



# FERREX

METAL CEILING SYSTEMS

## METAL CEILING SYSTEMS

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**YOUR INNER  
STRENGTH IN CONSTRUCTION**





**TECHNICS**  
MIDDLE EAST FZC

## INTRODUCTION

We are pleased to introduce ourselves, Technics Middle East FZC, As a leading Manufacturer, Exporter, and Supplier, of a comprehensive range of building products that includes Expanded metal products, Partition and ceiling profiles, Metal Ceiling systems and cable tray management systems, Under our brand name FERREX.

Technics is part of a multinational conglomerate with over 40 years of experience in the region in various sectors. The company has satisfied its domestic and overseas clients with various quality products and services since its inception.

With a fully-equipped facility extending over 10000 m<sup>2</sup>, and a total build up area of 4000 m<sup>2</sup> in Hamriyah, Sharjah, the factory is equipped with state of the art machinery for manufacturing its products. We differentiate ourselves by offering a complete solution for our clients (Design, Fabrication & Supply). We can ensure timely project completion, end-to-end quality management and budget control. Our employees are trained in the importance of value engineering, thus providing solutions, not just products.

Our team of qualified, experienced engineers and technicians can design and build as per client specifications. We are consistently working on technical innovations in order to improve the characteristics of our products, and monitor our manufacturing processes to continuously optimize it to ensure our clients the highest levels of product quality and workmanship, including on-time completion.

Our mission is to create value for our customers by providing high quality service and products, while maintaining a high level of health and safety standards and at the same time ensuring a healthy environment. Our sense of social responsibility combined with moral business ethics will surely surpass customer expectations, which is of paramount importance to position Technics globally as the best.

### Why FERREX ?

Why choose us to supply your cold rolled sections when there are so many others in this market? On this there are five top reasons why we believe you should choose us over the competition.

#### Five top reasons to choose FERREX

- Quality Products 📦
- Competitive Prices 💰
- Delivery on time and in full 🚚
- Own Branding Products 🏷️
- European Standard Approval 🇪🇺

Where required products manufactured by TECHNICS meet the necessary standards.

## INTRODUCTION

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## WHY GO FOR FERREX METAL CEILING SYSTEMS

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- I. Tile
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- II. T - Grid
  - Spring T
  - Main Channel
  - Aluminium Edge Trim
  - Cross Tee
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## COLOR AND PATTERN

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- I. Color Specifications
- II. Special Color Specifications
- III. Perforations

## ACOUSTIC ABSORPTION

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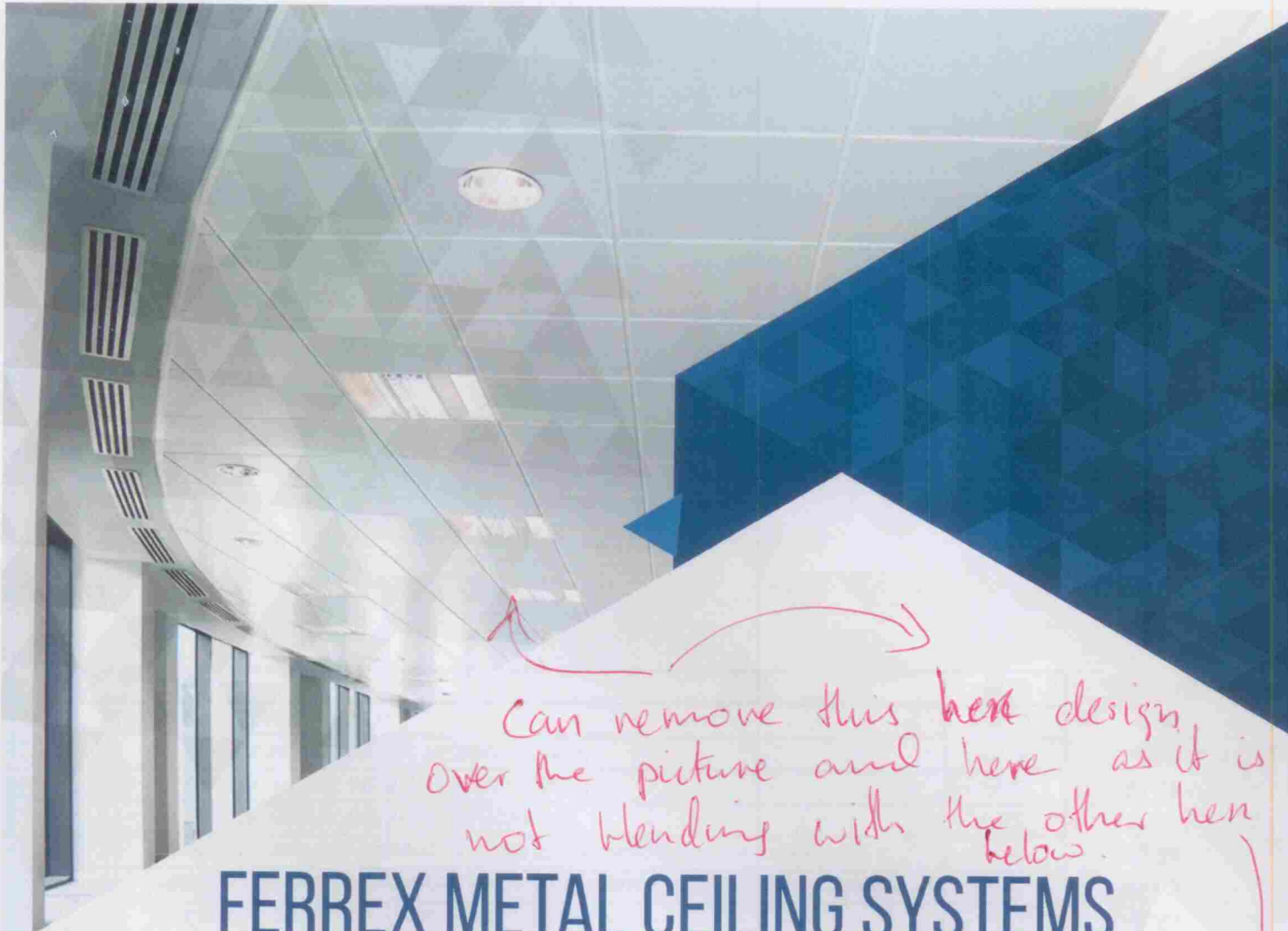
- I. Sound Absorption
- II. Sound Insulation
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## GENERAL MAINTENANCE GUIDE

