MARCONI
METAL INDUSTRIES

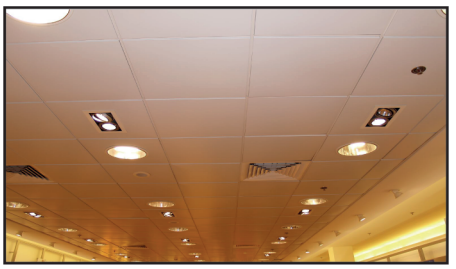
مـــاركـونـــي
للصناعـات المعدنيـة

ML-TS MATADOR LAY-IN TILE SYSTEM

Description

MATADOR Lay-in Tile System ML-TS provides an effective and economical solution to many ceiling requirements. It can be quickly installed by interlocking the grid systems with our accurate and durable press-formed tiles. This system creates a modular arrangement with the tiles laying into the chosen grid, 15T or 24T or Ultraline grooved exposed grid. The ceiling tiles can be flush with the grid or recessed to give a tegular effect with a square edge.
MATADOR Lay-in Tile System is an ideal option for refurbishment and integration with other systems. It offers an easy access to services by simply lifting the tile into the void space. The Lay-in System can accommodate a variety of standard tile sizes which are offered in Plain or Perforated with a comprehensive range of colours and perforation patterns.





Features

- Choice in grids
- Tiles can be simply removed
- Various design options
- Lights and grilles easily integrated
- Rapid Installation
- 25 Years product life span
- Environmentally friendly, recyclable product

Application

MATADOR Lay-in Tiles are particularly useful for schools, residential buildings, commercial offices, laboratories and banks. The Lay-in Aluminium Tiles are suitable for wet areas such as toilets, kitchens, pantries,etc.



Raw Material

MATADOR Lay-in Tiles are made of naturally strong light-weight aluminium, zinc coated steel or stainless steel, pre-painted and treated for long life, rust-free performance, fire and moisture resistance. Our raw material are mainly supplied from Germany, Italy and Korea.

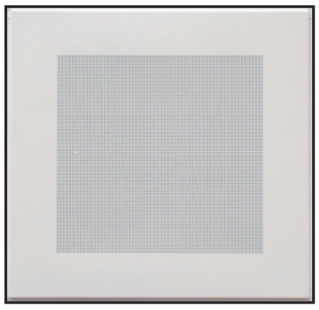
- **Aluminum:** Coil coated or mill finish as per Alloy 3005 or 3105 complying with ASTM B209M
- **Steel:** Hot-dip galvanized zinc coated complying with ASTM A653
- **Stainless Steel:** Mirror or Brush finish in Grade 304 or 316

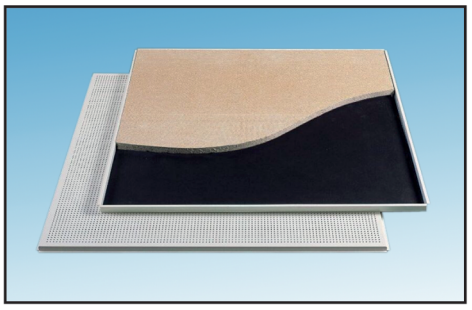
Surface Quality

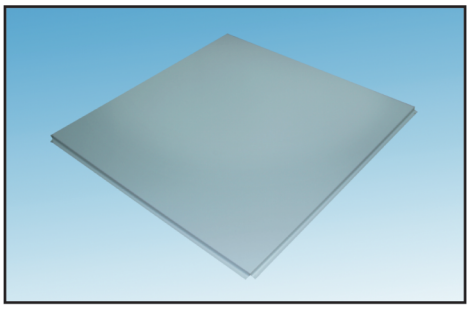
MATADOR metal sheet surface is flat, smooth and without blemishes. The top face is free from any imperfection which effects the aesthetic appearance of the ceiling (i.e. orange peel effect, gloss stripes, scratches, dirt, etc.)

Sizes

The most popular tile sizes are available: 300x600mm / 300x1200mm / 600x600mm / 600x1200mm
Other sizes can be produced upon request.


