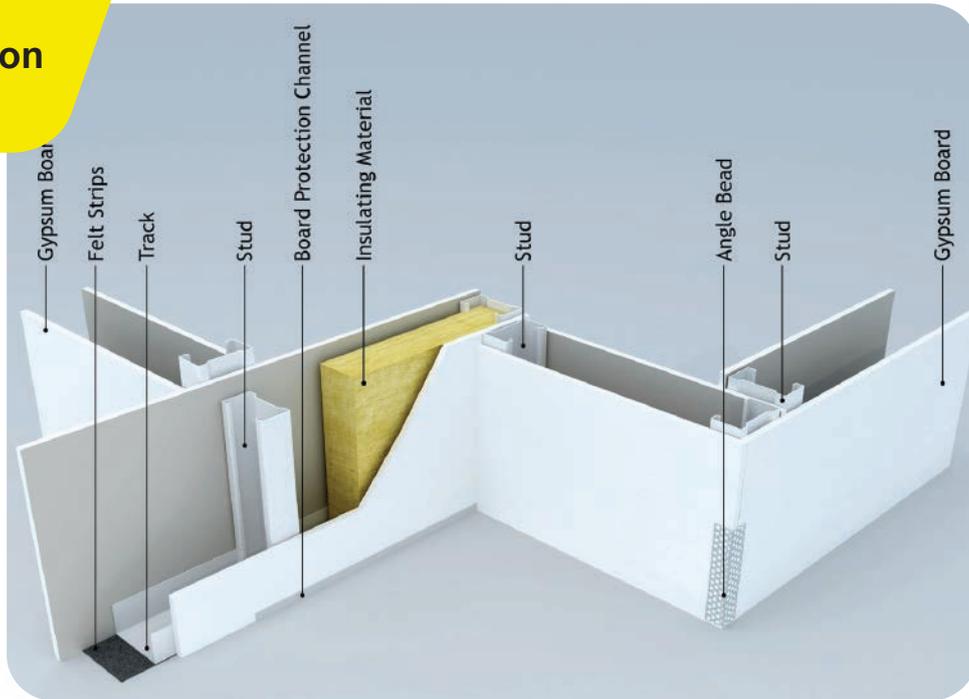
| Reference | Dimensions | Thickness | Length | Material |
|-----------|------------|-----------|--------|----------|
|-----------|------------|-----------|--------|----------|

|           | A  | B  | C |      |                             |
|-----------|----|----|---|------|-----------------------------|
| GTIDEBP13 | 24 | 13 | 9 | 0.45 | 3000mm Galvanized Iron (GI) |
| GTIDEBP15 | 24 | 15 | 9 | 0.45 | 3000mm Galvanized Iron (GI) |



- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.

## Installation



### Step 1 – Install tracks

Install the tracks on the floors, ceilings and columns where the drywall will be adjoined.

### Step 2 – Adjust height

Extend partition framing to its full height to structural supports or substrates above suspended ceilings, except in places where partitions should terminate at or just above suspended ceilings. Frame over doors and openings and frame around the ducts that will penetrate the partitions above ceiling to provide support.

For fire-resistance rated partitions, extend height so that the partition continuous from the floor to the underside of the structure above. Install bridging if required.

### Step 3 – Brace frames

For partition frames that do not extend to the structure above, brace it with studs of the same size and thickness.

Provide bracing at:

- 150.0mm on center intervals along the length of the partitions.
- Not less than 150.0mm on center from partition ends and corners.
- Door and window openings.

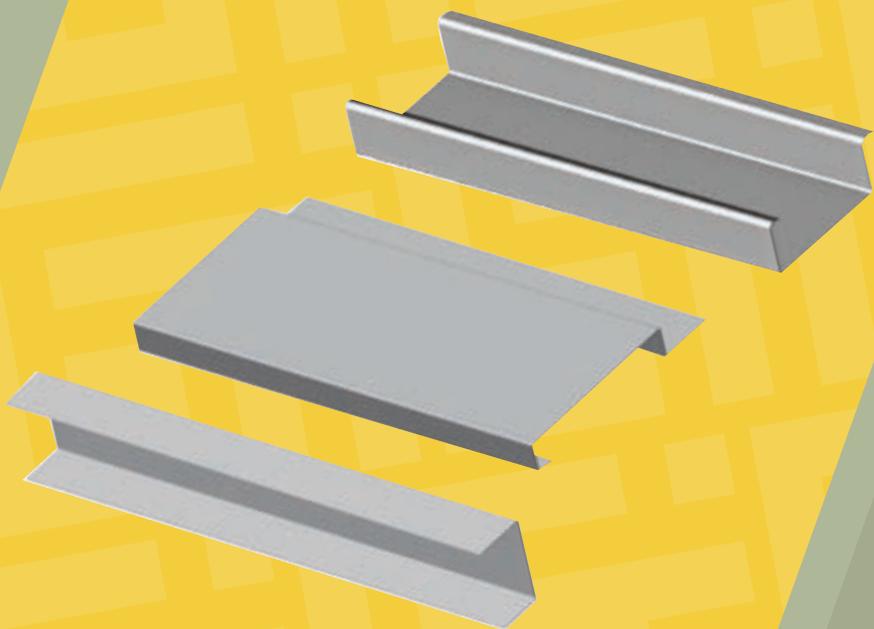
### Step 4 - Install studs

Install steel studs in the size and spacing indicated:

- Single-Layer Construction: Maximum space studs 600.0mm on center (unless otherwise indicated).
- Multiple-Layer Construction: Maximum space studs 600.0mm on center (unless otherwise indicated).

