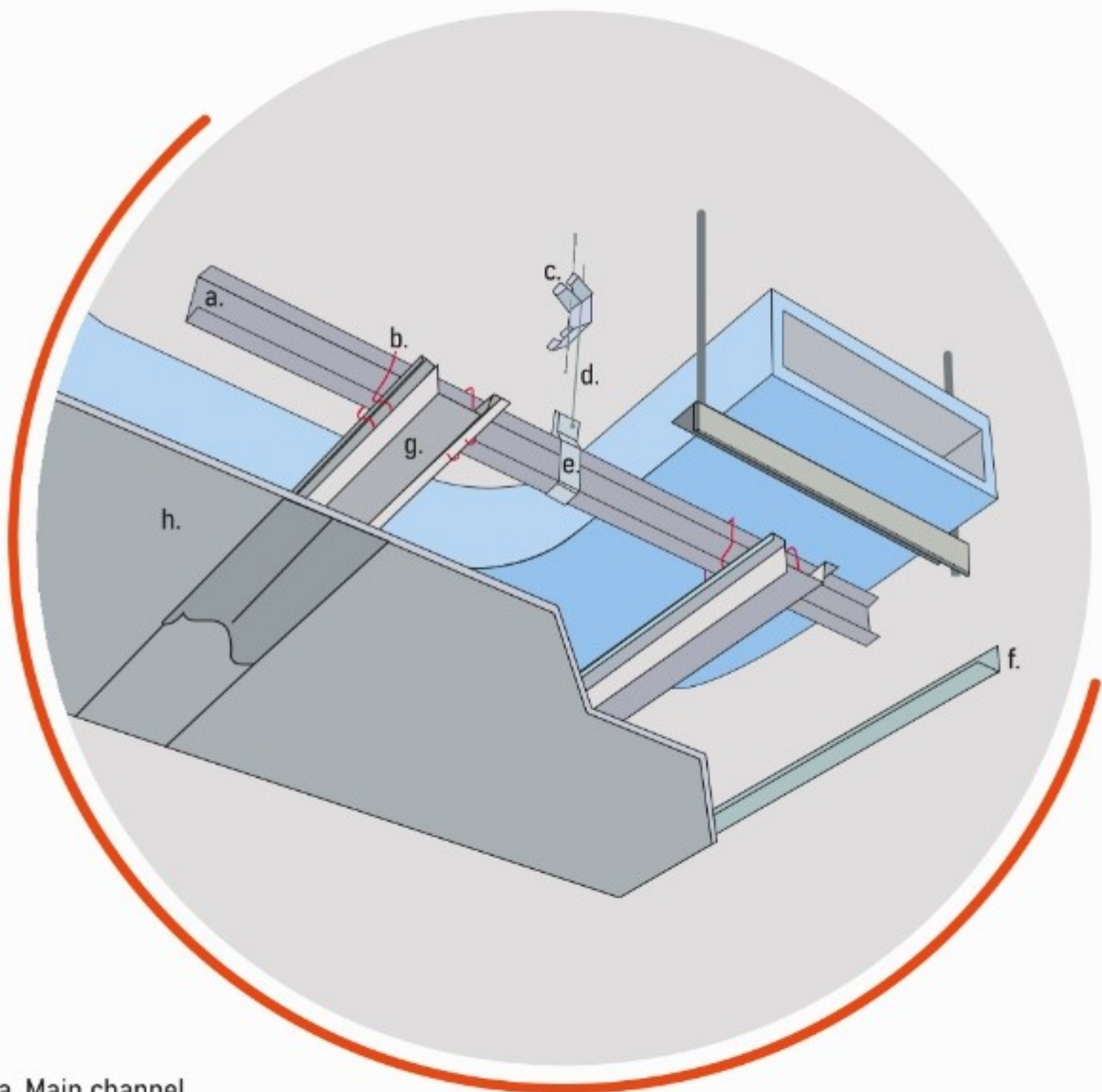


DECOTECH FURRING SYSTEM

Item Name



- a. Main channel
- b. Wire coupling clip
- c. Adjustment clip
- d. Wire hanger
- e. Channel bracket
- f. G.I Wall Angle
- g. Furring channel
- h. Gypsum board



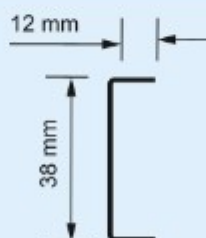
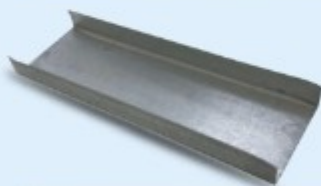
The concealed gypsum ceiling consist of screw fixed plasterboard attached to the ceiling furring system suspended from joists or a concrete ceiling.

COMPONENTS & ACCESSORIES

Item Description

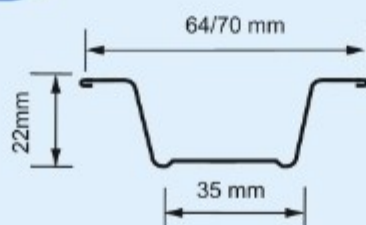
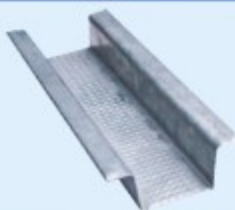
The Ceiling Furring System is manufactured from corrosion resistant galvanised steel in various thickness. Furring channels are widely used in ceiling systems as well as wall installations. Main channels are mainly used as grid systems for suspended ceilings. these channels are designed for providing seamless flat or curved suspended ceiling. Sections are available in standard length of 3000mm or special length are available upon request.

Main channel



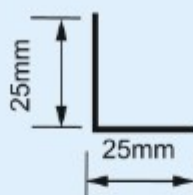
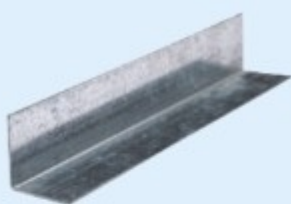
Ref.	Dimension (mm)			Thickness (mm)
	A	B	C	
MC38	12	38	12	0.40-1.0

Furring channel



Ref.	Dimension (mm)			Thickness (mm)
	A	B	C	
FC64	35	22	64	0.40-0.50
FC70	35	22	70	0.60-1.0