Perforated Tile 600x600mm


Acoustic Layin Tile 600x600mm

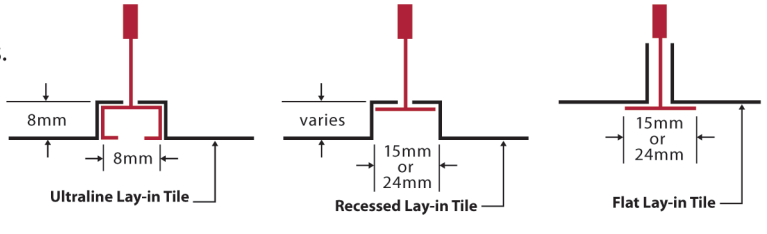

Plain Layin Tile 600x600mm

Edge Details

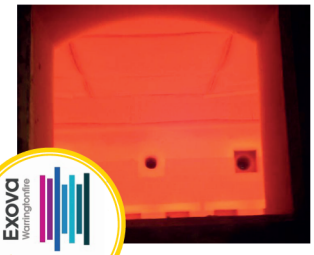
Tiles are supplied in square tegular edge with various drops.

Thickness

0.50mm / 0.60mm / 0.70mm (standard)
0.80mm / 0.90mm / 1.00mm (special arrangement)
Thickness depends on tile type, size and configuration.

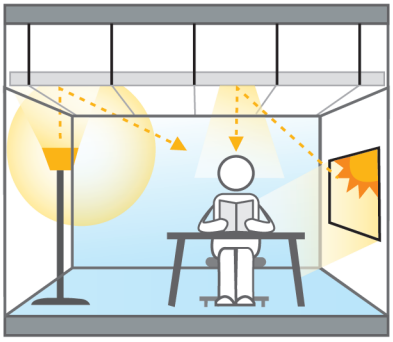


Fire Rating



MATADOR Lay-in Tile is classified as non-combustible product achieving Class 0 surface of material as defined in the "Fire Safety" Building Regulations UK 1991. Our powder coated aluminium and steel material has been tested in Warringtonfire UK, the results obtained were as follows:
BS 476: Part 6 Fire Propagation index, 1=0.1; subindex, i_1 = 0.0; subindex, i_2 = 0.1; and subindex, i_3=0.0
BS 476: Part 7 Class 1 surface spread of flame
This result is equivalent to Class A in accordance with **ASTM E84** the standard test method for Surface Burning Characteristics of Building Materials.
Addtionally, MARCONI has released fire rated ceiling system for projects with high requirement for fire resistance. The fire rated panels were designed to achieve more than 1 hour fire resistance in accordance with **BS 476: Part 23**

Light Reflectance



The amount of light reflected by any ceiling can contribute to reduce lighting costs. Matador Metal Ceiling Tiles are developed and tested for light reflectance in accordance with ASTM E1477. The LR factor obtained was 0.85 for our standard white colour. Hence the tile can reflect 85% of the light that strikes its surface. Such efficiency brings in natural daylight and extends artificial lighting deeper into the area, creating more enjoyable work space and reducing energy consumption and cost.

Method Statement

1. Cleaning: Dust should be removed from the painted surfaces by wiping with a clean soft cloth. Grease and fingerprints should be removed with a mild household cleaner suitable for painted surfaces. Do not use abrasive cleansers or scrub the surface.
2. Maintenance: To avoid finger marks it is recommended that a pair of clean cotton gloves be used for the maintenance operations. Removing and reinstalling the ceilings should only be effected by companies specialized in ceiling installations.
3. Storage & Handling: Ceiling components should be stored in a dry interior location and should remain in cartons until installation. Cartons should be stacked and oriented as shown on the carton. Care must be exercised during handling and opening of cartons to avoid damage.
4. Field Cutting: Tiles can be cut using tin snips, electric sheet metal shears or band. Care must be exercised to avoid damage to the painted surface, bending or distortion of the tiles.
5. Dismantling: Matador Lay-in Tiles can be easily demounted without the need of tool by lifting up the tile to gain access to the plenum.

Leed Statement

MARCONI has long designed and manufactured its ceiling systems to follow the principles of sustainability and indoor environmental quality. We have the experience, the knowledge and the products. Our key environmental programs and features:

A. Our factory qualifies an environmental facility since our premises has been tested and approved by the Green Crescent Environmental Engineering Consultant in U.A.E. They monitored the Air Quality and estimated the Particular Matter that may be emitted from machineries and powered equipments within the workplace.