### Step 5 – Install Drywall

1. Install appropriate type of boards.
2. Make sure boards have the correct side facing outward.
3. Use the maximum practical board size to minimize joints.
4. Ensure board surfaces are aligned accurately.
5. Use self-drilling power screws to fix boards to studs and tracks.
6. Start fixing the boards from center working towards the edges and corners.
7. Provide angle beads at external corners and push boards fully and corners.
8. Use continuous lengths of jointing tape set on jointing compound to fill gaps between boards and cover joints.
9. To have a smooth surface, apply additional compound to board concealed joints, the heads of fixings and imperfections in the face.
10. Finish by using primer or sealer on the surface.



06

CEILING STRIP SYSTEMS

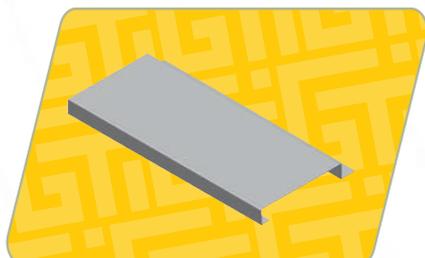
## System Description

Linear Strip Ceiling Systems are suitable for both interior and exterior applications. Additionally, panels can be plain and perforated with acoustic backing added to transform in to acoustic ceiling panels. Ceiling strip consists of strip panels with square edge in Butt or Gap joints in modular recess. Self Supporting Strip consists of strip panels with square edge in Butt joints in modular recess. Linear Strip System give decorative style and modernity with square edge.

## Ceiling Strip Systems

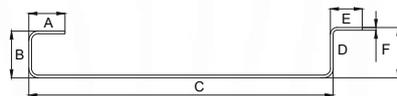
- Ceiling Strip with Butt Joint
- Ceiling Strip with Gap Joint
- Ceiling Strip Main Carrier
- Ceiling Strip Edge Trim

### Type A. Ceiling Strip with Butt Joint



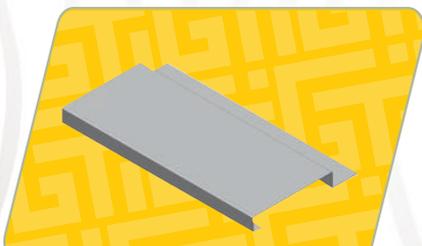
Ceiling Strip with Butt Joint  
(Plain / Perforated)

| Reference | Dimensions |    |     |      |      | Thickness   | Length |
|-----------|------------|----|-----|------|------|-------------|--------|
|           | A          | B  | C   | D    | E    |             |        |
| GTISC100  | 11.6       | 15 | 100 | 15.6 | 10.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC200  | 11.6       | 15 | 200 | 15.6 | 10.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC300  | 11.6       | 15 | 300 | 15.6 | 10.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC400  | 11.6       | 15 | 400 | 15.6 | 10.6 | 0.6/0.7/0.8 | 3000mm |



Polyester coating conform to ECCA Standards and performed as per EN Norms 1396 / EURO NORM EN 485-4:1993  
Powder coating as per EN Norms EN 12206-1  
Special sizes are available upon request.  
Note: All dimensions are in mm.

### Type B. Ceiling Strip with Gap Joint



Ceiling Strip Cage Joint  
(Plain / Perforated)

| Reference  | Dimensions |    |       |      |      | Thickness   | Length |
|------------|------------|----|-------|------|------|-------------|--------|
|            | A          | B  | C     | D    | E    |             |        |
| GTISC82.5  | 11.6       | 15 | 82.5  | 15.6 | 26.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC182.5 | 11.6       | 15 | 182.5 | 15.6 | 26.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC282.5 | 11.6       | 15 | 282.5 | 15.6 | 26.6 | 0.6/0.7/0.8 | 3000mm |
| GTISC382.5 | 11.6       | 15 | 382.5 | 15.6 | 26.6 | 0.6/0.7/0.8 | 3000mm |



Polyester coating conform to ECCA Standards and performed as per EN Norms 1396 / EURO NORM EN 485-4:1993  
Powder coating as per EN Norms EN 12206-1  
Special sizes are available upon request.  
Note: All dimensions are in mm.

## Ceiling Strip Carrier



Ceiling Strip Carrier

| Reference | Length      |
|-----------|-------------|
| GTICSC    | 3000/4000mm |

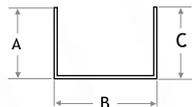
Material: Galvanized finish comply with ASTM A653M Standards  
Special sizes are available upon request.  
Custom length sizes are available upon request.  
Standard length of 3000mm to 4000mm According to SAE/AISI or BS EN 42J  
Indirect hung comply with ASTM C635M  
Note: All dimensions are in mm.

## Aluminium Edge Trim



Aluminium Edge Trim

| Reference | Dimensions |         |         | Thickness   | Length |
|-----------|------------|---------|---------|-------------|--------|
| GTIET     | A<br>20    | B<br>20 | C<br>20 | 0.6/0.7/0.8 | 3000mm |



Polyester Coating Aluminium Edge Trim (U-Shape), same color finishing as the Strip Ceiling  
Aluminium Alloy / temper: 3005-3105/H24  
Standard ASTM B209-M EURO NORMS: EN 1396  
Custom Lengths are available upon request.  
Note: All dimensions are in mm.