Wall angle



Ref.	Dimension (mm)		Thickness (mm)
	A	B	
WA25	25	25	0.40-1.0

* Custom lengths available upon request

Wire coupling clip



Ref.C 38
Galvanised mild steel wire
Packed 500 per box

Adjustable spring



Ref.C 50
Spring steel 0.5 mm
thick packed 250 per box

Channel bracket



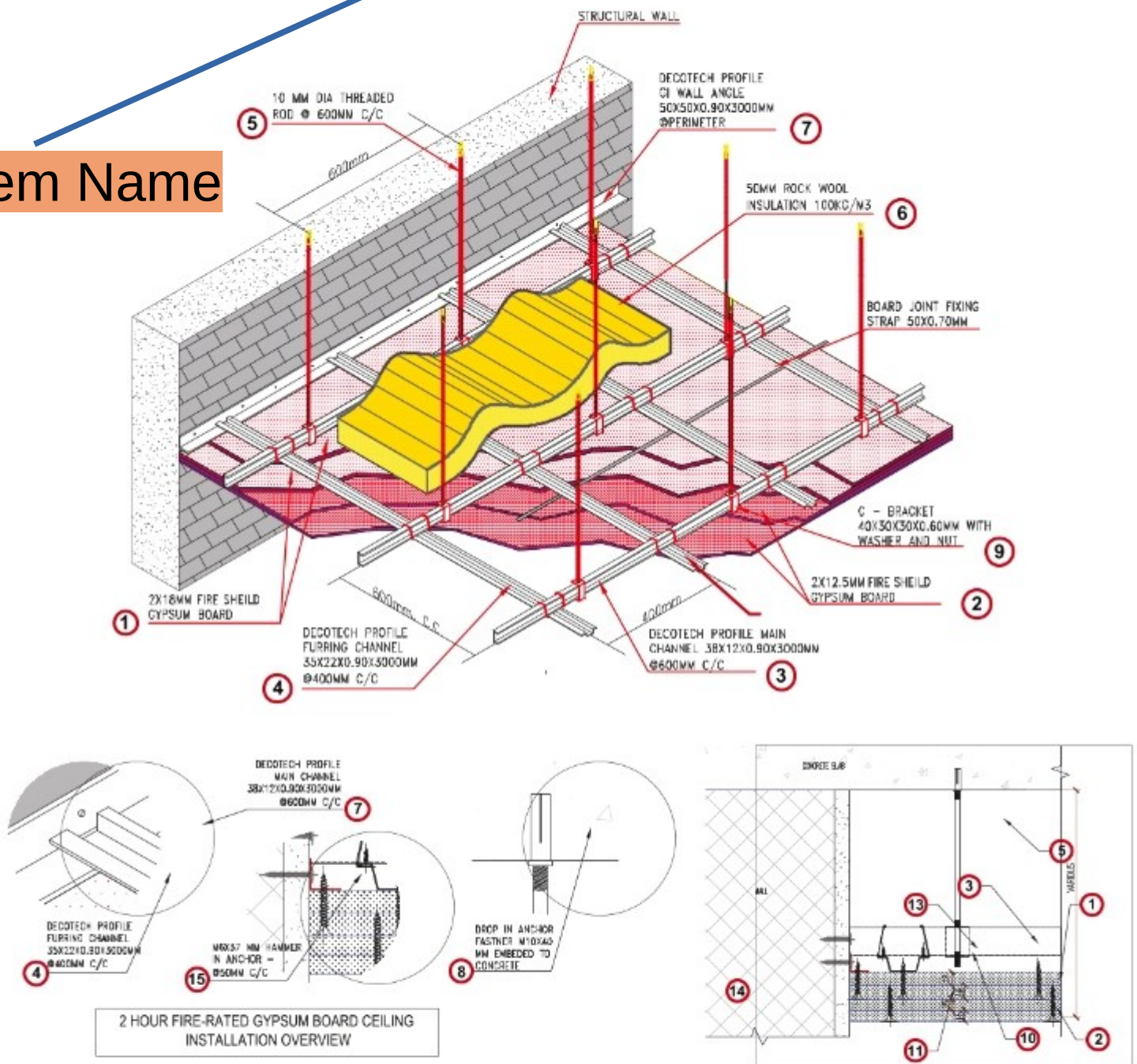
Ref.C 12
Galvanized
mild steel
packed
1000 per box

TECHNICAL SPECIFICATION

Manufactured to:
EN 14195 : 2014 | EN 10162 : 2003 | ASTM C645
Galvanised steel to: ASTM 653M / DX51D

FIRE RATED CEILING - DECOTECH DGC 120

Item Name



- | | |
|-----------------------------------------------------------------|-------------------------------------------------------|
| 1 2x18mm Fire Shield Gypsum Board | 9 C - Bracket 40x30x30x0.60mm with Washer and Nut |
| 2 2x12.5mm Fire Shield Gypsum Board | 10 M4.2x13 mm Wafer Head Drill Point Screw |
| 3 Decotech Profile Main Channel 38x12x0.90x3000mm @600mm c/c | 11 M3.5x35.55 & M4.8x70 mm Dry wall screw @ 200mm c/c |
| 4 Decotech Profile Furring Channel 35x22x0.90x3000mm @400mm c/c | 12 Fibre joint tape |
| 5 10 mm Dia Threaded Rod @ 600mm c/c | 13 38x22x12mm Wire clip |
| 6 50mm Rock wool Insulation 60kg/m3 | 14 Board Joint Fixing strap 50x0.70mm |
| 7 Decotech Profile GI Wall Angle 50x50x0.90x3000mm @perimeter | 15 M6x37 mm Hammer in Anchor - @50mm c/c |
| 8 Drop in Anchor Fastner M10x40 mm Embedded to concrete | 16 Joint Compound |

NOTE:

BOARDS ARE STAGGERED FROM SIDE TO SIDE AND LAYER TO LAYER

ALL CUT JOINTS PERPENDICULAR TO FURRING CHANNEL TO BE BACKED UP WITH FIXING STRAP

DUD-DCD SYSTEM

Item Name

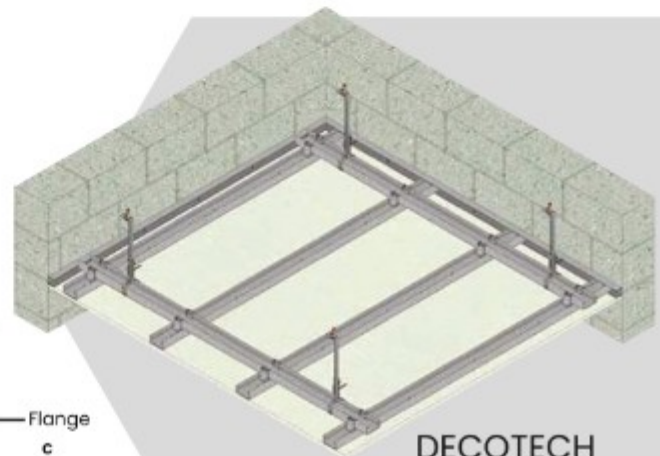
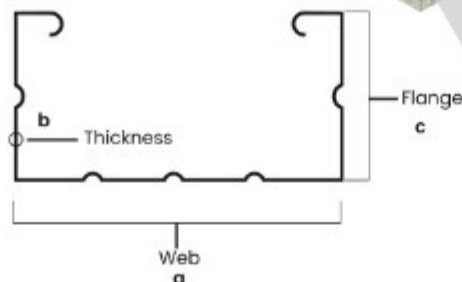
The DECOTECH DUD-DCD Suspended Ceiling System with metal grid consists of Decotech DCD and Decotech DUD channels.

DCD channels are attached to the ceiling slab with hooked wires and rapid hangers or with Heavy Hangers. DCD channels are attached to channels with Clips. The DUD channel is installed flush on the existing bearing system of the building with anchoring screws. This facilitates the proper alignments and installation of all base and bearing studs and channels. Gypsum Boards are installed on metal grids with screw attachment, starting at one end and gradually advancing towards the other.