20

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FERREX



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## FERREX METAL CEILING SYSTEMS

~~There is~~

Ferrex metal ceilings create quality products with high end finishes that harmonize along with the design environment to seamlessly give it an opulent finish. Our multiple ranges of ceiling tiles and grid systems accompanied together will redefine the aesthetics of the entire living space.

With our range of available designs and sizes, with options for project specific customizations coupled with superior finish and acoustic performance provides as a one stop solution for every architect and designer.

Ferrex metal ceilings are manufactured with Pre-Painted Galvanized Iron or strong lightweight Pre- Painted Aluminum. Sourcing of the finest raw materials from our trusted international suppliers ensures rust free performance along with resistance to fire and moisture. Ferrex ceiling tiles is the prime selection when it comes to quick delivery and ease of installation. The ceilings have been designed for economical and simple installations that are made on standard exposed systems.

Ferrex also offers a wide range of tile options in terms of size's, beveled edges, square designs and/or perforated designs. The standard grid patterns can be customized due to the existence of various lengths and widths. Options for signature spaces are also available such as clip in tiles that give the space a seamless finish to the ceiling.

Products here are offered in both perforated and plain forms. The perforation not only influences the visual appearance but also has a considerable effect on the acoustic enactment of the ceiling.

FERREX



## FERREX METAL CEILINGS

### Why Go For Ferrex Metal Ceilings?

#### FORM

Ferrex is home to a variety of tile options such as

- For signature spaces, special options such as Clip in tile metal ceilings together with spring T grid systems are available for a seamless finish.
- And standard tiles can be provided as far as conventional grid systems are concerned.

#### FUNCTIONALITY

The Ferrex metal tiles can be specified with a wide range of treatments that are acoustic in nature. The treatment very much depends upon the function and/or confidentiality of the work space design.

#### INSTALLATION PROCESS

Our Ceiling systems are designed for standard structure requirements, which are simple and done on basic grid systems.

#### MANUFACTURING STANDARDS

All of Our manufactured ceilings exceed or meet EN 13964.

#### FLEXIBILITY AND VARIETY

For different building scope and room dimensions, we offer different tile sizes and customized grid systems, with options for specific RAL color options. As well as with tile offerings in both perforated and plain options. The perforations not only give the tile a different attraction but also achieve to give the working space better acoustic performance.

#### LIGHTING AND INTEGRATION

Ferrex tiles can be combined with different grills, sprinkler, lighting and ventilation systems. For the ventilation inlets and lighting fixtures, easy on site customization such as cutting and bending can be done.

#### REFLECTANCE OF LIGHT

Ferrex Tiles LRV value falls within the range 63-87%. This in turn helps design architects, consultants and light experts to determine the proper lighting required for design spaces. The metal ceilings provided by us can be used for hospitals, modern work spaces, signature spaces, kitchens, and various institutions.

## MANUFACTURING MATERIALS

Our products are manufactured using PPGL and PPAL. The thickness and sizes varies as per client requirements. For more information, please visit the technical section.

