



GT 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.

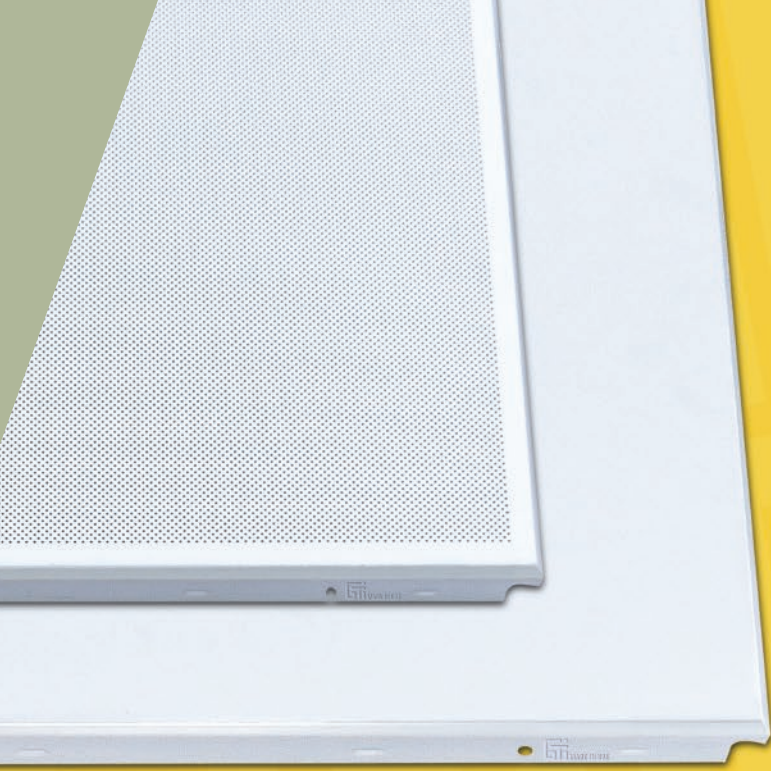
GTI materials for interiors are built to fit above the global standards, with high level of quality, consistency and reliability as expected from a world-class brand at a price suited to your requirements.



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**
- Crown Gypsum Ceiling Tile**
- Lay - On Mesh Ceiling**



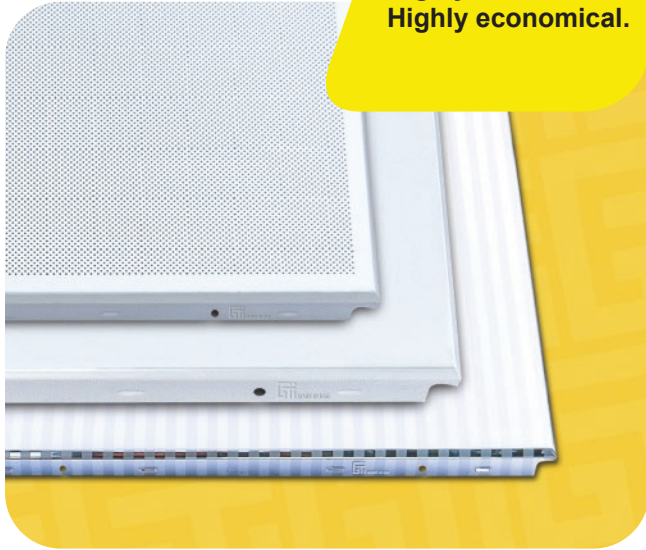
01

CONCEALED / CLIP-IN SYSTEM



Concealed / Clip-In System

**Highly durable.
Highly economical.**



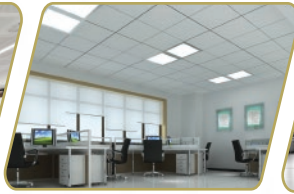
A concealed ceiling system is probably the most widely used metal tile ceiling system, and are often suspended from the soffit. It has no visible grid and can integrate lighting, ventilation, and smoke detectors. Various acoustic requirements can also be met.

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



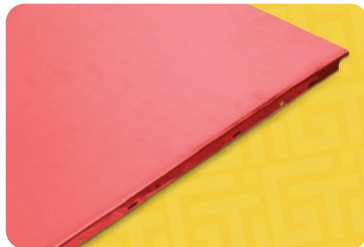
Color Tiles

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

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



(GCITB4) (RAL9010/RAL9003)



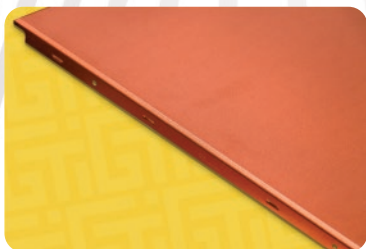
Cooper Finish (GTICIT-CF)



Silver Lining Finish (GTICIT-SLF)



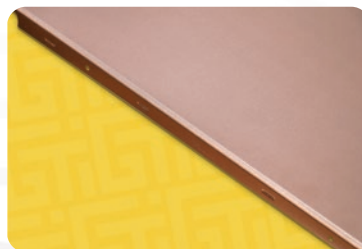
Gold Mirror Finish (GCIT-GMF)



Gold Texture (GTICIT-GT)



Gold Diamond Finish (GTICIT-GDF)



Light Gold Texture (GTICIT-LGT)



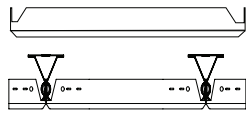
Silver Mirror Finish (GCIT-SMF)

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

Finish

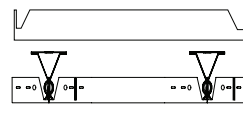
- Surface Finish- Plain | Perforated | Decorative Face Patterns

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.



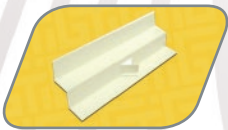
L Edge Trim with Locking System

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.



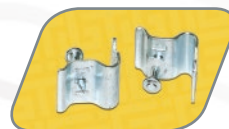
Hanger Wire

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.



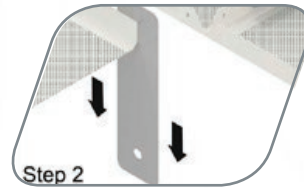
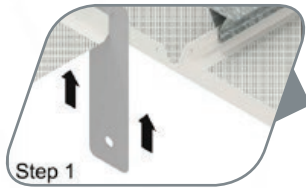
CEILING CLIP

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

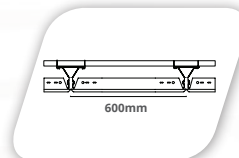
Fixing Hanging wires 3mm/4mm with adjustable clip and channel bracket or channel support from soffit of slab with Ceiling Clip and Cartridge or wedge anchor, connected directly to the main channel.

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

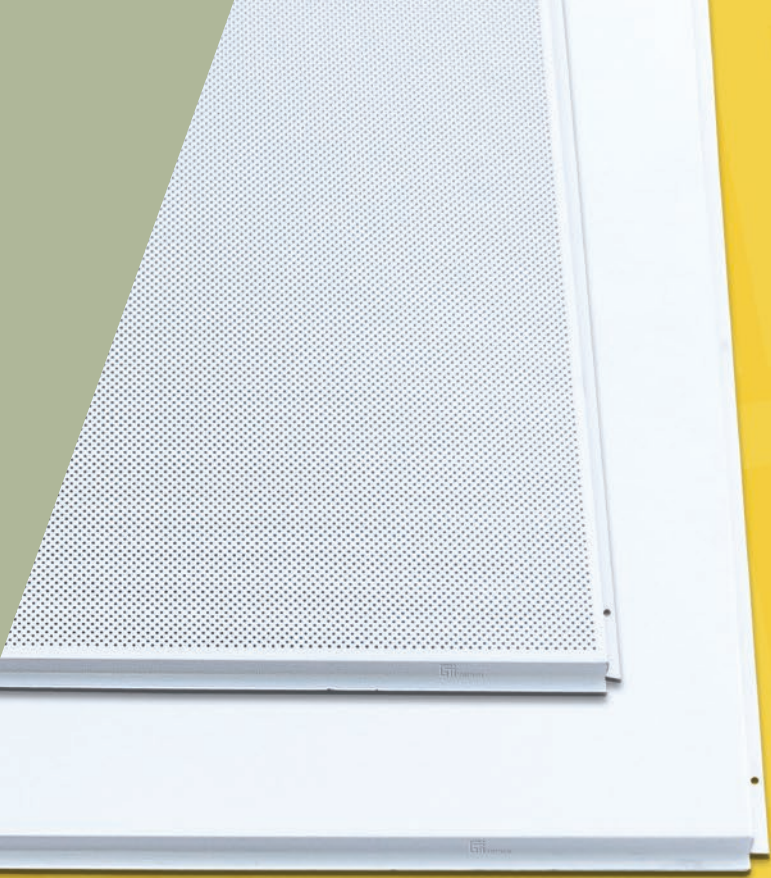


EIGHT REFLECTANCE



GREEN BUILDING MATERIAL





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

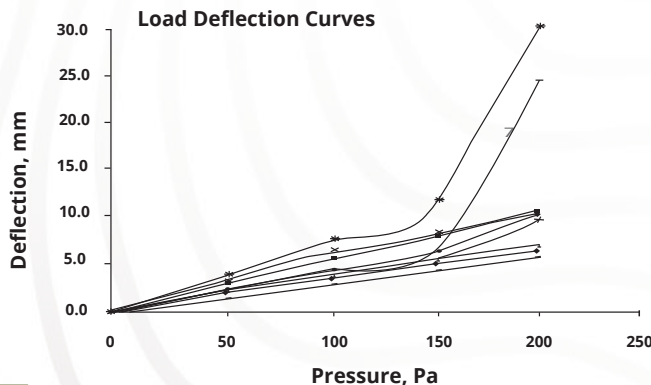
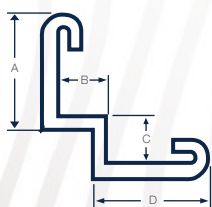
These consist of galvanized steel with pre-painted polyester coating aluminium or PPGI capping.
RAL 9003 / 9010

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
Cross Tee	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
Main Tee	GTIMT360	H - 32mm W - 15/24mm		3600mm	RAL-9003/ RAL- 9010
	GTIMT360	H - 38mm W - 24mm		3600mm	RAL-9003/ RAL- 9010
L-Angle	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
W-Angle	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
W-Angle with Tab	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