Isometric View Wire Hanger

DCD Channel Section



DECOTECH DUD-DCD System

DECOTECH DCD Channels are galvanized lightweight steel sections to be used as primary/main and secondary/furring channels for Ceiling Systems. Their increased web width allows faster and easier installation and smoother joints.

FEATURES

- Sturdy 0.6 mm sections with full set of compatible accessories.
- Only one type of channels for main and furring functions.
- Increased web width for faster/easier installation and smoother joints.

Stud Type	Channel Web (a) (mm)	Channel Thickness (b)(mm)	Channel Flange (c) (mm)	Channel Length (mm)	Weight (Kg/m)	Zinc Coating Class (g/m ²)
Decotech DCD Channel	60	0.6	27	3000	0.584	Z100-Z275

LINTEL

Item Name

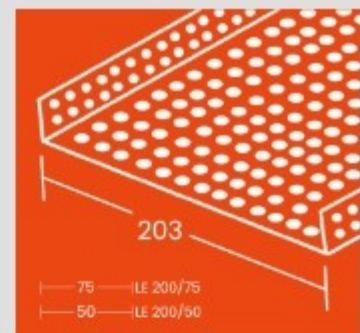
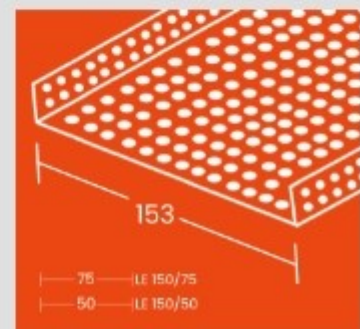
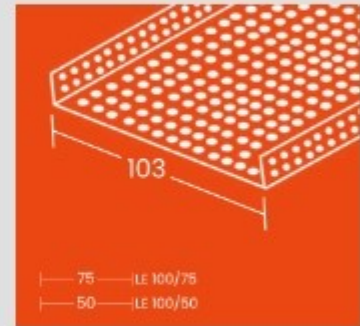
DECOTECH steel intels provide open span support over door and window apertures providing light weight support and efficient load bearing for all type of block. All Decotech Lintels are manufactured using prime steel galvanized with zinc can be coated with black thermoset polyester powder or black dual - coat epoxy paint which provides excellent long - term corrosion resistance.

Installation

- ▶ Lintels shall be simply supported at each solid base using a minimum end bearing of 200mm.
- ▶ Lintels should not be used if damaged or welded.
- ▶ Lintels must always be used within their weight capacity.
- ▶ Use support at center until mortar is dry to avoid high deflection.

Advantage

- ▶ Easy to use
- ▶ Time saving
- ▶ Cost Effective





DECOTECH METAL CEILING SOLUTIONS

Decotech Creates a wide variety of metal ceiling solutions to create a modern, aesthetically pleasing atmosphere.

Our modern sophisticated machineries and facilities have an ability to deliver tailored ceiling and wall panels of custom and unique sizes with elegant finishes.





DECOTECH METAL CEILING SYSTEM

Decotech metal ceilings can be produced in aluminium and steel in different thickness.



LIGHT REFLECTANCE

LR = 70 - 90% (ASTM E 1477)



CORROSION RESISTANCE

Salt spray tested for 1000 hours corrosion protection (ASTM B 177 -73)



NRC SOUND ABSORPTION CLASS

Decotile with fire retardant non-woven acoustic fleece can attain sound absorption upto NRC 0.70-0.75 and α_w -0.70-0.75 (As per ASTM C423)
Higher sound absorption solutions can be provided with acoustic pads as per requirements.



HUMIDITY RESISTANCE

HR = 95%



REACTION TO FIRE

The reaction to fire classification accordance with ASTM E84 are expressed as class A.



ANTI-MICROBIAL

Hygienic coating can be provided upon request, having an excellent anti-bacterial properties (JIS Z 2801:200)



GREEN BUILDING MATERIAL

Fully recyclable and environment friendly.



CLEANABILITY

Washable by applying any household mild detergent like soap or window cleaner on the ceiling. Surface then wiping it with a clean soft cloth.

MANUFACTURING STANDARDS

ASTM C 635

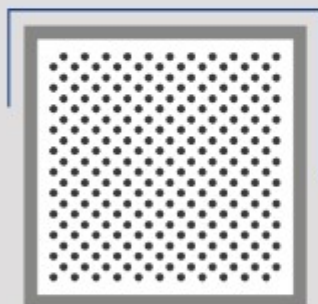
Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Ceiling Panels.

MATERIAL SPECIFICATIONS

	Tiles	Framing
BASE	Aluminum Alloy as per EN AW 1100 H44 series	Galvanized Steel Z140 Grade
COATING	7 μ for the back + 20 μ for the face	50 μ Power Coated

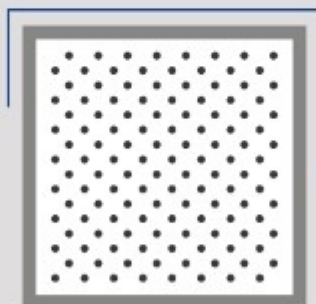
METAL RANGE PERFORATIONS

Predefined modules are available in 3 popular perforations.



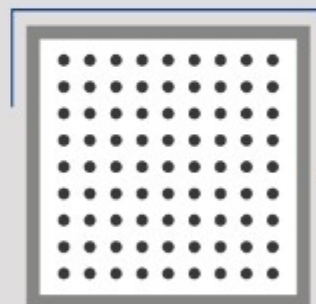
**Micro-Perforation
Perf. 15**

Hole Diameter : 1.5 mm
Open Area : 22%



**Standard Perforation
Perf. 18**

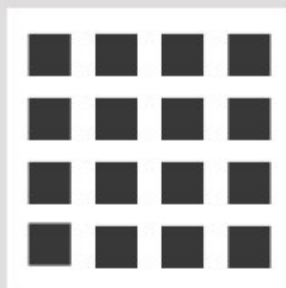
Hole Diameter : 1.8 mm
Open Area : 19%



**Perforation
Perf. 25**

Hole Diameter : 2.5 mm
Open Area : 16%

Decotile comes with wide range of perforation pattern of aesthetic choice also

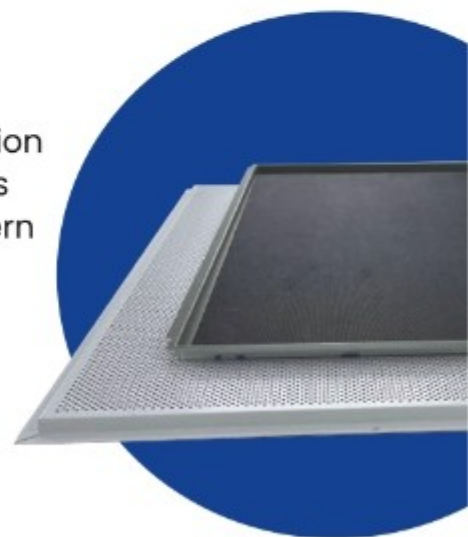


ACCOUSTIC SOLUTIONS

Non - woven acoustic fleece provides a cost effective solution for general sound absorption requirements. As a solution that is bonded to the reverse of the metal tile it helps eliminate pattern staining issues that may occur with loose laid solutions.

