



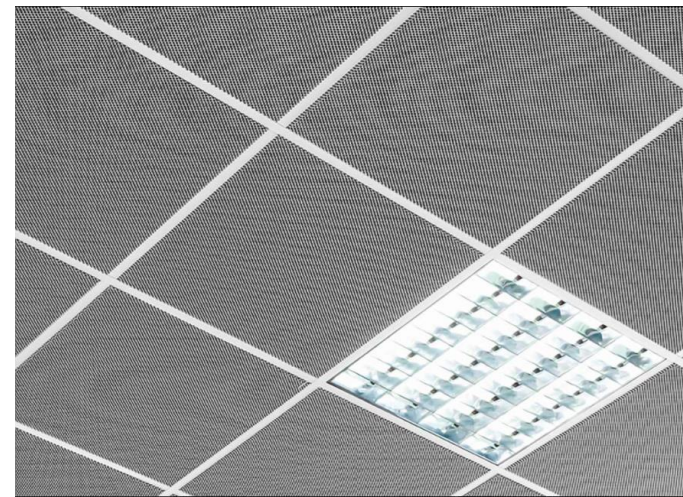
# GYPTTECH

*Converting your vision into solid reality*

**60X60 CEILING TILES TECHNICAL DATA**



## Lay In



# Lay In

The MATADOR™ lay-in tile is a provides an effective and economical solution to many ceiling requirements. It is the simplest and quickest product which can be installed, best suited when regular access is required. Installed by merely laying the tile onto the grid and removing by simply lifting the tile into the void space. This is also the tile that is most suitable for corridor application. This system creates a modular arrangement with the tiles with several grid designs to choose from: T-15 or T-24 grid; recessed or flat or the Eliteline grooved exposed grid.