B. Our material is Eco-friendly and contributing to LEED-NC building requirements:

MR Credit 2.1 and 2.2	Matador metal ceiling tiles require little or no field cutting, significantly reducing scrap.
MR Credit 4.1 and 4.2	Matador metal ceilings contain from 70% to 95% recycled content. Approximately 50% is post- consumer.
EQ Credit 3.1 and 3.2	Matador metal ceiling tiles have no reportable VOC's.
EA Credit 1	Matador metal ceiling tiles may have a light reflectance of (LR) 0.85 which may contribute to energy savings.

Quality Standard

MARCONI is a certified ISO 9001:2008 Quality Assumed Manufacturer. All tiles and products are manufactured to tolerances and quality standards in accordance with ISO 14001: 2004 and ISO 18001:2007 certified process.
We are specialized in manufacturing the ceiling suspension system and ceiling tile unit for 25 years; accompanied with a history of successfull production acceptable to the major consultants and projects management in the Middle East and Gulf Countries.

Warranty

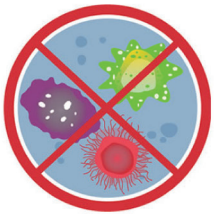
Matador Lay-in Metal Ceiling Tiles and Panels carry a warranty of 10 Years against any manufacturing defects. Our warranty will be considered void if the products are misused, improperly erected / accessed or used in any adverse climatic condition.

Polyester Coating

The tiles are produced from pre-painted aluminum coils applied in a continuous coil coating process ensuring uniform coating and absolute adhesion. The front surface has primer coat 5 microns and top coat 20-25 microns. As for the reverse surface it has 5-7 microns primer coating for extra tile protection.

Powder Coating

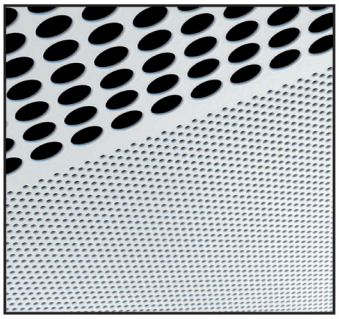
Durable Electrostatic Polyester Powder Coating factory applied in a nominal thickness of 70-80 microns. Our raw material of aluminium mill finish and galvanized steel are chemically treated and washed before it is painted to desired colour.



Anti-bacterial Coating

Hygienic coating can be applied upon request having an excellent anti-bacterial paint characteristics tested in accordance with JIS Z2801:2000 standards. The Anti-Bacterial coating is newly designed for projects requiring hygienic environments such as Hospitals, Laboratories, Industrial kitchens etc. The special coating used inhibits the growth of bacteria on the surface to provide a safe, healthy and clean environment.

Perforation Patterns



- **Circular Perforation:**

  0.70mm dia. 1.00mm dia. 1.50mm dia. 1.80mm dia.
  2.00mm dia. 3.00mm dia. 4.50mm dia. 6.00mm dia.

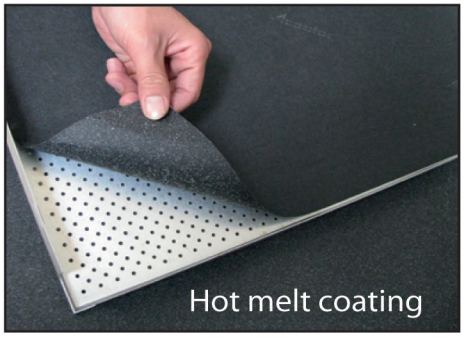
- **Square Perforation:**

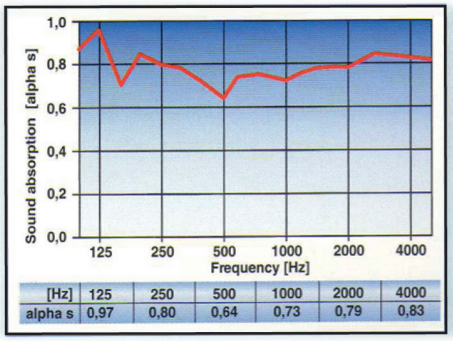
  10x10mm sq. 20x20mm sq.

Most Perforated tiles are produced in uniform square pattern and diagonal pattern with various plain Border. All designs and patterns are clearly demonstrated and technically illustrated in our Perforation Pattern catalogue.