Can attain NRC 0.70 - 0.75 and $\alpha_w = 0.70$ to 0.75

In addition to the standard acoustic fleece, offers a range high absorption and attenuation acoustic pads.



COLOURS

Decotech colors for metal ceilings RAL 9003 (White) and additional special colors and wood effects can be provided upon special request.

RAL 9010

RAL 9016

RAL 9010

RAL 9006

RAL 9007

RAL 9007

GLOBAL WHITE

WOODEN EFFECTS

ASH

NATURAL
BAMBOO

CARAMEL
BAMBOO

MAPLE

OAK

AMERICAN
CHERRY

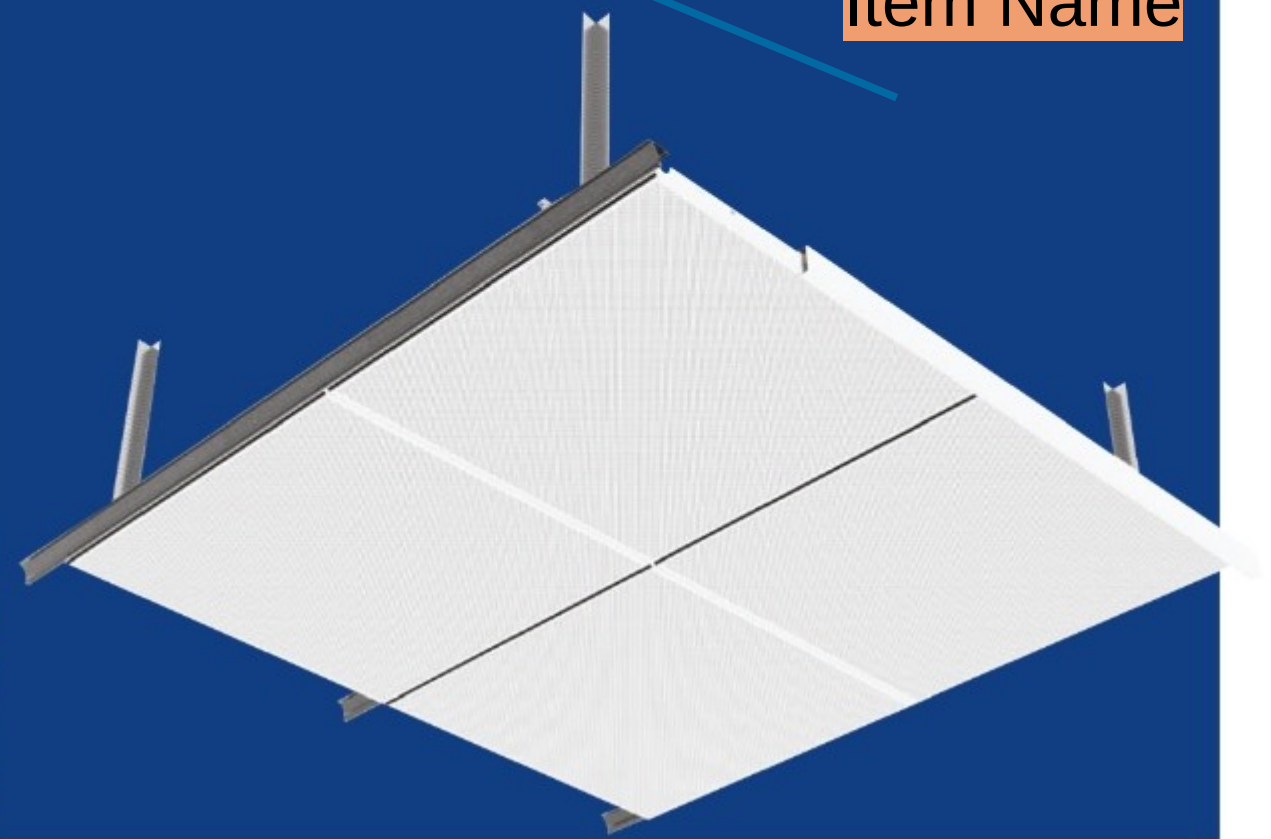
AMERICAN
WALNUT



CLIP-IN METAL CEILING SYSTEM

Item Name

Clip-in System



Clip-in Metal Ceiling System is a specialised suspended ceiling system designed for internal applications.

Fully demountable for an easy access to services, the tiles are clipped to a concealed suspension system.

APPLICATIONS

Suitable for use in all areas including :

Bathrooms
Kitchens
Corridors
Hospitals
Commercial buildings
Residential buildings

> Benefits



Fully demountable for easy access to services



Concealed design



Washable surface easy to clean



Excellent sound absorption performance



Durable and robust



Recyclable environment friendly



Anti-microbial

CLIP-IN METAL CEILING TILES

Clip-in tiles are available in perforated pattern for aesthetics and acoustic performance, and in plain finish for seamless design.

Clip-in System > Clip-in Tiles

Tile thickness ¹ (mm)	0.6 and 0.7
Tile modular size (mm)	600x600
Tile actual size ² (mm)	600x600
Tile per carton	20
Edge detail	Bevelled
Standard colors ³	RAL 9003 and RAL 9010

¹Other thicknesses from 0.5 to 0.9mm available upon request.

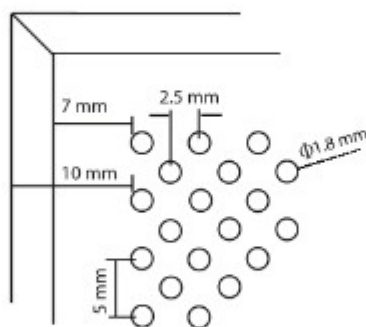
²Other sizes like 300x300, 600x1200 available upon request.

³Other colors available upon request.