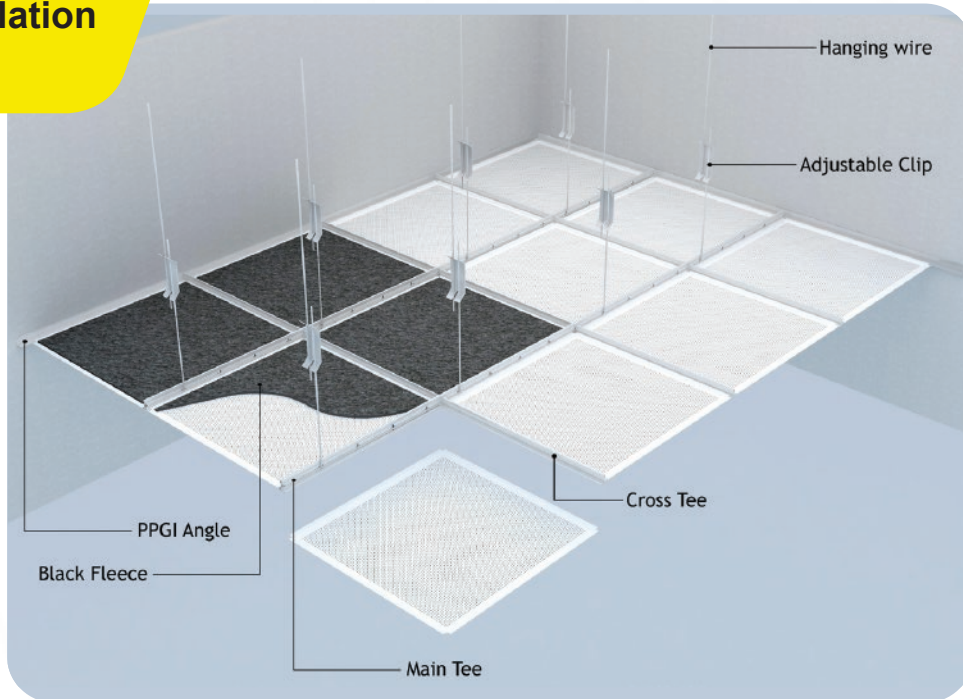


Hanger Wire



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



CORROSION RESISTANCE



FIRE CLASSIFICATION



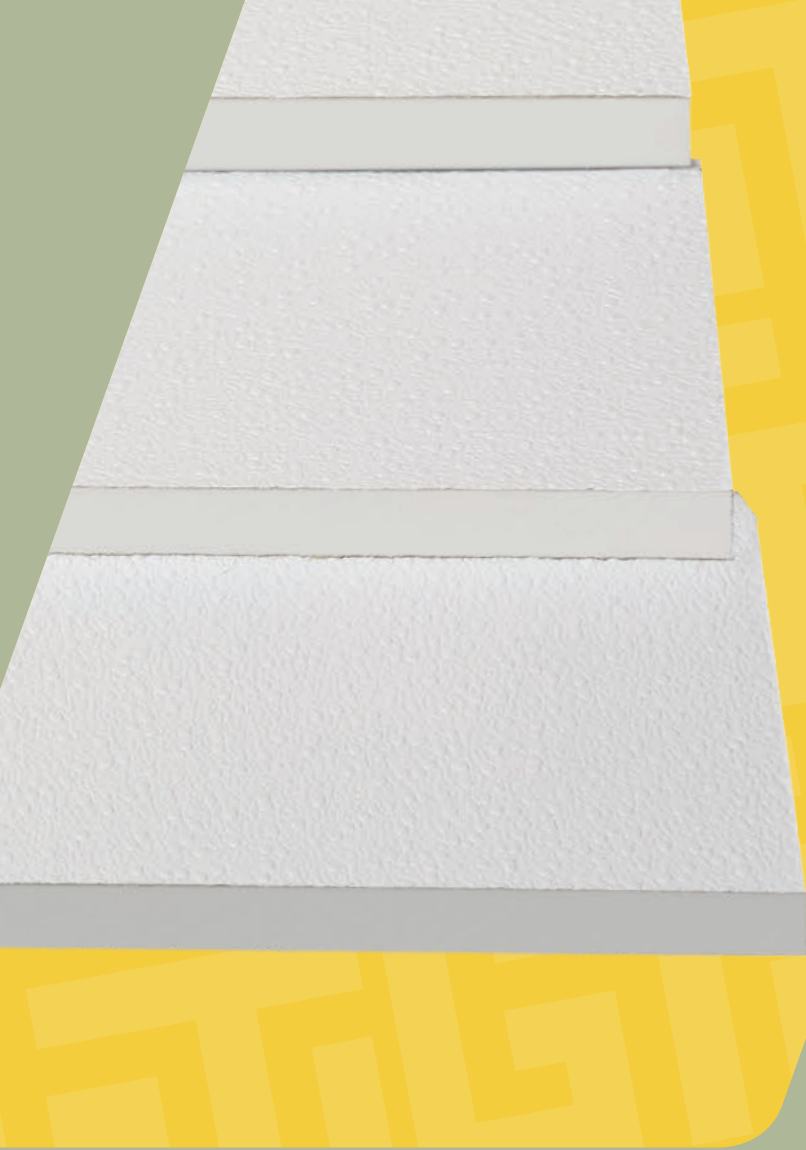
HUMIDITY RESISTANCE



EIGHT REFLECTANCE



GREEN BUILDING MATERIAL

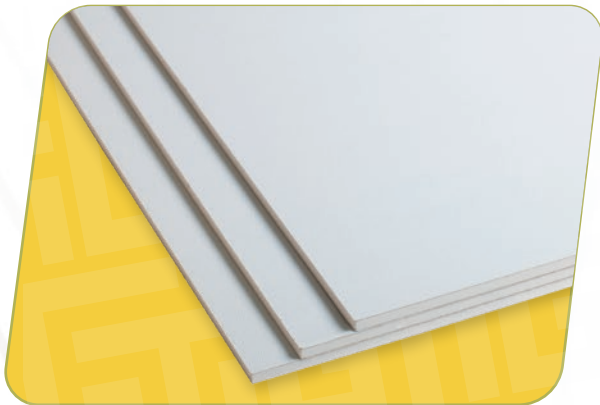


03



CROWN GYPSUM CEILING TILE

**VINYL CLADDED
GYPSUM CEILING**



Description

Crown Gypsum Ceiling Tile is a gypsum board base laminated with white PVC on the face side and a metallic foil film on the back side. The gypsum core manufactured according to: EN520, ASTM C 1396 M / ASTM C36 for Moisture Resistant / Regular Boards. The White PVC on the face surface is brushable and/or washable with a mild detergent soap and damp cloth.

Applications:

Crown Gypsum Ceiling Tile product can be used in conjunction with our GTI T-24 / T-15 Grid Suspension System, where quick and easy access to any part of the false ceiling is required. Easy to clean, attractive and aesthetic surface finish, and easy to install. Use in most common areas such as toilets, bathrooms, kitchens, and services areas. Suitable for a multitude of sectors such as residential, commercial, and educational projects.

Product Data

PVC Pattern	Different Design
Shape	Square
Edge Profile	Square
Size	595 mm x 595 mm
Thickness	7 mm, 9 mm, 12.5 mm

Performance

- Humidity Resistant = 95%
- High resistance to abrasion
- Light reflectance = 75%

The gypsum board complies with the following standards:

- EN 520 Type A
- ASTM C 36M / ASTM C 1396M
- ASTM E - 84 Class A

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.

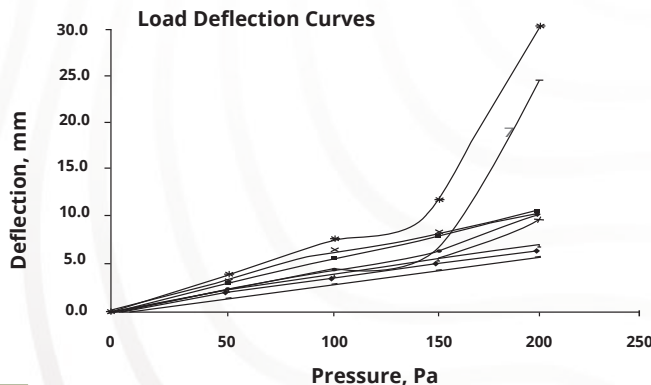
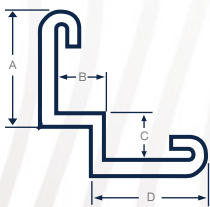
RAL 9003 / 9010

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
Cross Tee	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
Main Tee	GTIMT360	H - 32mm W - 15/24mm		3600mm	RAL-9003/ RAL- 9010
	GTIMT360	H - 38mm W - 24mm		3600mm	RAL-9003/ RAL- 9010
L-Angle	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
W-Angle	GTIWA10	A 19 B 9 C 9 D 19	0.45	3000mm	RAL-9003/ RAL- 9010
	GTIWA15	19 15 15 19	0.45	3000mm	RAL-9003/ RAL- 9010
	GTIWA20	20 19 19 20	0.45	3000mm	RAL-9003/ RAL- 9010
W-Angle with Tab	GTIWA10T	19 9 9 19	0.45	3000mm	RAL-9003/ RAL- 9010
	GTIWA15T	19 15 15 19	0.45	3000mm	RAL-9003/ RAL- 9010
	GTIWA20T	20 19 19 20	0.45	3000mm	RAL-9003/ RAL- 9010

W-Angle
Color: RAL 9003 / 9010



ACCESSORIES



Wedge Anchor



Adjustable Spring Clip

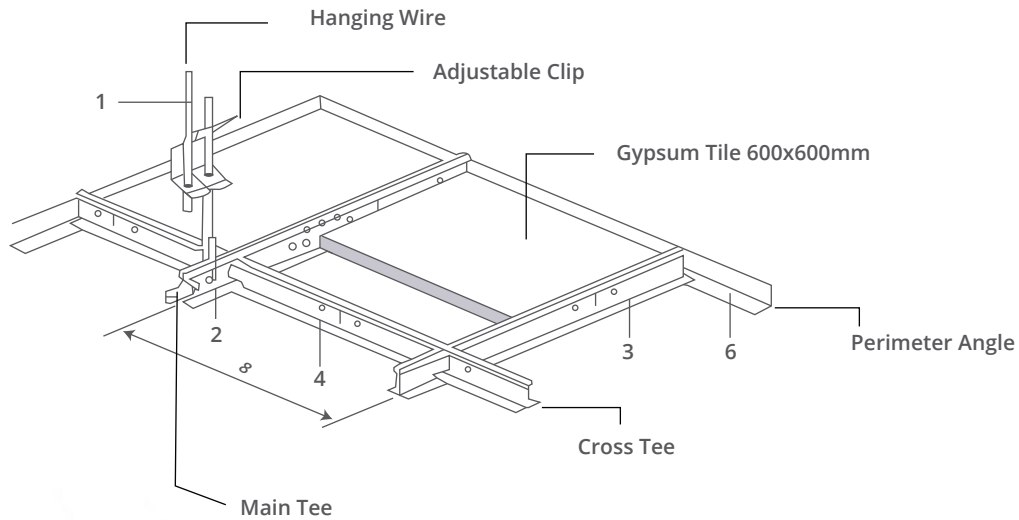


Hanger Wire



Ceiling Clip

Exposed Suspension System 24 / 15 mm



Installation for Crown Gypsum Lay - In / Lay - on Ceiling Tiles

Step 1 – Fixing of suspension System

- Level marking on wall for suspended ceiling level using accurate proper equipment.
- Ensure that all MEP fitting are installed and get approved prior to start of false ceiling installation and civil works should be finished & approved.
- Approved shop drawings shall be followed for installation of the ceiling tiles/panels.
- Location of the suspension components shall be finalized.
- Tie Wire Anchor M6 shall be fixed to the structural soffit at space of 1200mm C/C with starting point maximum 250mm from the wall.
- In areas where fixing of ceiling hanger is not possible due to dense MEP services, additional bridging/cross bracing shall be fixed below the services and suspension hanger shall be hanged from it without affecting approved level.