Acoustic Felt

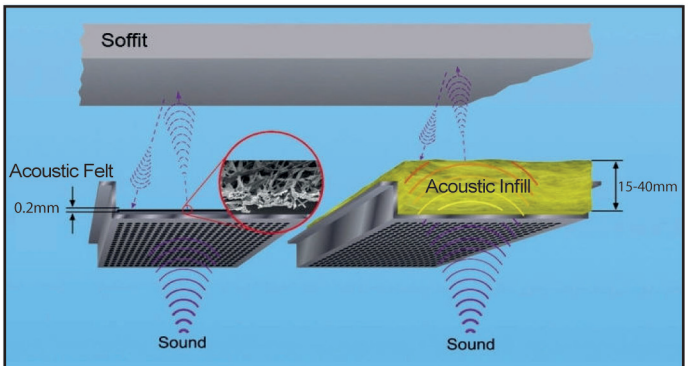
MATADOR Perforated Tiles are produced with non-woven acoustic felt fitted in our factory. The black non-woven acoustic felt is 0.2mm thickness applied inside the tiles to achieve high performance of sound-absorbing. It is non-flammable Class A tested in accordance with ASTM E84 with surface-burning characteristics for flame spread index = 5 and smoke developed index = 10



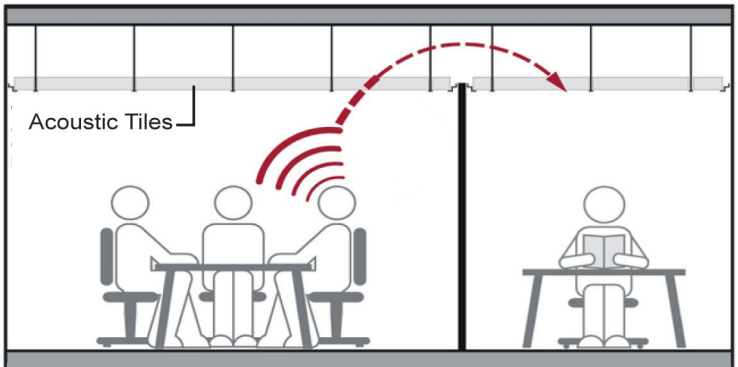


Acoustic Infill

Special acoustical infill materials can be adapted to provide the best acoustical requirements. Mineral acoustic pads or glass fiber wool are fitted inside the tiles to optimize the sound absorption performance with high room to room sound attenuation.



Matador Perforated Layin Tiles with high sound absorption using Acoustic Black Felt of NRC=0.8 tested in accordance with ASTM C423



The airborne sound attenuation between rooms sharing a common ceiling plenum CAC= 46 dB tested in accordance with ASTM E1414

Technical Properties

Light Reflectance
LR 0.85
ASTM E1477

Surface Spread of Flame
Class 1
BS 476 Part 6 & 7

Non - Flammable (Acoustic Felt)
Class A
ASTM E84

Sound Absorption
NRC 0.8
ASTM C423

Corrosion Resistance
1000 Hrs Salt Spray
ASTM B117-73

Humidity Resistance
HR 95%
ASTM D2247

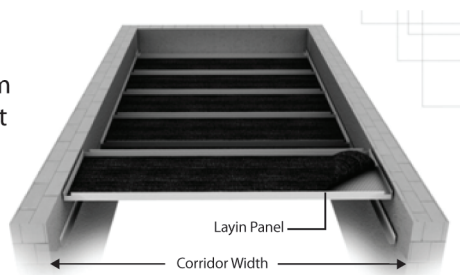
Sound Attenuation
CAC 46
ASTM E1414

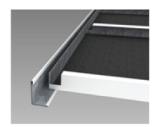
Anti Microbial
JIS Z 2801: 2000

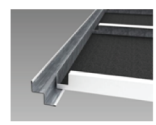
Environmental
100% Recyclable

Lay-in Panels for Corridors

Demountable panels designed for corridors to exploit the maximum height of the false ceiling. The panel span is from wall to wall without intermediate hangers, supported by L or W Edge Trim at perimeters.
Panel Width: 300 to 600mm
Panel Length: 900 to 2500mm
Edge Trim (L): 25 x 40 x 3000mm long
Edge Trim (W): 20 x 20 x 20 x 20 x 3000mm long