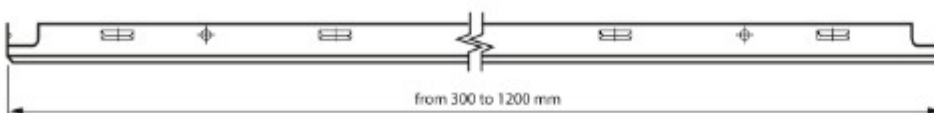


PERFORATION

Open area : 19%

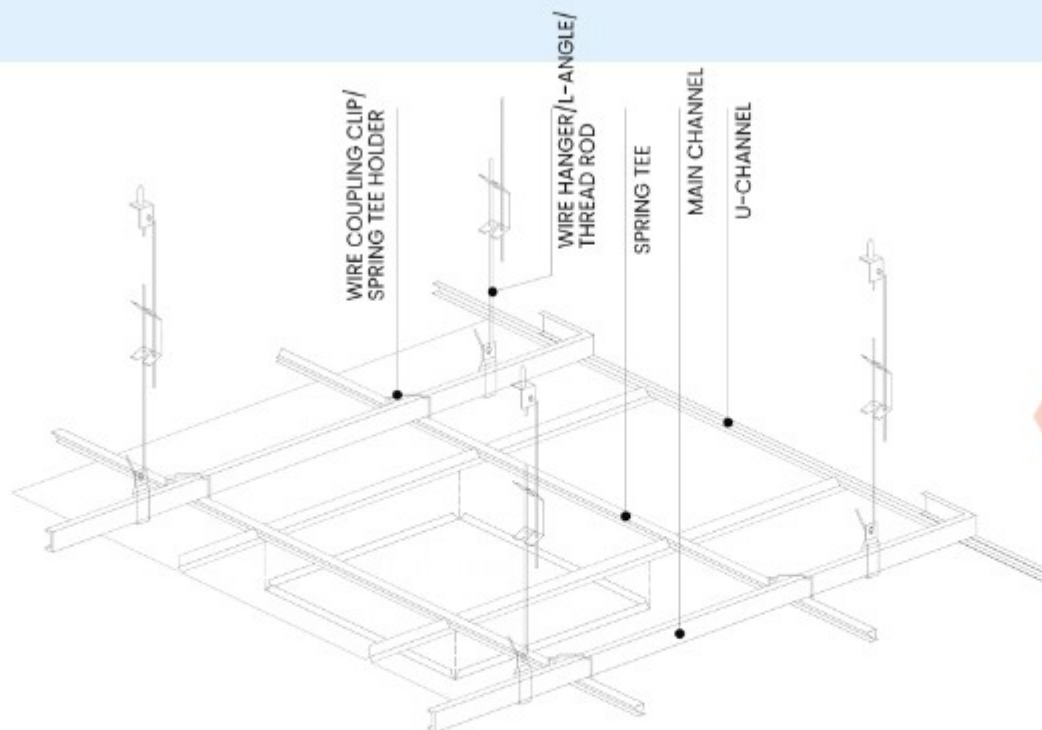


DRAWINGS

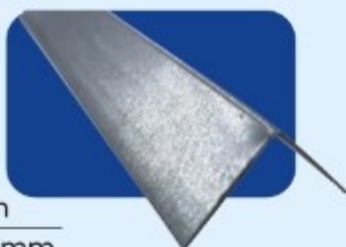
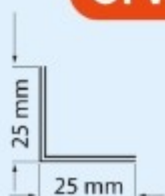


ALTERNATIVE HANGING SOLUTIONS





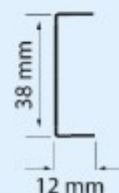
GI WALL ANGLE



Width - 25 mm
Length - 3000 mm
Gauge thickness - 0.50 mm
Linear meter weight - 0.18 kg

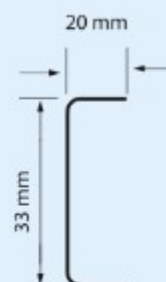
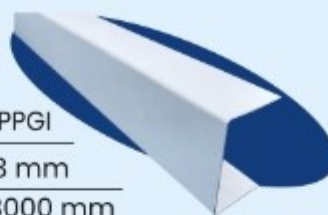
MAIN CHANNEL

Width - 38 mm
Length - 3000 mm
Gauge thickness - 0.50 mm
Linear meter weight - 0.22kg

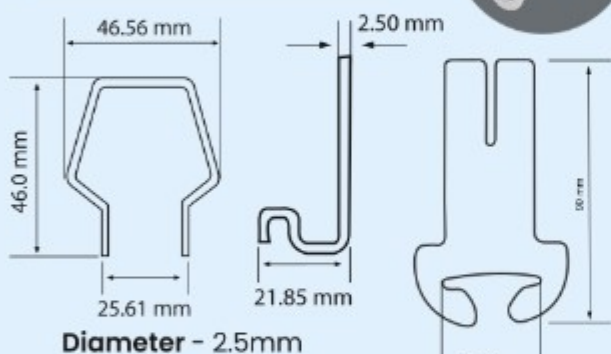


PERIMETER (U-CHANNEL)

Material - PPGI
Width - 33 mm
Length - 3000 mm
Gauge thickness - 0.40 mm
Linear meter weight - 0.22kg



WIRE COUPLING/ SPRING TEE HOLDER



Diameter - 2.5mm

Thick - 0.40mm

CLIP IN TILES



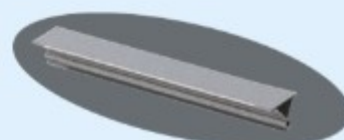
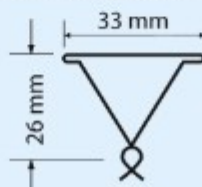
FLEECE



Special acoustic fleece made from non-woven fabric that allows noise reduction upto NRC 0.75

SPRING TEE

Width - 33 mm
Length - 3000 mm
Gauge thickness - 0.40 mm
Linear meter weight - 0.330kg



LAY-IN METAL CEILING SYSTEM

Item Name

Lay-in System

Lay-in Metal Ceiling System is a specialised suspended ceiling system designed for internal applications.

Fully demountable for an easy access to services, the tiles are mounted in a semi exposed T Grid.

APPLICATIONS

Suitable for use in all areas including :

Bathrooms
Kitchens
Corridors
Hospitals
Commercial buildings
Residential buildings

> Benefits



Fully demountable for easy access to services



Exposed grid design



Washable surface easy to clean



Excellent sound absorption performance



Durable and robust



Recyclable environment friendly



Anti-microbial

LAY-IN METAL CEILING TILES

Lay-in tiles are available in perforated pattern for aesthetics and acoustic performance, and in plain finish for seamless design.

Lay-in **System** > Lay-in **Tiles**

TILE SPECIFICATION

Tile thickness¹ (mm) 0.6 and 0.7

Tile modular size (mm) 600x600

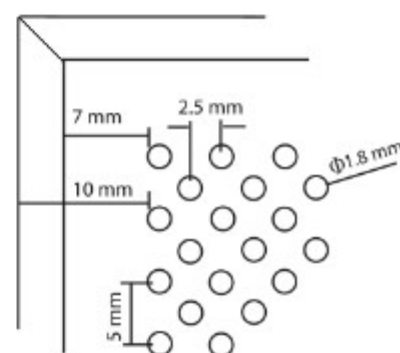
Tile actual size² (mm) 595 x 595

Tiles per carton 24

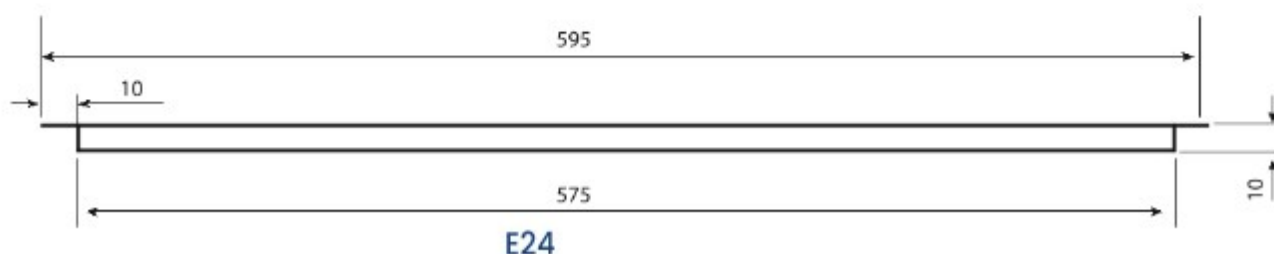
¹Other thicknesses from 0.5 to 0.9mm available upon request