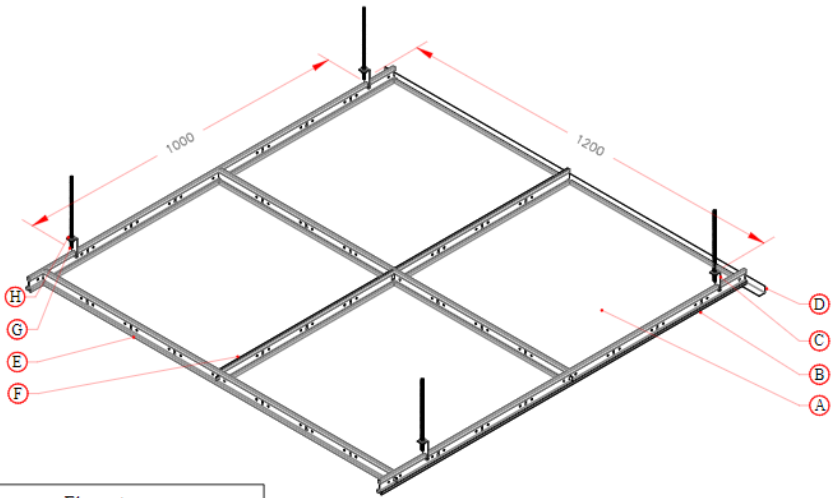
## SPECIFICATIONS

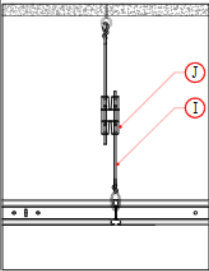
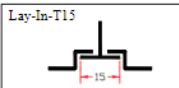
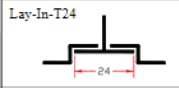
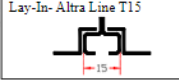
| RAW MATERIAL                                                                                                                                                                                                                                                                                                                                               | SIZES                                                                                                                                                                         | THICKNESS                                                                         | SURFACE FINISH                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Aluminium Alloy 3000 series complying with (ASTM B 209M) or Hot-dipped Galvanized Steel complying with ASTM A653; Zinc coating as per requested.                                                                                                                                                                                                           | 300 x 300 mm / 300 x 600 mm / 300 x 1200 mm / 300 x 1800 mm / 600 x 600 mm / 600 x 1200 mm / 600 x 1800 mm / 1200 x 1200 mm<br>+ custom sizes available upon request          | Aluminium: 0.5 – 0.8 and Galvanized Steel: 0.5 – 0.7                              | Plain or Perforated                                                                                           |
| Standard: Z120/G40                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                               |                                                                                   |                                                                                                               |
| INSULATION                                                                                                                                                                                                                                                                                                                                                 | COATING                                                                                                                                                                       | EDGE                                                                              | SUSPENSION                                                                                                    |
| Acoustic Black Fleece: Royalin®: Heat bonded nonwoven and non-flammable sound-absorbent acoustic black felt with surface-burning characteristics for flame-spread index = 5 and smoke-developed index = 25 as per ASTM E84.<br><br>Rockwool blocks: Conforming to ASTM C612 and equivalent BS 3958-5 are provided for acoustic insulation and fire hazard. | Polyester Coating: (5u (Back) + 20u (Face)). Polyester Powder Coating: (70u -80u)<br><br>High Performance Coatings like PESOF, PVDF and POLYAMIDE are available upon request. | Beveled or Square Edge with various drop appearances; Eliteline, Recessed or Flat | T-grid 15 or 24 mm which can be recessed or flat. Eliteline exposed modular system. Exposed Beam Grid system. |

## PERFORMANCE

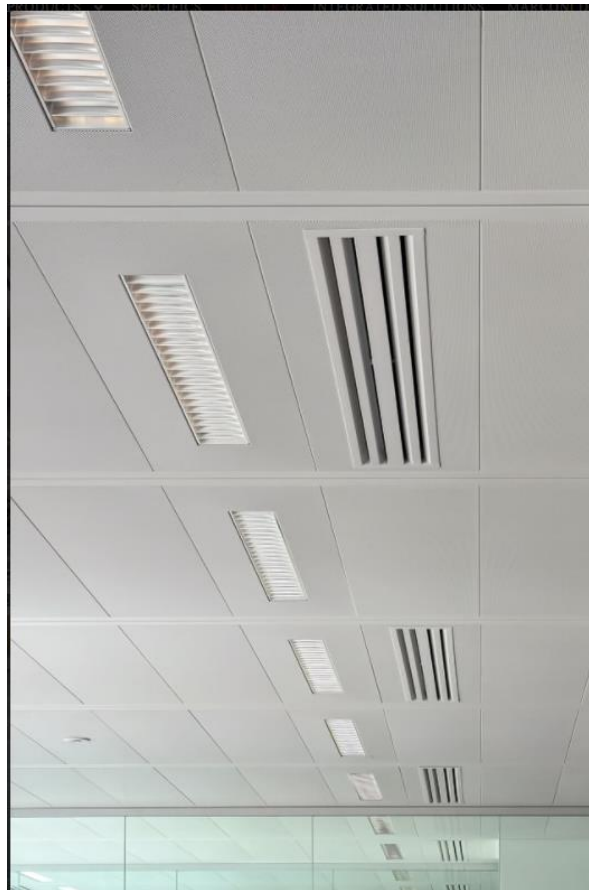
|                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>ACOUSTICS</b><br>Tested and compliant for noise reduction, sound absorption and sound attenuation.<br>Acoustic Black Fleece only: Maximum NRC = 0.80 as per ASTM C423.<br>DNCW = 46 as per BS EN 20140-9.<br>Acoustic Black Fleece with Rockwool as per ASTM C612 has a maximum NRC = 0.98.<br>Maximum CAC achieved: 46 db. |  <b>ANTI-BACTERIAL</b><br>Stove enameled finish with anti-bacterial properties that prohibits bacterial growth as per JIS Z2801:2000                             |  <b>FIRE PERFORMANCE</b><br>Non-Combustible as per BS 476: Part 6.<br>Class 1 Surface Spread of Flame as per BS 476 Part 7.<br>Black Fleece is Non-Flammable Class A as per ASTM E84. |
|  <b>LIGHT REFLECTANCE</b><br>The light reflectance of the ceiling is 0.85 and tested as per ASTM E 1477                                                                                                                                                                                                                       |  <b>HUMIDITY &amp; COROSION</b><br>Humidity Resistance = 95% as per ASTM D2477<br>Corrosion Resistance as per ASTM B 117-73, salt spray tested for 1000 hours. |  <b>LEED</b><br>Environmentally friendly material with processes contributing to LEED-NC building requirements                                                                      |