## Self Supporting Ceiling Strip



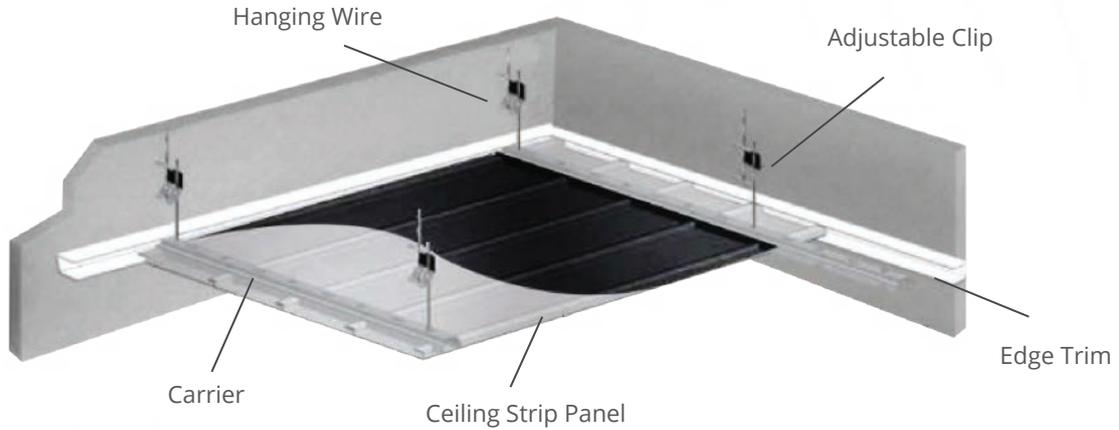
Self Supporting Ceiling Strip

| Reference | Dimensions |    |     |      |      |     | Thickness   | Length |
|-----------|------------|----|-----|------|------|-----|-------------|--------|
|           | A          | B  | C   | D    | E    | F   |             |        |
| GTISSC100 | 8.7        | 35 | 100 | 35.6 | 14.1 | 8.2 | 0.6/0.7/0.8 | 3000mm |
| GTISSC200 | 8.7        | 35 | 200 | 35.6 | 14.1 | 8.2 | 0.6/0.7/0.8 | 3000mm |
| GTISSC300 | 8.7        | 35 | 300 | 35.6 | 14.1 | 8.2 | 0.6/0.7/0.8 | 3000mm |
| GTISSC400 | 8.7        | 35 | 400 | 35.6 | 14.1 | 8.2 | 0.6/0.7/0.8 | 3000mm |

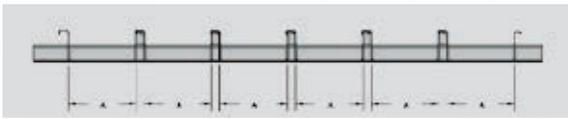


Polyester coating conform to ECCA Standards and performed as per EN Norms 1396 / EURO NORM EN 485-4:1993  
Powder coating as per EN Norms EN 12206-1  
Special sizes are available upon request.  
Note: All dimensions are in mm.

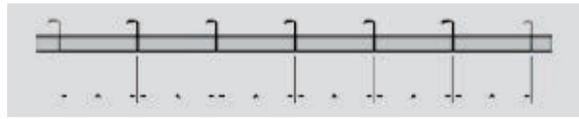
## Ceiling Strip System - Installation Method



### Self Supporting with Gap Joint

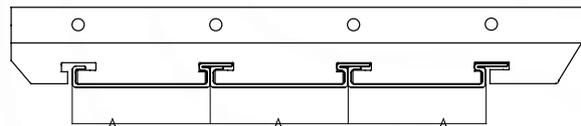


### Self Supporting with Butt Joint



The strip panel will be installed on a galvanized carrier every 1200-1000mm and can be dismantled separately. The carrier is supported with wire rod 3mm to the ceiling having an adjustable clip. On the wall an edge cover U shaped (Aluminium Edge Trim 20 x 20 x 20mm) same color of strip panel.

### Ceiling Strip



#### Required suspension:

- Carrier
- Edge cover/Aluminium Edge Trim
- Wire rod 3mm /C channel
- Adjustment clips /Anchor

The Strip Ceiling system should be installed as follows:

1. Level marking on wall using water level or laser method.
2. Fixing On the wall an edge cover U shaped (Aluminium Edge Trim 20 x 20 x 20mm) same color of strip panel with screws and nails
3. Fixing of Hanging wires 3mm / 4mm, or channel support either threaded rod from soffit of slab with Ceiling Clip and Cartridge or screws or DBZ Anchor.
4. Using of Adjustable Spring Clips for Ceiling Adjustment or Channel Clamp in case of threaded rod use.
5. Installation of Main Carrier at every 1000mm or 1200mm.
6. Fixing of Strip Ceiling in proper way taking into consideration the ceiling level and Strip form (with Groove or without) and the width of the strip.
7. Cut apertures for lights and other services where required. Cut trim for access opening for equipments, if required.



07

OPEN CELL SYSTEM

## Open Cell Systems

An Open Cell System of 600x600 and 600x1200 are manufactured from Aluminum U profiles to create an integrated system. Panels are built with upper and lower blades which is easy to dismantle for easy access to ceilings. We offer a wide range of sizes, colors and finishes. Open Cell Ceiling systems features an integrated suspension system with main and cross runners made from the same profiles as the cell ceiling panels. Open cell module 600x600mm can be fixed on T-Grid Suspension System.