## PRODUCT FINISH

Ferrex tiles come with a pre-painted finish, with a top coat ratio of 5 micron primer plus 20 micron PE which makes the tile more durable. We work with Pre coated coils in order to achieve uniform finish along on all tiles and grid systems. We can also work with tiles that is post painted according to client requirements with specific RAL requirements.

## THE FERREX BENEFITS

- We maintain international manufacturing standards, therefore quality finish which helps in achieving uniform finish across entire design space.
- Ensure stock availability of standard sizes and colors at all time.
- Options for customized products available on request.
- On time delivery.
- Solutions for Specific design spaces can be advised by Ferrex team.
- We exercise in lean manufacturing, therefore we offer competitive pricing.
- Quick easy installation time.

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# FERREX

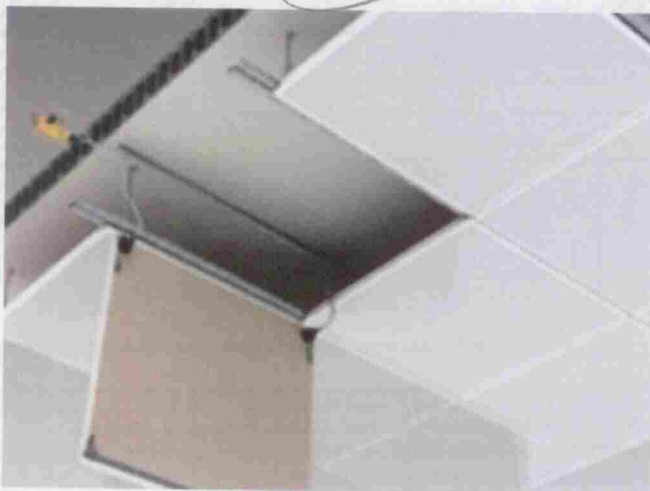
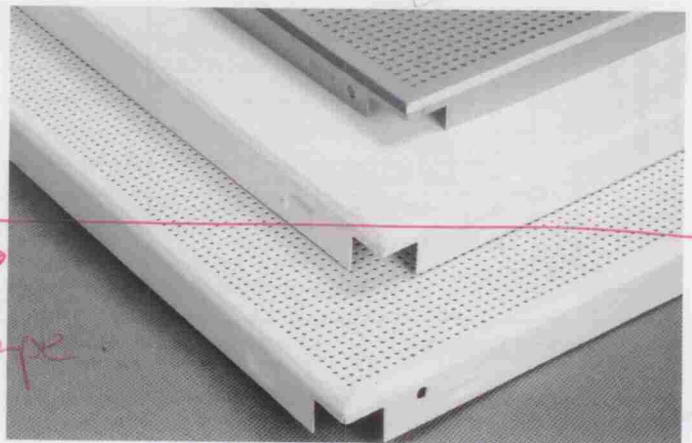
METAL CEILING SYSTEMS

+ technical specification photo's

## TECHNICAL DATA

Each tile system is formed with a specific grid system in order for it to integrate seamlessly. Ferrex metal ceiling systems offer a fully combined system that includes ceiling tiles coupled with grid suspension systems, that covers every aspect of the ceiling requirement needs.

Can you rearrange this  
Image in this shape



## TILE SYSTEM

### CLIP-IN STANDARD

Clip-In tiles offer a seamless finish without the visibility of the grid system, which gives the ceiling a smooth uninterrupted finish. Clip-in tiles are coupled with Spring-Tee grid systems to achieve the uniform finish. Clip in tiles offer least clearance from ceiling providing a feel of more living space, as well as offering quick downward access to flushed entry doors. Both normal and beveled corner options available with perforated and/or non-perforated options. For more information on grid systems, please visit the grid section.



Reference	Dimensions (mm)		Thickness (mm)	Material	Qty/ Box
	A	B			
FCA 6	600	600	0.5 to 1.2	Aluminium	22
FCA 12	600	1200	0.5 to 1.2	Aluminium	22
FCAP 6	600	600	0.50, 0.60, 0.70	Aluminium Perforated	22
FCAP 12	600	1200	0.50, 0.60, 0.70	Aluminium Perforated	22
FCG 6	600	600	0.40, 0.45, 0.50	Galvanized Iron	22
FCG 12	600	1200	0.40, 0.45, 0.50	Galvanized Iron	22

### CLIP-IN TILES

- Smooth Pre painted finish which give uniform look.
- Can keep minimum clearance between entry doors.
- Feather weight, Easy to handle.
- Easy On sight modifications for provisions for lights, fire fighting equipment and grills.
- Simple Downward access.
- Pre Painted Finish therefore easily washable.