## TECHNICAL DRAWING



| Elements                                                                                                                                                                                                                                                                                                            | Hanging Options                                                                      | Carrier Types                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>A Lay-in Tile</li><li>B Main Runner</li><li>C Hanging Bracket</li><li>D Wall Trim</li><li>E Primary Cross Runner 1200mm</li><li>F Secondary Cross Runner 600mm</li><li>G Threaded Rod M6</li><li>H Nut &amp; Washer</li><li>I Hanging Wire</li><li>J Butterfly Clip</li></ul> |  | <br><br> |

## Tile Hook In



# CLIP-IN

The MATADOR™ clip-in tile is a classic false ceiling product which is simple and cost effective. They are Metal panels which are fully accessible with a concealed suspension System complying with ASTM E1264 Classifications. It offers a concealed appearance, downward accessibility along with exceptional acoustical properties. The tiles are leveled in the T-spring carrier via 'pip and stop' registers pressed into the tile's side flanges during manufacture.

## PERFORMANCE



### ACOUSTICS

Tested and compliant for noise reduction, sound absorption and sound attenuation.  
 Acoustic Black Fleece only: Maximum NRC = 0.80 as per ASTM C423.  
 DINCW = 46 as per BS EN 20140-9.  
 Acoustic Black Fleece with Rockwool as per ASTM C612 has a maximum NRC = 0.98.  
 Maximum CAC achieved: 46 db.



### ANTI-BACTERIAL

Stove enameled finish with anti-bacterial properties that prohibits bacterial growth as per JIS Z2801:2000



### FIRE PERFORMANCE

Non-Combustible as per BS 476: Part 6.  
 Class 1 Surface Spread of Flame as per BS 476 Part 7.  
 Black Fleece is Non-Flammable Class A as per ASTM E84.



### LIGHT REFLECTANCE

The light reflectance of the ceiling is 0.85 and tested as per ASTM E 1477



### HUMIDITY & COROSION

Humidity Resistance = 95% as per ASTM D2477  
 Corrosion Resistance as per ASTM B 117-73, salt spray tested for 1000 hours.



### LEED

Environmentally friendly material with processes contributing to LEED-NC building requirements

## SPECIFICATIONS

### RAW MATERIAL

Aluminium Alloy 3000 series complying with (ASTM B 209M) or  
 Hot-dipped Galvanized Steel complying with ASTM A653. Zinc coating as per requested.  
 Standard: Z120/G40

### SIZES

300 x 300 mm / 300 x 600 mm / 300 x 1200 mm  
 / 300 x 1800 mm / 600 x 600 mm / 600 x 1200 mm / 600 x 1800 mm / 1200 x 1200 mm  
 + custom sizes available upon request

### THICKNESS

Aluminium: 0.5 – 0.8 and  
 Galvanized Steel: 0.5 – 0.7

### SURFACE FINISH

Plain or Perforated

### INSULATION

Acoustic Black Fleece: Royalin®: Heat bonded nonwoven and non-flammable sound-absorbent acoustic black felt with surface-burning characteristics for flame-spread index = 5 and smoke-developed index = 25 as per ASTM E84.  
 Rockwool blocks: Conforming to ASTM C612 and equivalent BS 3958-5 are provided for acoustic insulation and fire hazard.

