



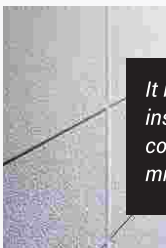
A Wide Range Metal False Ceiling Products

FALSE CEILING SYSTEM



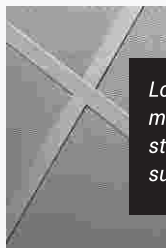
Linear Ceiling

These are known for their easy installation, rust proof nature, light weight and leak proof finish.



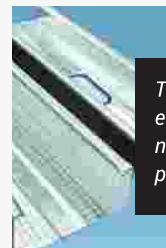
Tee Grid

It is economical, easy to install, using less labour to complete the installation in minimum time.



Metal Tile

Low life cost as they are manufactured to the highest standard durable materials such as steel or aluminium.



GI Channel

These are known for their easy installation, rust proof nature, light weight and leak proof finish.

INTRODUCTION

We have always concentrated to give better quality in the market and the result is, today we are a leading company in Metal False Ceiling System in India with our brand name **MCRA**.

MCRA is one of the respected name in metal false ceiling industry, whose commitment of quality is not comparable. We have our own standard, quality and concentration for the products. We are fully dedicated to the service, technical innovation and high standard of quality. We are continuous in process of developing anew wide range of the products.

As we are into the manufacturing of metal false ceilings, it becomes our priority to offer our client with the most amazing range of products and services. Our designs are world class and perfect for architecture and interior decorative uses. All the services and products are offered to clients based in international as well as domestic market. At present, we are into manufacturing of following products.

1. Tee Grid Suspension System (24 mm & 15 mm)
2. G.I Lay-in tiles (Plain & Perforated)
3. Aluminium Lay-in tiles (Plain & Perforated)
4. G.I Clip-in-tiles (Plain & Perforated)
5. Aluminium Clip-in-tiles (Plain & Perforated)
6. S.S Lay-in tiles
7. S.S clip-in tiles
8. G.I Linear False Ceiling System – 84C, 84R, 75C, 150C, 225C, 150F, 200F
9. Aluminium Linear False Ceiling System – 84C, 84R, 75C, 150C, 225C, 150F, 200F
10. Gypsum & P.O.P Section



A Wide Range Metal False Ceiling Products

FALSE CEILING SYSTEM



OUR PRODUCT RANGE MCRA

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WHY USE FALSE CEILING?

In every modern building, the ceiling is an important part of the interiors. There are many reasons why suspended ceilings are gaining wide acceptance in modern buildings. Some of them are:

Access to the plenum

The creation of a plenum allows the installation of air conditioning while a suspended ceiling facilitates access to this plenum. Accessibility to services such as electric, heating, ventilation, smokes detection. A telephone, air and sprinkler system is one of the important functions of suspended ceilings. **MCRA** All ceilings are designed to allow easy access. Tiles or panel may be lifted out to allow inspection, maintenance, installation or removal of concealed services.

Acoustics

Noise is major concern when designing indoor spaces. Room sound absorption is one of the most important factors in controlling built-up reverberant noise and in reducing sound transmission between rooms. Perforated Suspended ceilings provide good acoustics control both by helping to reduce sound within a room and by reducing sound transmission from room to room. Modern buildings are increasingly becoming noisy places with high people density and instrument and appliance noise. This reduces work efficiency and comfort by increasing tension, stress and irritation. Suspended acoustical ceilings serve to provide sound absorption on the most useful surface in a room. They help in reducing reverberant sound intensity within a room.

MCRA ceiling range comprises perforated panels with an acoustic non-woven material factory applied to the rear of the panels. Due to the controlled sound impedance of this perforated panel, and with a backing air space (ceiling plenum), the **MCRA** ceiling provides excellent sound absorption properties without the use of any fibrous material behind the perforated panel.

Fire Protection

Suspended ceilings should be carefully evaluated for their fire resistance and fire reaction. Ceilings should not aid fire by

being combustible or letting off harmful gases or smoke, while under fire. Ceiling should not melt, break or deformed under normal fire conditions.

Thermal Insulation

Suspended False Ceilings help in Thermal Insulation of buildings. Due to superior Thermal Insulation property of the ceiling material external heat is kept outside while air-conditioned cooling is preserved inside.

Why use MCRA False Ceilings? When selecting False Ceiling Systems, the following considerations should be taken into account:

- Affordability, including installation cost and life-cycle costs
- Appearance
- Availability
- Color and light reflectance values
- Flame spread and fire resistance
- Maintainability and refinish ability of materials
- Panel size and shape preferences
- Recycle ability
- Resistance to environmental conditions such as high humidity or wind loads
- Strength and durability
- Technical support from manufacturer
- Thermal insulation (if an insulated ceiling is required)
- Weight (an especially important consideration in building renovation projects).

The combination of all these features makes **MCRA** Ceilings the ideal choice form high quality ceilings in Office Buildings, Hotels, Hospitals, Education Facilities, Airport Buildings, Shopping Centers, Residences and virtually any other conceivable building.

MCRA The Ceiling suspension system shall be exposed lay in system to fit 600 mm x 600 mm or 600 mm x 1200 mm ceiling module. It shall be suspended to the soffit by a 4 mm diameter adjustable quick fit hanger rod system. Main Tee shall be in 38 mm / 33 mm height exposed portion (polyester coated) shall be 24 mm. All systems components are made of roll formed hot dipped galvanized steel of 0.30 mm thickness with zinc coating of not less than 120g/m² and a minimum tensile strength of 240 mpa. wall angle are 24 mm height x 24 mm expose portion made of 0.40 mm thick pre-coated coil. Both ends of the Main Tee have integral splices which can be enjoyed firmly by inserting a tab on the one end of one section into slot in the adjoining section. The exposed flange finish shall be pre-painted polyester coated galvanized steel not less than 0.30 in off-white colour with coating thickness of 20 microns top coat and 8 microns primer alkyd backer on backside.