Step 2 – Leveling and Fixing of Wall Angles/ Perimeter Trims

- Finished floor level marking shall be marked at several locations using levelling instrument.
- Based on available approved finished floor levels, desired false ceiling levels shall be marked on perimeter walls.
- Fix wall angles/perimeter trim on the marked line by using screws of 25mm length or concrete nails, spacing @ 300mm c/c at 100mm from the wall on both side

Step 3 - Complete the Grid

- Mark the required distance intervals then proceed to fix grid suspension system Main Tee, Cross Tee's according to the approved layout to make 600 x 600mm grid module.

Step 4 – Attached the Hanging Support

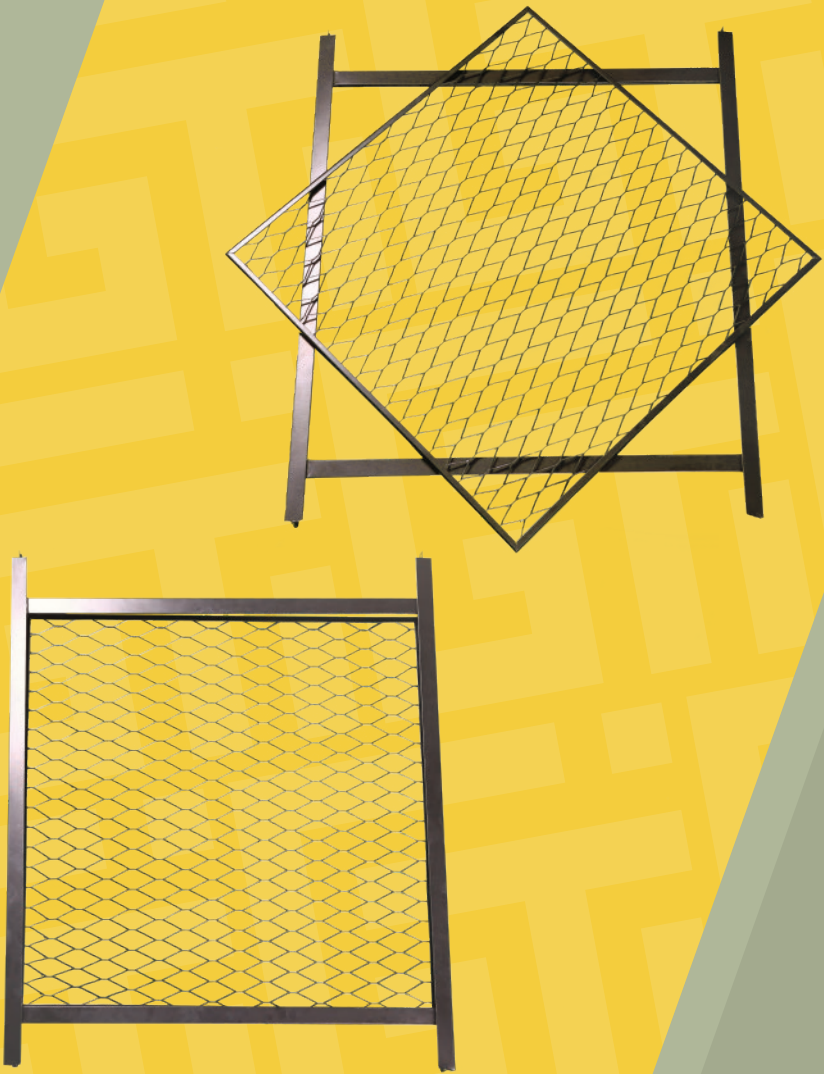
- Fixing vertically Hanging Wires 3mm/4mm with Adjustable Clip connected to the soffit slab using Tie Wire Anchor M6, and connected directly to the primary Main Tee.

Step 5 – Opening of MEP Services

- When the suspension system is ready and the final levels are adjusted, the tiles can be fixed by laying on 600x600 module created by the grid system.
- Initially only the service tiles will be fixed so that the MEP contractors shall mark the opening for services in the ceiling tiles as per approved shop drawings allowing to cut the respective openings.

Step 6 – Closing of ceiling Tiles

- After the cutting of services openings are completed, the MEP Contractor shall install all the services as per approved layouts.
- Final clearance shall be obtained from MEP Contractor as a standard process prior to starting closing of ceiling.
- After receiving the clearance for closing of ceiling, the installed suspension system shall be checked for levels and alignment and if necessary, it shall be adjusted for final installation.
- When the suspension system is ready and final levels adjusted, all the ceiling panels will be installed by laying on 600x600mm module created by already installed grid system.



04

LAY-ON MESH CEILING

System Description

Expanded Metal Mesh Ceiling is an increasingly required material for its more refined industrial look as an alternative Option to Exposed soffit given an architectural and aesthetic appearance of the ceiling. It can be used in different sectors. Mesh Ceiling is compatible with GTI Ceiling systems and can incorporate with other type of ceiling. GTI Mesh is available in diamond mesh pattern and full range of RAL Colours.

Panel Thickness: / Size



Reference	Dimensions (mm)		Thickness (mm)	Quantity Box
	A	B	G.I Steel	
GTLI6060	600	600	1.5	



Material:	Galvanized steel : BS EN 10346:2009/ASTM A 1003M CS Type A/ASTM A 653M Manufactured to : BS EN 13658-182 / ASTM C847
Surface Finish:	Diamond Pattern
Edge Details:	Square Edge
color:	RAL 9005 (Black Color) other colors available upon request.
Coating Finish:	Polyester Powder Coating Conform to BSEN 12206-1:2004,ASTM D3363,ASTM D2794 and tested as per: BSEN 13964: 2004 Norms. Coating Thickness : 60-80microns
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
Light Reflectance:	Depend on the orientation of the mesh and the viewing location.
Corrosions Resistance:	Salt spray Tested for 1000hrs corrosion protection as per ASTM B 117-73
Humidity Resistance:	1000hrs, tested According to ECCA and EN 1396 Norms, ASTM D 2247, HR : 95%
Acoustic Performance:	Acoustic Infill to improve acoustic performance - Mineral Fiber (Optional) - Soft Fiber (Optional)
Suspension System Components:	Exposed T- Grid Suspension System all steel parts finishes are chemically cleaned, galvanized steel comply to ASTM C 635M.
Components:	Main Tee (3.60mm) Cross Tee (1.2mm) Cross Tee (0.6mm) Wall Angle L 24x24 (3000mm)
Application:	Restaurant, Public Areas , Reception , Lobbies , Office Space , Airport



ACOUSTIC PROPERTY



CLEANABILITY



ANTI - MICROBIAL



CORROSION RESISTANCE



FIRE CLASSIFICATION



HUMIDITY RESISTANCE



LIGHT REFLECTANCE



GREEN BUILDING MATERIAL

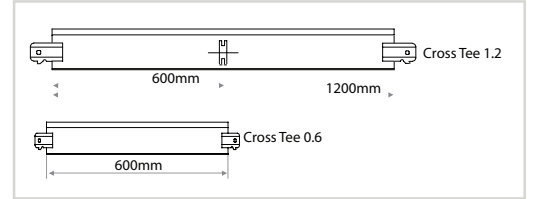
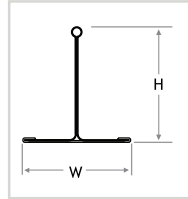
Exposed Suspension System 24 mm



Cross Tee

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

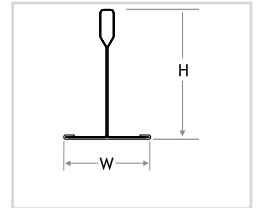
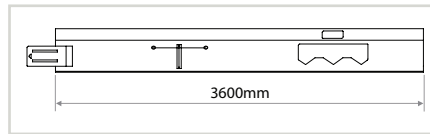
Reference	Dimensions	Length	Material	Piece / Box
GTICT 60	H 25mm	600mm	Pre Painted Galvanized Iron (PPGI)	75
	W 24mm			
GTICT 120	H 32mm	1200mm	Pre Painted Galvanized Iron (PPGI)	50
	W 15mm (T-15)			



Main Tee

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

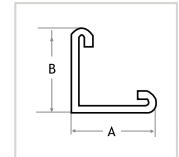
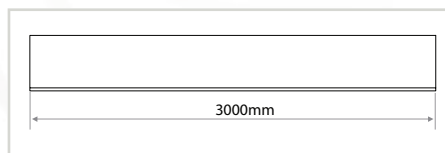
Reference	Dimensions	Length	Material	Piece / Box	
GTIMT 360	H 32	W 15/24mm	3600mm	Pre Painted Galvanized Iron (PPGI)	25
GTIMT 360	H 38	W 24mm	3600mm	Pre Painted Galvanized Iron (PPGI)	25



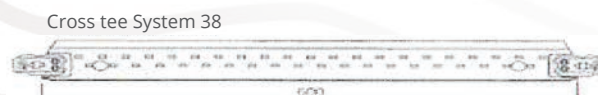
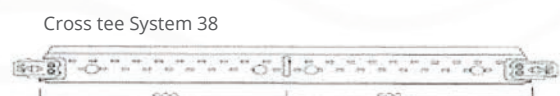
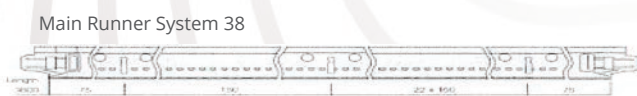
L-Angle

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	W 15	3000mm	Pre Painted Galvanized Iron (PPGI)	25
GTILA20	H 20	W 20	3000mm	Pre Painted Galvanized Iron (PPGI)	25
GTILA25	H 25	W 25	3000mm	Pre Painted Galvanized Iron (PPGI)	25



Section Drawings



METHOD STATEMENT FOR SUSPENDED CEILING INSTALLATION

Installation performance of suspended ceiling components must conform to ASTM C 635M / ASTM 636M (direct hung metal suspension system) Suspended ceiling material should be installed in areas weather tight, works, & services above the ceiling levels should be completed. The materials should be under normal atmospheric conditions before, during and after installation as well during the storage of materials.

Installation for Lay - In / Lay - On Ceiling Tiles

Step 1 – Fixing of Suspension System

- Level marking on wall for suspended ceiling level using accurate proper equipment.
- Ensure that all MEP fitting are installed and get approved prior to start of also ceiling installation and civil works should be finished & approved.
- Approved shop drawings shall be followed for installation of the ceiling tiles/panels.
- Location of the suspension components shall be finalized.
- Tie Wire Anchor M6 shall be fixed to the structural soffit at space of 12001mm C/C with starting point maximum 250mm from the wall.
- In areas where fixing of ceiling hanger is not possible due to dense MEP services, additional bridging/cross bracing shall be fixed below the services and suspension hanger shall be hanged from it without affecting approved level.