### COATING

Polyester Coating: Polyester Coating: (5u (Back) + 20u (Face)).  
 Polyester Powder Coating: (70u -80u)  
 High Performance Coatings like PESDF, PVDF and POLYAMIDE are available upon request.

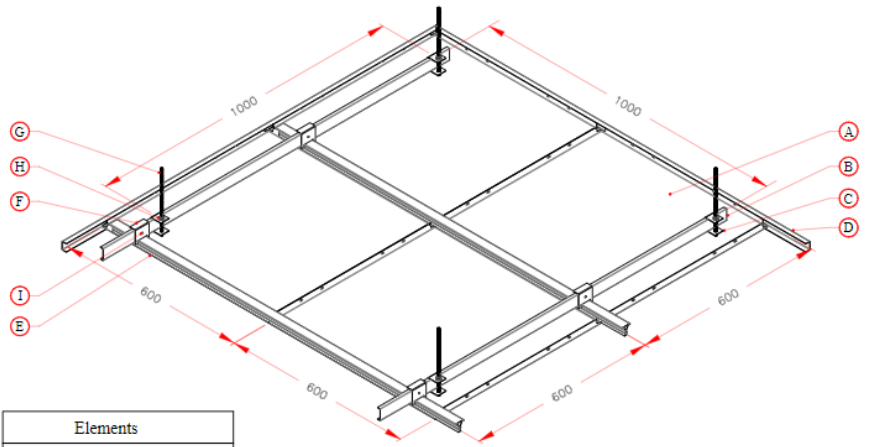
### EDGE

Beveled or Square Edge

### SUSPENSION

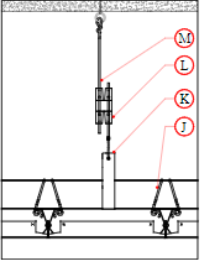
T-spring or A-spring

## TECHNICAL DRAWING

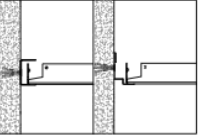


| Elements               |
|------------------------|
| A Clip-In Tile         |
| B Main Channel         |
| C Main Channel Bracket |
| D Wall Trim            |
| E 'T' Spring           |
| F Cross Connector      |
| G Threaded Rod M6      |
| H Nut & Washer         |
| I Self Drilling Screw  |
| J Coupling Clip        |
| K M.C Hanging Bracket  |
| L Butterfly Clip       |
| M Hanging Wire         |

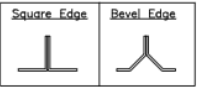
### Hanging Options



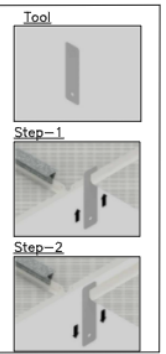
### Wall Trim Type



### Tile Edge Type



### Dismantling Method



Supplier Part Number:

ST101-6060

Product:

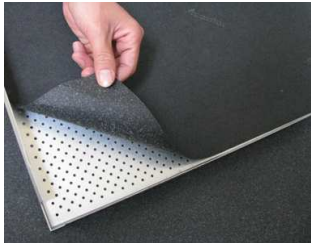
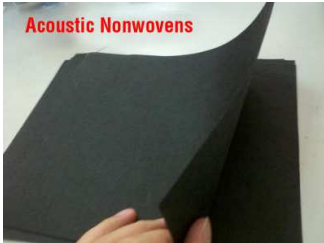
Matador Perforated Metal Ceiling Tiles 600x600mm

Saudi Aramco PA #:

4600032287



|             |                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brand       | Matador MC-TS                                                                                                                                                                                  |
| System      | Acoustic Clip-in Concealed Metal Ceiling Tile System laid on fully Accessible Heavy Duty Rigid Concealed Suspension System complying with ASTM E1264 Classification                            |
| Material    | Galvanized Mild Steel 0.6mm complying with ASTM A653                                                                                                                                           |
| Texture     | Flat smooth surface without blemishes, roller marks, roughness, or stains                                                                                                                      |
| Module Size | 600mm W x 600mm L                                                                                                                                                                              |
| Colour      | Pure White RAL9010 (20% Glossy)                                                                                                                                                                |
| Edge Detail | Beveled Edge                                                                                              |
| Coating     | Tough and durable Z-layer polyester powder coat in a nominal thickness of 80 microns applied after manufacturing to cover all exposed edges and ensuring uniform coating and absolute adhesion |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Surface Pattern</b>         | Perforated 1.8mm dia. hole                                                                                                                                                                                                                                                                                                                                                                                     |    |
| <b>Acoustic Felt</b>           | <p>Factory applied sound-absorbent <b>Acoustic Felt</b> with surface-burning characteristics (flame-spread index = 5 ; smoke developed index = 10) tested in accordance with ASTM E84. Nonwoven and non-flammable product</p> <div>   </div> |                                                                                     |
| <b>Encapsulated Insulation</b> | Rockwool acoustic insulation pad 25mm thick by 60kg/m3 density wrapped in poly bays laid inside the ceiling tiles upon installation                                                                                                                                                                                                                                                                            |    |
| <b>Anti-bacterial</b>          | Anti-bacterial paint for the reduction of microbial growth on the ceiling surface tested in accordance with JIS Z2801:2000                                                                                                                                                                                                                                                                                     |    |
| <b>Light Reflectance</b>       | LR = 85% (ASTM E 1477)                                                                                                                                                                                                                                                                                                                                                                                         |   |
| <b>Sound Absorption</b>        | NRC = 0.90 (ASTM C423)                                                                                                                                                                                                                                                                                                                                                                                         |  |
| <b>Fire Classification</b>     | Class 1 Surface Spread of Flame (BS 476 Part 7)                                                                                                                                                                                                                                                                                                                                                                |  |
| <b>Fire Behaviour</b>          | Class A (ASTM E84)                                                                                                                                                                                                                                                                                                                                                                                             |  |

|                             |                                                                                                                                                                                          |                                                                                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Humidity Resistance</b>  | HR = 95% (ASTM D2247)                                                                                                                                                                    |  |
| <b>Corrosion Resistance</b> | Salt Spray tested for 1000 hours (ASTM B 117-73)                                                                                                                                         |  |
| <b>Environmental</b>        | 100% Recyclable                                                                                                                                                                          |  |
| <b>Green Material</b>       | Environmentally friendly material with processes contributing to LEED-NC building requirements                                                                                           |  |
| <b>Washable</b>             | By applying any household mild detergent like soap or window cleaner on the ceiling surface then wiping it with a clean soft cloth                                                       |                                                                                     |
| <b>Services</b>             | Integration of services fittings such as lighting, A/C grills, diffusers, speakers etc. can be easily integrated into the system and independently supported and levelled to the ceiling |                                                                                     |
| <b>Warranty</b>             | 10 Years against any manufacturing defects including corrosion, painting de-lamination and blistering. Our warranty covers the ceiling metal panels and suspension components            |                                                                                     |



## CONCEALED SUSPENSION SYSTEM

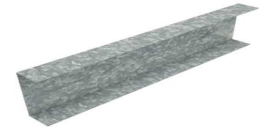


### Accessories

**A. Tee Spring:** Primary grid T-shaped sized 31mm x 29mm x 4000mm length manufactured from hot dipped galvanized steel ASTM A653 not less than Z120 zinc coating in a nominal thickness 0.5mm complying with ASTM C 635



**B. Main Channel:** Secondary grid C-shaped sized 12mm x 38mm x 3000mm length manufactured from hot dipped galvanized steel ASTM A653 not less than Z120 zinc coating in a nominal thickness 0.5mm complying with ASTM C 635



**C. Perimeter Edge Trim:** Wall Edge Trim C-shaped sized 15mm x 38mm x 3000mm length manufactured of same metal and finish as per the tile