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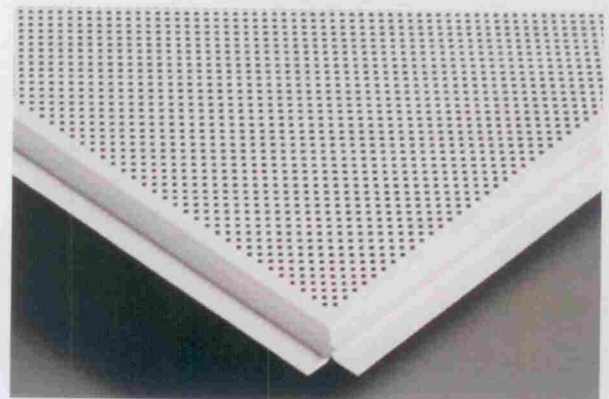
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reposition the image  
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see the **LAY-IN STANDARD**  
corner of the tile and  
less of the black area.

Lay-In tiles are designed and coupled with main Tee and Cross Tee to achieve a gridded system, which helps give quicker entry to hidden access doors and other maintenance requirements. Both normal and beveled corner options available with perforated and/or non-perforated options. For more information on grid systems, please visit the grid section.

Reference	Dimensions (mm)		Thickness (mm)	Material	Qty/ Box
	A	B			
FLA 6	600	600	0.5 to 1.20	Aluminium	28
FLA 12	600	1200	0.5 to 1.20	Aluminium	28
FLAP 6	600	600	0.50, 0.60, 0.70	Aluminium Perforated	28
FLAP 12	600	1200	0.50, 0.60, 0.70	Aluminium Perforated	28
FLG 6	600	600	0.40, 0.45, 0.50	Galvanized Iron	28
FLG 12	600	1200	0.40, 0.45, 0.50	Galvanized Iron	28

## LAY-IN

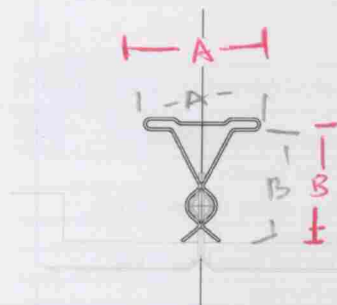
- Easily lift up without special tools to access doors.
- MicroLook can be easy installed on both Silhouette and Suprafine 15mm.
- Easily replaceable.
- Quick installation as it interlocks to grid system seamlessly.
- Reduced cost and damage during access and maintenance.
- Easy On sight modifications for provisions for lights, fire fighting equipment and grills.
- Pre Painted Finish therefore easily washable.



## T GRID SYSTEMS

MAIN COMPONENTS FOR CONCEALED/ CLIP-IN CEILING SYSTEM

### 1. SPRING TEE



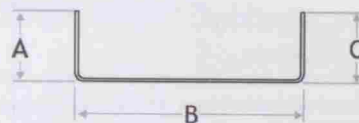
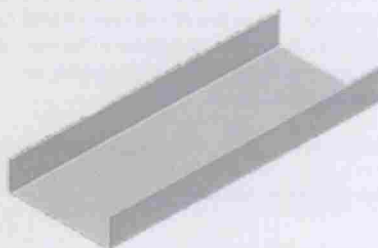
Size (mm)		Thickness	Length(mm)	Material
A	B			
35	30	0.50	4000	Galvanised Steel

STANDARD: ASTM 53/ A653M BSN EN 10346:2009

COATING: Z275

NOTE: LENGTH (MM) AND THICKNESS CAN BE MADE AS THE CUSTOMER REQUEST

### 2. MAIN CHANNEL



Size (mm)			Thickness	Length(mm)	Material
A	B	C			
12	38	12	0.50	3000	Galvanised Steel

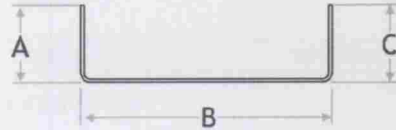
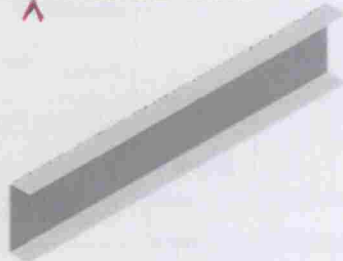
STANDARD: ASTM 53/ A653M BSN EN 10346:2009