## Characteristics

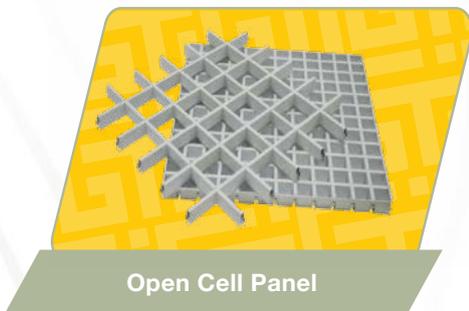
**Profile dimensions: 10mm width  
50mm height**

Square and rectangular modules available.

Panels in standard sizes 600 x 600mm and 600 x 1200mm are lightweight yet strong and produced from 100% recyclable 0.4/0.5/0.6 mm aluminum thickness

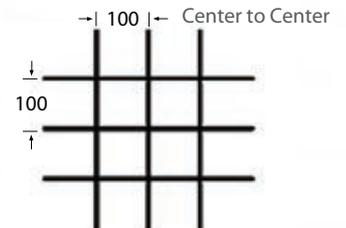
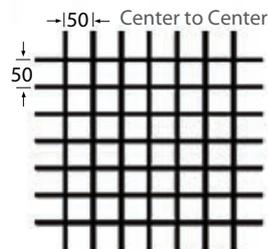
## Coating

Polyester Coating: 5  $\mu$  (back) + 20  $\mu$  (face)



Material Used: Aluminium

Note: All dimensions are in mm.



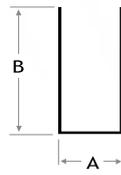
| Description   | Reference/ ID | Dimension          | Thickenss | Cell Size | Height | Width |
|---------------|---------------|--------------------|-----------|-----------|--------|-------|
| Open Cell 50  | GTIOC 50-10   | 600x600 / 600x1200 | 0.4-0.6   | 50x50     | 40/50  | 10    |
| Open Cell 75  | GTIOC 75-10   | 600x600 / 600x1200 | 0.4-0.6   | 75x75     | 40/50  | 10    |
| Open Cell 100 | GTIOC 100-10  | 600x600 / 600x1200 | 0.4-0.6   | 100x100   | 40/50  | 10    |
| Open Cell 120 | GTIOC 120-10  | 600x600 / 600x1200 | 0.4-0.6   | 120x120   | 40/50  | 10    |
| Open Cell 150 | GTIOC 150-10  | 600x600 / 600x1200 | 0.4-0.6   | 150x150   | 40/50  | 10    |
| Open Cell 200 | GTIOC 200-10  | 600x600 / 600x1200 | 0.4-0.6   | 200x200   | 40/50  | 10    |

All dimensions are in mm

# Open Cell Systems

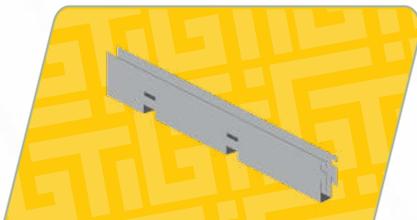


Open Cell Suspension



Open Cell Suspension-Cross Tee (GTIOCS-CT)  
Open Cell Suspension-Main Tee (GTIOCS-MT)

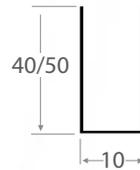
| Description                    | Reference/ ID             | Dimension       | Thickenss | Length    | Material  |
|--------------------------------|---------------------------|-----------------|-----------|-----------|-----------|
| Open Cell Suspension Cross Tee | GTIOCS-CT 0.6 - 50/10     | A B<br>10 40/50 | 0.4-0.6   | 600       | Aluminium |
| Open Cell Suspension Cross Tee | GTIOCS-CT 1.2 - 50/10     | 10 40/50        | 0.4-0.6   | 1200      | Aluminium |
| Open Cell Suspension Main Tee  | GTIOCS-MT 1.8/2.4 - 50/10 | 10 40/50        | 0.4-0.6   | 1800/2400 | Aluminium |



Open Cell Upper Blade

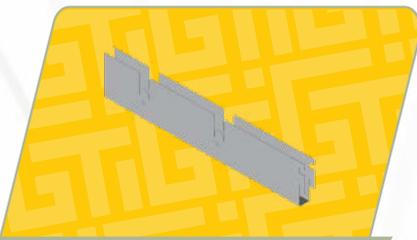
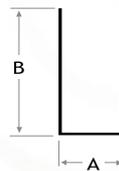
| Reference/ ID | Dimension | Thickenss | Length | Material |
|---------------|-----------|-----------|--------|----------|
|---------------|-----------|-----------|--------|----------|

|                  |                 |         |     |           |
|------------------|-----------------|---------|-----|-----------|
| GTIOCUB0.6 10-50 | A B<br>10 40/50 | 0.4-0.6 | 600 | Aluminium |
|------------------|-----------------|---------|-----|-----------|



| Reference/ ID | Dimension | Thickenss | Length | Material |
|---------------|-----------|-----------|--------|----------|
|---------------|-----------|-----------|--------|----------|

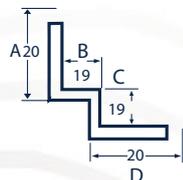
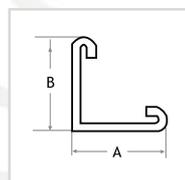
|                     |                 |         |      |           |
|---------------------|-----------------|---------|------|-----------|
| GTIOCLB 0.6 - 50/10 | A B<br>10 40/50 | 0.4-0.6 | 600  | Aluminium |
| GTIOCLB 1.2 - 50/10 | 10 40/50        | 0.4-0.6 | 1200 | Aluminium |