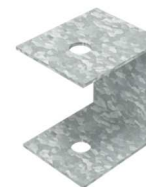


## Accessories

**D. Cross Connector Clip:** T-type sized 0.90mm 50mm x 45mm, manufactured from hot dipped galvanized steel ASTM A653 not less than Z120 zinc coating in a nominal thickness 0.9mm complying with ASTM C 635



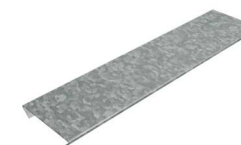
**E. Rapid Hanger:** C-type 30mm x 40mm manufactured from hot dipped galvanized steel ASTM A653 not less than Z120 zinc coating in a nominal thickness 0.5mm complying with ASTM C 635



**F. Threaded Rod:** M6 threaded rod hangers with two sets of M6 nuts and washers. Rods are fitted into the Rapid Hangers and secured by nuts.



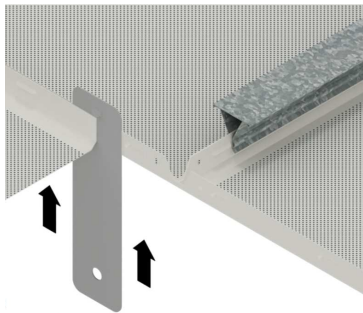
**G. Splice:** Sized 34mm x 120mm for joining two Tee Springs when the length is more than 4mtr, manufactured from hot dipped galvanized steel complies with ASTM A653 with zinc coating Z120 in a nominal thickness 0.6mm complying with ASTM C 635



## DISMANTLING METHOD

The method of extracting Matador Clip-In tiles using the key tool is as follows:

1. Establish the direction of the spring tee. Where rectangular tiles are used, the spring tee normally runs along the short sides of the tile. For square tiles the spring tee generally runs length ways down the room.
2. Insert the key at a slight angle between the tile joints, approximately 50mm from the tile corner, with the hook of the key facing the tile to be removed.



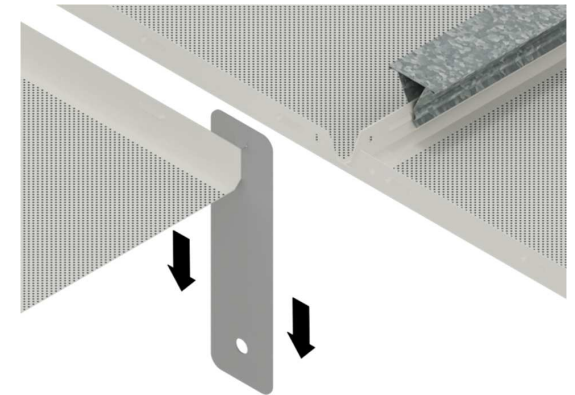
3. Push in the key until it touches the top of the spring tee section. Move the handle to the vertical position. You should hear the hook click over the top of the tile flange.

4. Pull down the key against the top section by moving the handle to an angle and the tile should start to come out. A 5 or 6mm movement will free the pip from the bulb of the tee. Repeat the process on the parallel corner of the tile. The tile can now be removed in a controlled manner. With longer planks you may require the assistance of a second person.

5. To replace the tile, offer the edge of the piped and stopped flange of the tile into the spring tee. Working at the corners push the tile into the spring tee until the pip engages into the bulb of the tee.

N.B. To avoid finger marks it is recommended that a pair of clean cotton gloves be used for the above maintenance operations.

Removing and reinstalling the ceilings should only be effected by companies specialized in ceiling installations



## METHOD OF STATEMENT

### 1. PANEL CLEANING

It is difficult to give a specific time scale for cleaning metal ceilings as so much depends on the environment and type of activity in the area.

- In office areas a twelve-month period would generally be considered adequate.
- Kitchen areas, depending on the degree of exposure, may demand a three month interval.