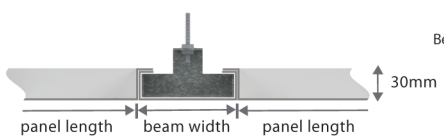

L Edge Detail

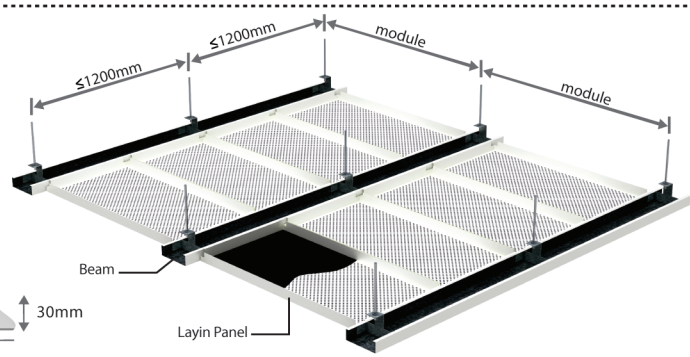

W Edge Detail

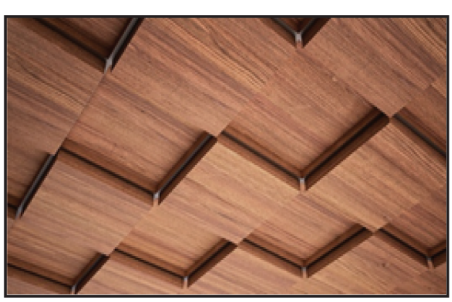
Lay-in Panels on Exposed Beams

This system provides a high specification solution for large areas. The beams are arranged in one direction to create a continuous ceiling effect, they are used to support the ceiling panels and light fittings. Partition walls of various designs can be easily situated under the beams.

Module Sizes
Beam Width: 100 to 300mm
Panel Width: 300 to 600mm
Panel Length: 600 to 1500mm

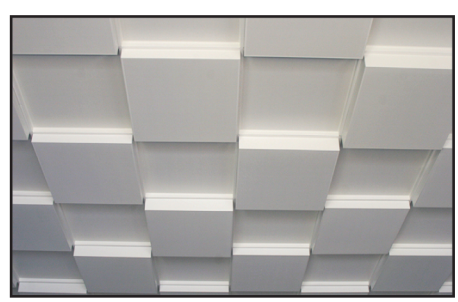




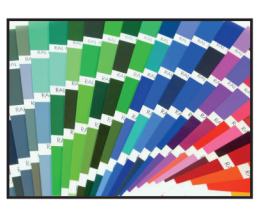

3D Tegular Tiles in wood-look visual

Tri-dimensional Tiles

- Unique 3D look
- Define and accentuate spaces
- Multi design ideas
- Standard grid 15T, 24T
- Module size 600x600mm
- Tile heights 8, 25, 50, 75, 100mm


3D Tegular Tiles in white color

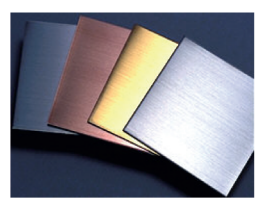
Colours



- White (RAL9003, RAL9010, RAL9016)
- Silver (RAL9006)
- Black (RAL9005, RAL9011, RAL9017)
- Grey (RAL7035, RAL7047)
- Creamy (RAL9001 , RAL1013, RAL1015)
- Wood (white/ivory/brown oak, beige/brown pine, mirror gold)

Any choice from the RAL colour chart and custom colour matching are available upon request. Please consult us for minimum quantities and lead times on specific orders.