Open Cell Lower Blade

| Reference/ ID | Dimension | Thickenss | Length | Material |
|---------------|-----------|-----------|--------|----------|
|---------------|-----------|-----------|--------|----------|

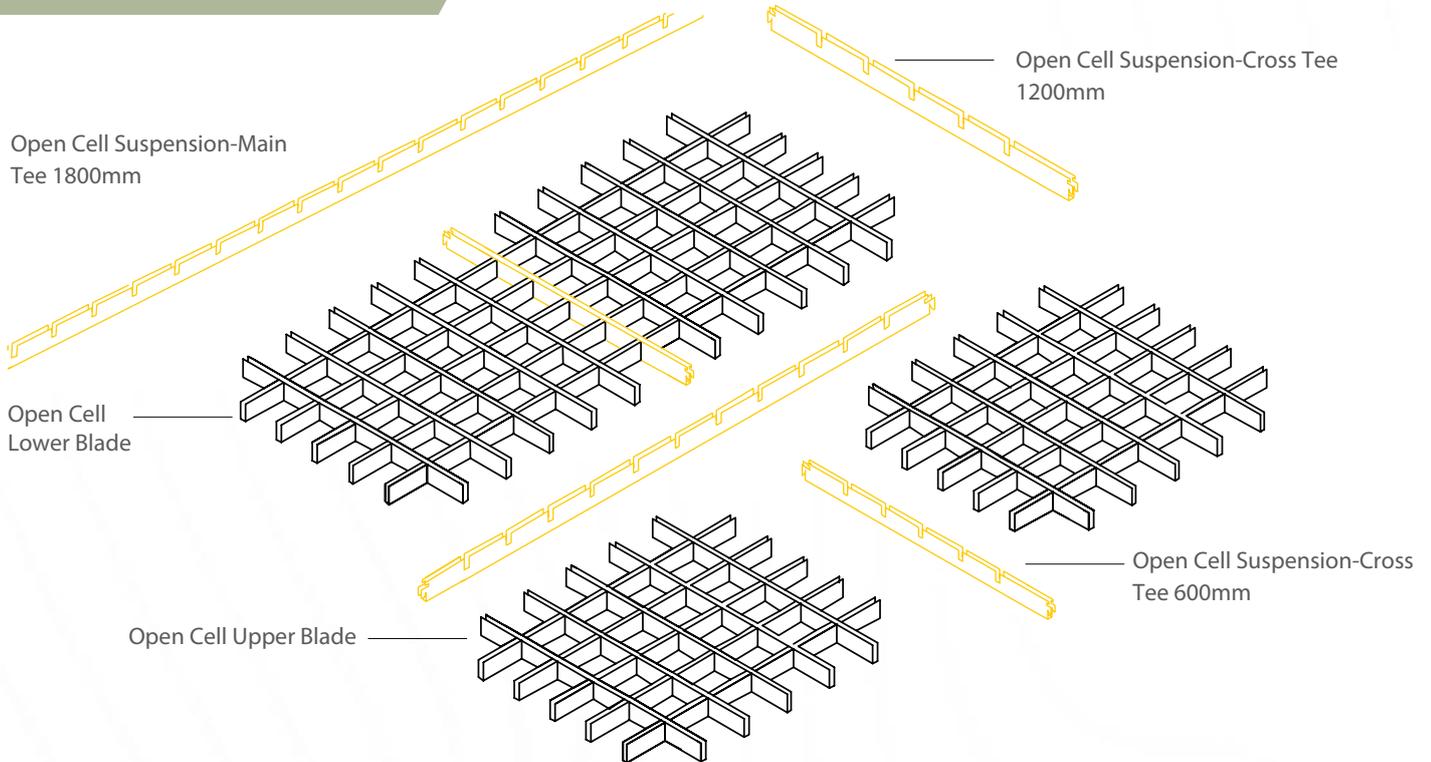
|                     |                  |      |      |      |
|---------------------|------------------|------|------|------|
| GTIOCEP 20/20       | A B C D<br>20 20 | 0.45 | 3000 | PPGI |
| GTIOCEP 20/19/19/20 | 20 19 19 20      | 0.45 | 3000 | PPGI |



Galvanized Steel Prepainted Polyester Coating  
Open Cell Angle, same color finishing as the tiles.

Open Cell Edge Profile

## Installation Method



All these items are with colored face (Standard color RAL 9003 White). Other colors available upon request.

### Installation Procedure:

1. Level marking on walls using water level or laser method.
2. Fixing of Edge Profile with screws and nails on the wall.
3. Mark out & commence fixing of Grid Suspension System using:
  - GTIOCS 1800/2400mm to be installed at 1200mm distance between each other.
  - GTIOCS 1200mm to cross the GTIOCS 1800/2400mm on 600mm distance.
  - GTIOCS 600mm to cross the GTIOCS 1200mm on 600mm distance.
4. Fixing of suspension system with 3mm /4mm wires fixed to concrete with clips and cartridges and having adjustable clips to adjust the ceiling level.
5. Installation of the Lower Blade on 100mm distance or 50mm with the intersection of the same installation distance of the Upper Blade in order to create the cell size form.



08

STEEL CHANNEL LINTELS

## Steel Channel Lintel



### Description

GI Steel Lintels are used to replace conventional casting of concrete lintels over door and window apertures. The Designs of GTI Steel Lintels varies as per span. GTI manufacture different type of Lintels with different lengths.

GI Steel Lintels provide a combination of strength and are light weight, resulting in efficient load bearing performance for all type of blocks and increased productivity for project requirements. They are characterized by their ease of installation.