MCRA SUSPENDED GRID SYSTEM

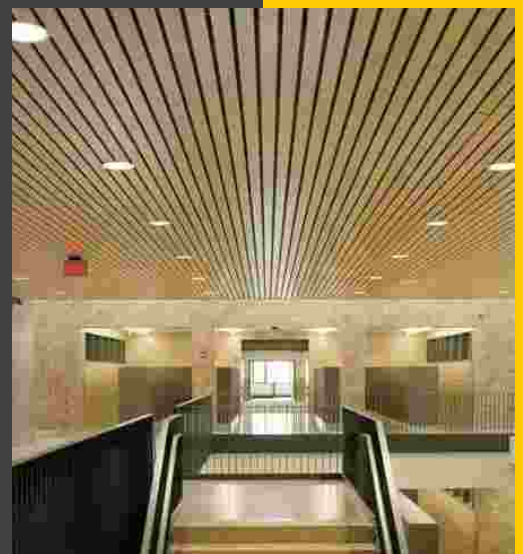
ADVANTAGES



It is economical, easy to install, using less labour to complete the installation at minimum time as compared with conventional extruded aluminium tee system. Interchangeability of main and cross tees between systems, promotes lower inventory requirements and greater field flexibility. The straight entry locking features of the section allows the system to be installed easily within close proximity of the overheads. The system promotes complete designs flexibility and it is capable of 'sustaining loads normally designed into suspended tee system refer to load table) overlap type of cross tee provide complete flush joint, eliminating gaps between main runner and cross tees and ensure rigidity at fixtures. In line cross tees provide true double-lock action.

SPECIALITIES FOR T GRID SYSTEM

- Steel material is processes by pre-painted ho-dipgalvanized steel.
- Our Zinc Mass Coating is 120 gm/m² Salt spray test for the shite pre-painted cap is for 300-Hours. The material is processed with 20 micron polyester pre-painted.
- The anti-rusty process has been incorporated into the galvanized steel.
- T-bars are produced by fully automatic machine controlling the production of straight material to maximum 0.1 mm tolerance ensuring consistent dimensioning of the grid module after installation.
- Load bearing capacity when the span is 1.2 meter, supported with hanger wire from roof for type 1 is 8.45 kg/m² and type II is 12.05 kg/m².



MCRA TEE GRID SYSTEM



Part Name	Main Tee	Cross Tee
Heavy Duty	38X24X3600X.30mm	38x24x1200x.30mm 38x24x600x.30mm
Standard	38x24x3600x0.30mm	26x24x1200x0.30mm 26x24x600x0.30mm
Regular	32x24x3600x0.30mm	26x24x1200x0.30mm 26x24x600x0.30mm
Regular	32x15x3600x0.30mm	26x15x1200x0.30mm 26x15x600x0.30mm
Wall Angle	24x24x3000x0.40mm	15x15x3000x0.40mm

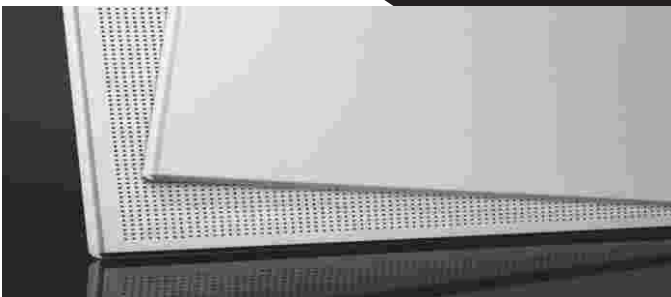
LAY-IN SYSTEMS



MCRA Lay-in false Ceiling System with steel/aluminium tile 595 mm x 595 mm is manufactured out of 0.50 mm thick polyester coil coated galvanized steel 120/180 gms zinc coating or 0.7 mm aluminium powder coated with 50 microns polyester paint in AA5050, AA3105 or AA1050 alum. alloy these tiles can have square or bevelled edges. Coil coated steel tile has 20-micron polyester coated finish and back coat of 8-micron alkyd primer. The exposed metal grid comprises of Main Runners and Cross Tees, roll formed from galvanized steel of 120/180 gms zinc coating. The main and cross tees are provided with bayonet coupling for quick installation and have a height of 33/38 mm and 25 mm. The grid is suspended from the roof with G.I. wire rods for quick adjustment by suspension hangers at max. 1200 mm and is filled with 1200 mm / 600 mm cross tees.

Hangers are fixed to roof by expansion fasteners.

Wall angle are 24 mm x 24 mm x 0.4 mm thick coil coated steel matching the colour of the tile.