Special Finishes

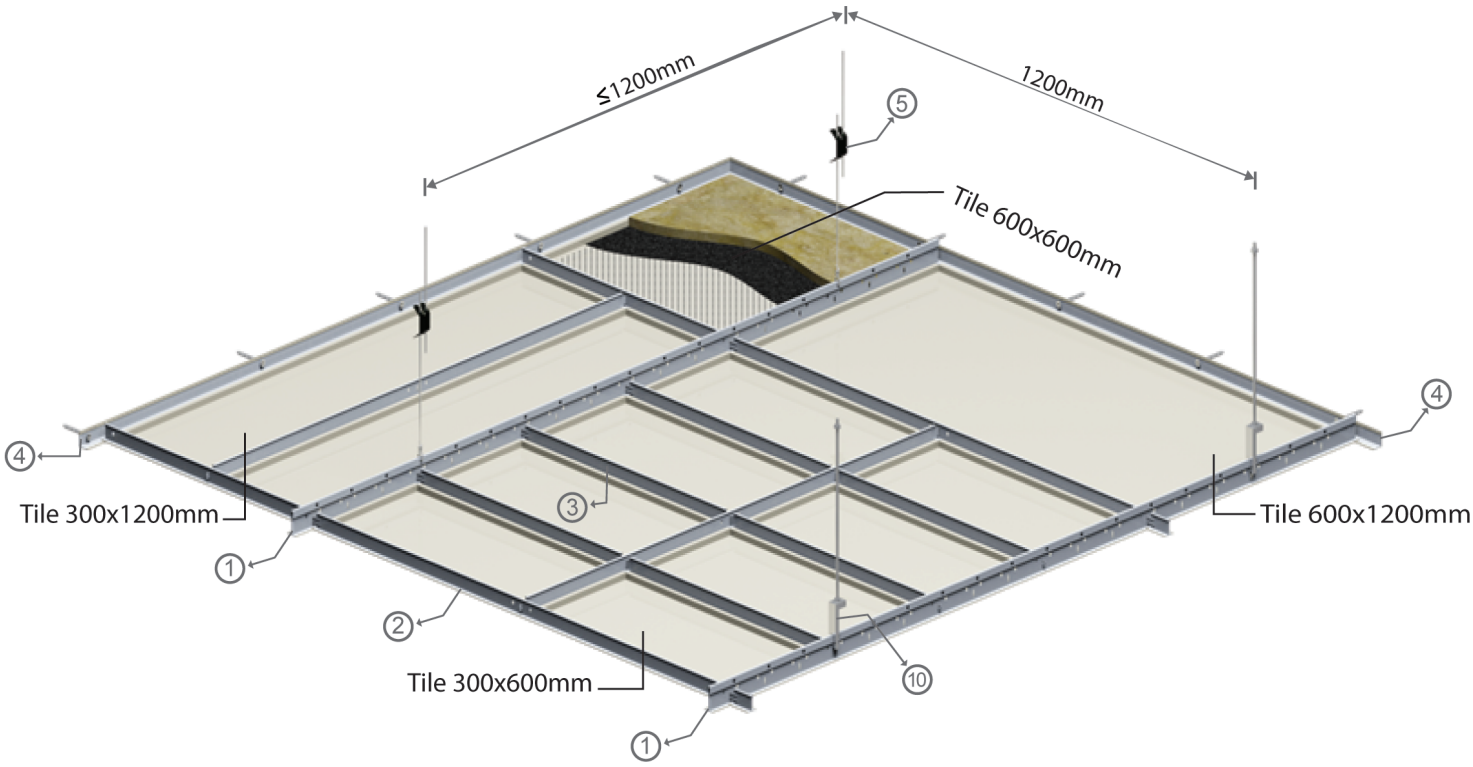


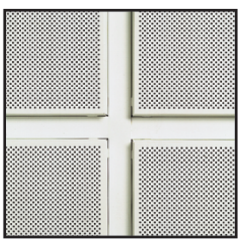
- Silver Mirror finish
- Gold Mirror finish
- Chrome Brush finish
- Bronze finish
- Satin Anodized

Tiles are supplied with transparent protective film.

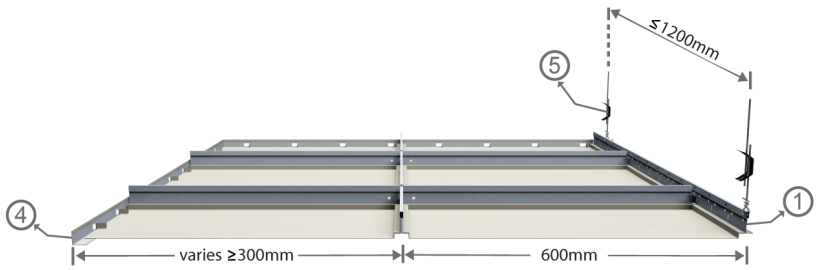
Suspension System

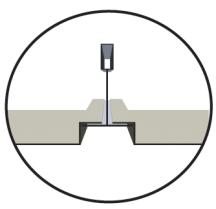
Matador Lay-in Tile System consists of tiles that are designed to be laid into a standard commercial exposed two-way T-grid system with suspension points at 1200mm centres maximum. The grid is comprised of a pre-punched main runner interconnected together with cross runners to form a grid module to suit the metal tile size. The exposed T-grid suspension system should be installed in accordance with the ASTM C636 standard.