COATING: Z275

NOTE: LENGTH (MM) AND THICKNESS CAN BE MADE AS THE CUSTOMER REQUEST



## 3. ALUMINUM EDGE TRIM

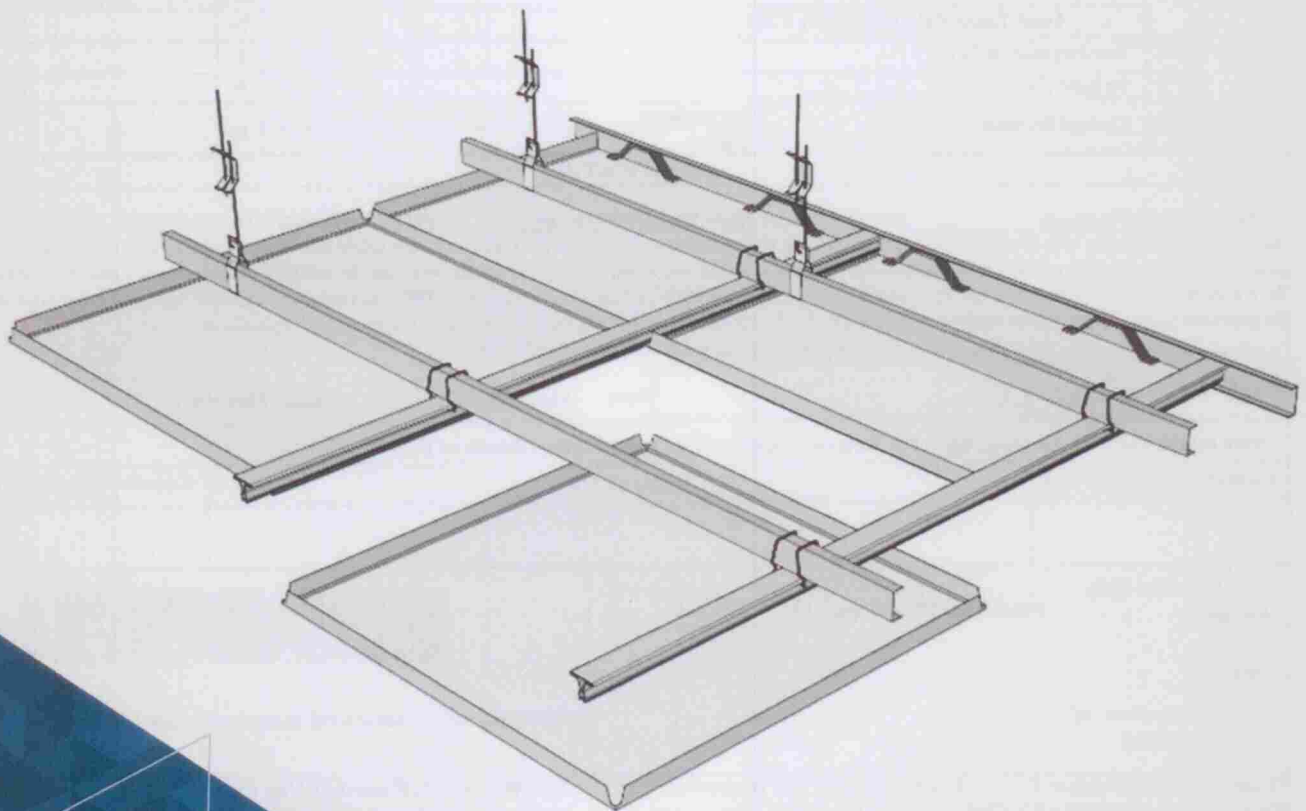


Size (mm)			Thickness	Length(mm)	Material
A	B	C			
15	38	15	0.60	3000	Aluminium

STANDARD: ASTM B-209M EURO NORMS: EN 485-4:1993

COATING: PRE-COATED

NOTE: LENGTH (MM) AND THICKNESS CAN BE MADE AS THE CUSTOMER REQUEST

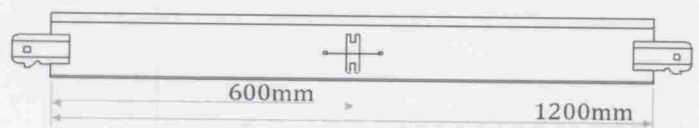
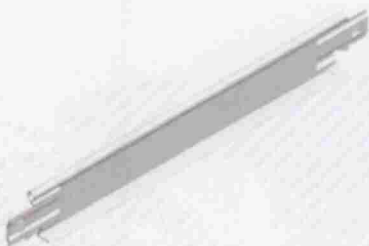


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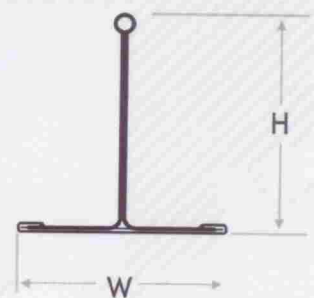
METAL CEILING SYSTEMS