Finish of the tiles :

Tiles are available in plain and perforation of 2.2 mm, 2.5 mm and 1.8 mm

CLIP-IN SYSTEM



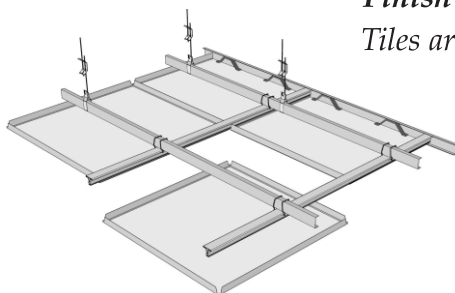
Finish of the tiles :

Tiles are available in plain and perforation of 2.5 mm and 1.7 mm

MCRA Clip-in False Ceiling System with steel/aluminium tile (600 mm x 600 mm) is manufactured out of 0.50 mm thick polyester coil coated galvanized steel 120/180 gms zinc coating or 0.7 mm aluminium powder coated with 60 microns polyester paint in AA5050, AA3105 or AA1050 alum. alloy. These tiles can have square or bevelled edges. Coil coated steel tile has 20-micron polyester coated finish and back coat of 8-micron alkyd primer. Two sides of each tile are raised and piped and stopped to ensure positive engagement into the spring Clip-in profile, yet allow for demounting of individual tiles. The rigid suspension system consists of rows of 0.5 mm galvanized steel Clip-in profiles of size 34 mm x 24 mm, installed at 600 mm c/c spacing to support the tiles. Suspension Angles are suspended from the roof structure by GI Ceiling Brackets. They are jointed to the Clip-in Profiles by Hold-on Clamps. The tiles/planks are held in place by pressure clips. In the flexible system the Hanger and Butterfly Clip replace the suspension angle. Wall angle are of size 24 mm x 24 mm and 0.4 mm thick. They are made of coil coated steel or aluminium matching the colour of tiles.

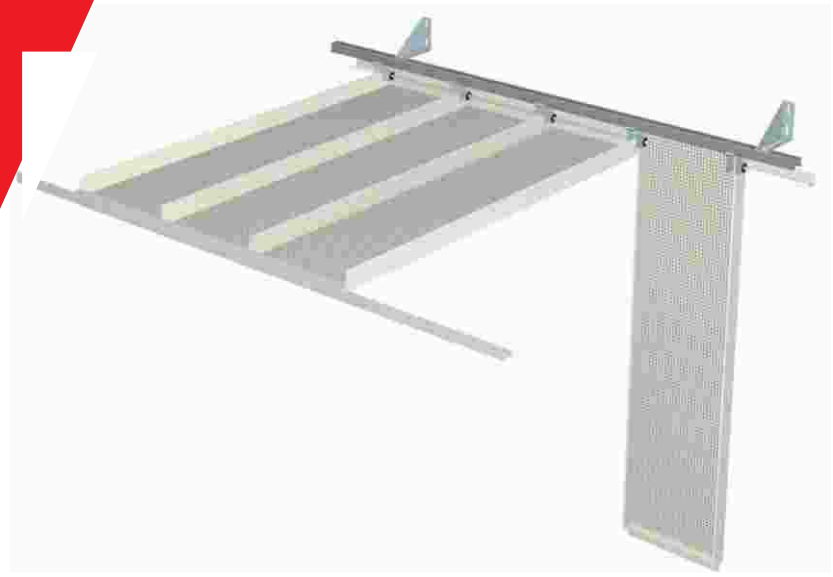
Finish of the tiles :

Tiles are available in plain and perforation of 2.2 mm, 2.5 mm and 1.8 mm





CLIP-IN SWING DOWN SYSTEM



MCRA Clip-in false Ceiling System made of Galvanized steel / Aluminium swing down tiles (600 mm x 600 mm) are manufactured out of 0.50 mm thick polyester coil coated steel 120 gsm zinc coating or powder coated with 50 microns polyester paint. Aluminium tiles are manufactured out of 0.70 mm thick aluminium sheets with powder coated 50 microns polyester paint. These tiles can have bevelled or straight edges. Coil coated galvanized steel tiles have 20 microns polyester coated finish on front side and 5 microns alkyd primer coating on back side. These swing down tiles are available in plain and perforation of 2.2 mm, 2.5 mm and 1.8 mm.

Wo side of each tile are raised and piped stopped to ensure positive engagement into the spring clip-in

profile, yet allow for swing down of individual tile. The rigid suspension system consists of rows of 0.50 mm galvanized steel clip-in profiles of size 38 mm x 20 mm, which are suspended and jointed from galvanized steel C Channels of size 10 mm x 38 mm x 10 mm with hold on clamps. Clip-in profiles are installed at 600 mm c/c spacing to support the swing down tiles. C Channels are 3600 mm long and spaced at 1200 mm centers and securely fixed with suspension angles. Suspension angles are suspended from the roof structure by G.I Ceiling brackets. In the flexible system the rod hanger and butterfly clip replace the suspension angle. Wall angle or Edge profile are of size 24 mm x 24 mm and made of 0.4 mm thick coil coated white colour sheet matching the colour of tiles.

OPEN CELL CEILING SYSTEM

MCRA aluminum open cell ceiling tiles are designed to lay onto 15mm Tee Grid. These tiles can be used without any tee grid system also. Access is gained by simply lifting the tiles out of the grid. The new Lock-In system features open cell ceiling panels with no frame or border around them. The panels simply connect to each other with easy lock in system of main and cross.

When grid system is not required, the Lock-In system of Main and Cross provides architects and designers with additional flexibility, especially in customized sizes and different colors.

Advantages :

- Easy access to lighting, ventilation systems, and sprinklers.
- Strong sense of three dimension
- The product can be match with all type of light fixtures
- The product plays a prominent role in exhaust ventilation
- Versatile range of patterns, configuration, and colors
- Available in various interior cell sizes
- Eco-friendly

Technical Details

Standard Module Cell Size

75mm x 75mm, 100mm x 100mm, 150mm x 150mm, 200mm x 200mm, 300mm x 300mm

Web Height: 50mm | **Width:** 15 mm | **Thickness:** 0.45 mm

Finish: powder-coated (epoxy polyester paint) and limitless colors.

Dimensions: other customized dimensions also available as per factory confirmation.