Generally we would not recommend cleaning perforated panels as wiping a cloth over the surface may drag dirt and dust through the perforations from the rear face of the tile creating a bearding effect. It may be required to clean both front and back of the panels to eliminate this problem.

### 2. METHOD OF CLEANING

The following method of cleaning is suggested:

- a. Add some all-purpose liquid cleaner to a bucket of hot water.
  - b. Immerse clean soft cloth and wring out (the cloth should be damp only).
  - c. Wipe entire surface area of the tile. Do not attempt to cover large areas without continually rinsing cloth.
  - d. Wipe over with chamois leather.
- Cleaning can be effected by spraying or applying any household mild detergent, soap or window cleaner on the ceiling surface.
  - Do not use thinner / turpentine OR similar chemicals, as it will damage the finish.
  - For heavy smoke stains, steam cleaning is recommended to be applied by a specialist ceiling cleaning company.

### 3. SITE STORAGE

- All Matador standard tiles are packed in cartons, which must be stored no more than four cartons high. They must be stacked the correct way up (i.e same direction as the label, upright) and must be kept in a dry storage area.
- Particular care should be taken when moving cartons by hand. Weights of cartons vary depending upon ceiling types and sizes, therefore some cartons will require more than one person to carry them.

#### 4. HANDLING

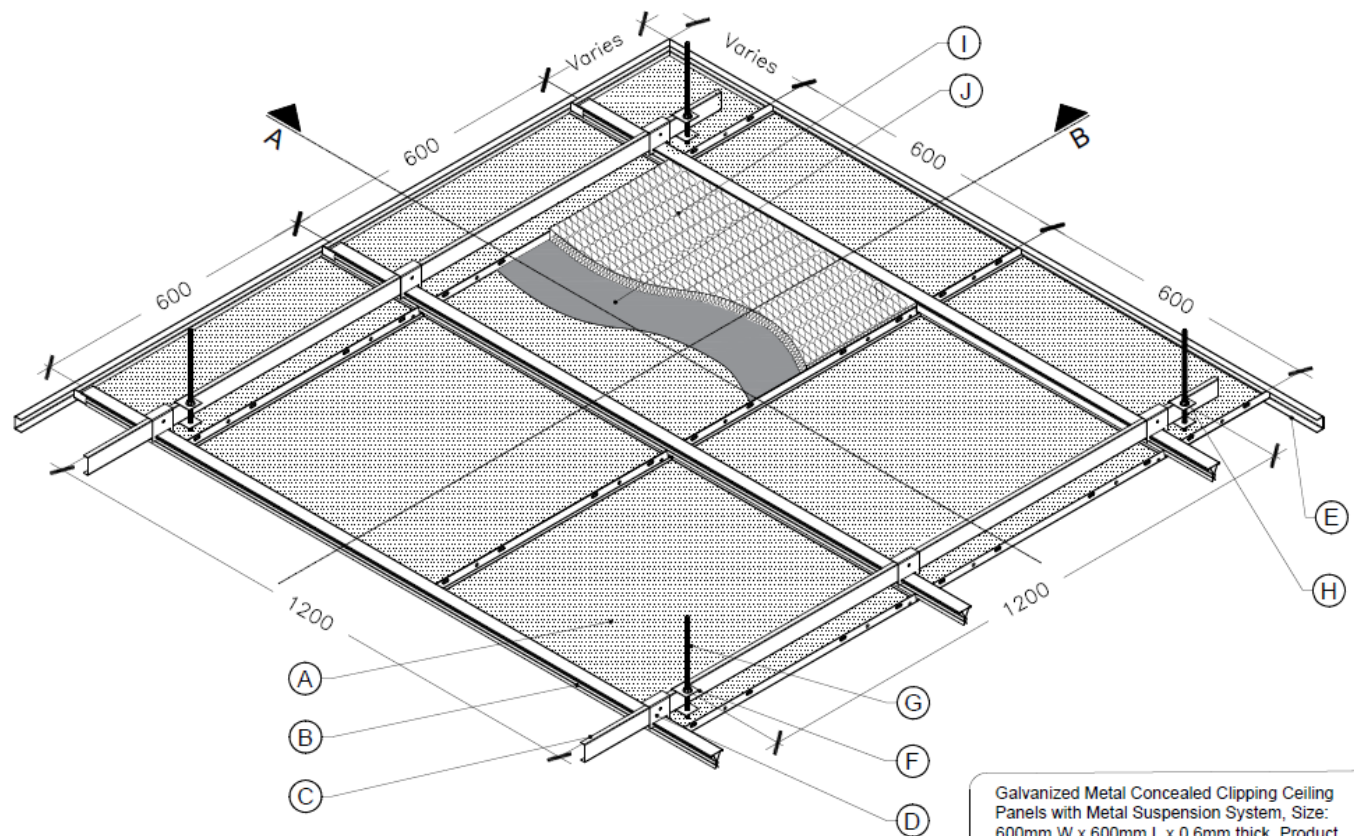
- Immediately after installation of the ceiling we would recommend that any dirt or finger marks be removed with a clean dry cloth.
- Particular care should be taken with low gloss panels, as finger marks are more difficult to remove. Gloves are recommended for installation of these panels.
- Care should be taken when handling cut panels and grid work where sharp edges may be left.