## MAIN COMPONENTS FOR EXPOSED/ LAY-IN CEILING SYSTEM

### 1. CROSS TEE



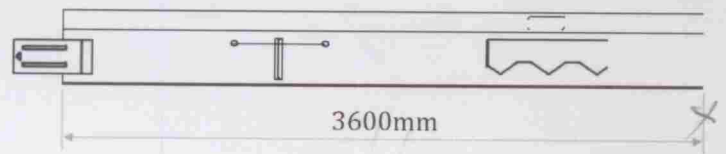
Size (mm)		Length(mm)	Material
H	W		
25	15	600	Galvanised Steel
25	15	1200	Galvanised Steel
25	24	600	Galvanised Steel
25	24	1200	Galvanised Steel



NOTE: ALL DIMENSIONS ARE IN MM

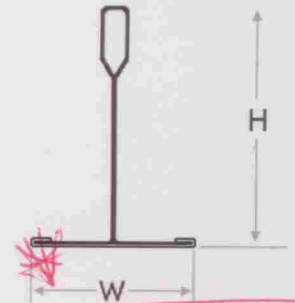
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## 2. MAIN TEE



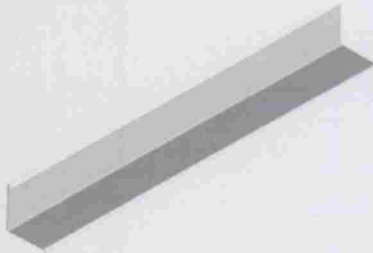
Size (mm)		Length(mm)	Material
H	W		
38	15	3600	Galvanised Steel
38	24	3600	Galvanised Steel

NOTE: ALL DIMENSIONS ARE IN MM



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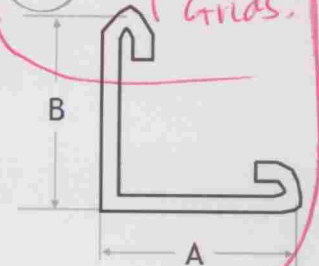
## 3. L ANGLE



Size (mm)		Length(mm)	Material
A	B		
20	20	3000	Galvanised Steel

Add → 25 25 3000 Galvanised steel.

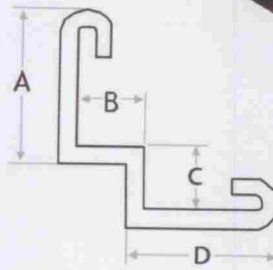
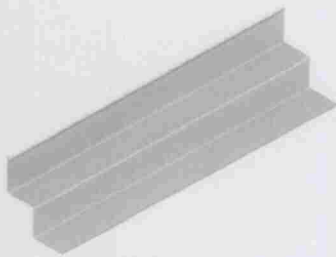
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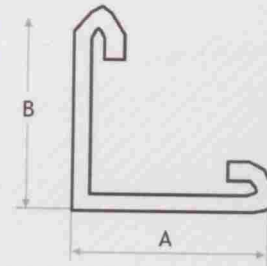
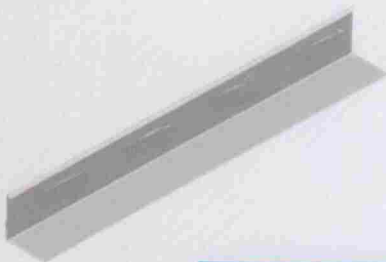


### 3. W-ANGLE (PLAIN)

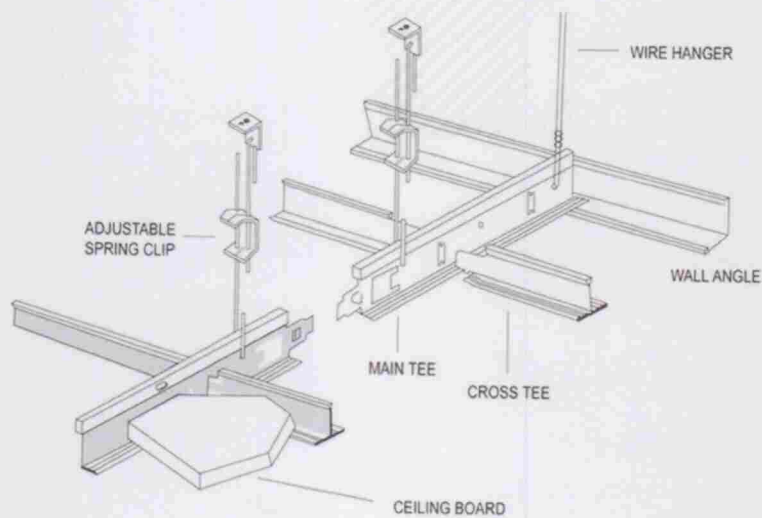


Size (mm)				Length(mm)	Material
A	B	C	D		
19	9	9	19	3000	Galvanised Steel
20	19	19	20	3000	Galvanised Steel

### 4. L-ANGLE WITH TAB



Size (mm)		Length(mm)	Material
A	B		
20	20	3000	Galvanised Steel
25	25	3000	Galvanised Steel



## COLOR AND PATTERN

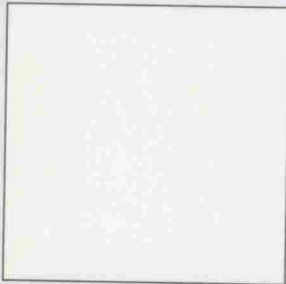
Ferrex tiles and grid systems are manufactured in RAL 9003. Upon request the tiles and grids can be manufactured in the RAL options shown below or manufactured as per client specific RAL requirements.