Substrate: Aluminum alloy

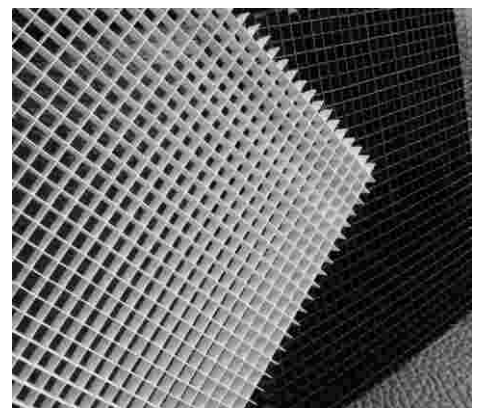
Tee Grid:

Main runner-3600mm x 15 mm x 32mm x 0.30mm

Cross tee- 1200mm x 15 mm x 26 mm x 0.30mm

Cross tee-600mm x 15 mm x 26 mm x 0.30mm

Wall Angle- 3000mm x 15 mm x 26 mm x 0.30mm



LINEAR CEILING SYSTEMS



MCRA Linear or strip ceilings provide an aesthetic linear finish to any interior. Available in a variety of profiles and modules, including 84R, 84C, 184C, 300C, 150F, 200F, 75C and 150C. The panels are available in coil steel and aluminum substrates. Perforated profiles are available 2.2mm, 2.5mm and 1.8mm perforation for acoustic applications.

Panels are available in lengths up-to 5-6 meters, to suit your design requirements

84R LINEAR CEILING SYSTEM

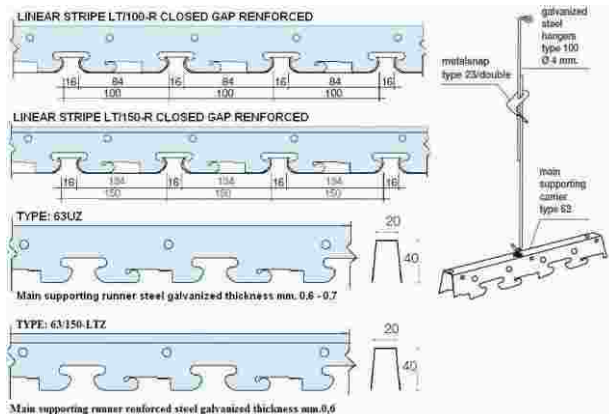
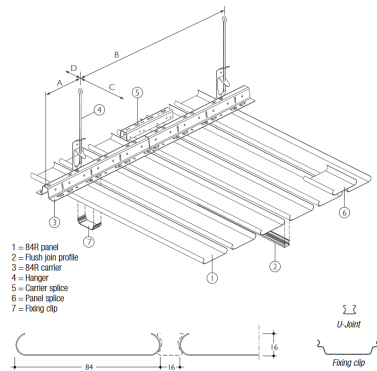
84R ceiling system comprises of 84mm x 16mm panels without flush profile (for 100 mm module only) roll formed out of metal coils. Panels are fixed on to roll formed carriers 32mm wide x 39 mm deep made out of 0.9/0.7mm Aluminum or 0.5mm galvanized steel sheet with cutouts to hold the panels in module of 100mm at maximum 1.8mm without insulation and at maximum 1.5m c/c with insulation. Carriers are suspended from the roof or truss by 4mm dia. Galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.3 m c/c. Hangers are fixed to the roof by ceiling bracket. Panels are available in max. Lengths up to maximum 5m to suit site dimensions. Edge profiles or wall angles are 24mm x 24mm x 0.4mm thick and match the colour of the panel. Flush profile can be use in between 2 panels to fill gap of 16mm.

Metal used for construction of both panels and grid:

Aluminum Alloy Aa5050, Aa3105 or Aa1050 is used to make the panels carrier. Thickness is 0.5mm for panels and 0.9/0.7mm for carriers.

Panels are made of Galvanised steel with 180/120 gsm Zinc and 20 microns polyester paint col coating sheets. Panels can be available in 50 microns polyester powder coating galvanised steel with 120/180 gsm Zinc coating or in aluminum alloy in different colours.

Finish of the panels: Panels are available in plain and perforation of 2.2mm, 2.5mm and 1.8mm.



75C/150C/225C LINEAR CEILING SYSTEM

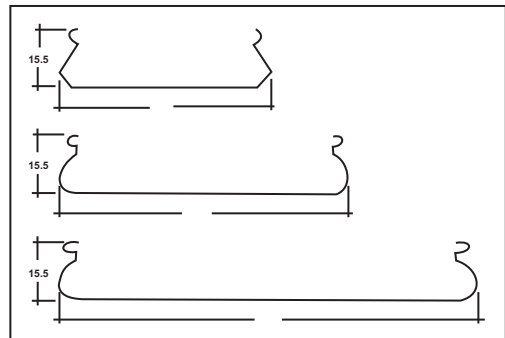
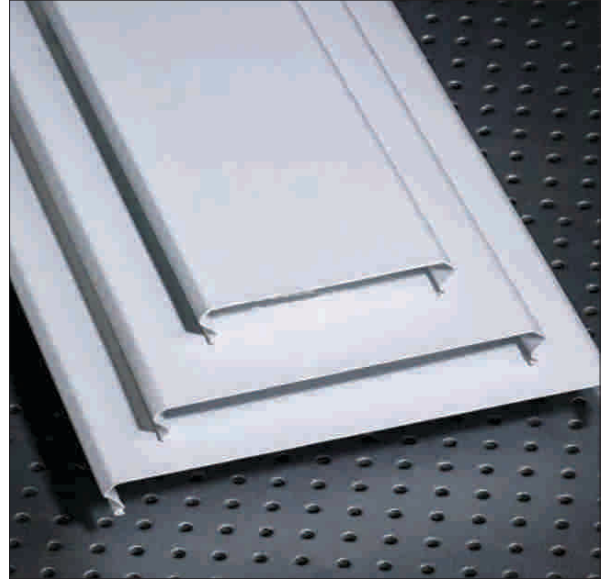
MCRA 75C / 150C ceilingsystems comprises of panels 75 mm / 150 mm wide x 15.5 mm deep with beveled groove between panels formed out of metal coils. Panels are fixed on to roll formed carriers 32 mm wide x 39 mm deep out of 0.7 mm Aluminium or 0.5 mm galvanised steel with cutouts to hold the panels in module of 100 mm at maximum 1.6 m c/c without insulation and at maximum 1.5 m c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia. galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.3 m c/c. Hangers are fixed to the roof by ceiling bracket. Panels are available in lengths up to maximum 6 m to suit site dimensions. Edge profiles or wall angles are 24 mm X 24 mm X 0.5 mm thick and match the colour of panel.