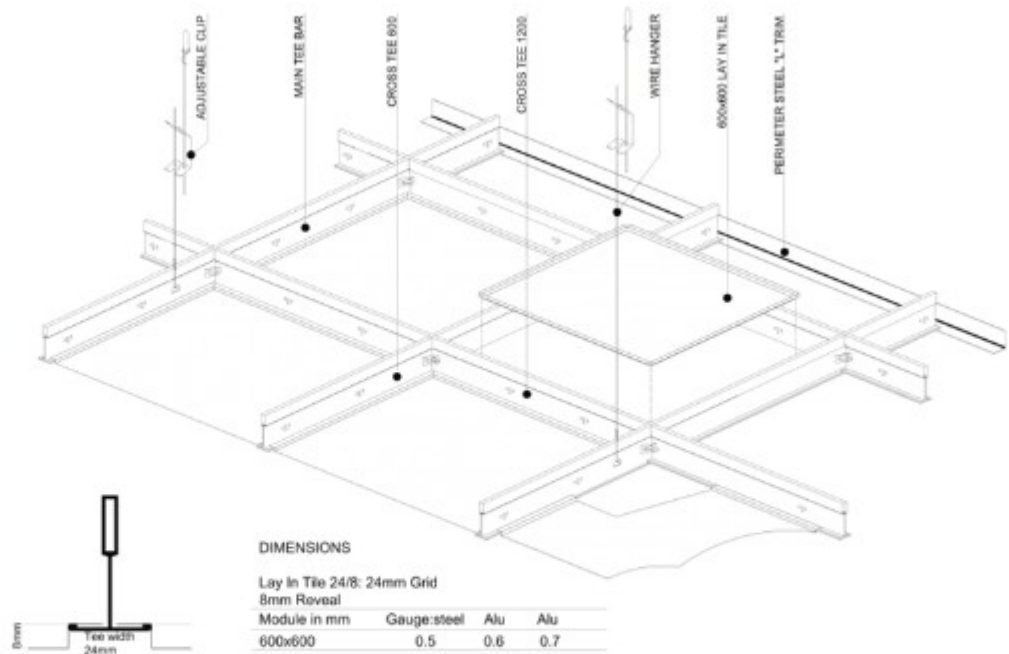
²Other sizes like 300x300 , 600x1200 available upon request

PERFORATION Open area : 19%

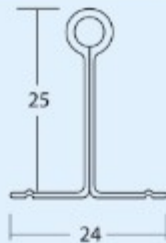


DRAWINGS



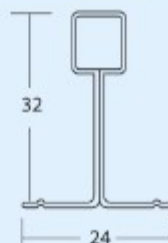


DECOTECH CROSS TEE



Length - 600 mm/1200 mm
Base Material - G.I
Capping - PPGI RAL 9003

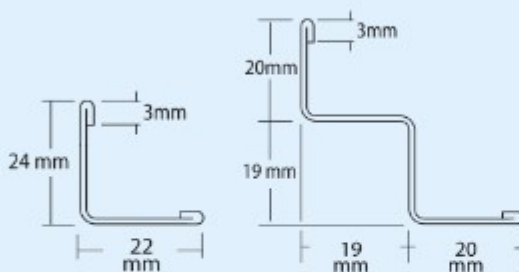
DECOTECH MAIN TEE



Length - 3600 mm
Base Material - G.I
Capping - PPGI RAL 9003

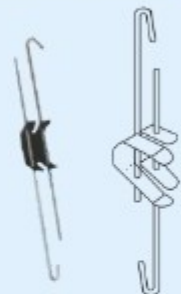
DECOTECH T24 ANGLE/ W - ANGLE

Length
3000 mm
Base Material
PPGI

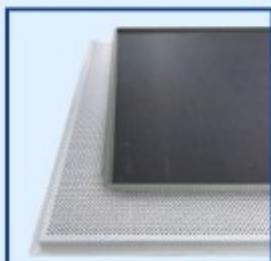


ADJUSTABLE ANCHOR

Hanger rod length
upto 1500 mm
Diameter
3 mm



LAY IN TILES



FLEECE



Special acoustic fleece made from non-woven fabric that allows noise reduction upto NRC 0.75

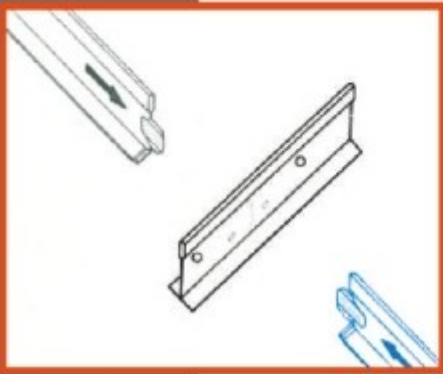
ALTERNATIVE HANGING SYSTEM

using thread rod



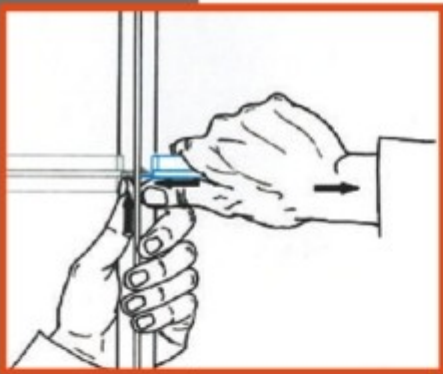
T-24 SUSPENSION GRID

Our ceiling suspension grids are double web cold-rolled sections, manufactured from hot-dipped galvanized, confirms to ASTM 653A. The tee section is with pre-painted capped. It is given to ensure that the system is manufactured to a very high quality level. All our grids has a 24mm table and the main runner is slotted for cross tees at 150 mm centers, to give maximum flexibility in the ceiling lay out.



Assembly

Each tee grids must be fitted always in the left position (Grey color) of the slot. Hear sound Click



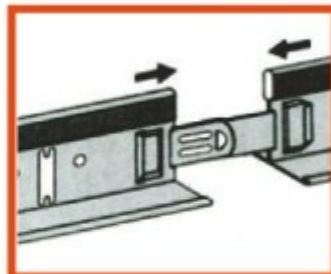
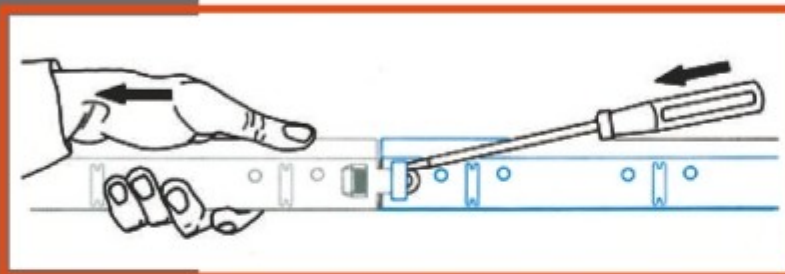
Disassembly

Need no tools!