GTI "GI Steel Lintels" are designed and fabricated as stipulated per project requirements. GI Steel Lintels are manufactured to meet all kind of project requirements and comply with the international standards.

GTI Steel Lintels are manufactured in accordance with **BS EN 845-2:2013+A1:2016**

Relevant standards **BS 5977 Part 2:1983**

### Finishing

- Galvanized steel according to **BS EN 10346:2015**
- Hot Dipped Galvanized according to **BS EN ISO 1461:2009**
- Other or special coatings are available upon request.

### Material

- Cold rolled steel DC01 as per **EN 10130:2006/ASTM A 1008 CS Type A/B (formerly ASTM A-366)**

## Steel Channel Lintel

| Reference     | Thickness (mm) | Height of Flange (mm) | Width of Lintel (mm) | Safe working load uniformly distributed |            |            |            |            |
|---------------|----------------|-----------------------|----------------------|---|------------|------------|------------|------------|
|               |                |                       |                      | 0.9 - 1.20                              | 1.30- 1.50 | 1.60- 1.80 | 1.90- 2.10 | 2.20- 2.40 |
| GTILIN 100H50 | 2.0            | 50                    | 100                  | 0.55                                    | 0.42       | 0.31       |            |            |
|               | 2.5            | 50                    | 100                  | 0.80                                    | 0.58       | 0.38       | 0.24       | 0.18       |
|               | 3.0            | 50                    | 100                  | 0.93                                    | 0.60       | 0.40       | 0.29       | 0.21       |
| GTILIN 100H75 | 3.2            | 75                    | 100                  | 1.63                                    | 1.25       | 1.00       | 0.86       | 0.64       |
| GTILIN 150H50 | 2.0            | 50                    | 150                  | 0.48                                    | 0.37       | 0.27       |            |            |
|               | 2.5            | 50                    | 150                  | 0.76                                    | 0.58       | 0.41       | 0.27       | 0.19       |
|               | 3.0            | 50                    | 150                  | 1.15                                    | 0.74       | 0.48       | 0.34       | 0.26       |
| GTILIN 150H75 | 3.2            | 75                    | 150                  | 1.63                                    | 1.25       | 1.00       | 0.86       | 0.64       |
| GTILIN 200H50 | 2.0            | 50                    | 200                  | 0.62                                    | 0.48       | 0.35       |            |            |
|               | 2.5            | 50                    | 200                  | 0.77                                    | 0.59       | 0.41       | 0.29       | 0.21       |
|               | 3.0            | 50                    | 200                  | 0.98                                    | 0.75       | 0.49       | 0.35       | 0.26       |
| GTILIN 200H75 | 3.2            | 75                    | 200                  | 1.63                                    | 1.25       | 1.00       | 0.86       | 0.64       |

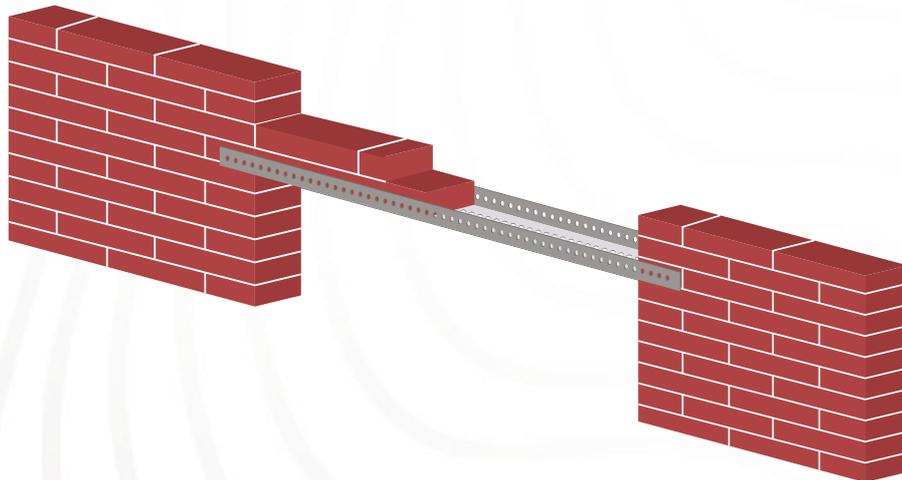
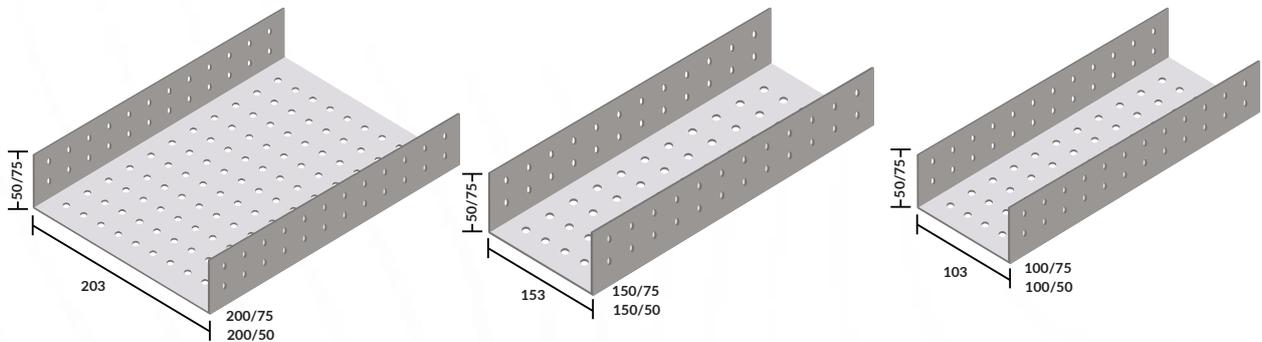
### Installation:

- Lintels must have a minimum end bearing of 150mm on each side of the opening, bedded on mortar. (150mm bearing for opening below 1.8meter and 200mm for opening above 1.8meter)
- The Lintel should be in level along its length and across its width. Masonry built must be laid on a mortar bed and all perpendicular joints to be filled with mortar. Masonry wall is laid in a running bond.
- Temporary support beneath the steel lintel is required to facilitate speed of construction to avoid shock loading when doing masonry work above it and to prevent high deflection.
- The bracket can be used for bearing of Lintel when the wall is not present for bearing purpose.
- Lintel brackets are provided with fixing holes to suit the expansion anchor sizes required.



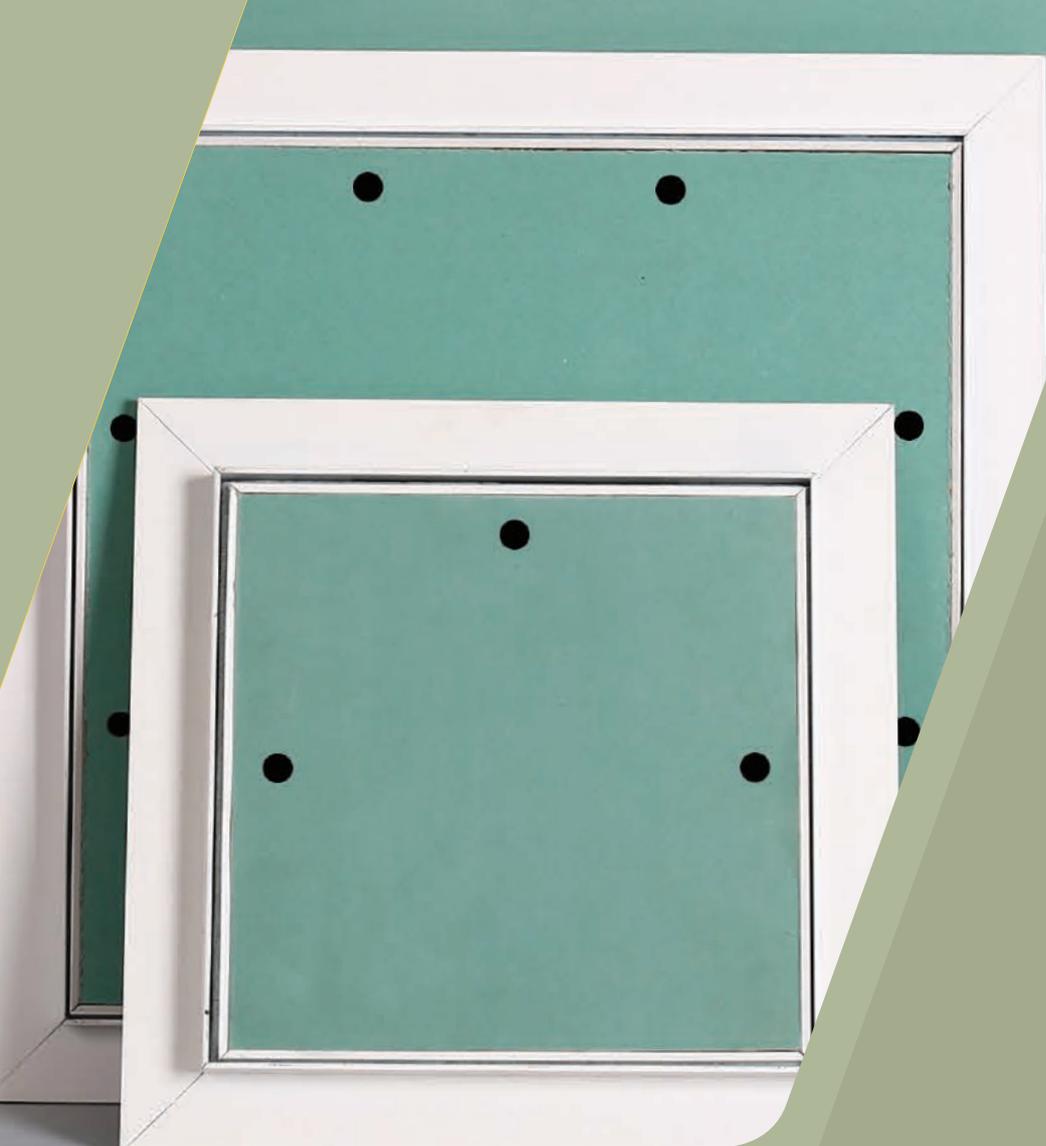
## Procedure:

- Lintels shall be simply supported at each solid base using a minimum end bearing of 150-200mm.
- Lintels should not be cut to length or used if damaged or welded.
- Lintels must always be used within their weight capacity or other size suggested as per project requirements.
- Keep Lintel in level along its length and across its width. Masonry built must be laid on a mortar bed. Masonry wall is laid in running bond.
- Use support at center until mortar is dry to avoid high deflection and temporary shoring must be provided until masonry cured sufficiently to ensure the arching action.
- If wall is not present for bearing at another end of the Lintel, then use bracket of the same width of Lintel width for bearing, provided with fixing holes to suit the expansion anchor sizes required.