### COLOUR SPECIFICATIONS

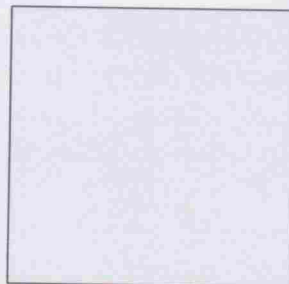
Standard colour – RAL 9003

RAL	9003
COLOR	Signal White 12% Gloss
TOP COATING	5 Micron Primer+20 Micron PE
TOP COLOR	RAL 9003 Polyester
BACK COATING	5-7 Micron

Standard colours available on request – RAL 9003, 9010, 9016



RAL 9010 PURE WHITE



RAL 9016 TRAFFIC WHITE



RAL 9003 SIGNAL WHITE

## SPECIAL COLOUR SPECIFICATIONS

### IVORY AND CREAM



RAL 9001 CREAM



RAL 1015 LIGHT IVORY

### BLUES



RAL 5013 COBALT BLUE



RAL 5024 PASTEL BLUE

### WHITES AND BLACKS



RAL 9002 GREY WHITE



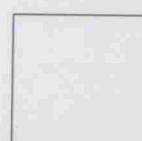
RAL 9003 SIGNAL WHITE



RAL 9005 JET BLACK



RAL 9010 PURE WHITE



RAL 9016 TRAFFIC WHITE

### GREEN



RAL 7002 OLIVE GREY

### BROWN



RAL 8017 CHOCOLATE BROWN

### REDS AND ORANGE



RAL 3002 CARMINE RED



RAL 3004 PURPLE RED



RAL 3007 BLACK RED



RAL 3015 LIGHT PINK



RAL 3016 CORAL RED



RAL 3027 RASPBERRY RED



RAL 4004 CLARET VIOLET



RAL 2011 DEEP ORANGE

### GREYS



RAL 7006 BEIGE GREY



RAL 7012 BASALT GREY



RAL 7015 SLATE GREY



RAL 7016 ANTHRACITE  
GREY



RAL 7026 GRANITE  
GREY



RAL 7030 STONE  
GREY



RAL 7040 WINDOW  
GREY



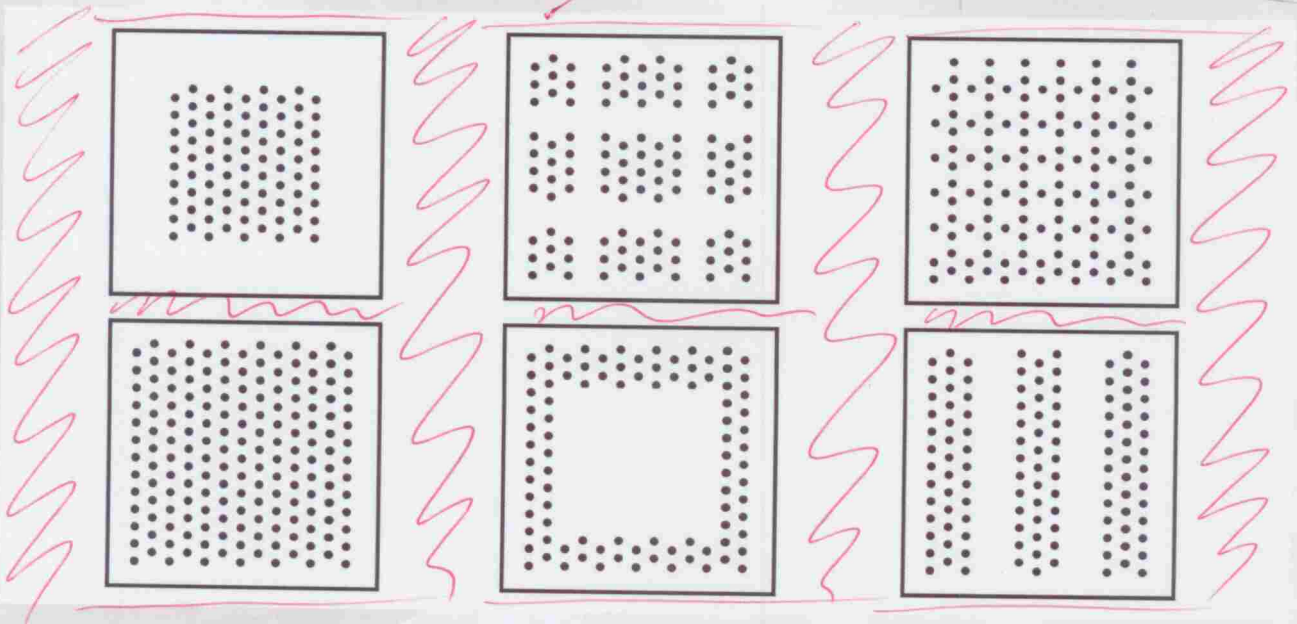
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## PERFORATION