Step 2 – Leveling and Fixing of Wall Angles/Perimeter Trims

- Finished floor level marking shall be marked at several locations using levelling instrument
- Based on available approved finished floor levels, desired false ceiling levels shall be marked on perimeter walls.
- Fix wall angles/perimeter trim on the marked line by using screws of 25mm length or concrete nails, spacing @ 300mm c/c at 100mm from the wall on both sides.

Step 3 - Complete the Grid

Mark the required distance intervals then proceed to fix the grid suspension system Main Tee, Gloss Tee's according to the approved layout to make 600 x 600mm grid module.

Step 4 - Attach the Hanging Support

Fixing vertically Hanging Wires 3mm/4mm with Adjustable Clip connected to the soffit slab using Tie Wire Anchor M6, and connected directly to the primary Main Tee.

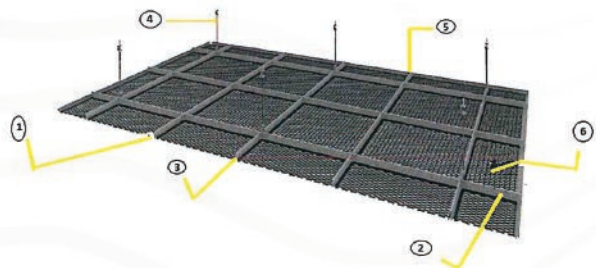
Step 5 – Opening of MEP Services

When the suspension system is ready and the final levels are adjusted, the tiles can be fixed by laying on 600x600 module created by the grid system.

- Initially only the service tiles will be fixed so that die MEP contractors shall mark the openings for services in the ceiling tiles as per approved shop drawings allowing to cut the respective openings.

Step 6 – Closing of Ceiling Tiles

- After the cuttings of service openings are completed the MEP Contractor shall install all the services as per approved layouts.
- Final clearance shall be obtained from MEP Contractor as a standard process prior to starting closing of ceiling.
- After receiving the clearance for closing of ceiling, tile installed suspension system shall be checked for levels and alignment and if necessary, it shall be adjusted for final installation.
- When the suspension system is ready and final levels adjusted, all the ceiling panels will be installed by laying on 600x600mm module created by already installed grid system.



- | | |
|------------------------|--|
| 1. Main Runner 3600 mm | 4- Hanging Wire with Double Spring Adjustable Clip |
| 2- Cross Tee 120mm | 5- Perimeter Angle 3000mm |
| 3- Cross Tee 60 mm | 6- Lay-on Metal Mesh Ceiling 600x600 mm |



05

T-GRID SUSPENSION

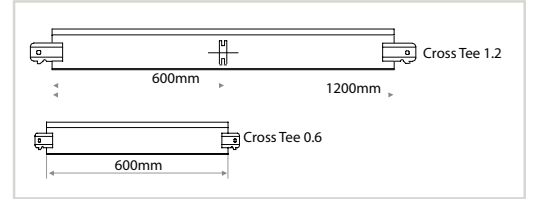
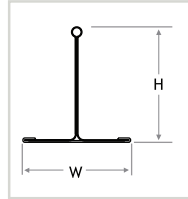
TEE 15/24 - Grid Main Suspension



Cross Tee

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

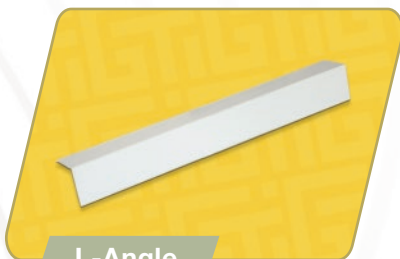
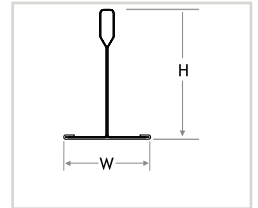
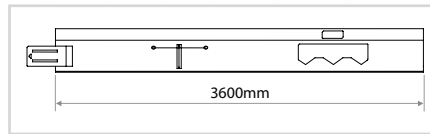
Reference	Dimensions	Length	Material	Piece / Box
GTICT 60	H 25mm	600mm	Pre Painted Galvanized Iron (PPGI)	75
	W 24mm (T-15)			
GTICT 120	H 25mm	1200mm	Pre Painted Galvanized Iron (PPGI)	50
	W 24mm (T-15)			



Main Tee

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

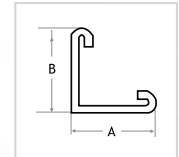
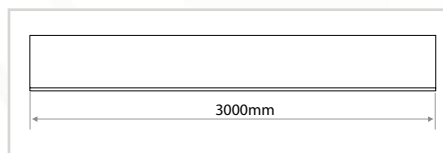
Reference	Dimensions	Length	Material	Piece / Box	
GTIMT 360	H 32	W 15/24mm	3600mm	Pre Painted Galvanized Iron (PPGI)	25
GTIMT 360	H 38	W 24mm	3600mm	Pre Painted Galvanized Iron (PPGI)	25



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	W 15	3000mm	Pre Painted Galvanized Iron (PPGI)	25
GTILA20	H 20	W 20	3000mm	Pre Painted Galvanized Iron (PPGI)	25
GTILA25	H 25	W 25	3000mm	Pre Painted Galvanized Iron (PPGI)	25



APPLICATIONS

Offices
Classrooms
Laboratories
Hospitals
Airports & Other Commercial Installations

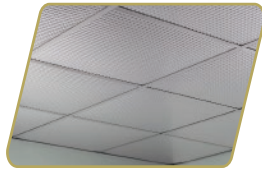


Product Specifications

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



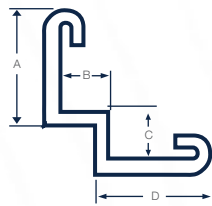
**Minerals
Fibre Tiles**

Edge Trim



W - Angle (Plain)

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

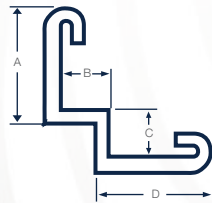


Plain Color:
RAL 9003 / 9010



W - Angle with Tab

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



W-Angle with Tab
Color: RAL 9003 / 9010

ACCESSORIES



Wedge Anchor



Adjustable Spring Clip



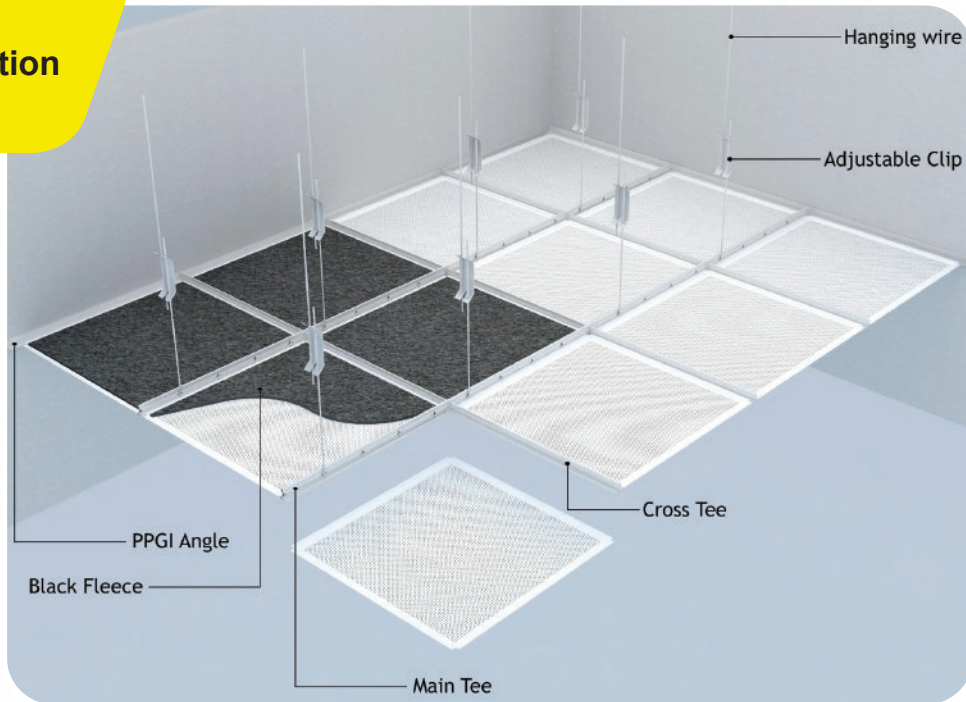
Hanger Wire



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

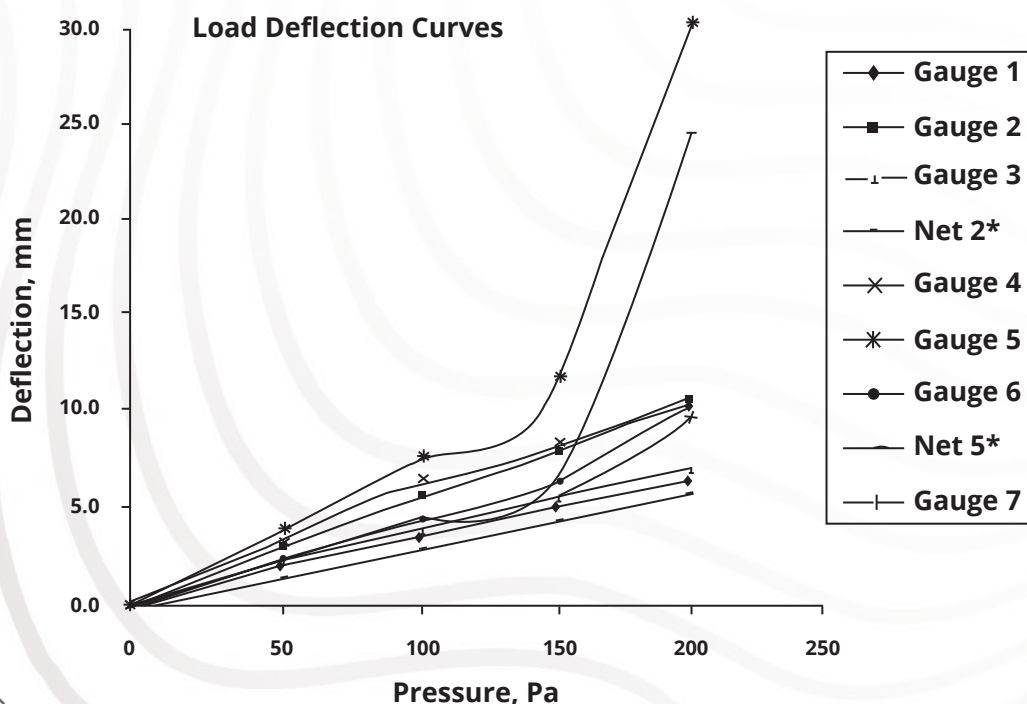
Fix the suspension system with 3mm or 4mm wires using ceiling clips and cartridges.