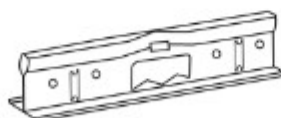
Push, Through the left thumb. Then the tee's edge and simultaneously we pull the tee with our right palm

Main Tee Disassembly

The disassembly must be done by a screwdriver with a slim tip.

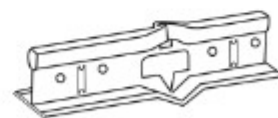


Before Fire



Fire Expansion Joint within each length of main runner

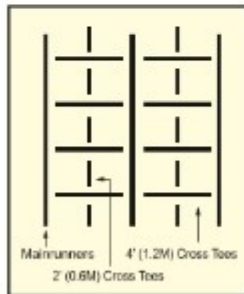
After Fire



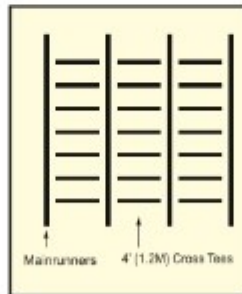
Effect after exposure to fire conditions

SUSPENSION GRIDS

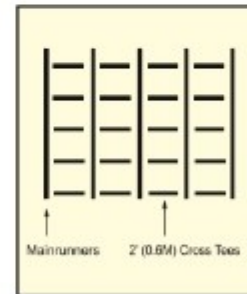
Types of combination



Mainrunners, Span: (1200 mm)



Mainrunners, Span: (1200 mm)



Mainrunners, Span: (6 mm)

1200x 600mm Sizes

DECOTECH Ceiling suspension grids comprises main runner installed at not more than 1200mm centres, securely fixed by pre-straightened suspension wire. The wire shall not more than 150mm from the main runner splices, or expansion joints, and the maximum distance from the wire to the perimeter of the ceiling shall not exceed 450mm and otherwise at 1200mm centres.

Also, the main runners splices are to be staggered and not less than 450mm from the perimeter. Spanning between main tees are 1200mm cross tees at 600mm centers.

600x600 Sizes

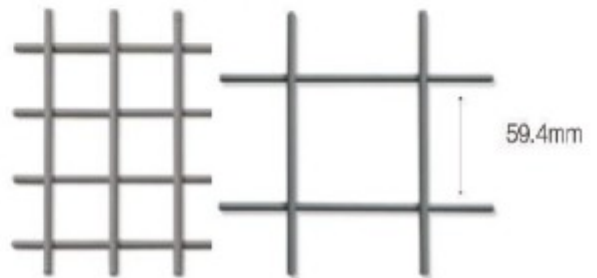
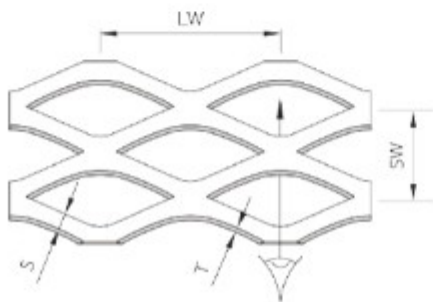
- ❖ Economical systems for residential and commercial application.
- ❖ Hot clipped galvanized steel system.
- ❖ Cross tees with overlapped ends to resist twisting and for better aesthetics.
- ❖ Load testing on the main Tees 17.90 kg/m tested according to ASTM C635.
- ❖ Fire-rated Main Tees at no extra cost.
- ❖ Suitable for Metal tiles, Gypsum Vynyl tile & GRG tiles.

MESH CEILING

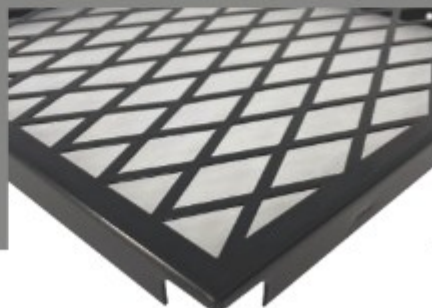
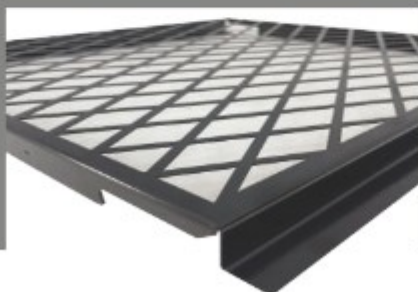
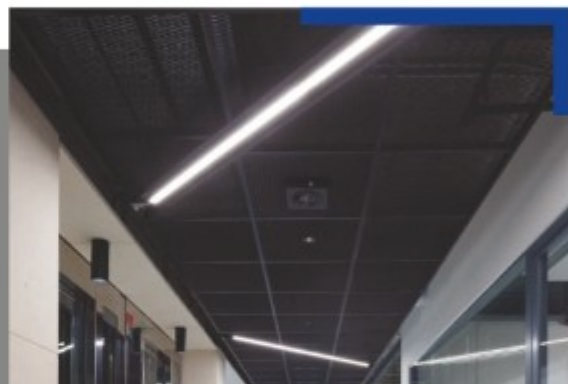
Item Name

Mesh ceiling is an ideal choice to have contemporary design, an industrial look and is an option to exposed soffit. Decotech provide a wide range of pattern and finish and can be manufactured in custom sizes.

- ▶ Custom panel size
- ▶ RAL Color as per customer choice
- ▶ custom mesh pattern



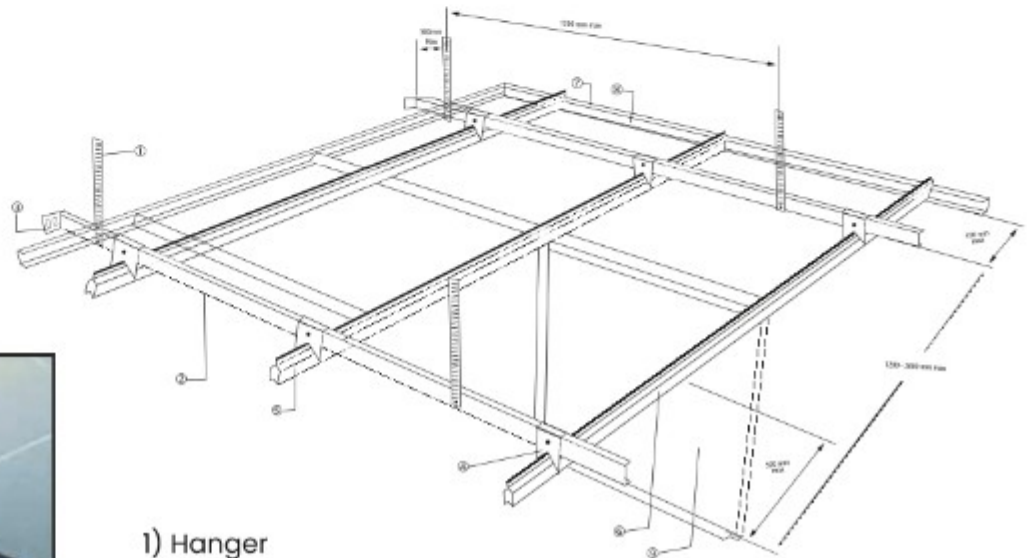
LW	long way
SW	short way
S	strand width
T	strand thickness



HINGE DOWN SYSTEM

Item Name

DECOTECH Hinge Down System can be used in the areas where frequent access to the ceiling void is needed. The range of High versatile clip-in metal tile offer hinge down access through out as standard.