Metal used for construction of both panels and carriers:

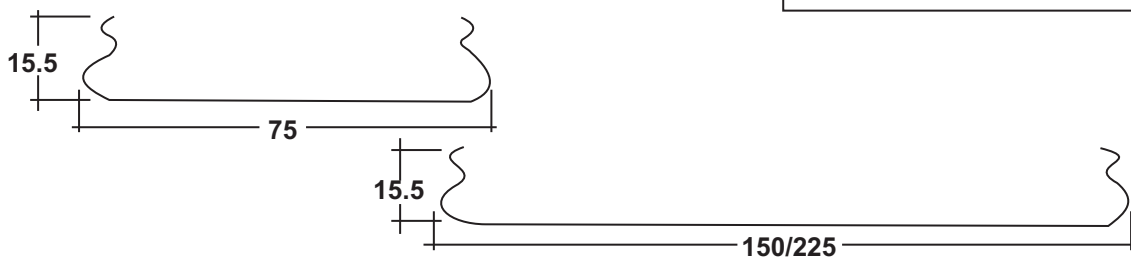
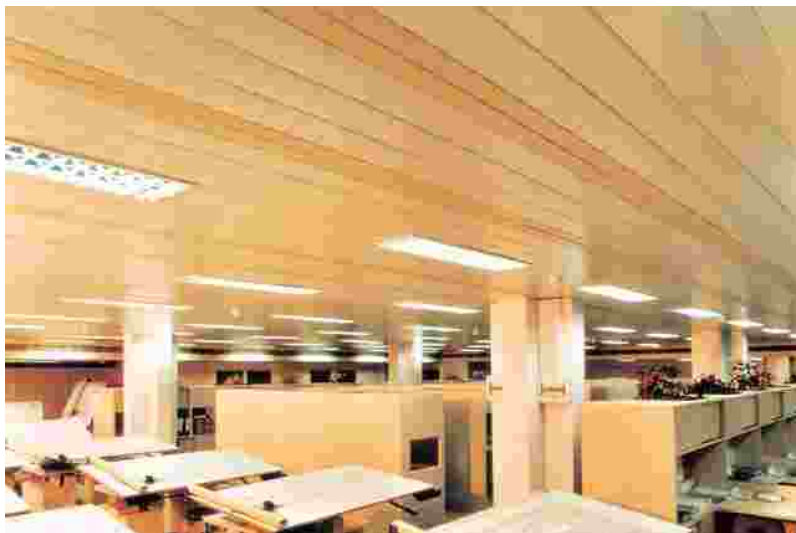
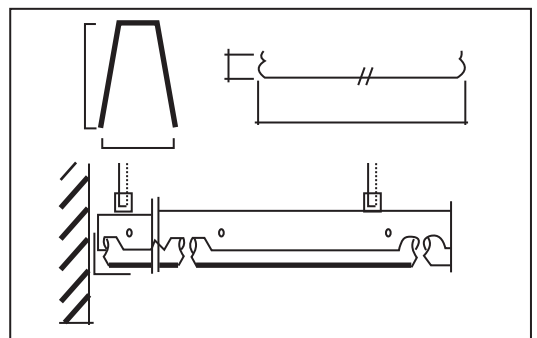
Aluminium - Alloy AA3003 AA3105 or AA1050 is used to make the panels and the carriers. Thickness is 0.5 mm for panels and 0.7mm/0.9 mm for carriers.

Mild Steel - Galvanised steel with 180 / 120 gsm Zinc coating,. Thickness is 0.5 mm for panels and 0.5 mm for carriers.

Finish of the panels: Panels are available in plain and perforation of 2.2mm, 2.5mm and 1.8mm.



75C/100C/150C System



84C/184C LINEAR CEILING SYSTEM



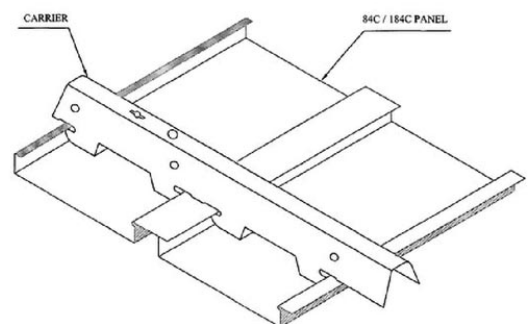
Finish of the tiles :
Tiles are available in plain and perforation of 2.2mm, 2.5mm and 1.8mm.