## Note:

- Special widths are available upon request.
- Other or special coatings are available upon request.
- Load calculation can be provided as per client request along with the different parameters to be provided for (size of block, density of block, density of plaster and plaster thickness as required).



09

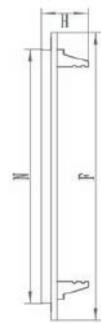
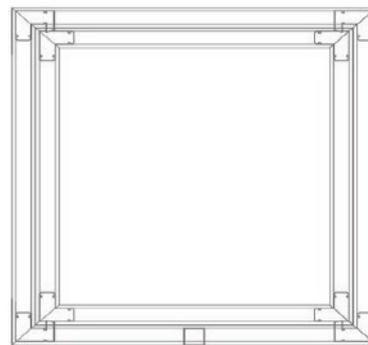
ACCESS PANEL

## Description

A Light Weight Non Fire - Rated access panel designed for application in ceiling and walls, making access to hidden services quick and easy, minimal maintenance required when installed. GTI standard access panel comprise of a powder -coated aluminum frame and Gyproc Moisture Resistant gypsum board door facing. All panels comprise a safety mechanism with a push catch lock, cable and safety hook.

## Application & Installation

- Suitable for Non - Fire Rated ceiling system, where no structural performance are required.
- Cut aperture within the plasterboard ceiling and install the frame in the ceiling.
- Ensure frame is set into ceiling aperture.
- Additional framing support to the ceiling frame work around the aperture for more secure.
- Refit door into frame and check operation prior to finishing.



## Specification

Non-Fire Rated standard aluminum access panel frames are electrostatic powder coated white. Aluminium grade (6063-T6), coating 60 microns (white color), thickness 2.00mm.

### Physical Properties

| Alloy   | Temper | Hardness | Elongation (%) | UTS(Mpa) |
|---------|--------|----------|----------------|----------|
| AA 6063 | T6     | 75BHN    | 06min          | 215      |

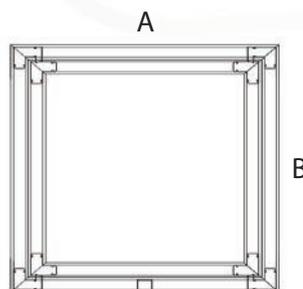
### Comply to British Standards.

#### Standards

- BS EN 573 - 3 - 2013 Part 3
- BS EN 755 - 2 - 2013 Part 2

#### Standard Access Panel Range:

| Dimension (A x B) |
|-------------------|
| 200mm X 200mm     |
| 300mm X 300mm     |
| 400mm X 400mm     |
| 450mm X 450mm     |
| 500mm X 500mm     |
| 600mm X 600mm     |



We also produce custom made access panels with different sizes & types according to the client's requirement.

All dimensions are in mm

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ACCESS PANEL

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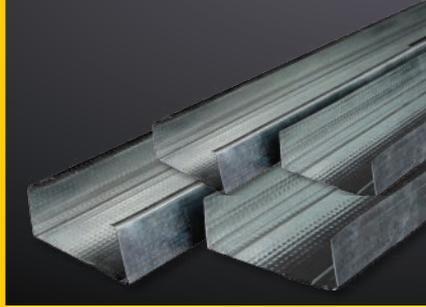
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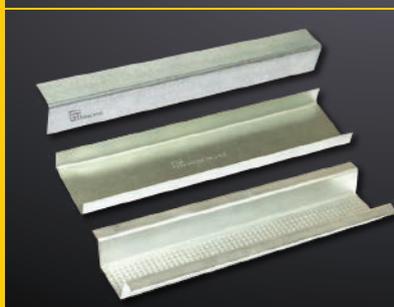
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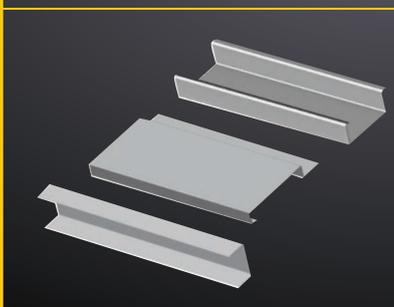
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(Recyclable Content)

MR Credit 5.1 and 5.2  
(Regional Materials)

EQ Credit 3.1 and 3.2  
(Construction IAQ Management Plan: During Construction)

EQ Credit 4.2  
(Low-Emitting Materials; Paints & Coatings)

EA Credit 1  
(Optimize Energy Performance)

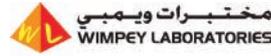
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Gemini Technical Industries is dedicated to the quality aspects which ensure that its product and service fully meet the requirements of its customers. Our main priorities are efficiency and customer satisfaction.

To this end, Gemini Technical Industries is committed to undertake the following:

- Understand our customer needs and improve our service to facilitate growth.
- Develop our production technology to meet our customer's expectations and market demand.
- Promote a workplace in which our staff are properly trained and developed to comply with the applicable standards and procedures.
- Continually comply with the requirements of ISO 14001:2015, ISO 9001:2015 OHSAS 18001:2007.

Accreditations, Labs & Membership:



الهواصفات السعودية  
Saudi Standards



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Approved by authorization from Abu Dhabi OSH Centre  
Industrial Development Bureau- Department of Economic Development  
certifies that GTI has met all minimum requirement of Occupational Safety  
and Health System Framework (OSHAD-SF)



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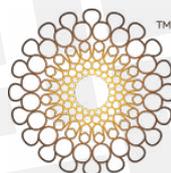
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