- 1) Hanger
- 2) Main Channel
- 3) Wall Anchor
- 4) Channel Bracket
- 5) Decotech Omega Bar
- 6) Bar Joint
- 7) Edge Trim
- 8) Hinge Down Line
- 9) Hinge Down Tile

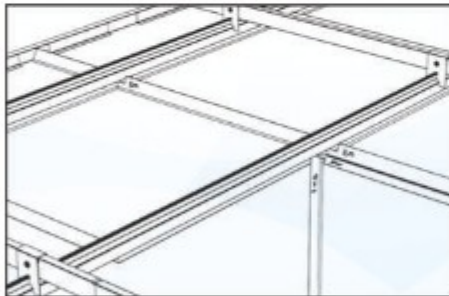
SECTION DRAWING





HINGE AND SIDE FACILITY

DECOTECH Hinge Down System allows every full tile to pivot and slide along the grid system. The hinge and slide feature facilitates easy access to large areas of the ceiling void for maintenance; tiles are retained within the ceiling grid avoiding damage and eliminating the need for storage.



WIDE SPANNING OMEGA BAR

The DECOTECH Omega bar has a maximum spanning ability of 2000mm. The wide spanning bar requires 25% less primary channels, top fixings and brackets, saving installation time and materials.

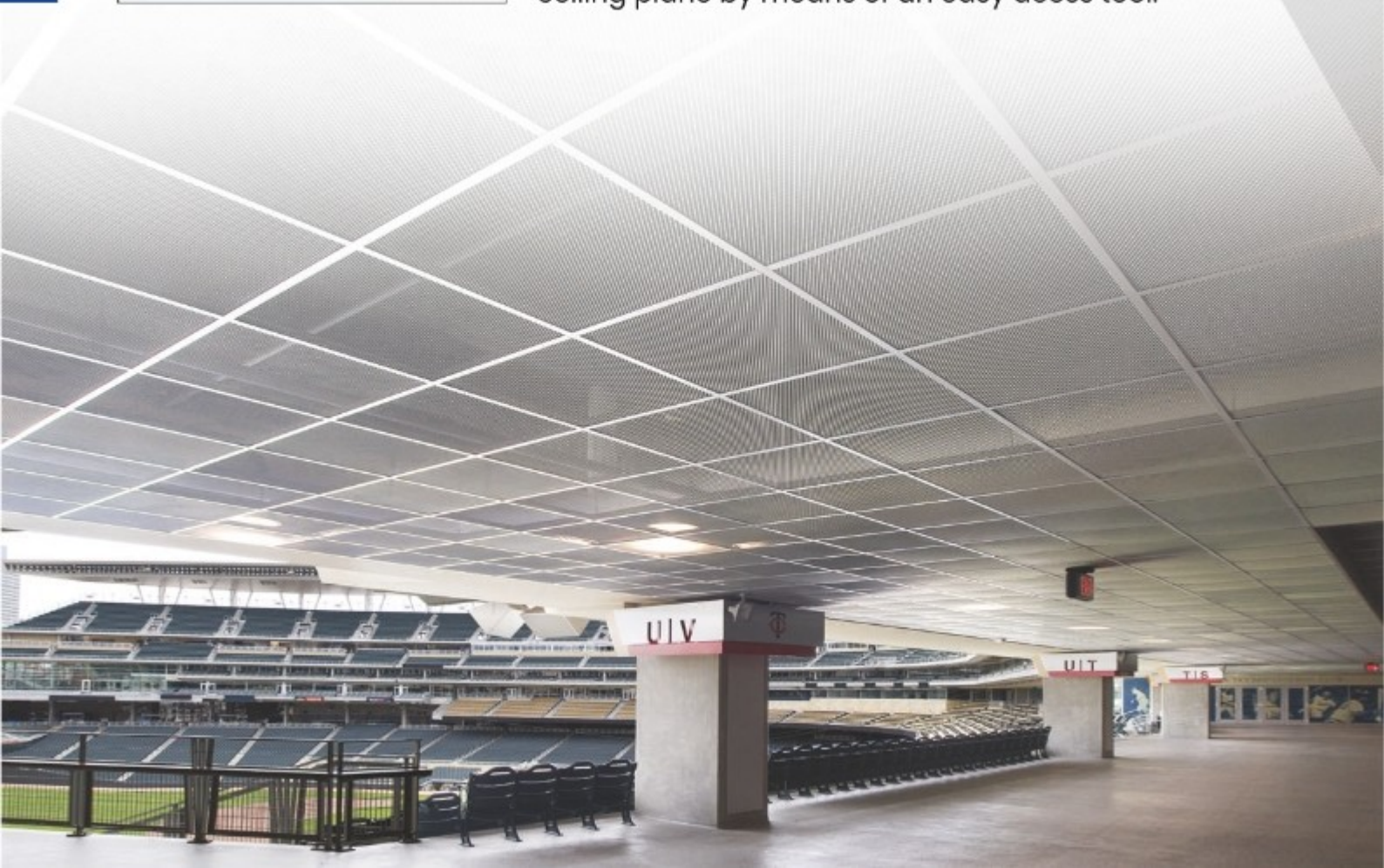
Suspension centres should be reduced when using high performing dB panels due to the additional weight or where loads are applied to the systems.



SECURITY CONSIDERATIONS

In areas where it is necessary to restrict access to the ceiling void, We offers a security clips that holds the tiles into the supporting grid. This is ideal for airports and other security driven environments, including schools and lavatories.

Tiles without security clips can be removed from the ceiling plane by means of an easy access tool.



CUSTOM CEILING & WALL PANEL

Item Name

Decotech provide a wide range of customized ceiling & wall panel as per the custom room size and easthetic sense.

We can provide you different continous & non continous pattern as per you choice.

Panel length	600 mm to 2800 mm
Panel width	250 mm to 800 mm
Pattern	Plain, Perforated, Custom, Pattern
System	Clip-in , Lay-in, Bolted
Colors	RAL Colour Series

PATTERN CEILING

Decotile comes with different types of continuous & non continuous pattern. Pattern tiles come with custom sizes, thickness. Decotech can also provide pattern as per customer requirement apart from 250+ patterns available with us