MCRA 84C/184C ceiling system comprises of 84/184mm x 12.5mm panels with 23.9mm flange roll formed out of metal coils galvanized coil coated steel or aluminum alloy. Panels are fixed on to roll formed carriers 32mm wide x 39mm deep out of 0.7/0.9mm Aluminum or 0.5mm galvanized steel sheet with cutouts to hold the panels in module of 100/200 mm at maximum 1.5m c/c without insulation and at maximum 1.2m c/c with insulation. Carriers are suspended from the roof or truss by 4mm dia. galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.2m c/c. Hangers are fixed to the roof by ceiling bracket. Panels are available in lengths up to maximum 6m to suit site dimensions. Edge profiles or wall angles are 24mm x 24mm x 0.5mm thick and match the colour of the panel.

Metal used for construction of both panels and carrier: Aluminum Alloy AA5050, Aa3105 or Aa1050 is used to make the panels and carrier. Thickness is 0.5mm for panels and 0.9/07 mm for carriers.

Panel are made of Galvanised steel with 180/120 gsm Zinc coating and 20 microns polyester paint coil coating sheets. Panels can be available in 60 microns polyester powder coating galvanized steel with 120/180 gsm Zinc coating or in aluminum alloy in different colours.

Finish of the panels: Panels are available in plain and perforation of 2.2mm, 2.5mm and 1.8mm.





150 F LINEAR CEILING SYSTEMS

MCRA 150F ceiling system comprised of 150mm x 17mm. Panels are fixed on the roll formed out of metal coils galvanized coil coated steel or aluminum alloy. Carriers 34.5mm wide x 48mm deep out of 0.7/0.9mm Aluminum or 0.5/0.6mm galvanized steel with cutouts to hold the panels in module of 150mm at maximum 1.2 m c/c without insulation and at maximum 1.5 m c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia galvanized steel wire rod hanger with special height adjustment suspension clip at max.1.3 m c/c. Hangers are fixed to the roof by ceiling brackets. Panels are available in lengths up to maximum 6 m to

suit site dimensions. Edge profiles or wall angles are 24mm x 24mm and match the colour of the panel.

Aluminum - Alloy Aa5050, Aa3105 or Aa1050 is used to make the panels and carriers. Thickness is 0.5mm for panels and 0.7/0.9 mm for carriers.

Mild Steel - Galvanized with 180/120 gsm Zinc coating. Thickness is 0.5/0.6 mm for panels and 0.6/0.5 mm for carriers.

Finish of the panels: Panels are available in plain and perforation of 2.5mm and 1.8mm, 2.2mm

200F LINEAR CEILING SYSTEMS



Metal Craft (MCRA) 200F ceiling system comprises of 200mm x 17mm. Panels are fixed on the roll formed out of metal coils galvanized coil coated steel or aluminum alloy. Carriers 34.5mm wide 48mm deep out of 0.9mm Aluminum or 0.5 mm galvanized steel with cutouts to hold the panels in module of 200mm at maximum 1.7 m c/c without insulation and at maximum 1.5m c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.2 m c/c. Hangers are fixed to the roof by ceiling brackets. Panels are available in lengths up to maximum 6m to suit site dimensions. Edge profiles or wall angles are 24mm x 24mm and match the colour of the panel.

Aluminum - Alloy AA5050, AA3105 or AA1050 is used to make the panels and carriers. Thickness is 0.6mm for panels and 0.9mm for carriers. Mild Steel-Galvanized with 180/120 gsm Zinc coating. Thickness is 0.5mm for panels and 0.5mm for carriers.

Finish of the panels: Panels are available in plain and perforation of 2.2mm, 2.5mm and 1.8mm.

300 C LINEAR

CEILING SYSTEMS

MCRA 300 C ceiling system comprises of 300mm wide x 30 mm. Panels are made of roll formed 0.5 / 0.7mm thick Aluminium sheet or 0.5 mm thick coil coated G.I sheets with bevel edge, panel length shall be up to 5 mtr. Panels shall be Pre-Coated 20 microns with polyester paint on the front side and 5-8 microns Primer coat on the back side. Powder coated Panels shall have 60 microns polyester paint on the front side only. Panel shall be clipped to Powder Coated G.I carrier of 41.5mm wide x 62mm deep x 0.5mm thick in standard length up to 5 mtr with cut outs to hold the panels in a module of 300mm closed at a distance 1.2 mtr. Panel carrier shall be suspended by means of G.I. suspension rod 4mm diameter and a Stainless steel suspension spring clip at a distance of 1.2 mtr c/c. G.I Edge profiles or wall angles are 24 mm X 24 mm X 0.35 mm thick shall be used on the walls with matching the colour of the panels.

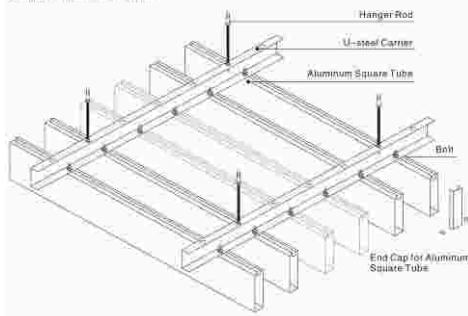
Finish of the tiles :