All of our products are offered in both perforated and plain form. Our perforated designs come with 1.8mm perforations

In case of special request, the perforated products are also manufactured along with different plain borders. Similarly specialized perforated products can also be provided as per request.

can you blend to back ground.



see it is not blending here  
properly. too much here on white  
background.

~~Time catalog Page no 15/16~~

# ACOUSTIC ABSORPTION

In order to provide excellent acoustic solutions, Ferrex perforated tiles come included with non-woven sound absorption in lays in order to achieve non-reflective acoustical performance.

## COLOUR SPECIFICATIONS

Reducing noise in some design spaces such as hotels, hospitals and offices is very important. Therefore Ferrex provides sound absorbing in lays in order to reduce the reflective noise in a closed indoor space.

When it comes to space, then not all panels can be used as per advantage. After conducting many tests it has been found that DIN EN 20354 and DIN EN ISO 116554 are the panels that meet the sound absorption values that are required in space.

If you want to improve the acoustics in a certain room or reduce echo, then perforated metal ceilings should be used. This is because perforation on a panel directly affects the sound absorption values of a material.

## TECHNICAL DATA - ACOUSTIC NON-WOVEN

Technical data sheet			
Fiber	DIN ISO 2076	Cellulose + Glass	
		Synthetic resin	
Area weight	EN 29 073 - T1	63 g/m <sup>2</sup>	
Thickness	EN 29 073 - T2	0.27mm	
Max. tensile strength	EN 9073 - T3	80 N/50mm	machine direction
		50 N/50mm	cross direction
Elongation at max. tensile strength	EN 9073 - T3	2%	machine direction
		2%	cross direction

## Inflammability

The acoustic nonwoven is flame-retardant and meets the requirements of the building material standard DIN 4102-B1. Classification A1 according to EN 13501-1 is possible.





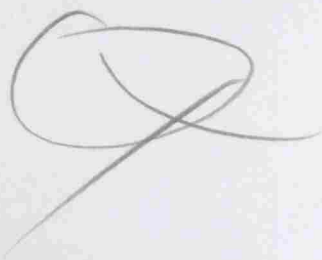
## SOUND INSULATION

The process that is used to test sound reduction values are EN ISO 140 and EN ISO 717-1. The sound reduction values are tested on a number of frequencies ranging from 100 to 3150 Hz as per ISO standards and 125 to 4000 as per ASTM. Ferrex tiles sound insulation values are very easily able to reduce the sound transmission that rises from common sources of a room.

## FIRE

When you are working on the fire safety of a building, then the most important things to consider are the building type and room where the suspended ceiling systems need to be installed. Three important things must be considered in the process.

- The First thing that must be brought under the scope is that the suspended ceiling must not contribute in the spread of the fire or the smoke. Euro class B-s1 (s2) suspended ceiling systems are able to ensure this.
- The other thing that is absolutely necessary is that during evacuation or rescue the suspended ceiling must not collapse because that would cause even more problems. This is why they can withstand heat of up to 300 C.
- Lastly, these suspended ceiling systems should not include any substances that are able to catch fire in an event of an outbreak.



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# GENERAL MAINTENANCE GUIDE

## FIELD CUTTING

Ferrex metal ceilings can be field cut into various shapes in order to offer a bit of personalization and customization, wherein to incorporate lighting fixtures, ventilation grills and fire fighting systems. It should be remembered that experienced craftsmen who have access to high quality and efficient tools should do such alterations. Extreme care must be exercised in the whole process to prevent any sort of damage that can be sustained by the surrounding.

## CLEANING

If you want to get the most out of Ferrex ceiling systems then maintenance is key. Dust can be easily wiped off using a cloth and other stains like grease can be removed using light cleaners. Heavy abrasive cleaners should be avoided.

## STORAGE AND TRANSPORTATION

All the ceiling components should be stored in a dry place and all the cartons must be handled with care in order to avoid any sort of damage.

## ACCESSIBILITY

Ferrex tiles provide very easy accessibility, adding or removing any fixture is very easy and no special tool is required for this purpose.



**FERREX**  
METAL CEILING SYSTEMS



**TECHNICS HEAD OFFICE**





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