#### 5. CUTTING PANELS ON SITE

When panels are required to be cut to length/width for trimming or have holes cut into them to accommodate service ducts or fittings the following procedure is recommended:

- a. The area of the panels painted surface that requires cutting should have masking tape applied onto which the line of the cut should be marked. Care should be taken to avoid excessive tape application beyond the extremes of the line of cut.
- b. The cut, where possible, should be made with a proprietary electric shear cutter or hand scissor shears ensuring that the cutting blade is sharp and fit for the purpose.
- c. Where circular holes are required to be cut into the face of the panel this should be carried out using a series of chain drilled holes to minimize the distortion along the cutting line. Care should be taken to support the face of the panel (inside surface) to avoid distortion of the face of the tile.
- d. When cutting square or rectangular holes in the face a panel it is advisable to drill a hole at each corner of the proposed opening.
- e. All cutting/drilling should be carried out working on the painted face of the panel, which should be adequately supported during this operation.
- f. After completing the cut out the face of the cut should be filed /dressed to remove any burrs or high points prior to the masking tape being removed and any residue of the tape cleaned off the face of the panel.

This advice is offered in good faith but the responsibility to ensure a good “fit for the purpose cut” is achieved remains the responsibility of the ceiling contractor on site.



**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE STATED

**NOTES:**

- (A) Matador Steel Perforated Clip-In Panel 600x600mm
- (B) Tee Spring
- (C) Main Channel
- (D) Cross Connector Clip
- (E) Perimeter Edge Trim
- (F) Rapid Hanger
- (G) Threaded Rod (By Others)
- (H) Nuts & Washer Sets (By Others)
- (I) Rockwool 25mm Thick x 80kg/m3 Density
- (J) Acoustic Black felt

**Supplier Part Number:**

ST101-6060

**Consultant:**

**Client:**

Saudi Arabian Oil Company (SAUDI ARAMCO)

**Contractor:**

Building Technology Limited Company

**Drawing Title:**

Matador Perforated Metal Ceiling  
Tiles 600x600mm  
(Isometric View)

GYPTTECH

DRAWING CAD NO.: M/M-SA-SD-001A

Date:

13-02-21

Scale:

NTS

Revision:

00

Galvanized Metal Concealed Clipping Ceiling  
Panels with Metal Suspension System, Size:  
600mm W x 600mm L x 0.6mm thick, Product  
Type: Clip-In, Color: White, Material: Steel,  
Coating: Powder Coated, Insulation: Acoustic  
Black Felt and Rockwool mineral infill 25mm thick  
by 80kg/m2 density, Surface: Perforated