Tiles are available in plain and perforation of 2.2 mm, 2.5 mm and 1.8 mm



Installation Drawing For Aluminum Square Tube Screen Ceiling

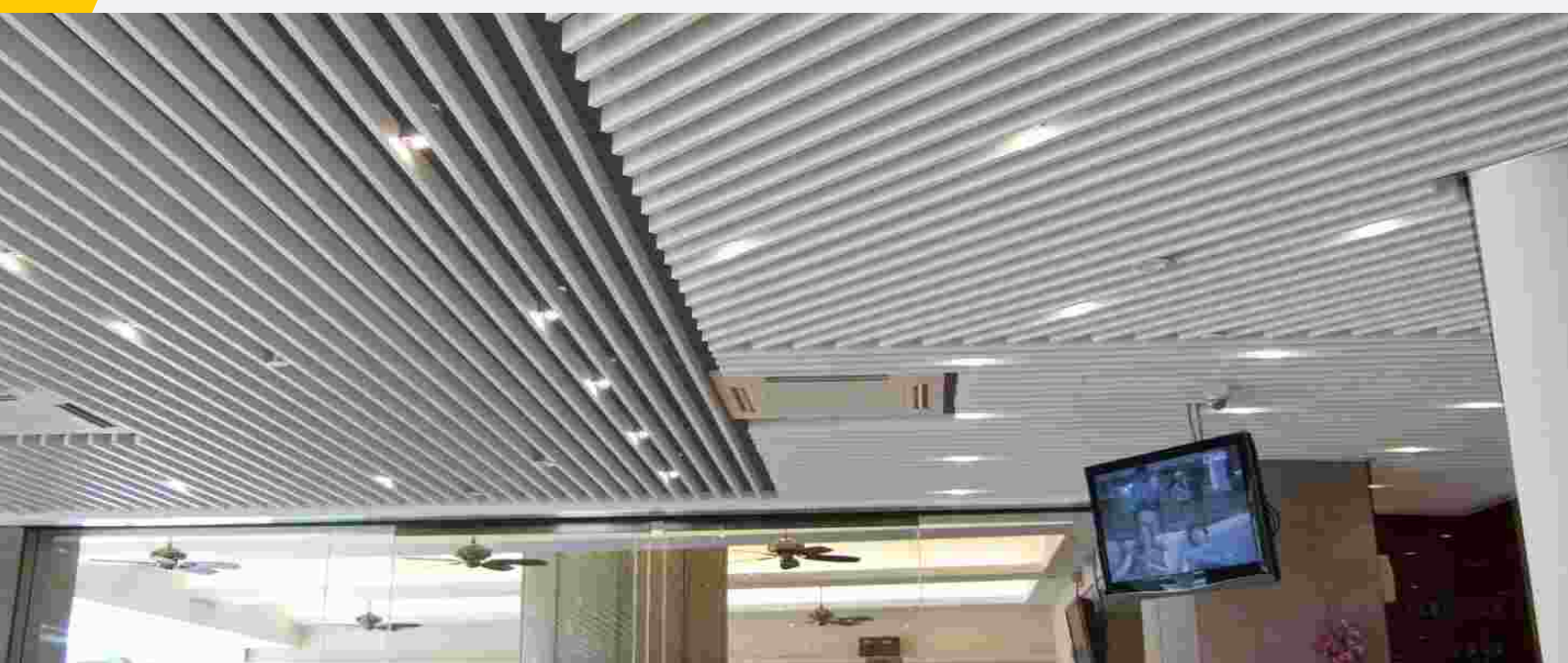
Material: Aluminum Alloy
Surface Treatment: Anodic Electrolytic Powder Coated
Standard Thickness: 0.8-1.0mm



BAFFLE CEILING SYSTEMS

MCRA having a quality range of Baffle Ceiling. Ideal for controlling sound reverberation from hard surfaces, these baffles are extremely useful in commercial and industrial areas. **MCRA** offers a variety of high performance acoustic hanging baffles in different sizes and shape. Baffle ceiling is useful for many different types of area and application. Baffle Ceiling combine performance with high NRC Ratings and value for money to solve the most demanding of noise reduction problems. Baffles that mount up in the ceiling are one of the most effective methods to reduce reverberation and noise, because both sides of the baffle are exposed to the room. There are many types and coverings for indoor and outdoor applications. These Baffle ceilings are available in Galvanized Iron and Aluminum in a choice of different colors with 60 microns powder coating. All the sound baffles are fitted with hanging system used for vertical suspended or horizontal suspended from the ceiling. These baffles are light weight and do not add any extra load on ceiling.

Available Sizes: 40x60mm, 40x75mm, 50x25mm, 50x50mm, 50x75mm, 50x100mm, 30x100mm, 25x100mm, 25x75mm, 50x150mm, 50x200mm



SUN LOUVER SYSTEM



MCRA Sun louver system is a highly functional, yet architecturally pleasing system that can add color and exciting design effects to a building facade. The system is available with panel set at the range of angles and wide range of colors and size. Also, Metal Craft sun louver system provides for flexibility in design, easy maintenance and fast installation.

MCRA Aluminum Sun Louvers 84R system comprises of 84mm wide and 16mm deep roll formed out of aluminum coils. Panels are made of 0.5mm thick aluminum alloy. Carriers are made of 0.9mm thick aluminum alloy with cut-outs.

MCRA Sun Louver system is a vertical wall sun shading system. The system use 84R that snap into vertically mounted frames. The frames can be mounted on the exterior of a building over window openings, along balconies or over open area on a building elevation.

The vertical frames are offered in two different designs that hold the panels at different angles of 35

and 45 degrees. The ranges of angles provide air flow, sun shading, safety from rainfall and desired visibility.

Applications & Features

Horizontal 84R Sun Louver system for high sun angles the horizontal application assures a constant and reliable sun control system during sunny periods.

Angled projection 84R Sun Louver system For high and medium sun angles, sloped applications give even more shade.