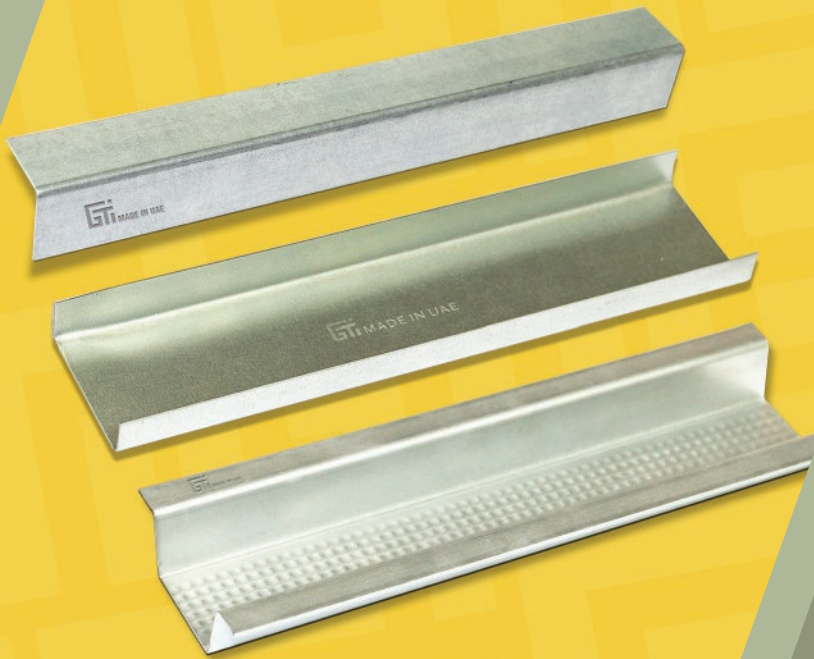
Step 5 – Install the tiles

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.





06

FURRING CEILING SYSTEM

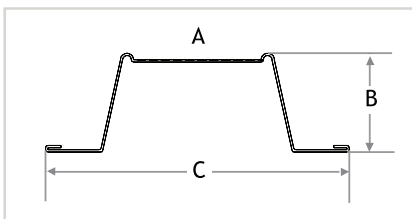
Furring Channel System

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)

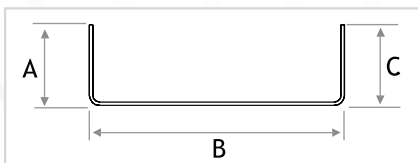


- Galvanized Iron (GI): BS EN 10346:2009 (formerly BS EN 10142:1991).
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005 ASTM C645 / C645 M.
- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.

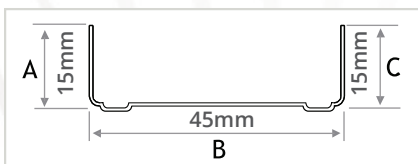


Main Channel

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)

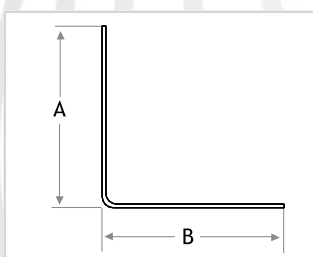


- Galvanized Iron (GI): BS EN 10346:2009 (formerly BS EN 10142:1991).
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005 ASTM C645 / C645 M.
- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.



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)



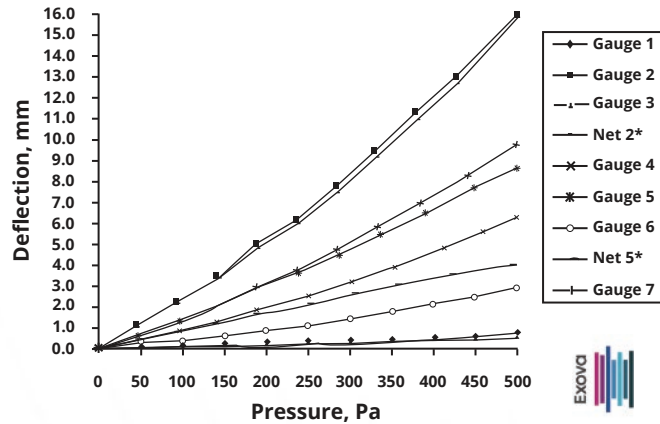
- Galvanized Iron (GI): BS EN 10346:2009 (formerly BS EN 10142:1991).
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005 ASTM C645 / C645 M.
- Coating Type: Z120, Z180 & Z275 as per ASTM A653 /A653M.
- Thicknesses and custom lengths are available upon request.

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

ACCESSORIES



Positive Load Deflection Curves

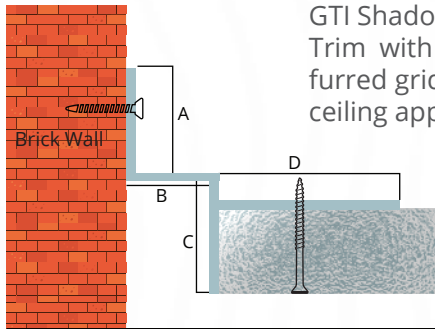


Edge Trim F- Profile

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.

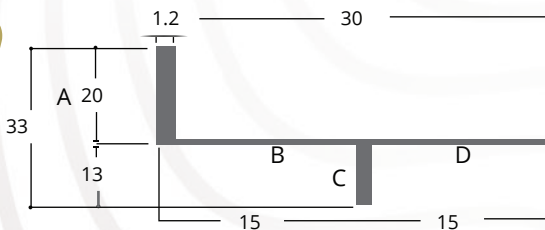
Reference	Dimensions	Thickness	Length	Material
GTISGET	A B C D 20 20 20 20	0.45/0.55	3000mm	Pre Painted Galvanized Iron (PPGI)

- 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



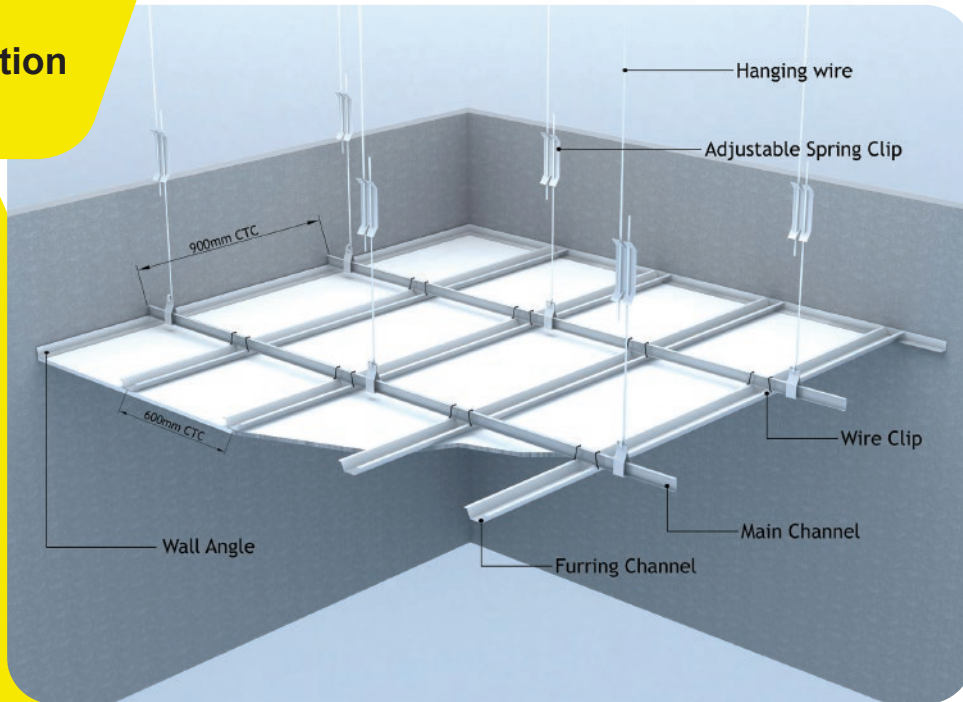
- Material : Extruded Aluminum Profiles, Alloy : 6063, Temper T 6
- Ultimate Tensile Strength (Mpa) :215 (min)
- 0.2 % Yield Strength (Mpa) :170 (min)
- Elongation % :06 (min)

- 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

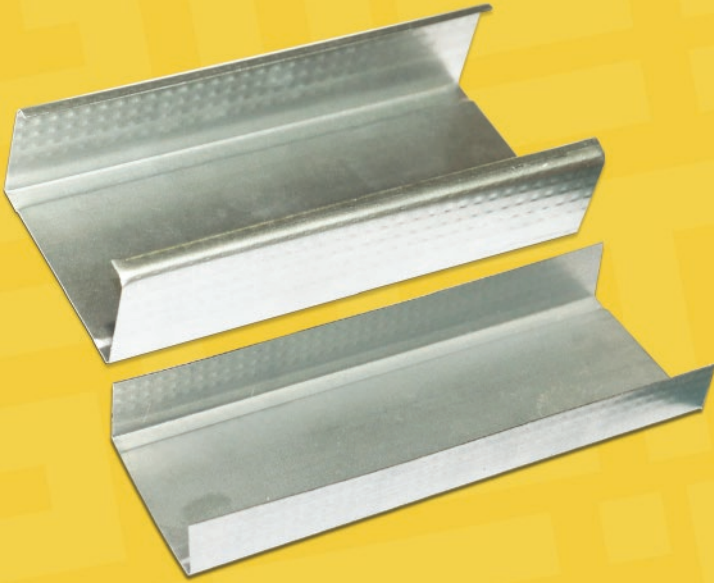
Fix joint fiber tape and finish with a joint compound to ready the ceiling for decoration.

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.



07

DRY WALL PARTITIONING SYSTEM

GTI Wall Solutions

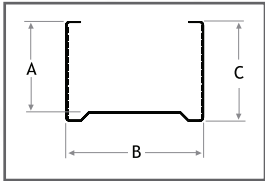
The GTI Drywall Partitioning System is a range of vertical metal studs combined with ceiling and floor tracks that form a frame onto which drywall or plasterboards can be placed. This stud and track system is available in several widths, and have been tested to meet fire, acoustic and structural standards. 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.



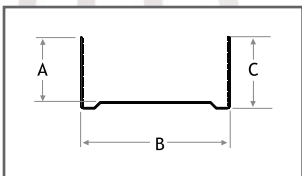
- Material Standard: Galvanized Iron-BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.
- Manufacturing Standard : BS EN 10162 : 2003 / BS EN 14195 : 2005
ASTM C645 / C645 M.
- Length can be made up to 13 Meters.
- Flange height can be made upto 50mm.



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.

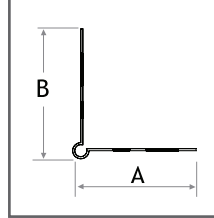


- Material Standard: Galvanized Iron-BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.
- Manufacturing Standard, : BS EN 10162 : 2003 / BS EN 14195 : 2005
ASTM C645 / CA645 M.
- Flange height can be made upto 50mm.