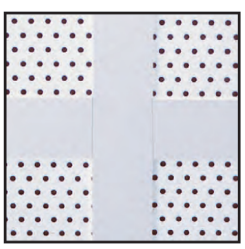


A- Recessed Type:

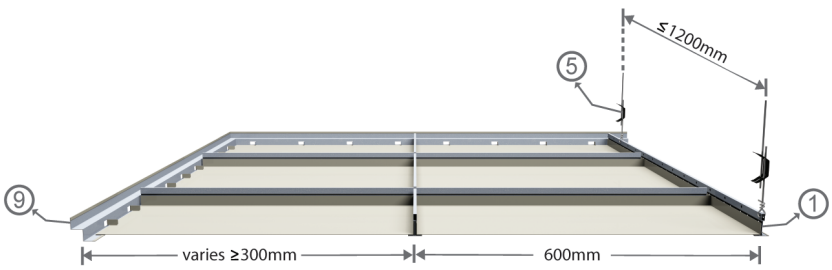


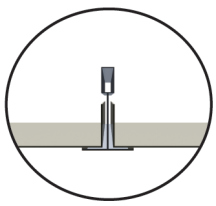


layin exposed system with several tile depths laid into standard T24 or T15 grids

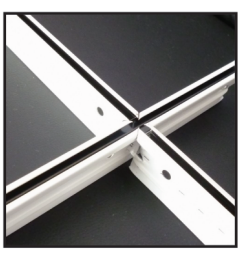


B- Flat Type:

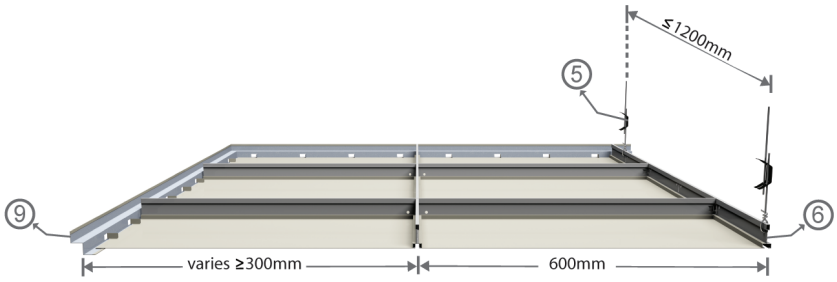


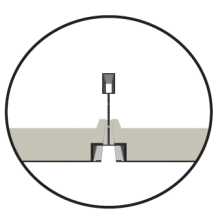


layin exposed system with flat plain design laid into standard T24 or T15 grids



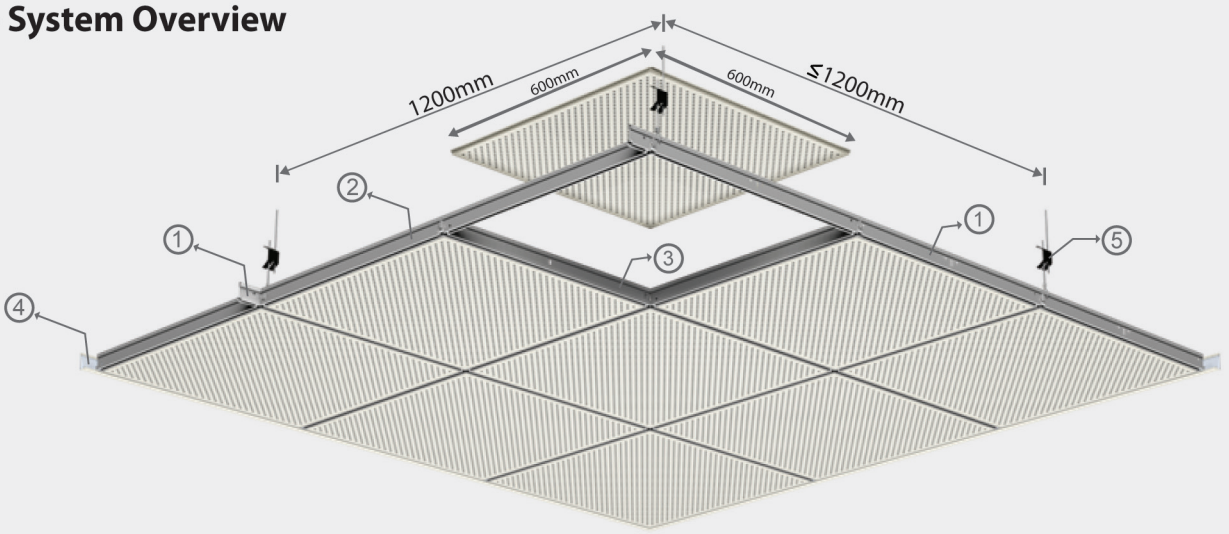
C- Flush Type:





layin exposed system with black groove feature between the tiles using ultraline grids

Lay-in Tile System Overview

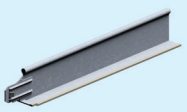


Accessories

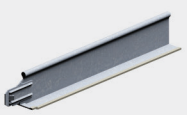
Matador Standard Exposed grid profiles are rollformed from high quality galvanized steel with prepainted capping material providing effective protection against corrosion. All grid components have coupling lock mechanisms to interlock without the need for tools.

1. Main Runner (T Grid)
Size (T15): 32 × 14 × 3600mm long
Size (T24): 32 × 24 × 3600mm long
Hot-dip galvanized steel 0.3mm thick

2. Cross Bar 1200 (T Grid)
Size (T15): 32 × 14 × 1200mm long
Size (T24): 24 × 24 × 1200mm long
Hot-dip galvanized steel 0.3mm thick



3. Cross Bar 600 (T Grid)
Size (T15): 32 × 14 × 600mm long
Size (T24): 24 × 24 × 600mm long
Hot-dip galvanized steel 0.3mm thick



4. Edge Trim L-Shaped
Size (T15): 14 × 14 × 3000mm long
Size (T24): 24 × 24 x 3000mm long
Galvanized steel or aluminium 0.5mm thick

5. Wire Hanger:
GI Steel wire 3mm or 4mm dia with butterfly clip used to adjust the ceiling level *Wires are supplied upon request only.

6. Main Runner (Ultraline Grid)
Size: 41 × 15× 3600mm long
Hot-dip galvanized steel 0.4mm thick

7. Cross Bar 1200 (Ultraline Grid)
Size: 41 × 15 × 1200mm long
Hot-dip galvanized steel 0.3mm thick

8. Cross Bar 600 (Ultraline Grid)
Size: 41 × 15 × 600mm long
Hot-dip galvanized steel 0.3mm thick

9. Edge Trim W-Shaped
Size varies as per the tile depth.
Galvanized steel or aluminium 0.6mm thick

10. Hanging Bracket:
GI Steel 1.5mm thick, used to hang the Main Runner using of M6 Threaded Rod.

Installation

Step (1) Use a laser or equivalent to determine the final ceiling height and mark it on the surrounding walls.
Step (2) Measure the ceiling area and divide it to accommodate Main Runners at spacings of 1200 mm, noting that the perimeter tiles should be wider than 300mm.
Step (3) Mark the position of the hangers on the structural soffit. The distance between hangers along the Main Runners must not exceed 1200 mm, starting at 300mm from the perimeter trim.
Step (4) Fasten the **Edge Trim** securely to the perimeter walls at the correct height by means of plugs and screws at 400mm interval.
Step (5) Insert the **Anchors** in the structural soffit and hang down the **Wire Hangers**. Cut the suspension wires to the required length and ensure sufficient length of fixing.
Step (6) Set out from the centre of the room, fasten the **Main Runner** securely to the Wire Hangers.
Step (7) Insert the **Cross Bars 1200** through the slots in the Main Runners at 600 mm centres.
Step (8) Interlock the **Cross Bars 600** between the Cross Bars 1200 to form modular grid ceiling 600x600mm.
Step (9) Start from the centre of the room, drop the ceiling **Tiles** into position by tilting them slightly, lift them above the framework and let them fall into place.

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