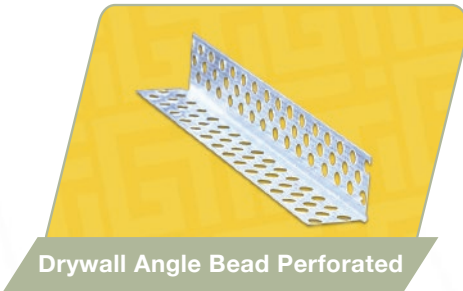


Reference	Dimensions	Thickness	Length	Material
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	A	B		
GTIDAB30	30	30	0.45	2400/3000mm Galvanized Iron (GI)

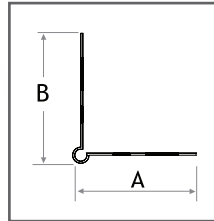


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



Reference	Dimensions	Thickness	Length	Material
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	A	B		
GTIDABP30	30	30	0.45	400/3000mm Galvanized Iron (GI)

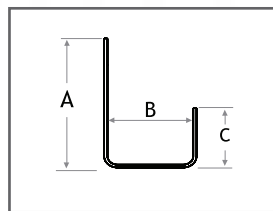


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN 10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



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)

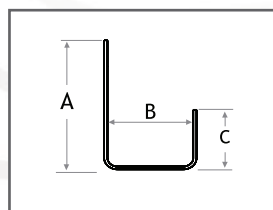


- Thicknesses and custom lengths are available upon request.
- Material Standard: Galvanized Iron (GI) - BS EN10346:2009 (formerly BS EN 10142:1991).
- Coating Type: as per ASTM A653 / A653M.



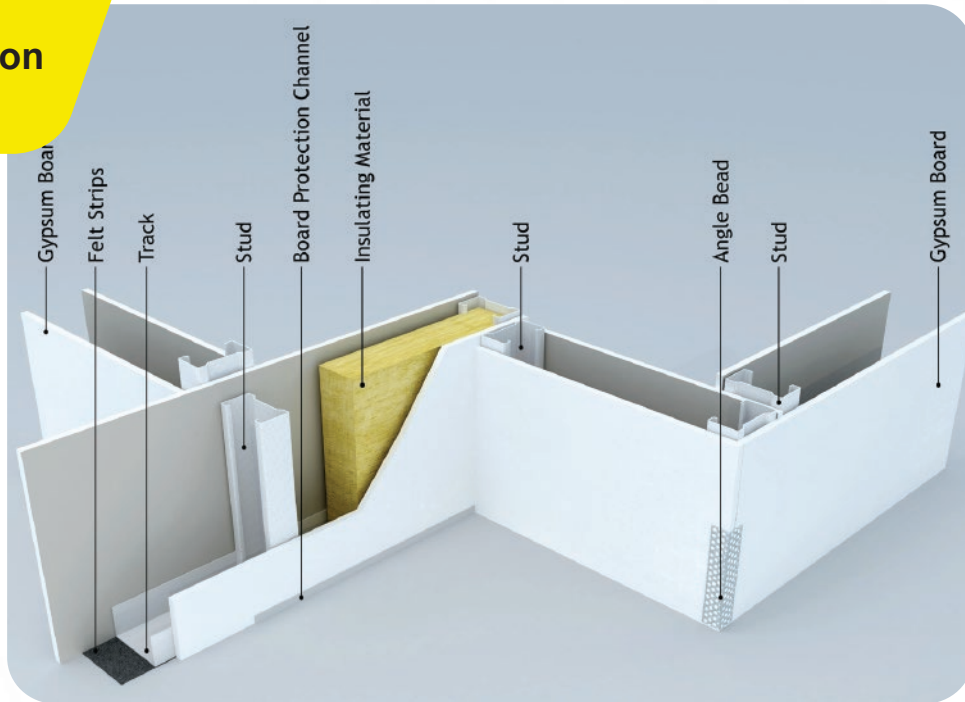
Reference	Dimensions	Thickness	Length	Material
-----------	------------	-----------	--------	----------

	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.

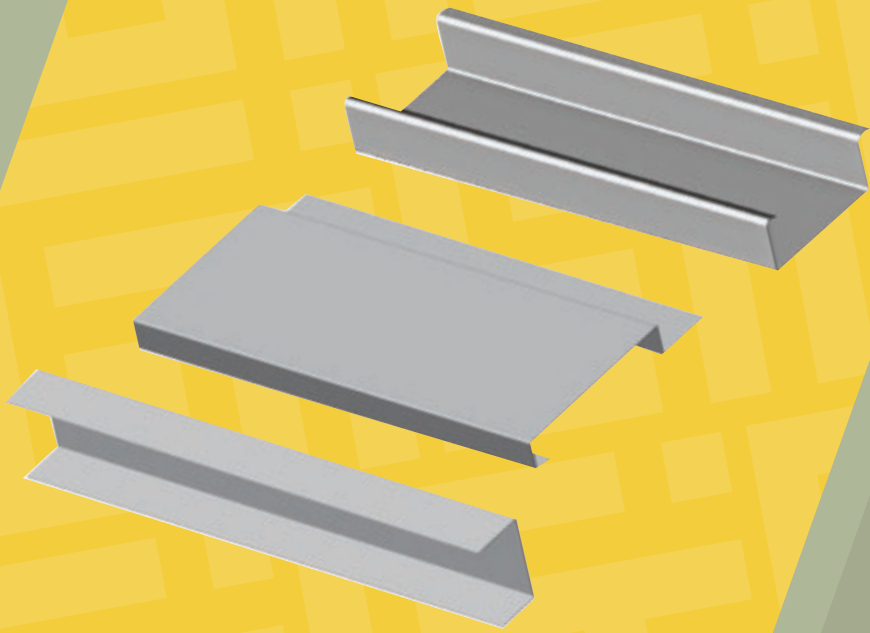
Step 4 - Install studs

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.



08

CEILING STRIP SYSTEMS

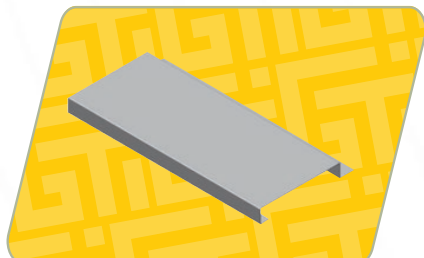
System Description

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

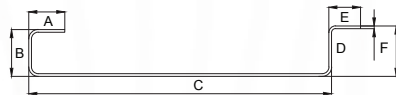
- Ceiling Strip with Butt Joint
- Ceiling Strip with Gap Joint
- Ceiling Strip Main Carrier
- Ceiling Strip Edge Trim

Type A. Ceiling Strip with Butt Joint



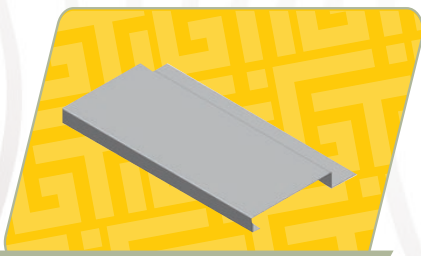
Ceiling Strip with Butt Joint
(Plain / Perforated)

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

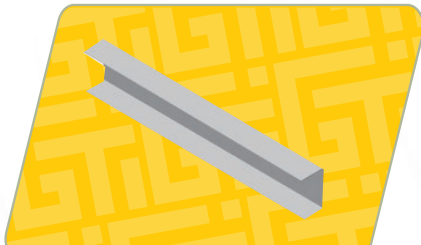


Ceiling Strip Carrier

Reference	Length
GTICSC	3000/4000mm

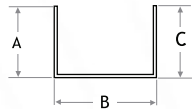
Material: Galvanized finish comply with ASTM A653M Standards
Special sizes are available upon request.
Custom length sizes are available upon request.
Standard length of 3000 mm to 4000 mm According to SAE/AISI or BS EN 42J
Indirect hung comply with ASTM C635M
Note: All dimensions are in mm.

Aluminium Edge Trim



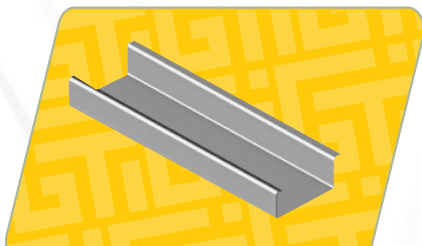
Aluminium Edge Trim

Reference	Dimensions	Thickness	Length
GTIET	A 20 B 20 C 20	0.6/0.7/0.8	3000mm



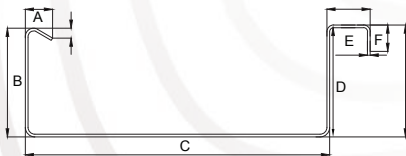
Polyester Coating Aluminium Edge Trim (U-Shape), same color finishing as the Strip Ceiling
Aluminium Alloy / temper: 3005-3105/H24
Standard ASTM B209 - M EURO NORMS: EN 1396
Custom Lengths are available upon request.
Note: All dimensions are in mm.

Self Supporting Ceiling Strip



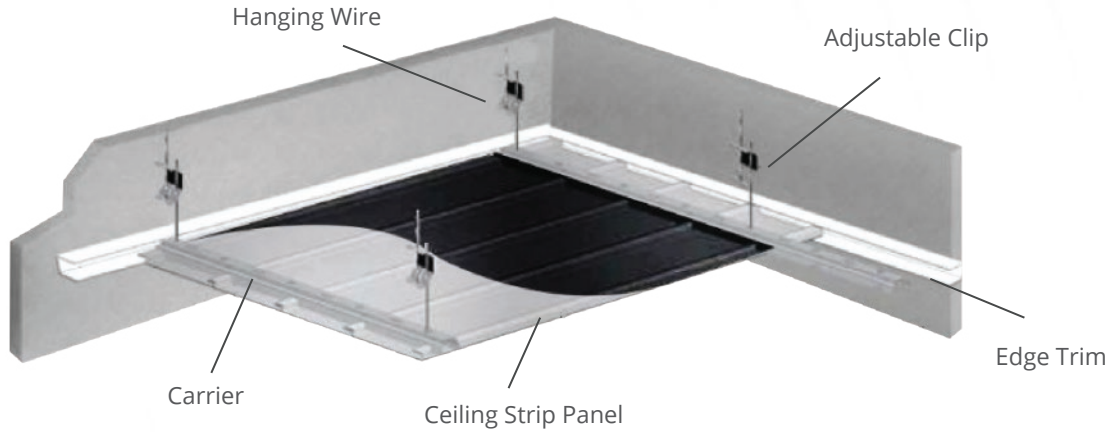
Self Supporting Ceiling Strip

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.

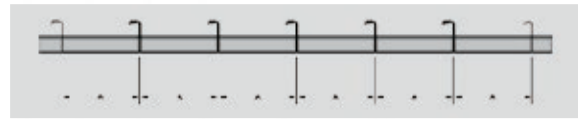
Ceiling Strip System - Installation Method



Self Supporting with Gap Joint

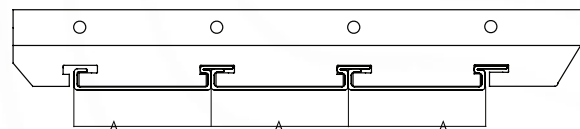


Self Supporting with Butt Joint



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.



09

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

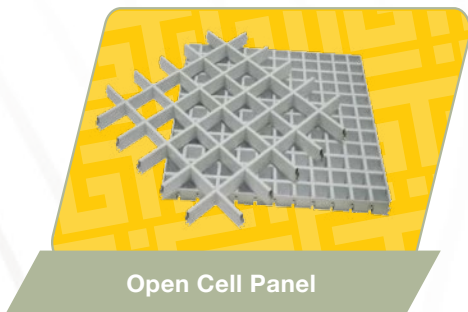
**Profile dimensions: 10mm width
50mm height**

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

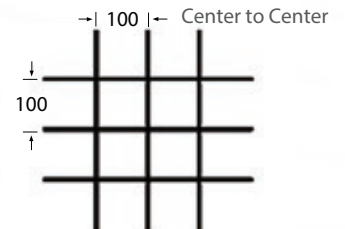
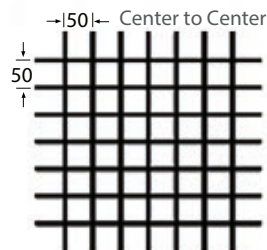
Polyester Coating: 5 μ (back) + 20 μ (face)



Open Cell Panel

Material Used: Aluminium

Note: All dimensions are in mm.



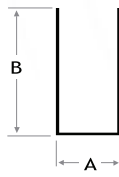
Description	Reference/ ID	Dimension	Thickenss	Cell Size	Height	Width
Open Cell 50	GTIOC 50-10	600x600 / 600x1200	0.4-0.6	50x50	40/50	10
Open Cell 75	GTIOC 75-10	600x600 / 600x1200	0.4-0.6	75x75	40/50	10
Open Cell 100	GTIOC 100-10	600x600 / 600x1200	0.4-0.6	100x100	40/50	10
Open Cell 120	GTIOC 120-10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

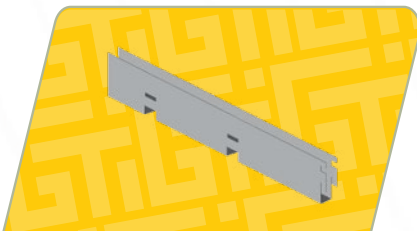


Open Cell Suspension



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

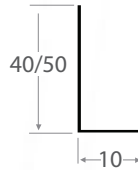
Description	Reference/ ID	Dimension	Thickenss	Length	Material
Open Cell Suspension Cross Tee	GTIOCS-CT 0.6 - 50/10	A B 10 40/50	0.4-0.6	600	Aluminium
Open Cell Suspension Cross Tee	GTIOCS-CT 1.2 - 50/10	10 40/50	0.4-0.6	1200	Aluminium
Open Cell Suspension Main Tee	GTIOCS-MT 1.8/2.4 - 50/10	10 40/50	0.4-0.6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



Open Cell Upper Blade

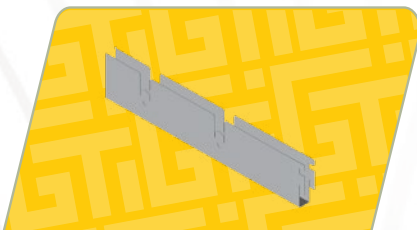
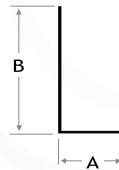
Reference/ ID	Dimension	Thickenss	Length	Material
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GTIOCUB0.6 10-50	A B 10 40/50	0.4-0.6	600	Aluminium
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Reference/ ID	Dimension	Thickenss	Length	Material
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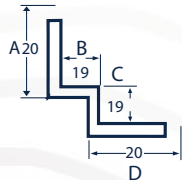
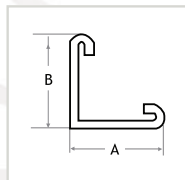
GTIOCLB 0.6 - 50/10	A B 10 40/50	0.4-0.6	600	Aluminium
GTIOCLB 1.2 - 50/10	10 40/50	0.4-0.6	1200	Aluminium



Open Cell Lower Blade

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

GTIOCEP 20/20	A B C D 20 20	0.45	3000	PPGI
GTIOCEP 20/19/19/20	20 19 19 20	0.45	3000	PPGI

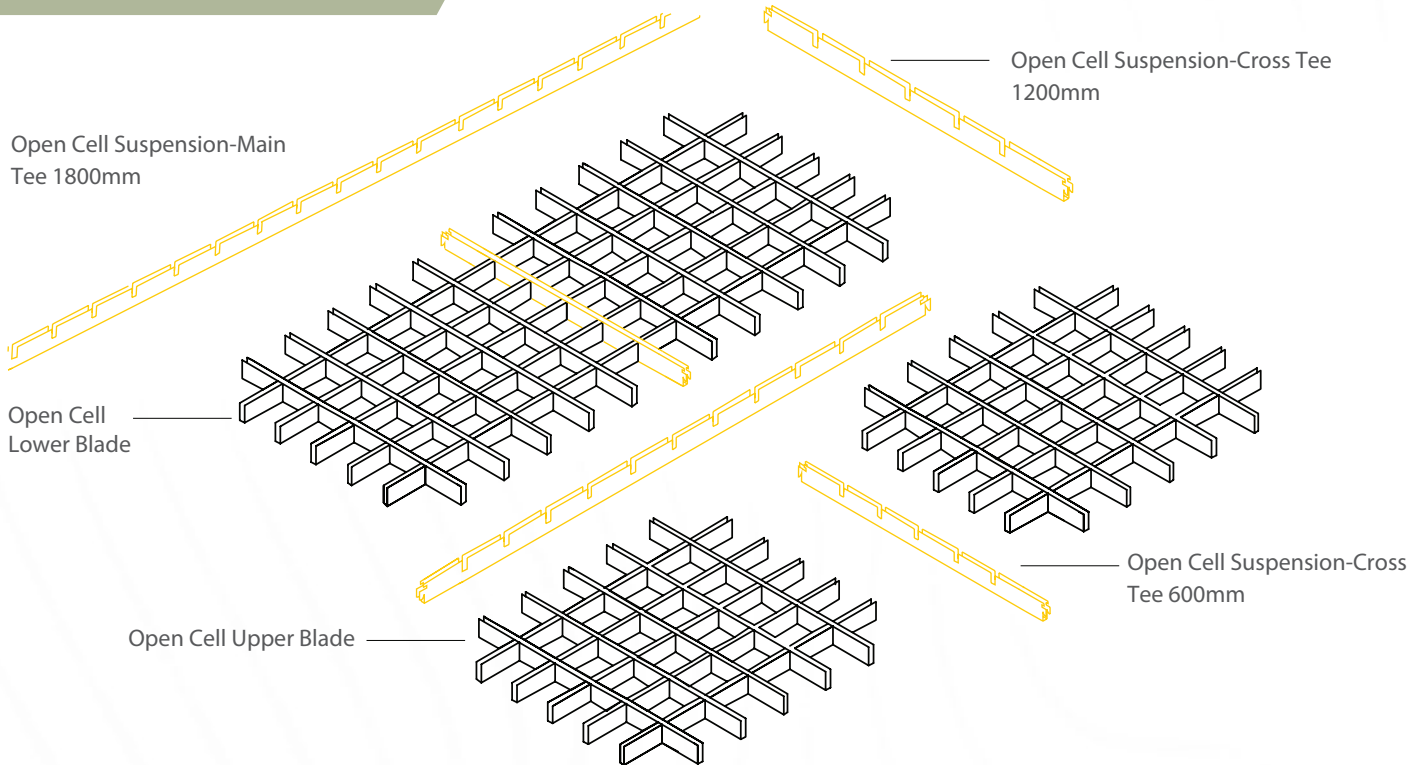


Galvanized Steel Prepainted Polyester Coating
Open Cell Angle, same color finishing as the tiles.



Open Cell Edge Profile

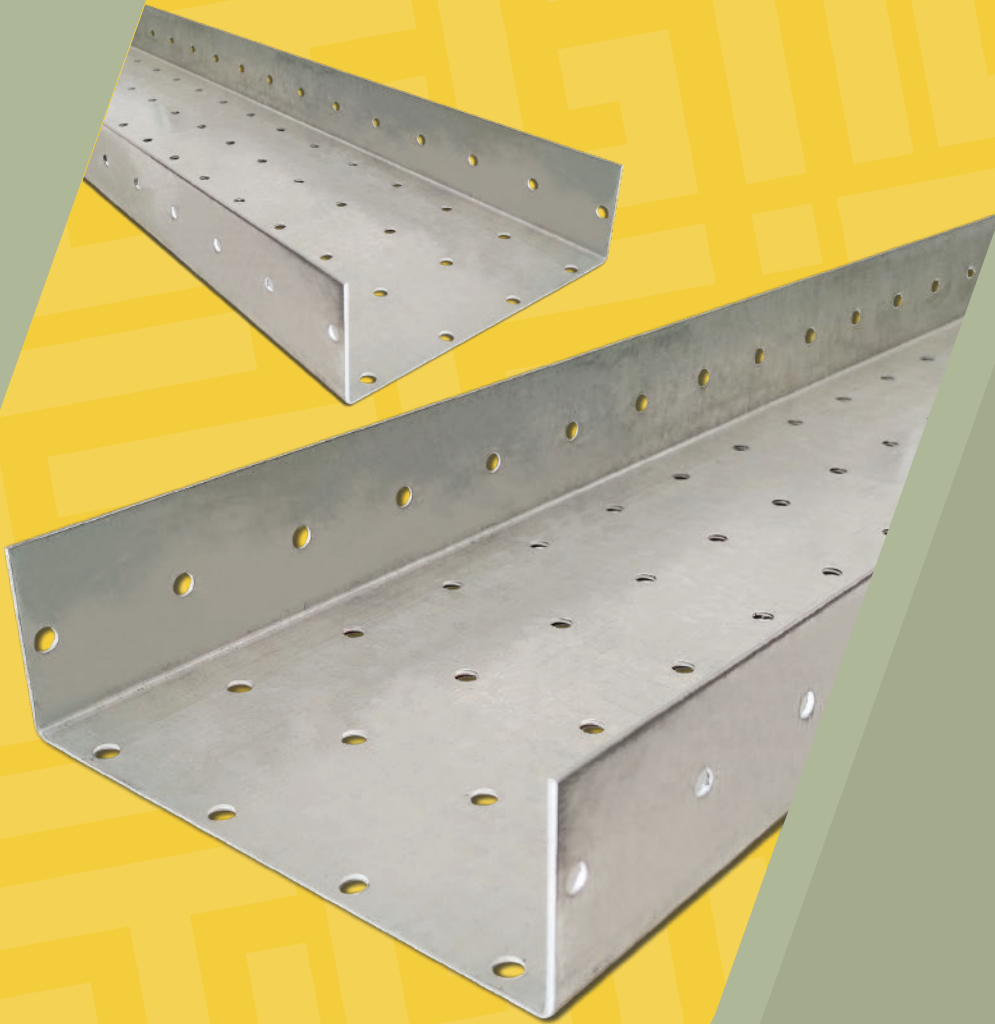
Installation Method



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

Installation Procedure:

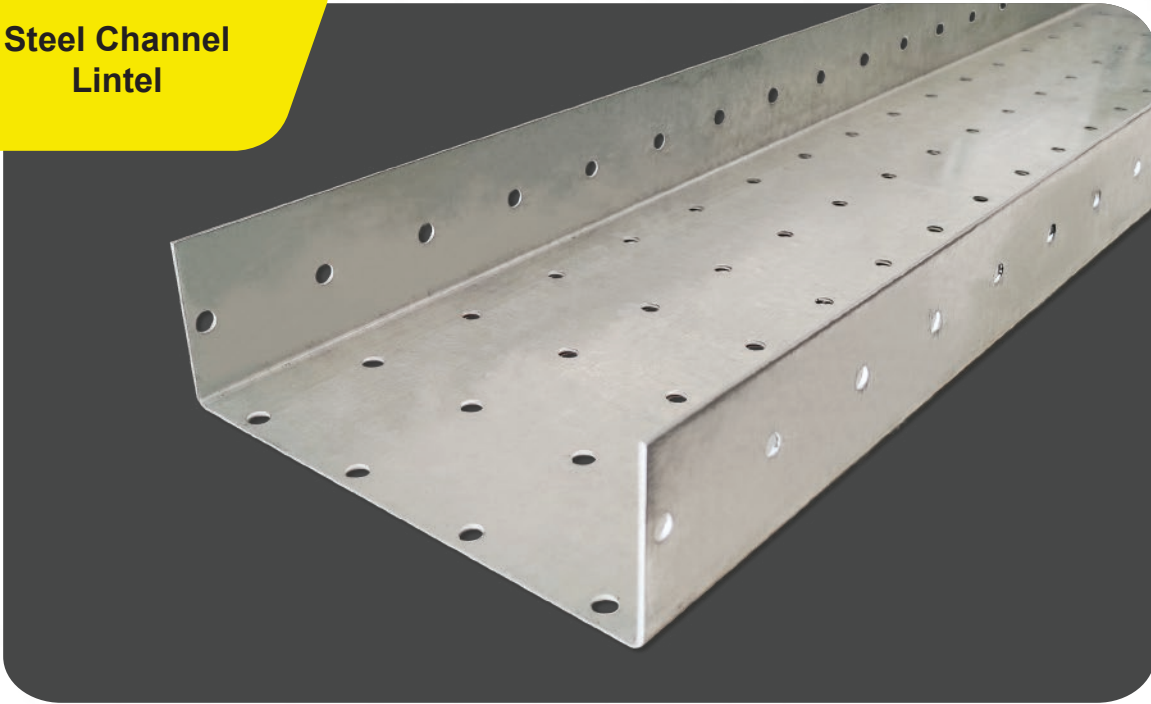
1. Level marking on walls using water level or laser method.
2. Fixing of Edge Profile with screws and nails on the wall.
3. Mark out & commence fixing of Grid Suspension System using:
 - GTIOCS 1800/2400mm to be installed at 1200mm distance between each other.
 - GTIOCS 1200mm to cross the GTIOCS 1800/2400mm 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.



10

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

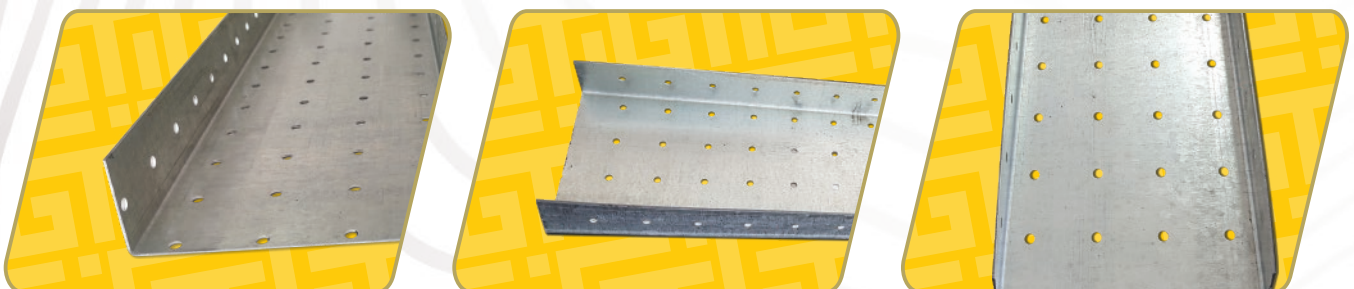
- Cold rolled steel DC01 as per EN 10130:2006/ASTM A 1008 CS Type A/B (formerly ASTM A-366)

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

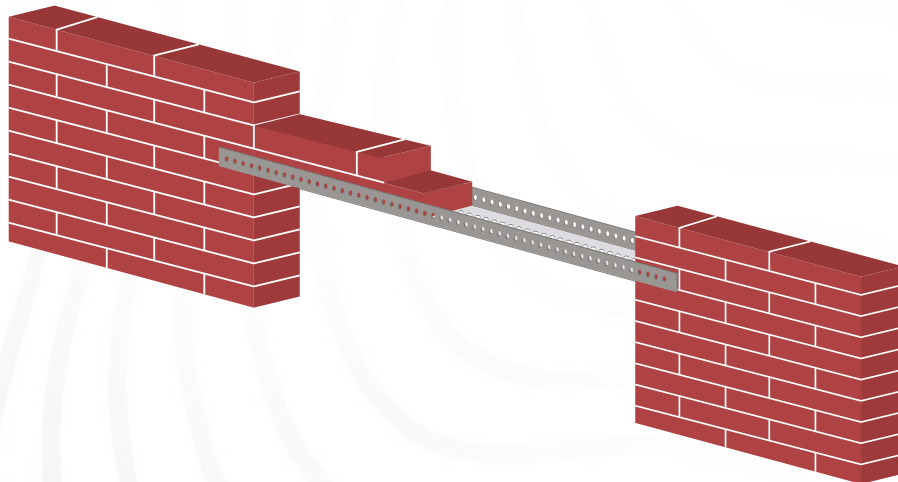
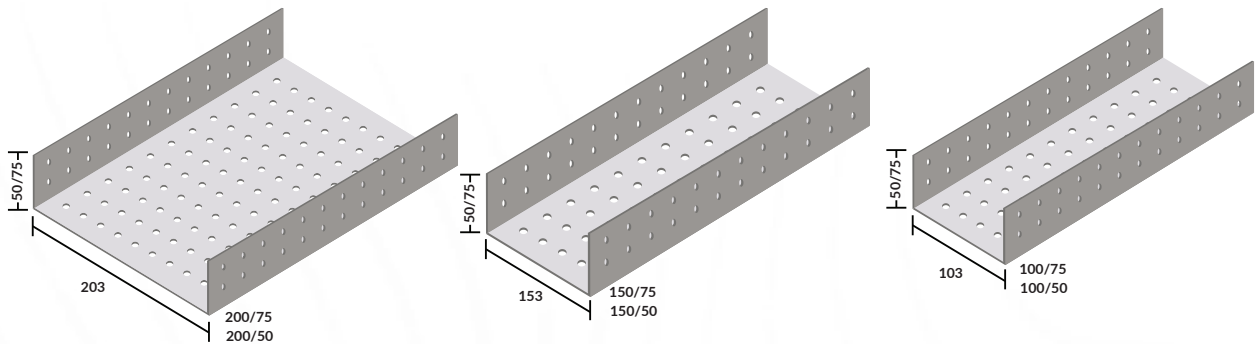
Installation:

- 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).



11

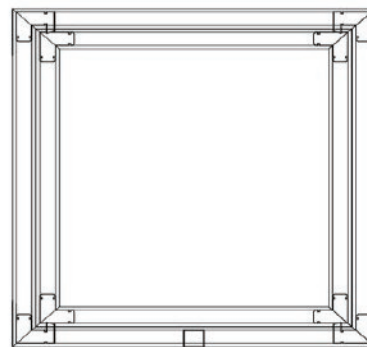
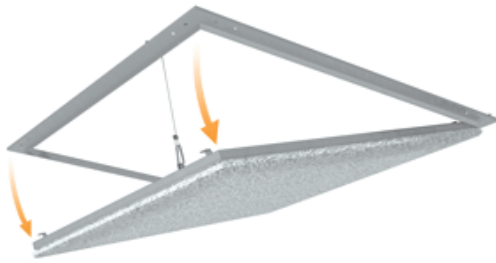
ACCESS PANEL

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

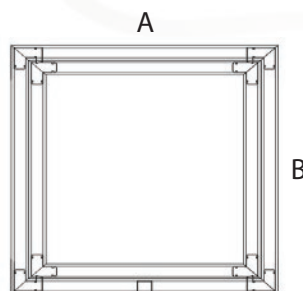
Comply to British Standards.

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

GTI GEMINI TECHNICAL INDUSTRIES
"Quality Above All"
UAE
صناعات الجيمني
MADE IN UAE



CONCEALED / CLIP-IN CEILING SYSTEM

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ACCESS PANEL

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EXPOSED / LAY-IN CEILING SYSTEM

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DRY WALL PARTITIONING SYSTEM

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STEEL CHANNEL LINTELS

www.gti-me.com

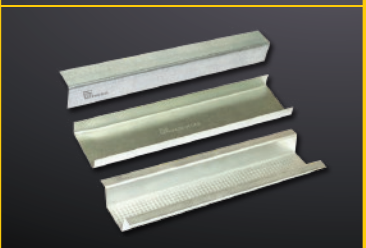
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T-GRID SUSPENSION SYSTEM

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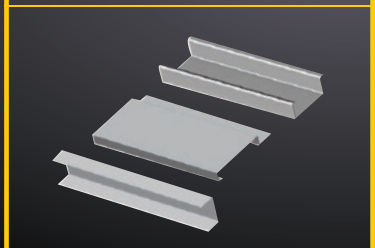
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FURRING CEILING SYSTEM

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STRIP CEILING SYSTEM

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EXPOSED / LAY-IN CEILING SYSTEM

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LAY-ON MESH CEILING

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LEED GREEN ASSOCIATE

At Gemini Technical Industries, we make a difference in the environment by ensuring our products and processes are contributing LEED-NC building requirements. With a lifespan of over 100 years and a recyclable content up to 90%, metal and profile are an aesthetically pleasing and environmentally friendly building material.

MR Credit 4.1 and 4.2
(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)

QUALITY, ENVIRONMENT AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM POLICY

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:



GTI GEMINI TECHNICAL INDUSTRIES



الهواصفات السعودية
Saudi Standards



إكسبو 2020
دبي، الإمارات العربية المتحدة
DUBAI, UNITED ARAB EMIRATES

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)



GTI GEMINI TECHNICAL INDUSTRIES

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