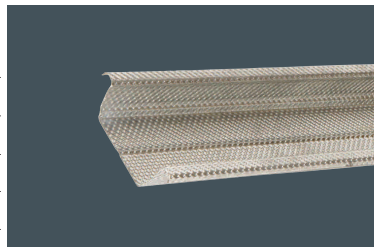
Vertical 84R Sun Louver system For lower sun angles, the vertical application allows a reliable sun control system with good visibility to the outside

Combined 84R Sun Louver system the best sun protection can be obtained using a horizontal or angled louvre in combination with vertical 84R Sun Louver. Maximum inside and outside visibility can be obtained using this solution

Protect from the strong sun light, Heat insulation, Low maintenance cost, Easy installation, Long life and gives exclusive look to the building.

CEILING SECTION
Technical Specification

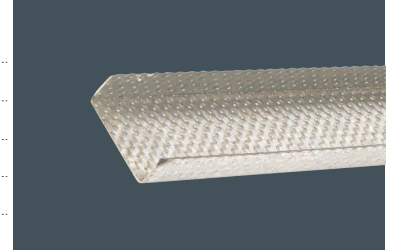
Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.50 mm
Length	3660 mm
Flange	Two equal flanges of 26 mm each and knurled web of 51.5 mm



Application : It is a main supporting member which is suspended from the soffit with raw plug, soffit cleat and MS Flat from the soffit with rawl plug, soffit cleat and MS Flat at 1220 mm c/c in one row in 1220 apart.

INTERMEDIATE CHANNEL
Technical Specification

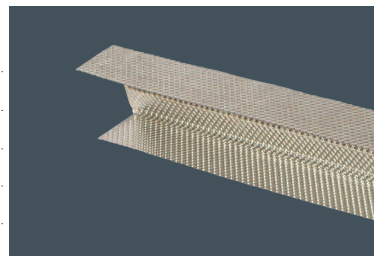
Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.80 mm / 0.90 mm
Length	3660 mm
Flange	Two equal flanges of 15 mm each
Web	45 mm



Application : Used on intermediate support to ceiling sections. It is used as a main supporting member at 1220mm c/c and is suspended from the soffit with the help of metal plugs and soffit cleat at 1220 mm apart.

PERIMETER CHANNEL
Technical Specification

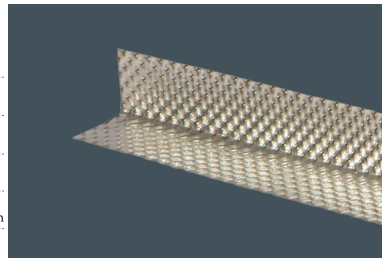
Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.50 mm
Length	3660 mm
Flange	Two equal flanges of 20mm & 30 each
Web	26 mm



Application : It is used at the perimeter of the ceiling on to the wall/partition with the help of nylon sleeves and screw at 610 mm c/c.

CEILING ANGLE
Technical Specification

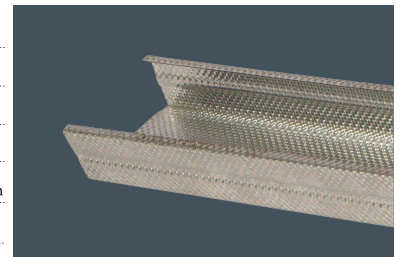
Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.50 mm
Length	3660 mm
Flange	Two flanges of 25mm x 25mm and 10mm x 25mm



Application : It is used with gypsum board steel strapping in the column and beam encasement system at the flanges and for fixing the outer layer of a double layer partition at external angles

STUD SECTION
Technical Specification

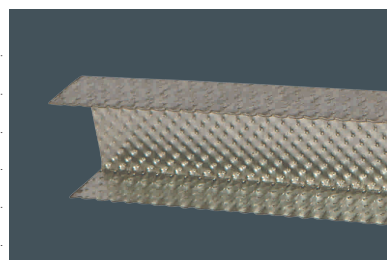
Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.55 mm
Length	3660 mm
Flange	Two flanges of 36mm & other of 34mm
Web	48mm, 73mm, 98mm



Application : It is used vertical member between the ceiling and the floor channels of metal framed partition system, it has knurling to increase strength.

FLOOR CHANNEL
Technical Specification

Basic Steel	Cold Rolled Steel
Galvanization	Hot Dip Galvanized (120 gsm)
Thickness	0.55 mm
Length	3660 mm
Flange	Two equal flanges of 32 mm
Web	50/75/100mm with a flange of 32mm



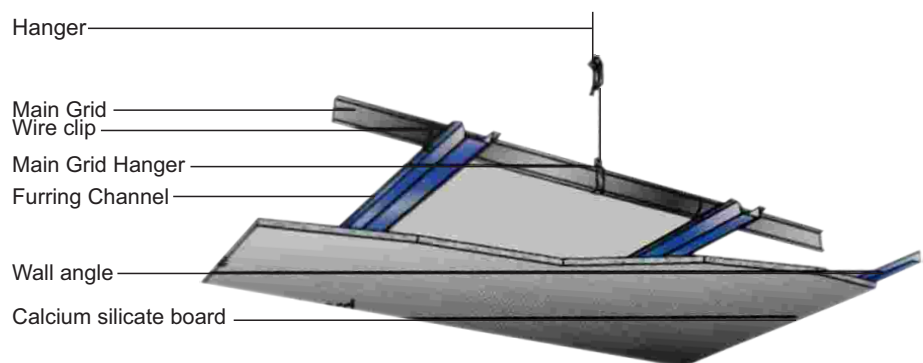
Application : It is used horizontal metal section at the ceiling and floor in metal framed partitions systems.

PARTIAL CHEMICAL COMPOSITION FOR ALUMINIUM ALLOY AS PER ASTM B209

Element	Grade Symbol	5050 Max. %	1060 Max.%	3105 Max.%
Manganese	Mn	0.1000	0.0300	0.8000
Silicon	Si	0.4000	0.2500	0.6000
Aluminum	Al	98.8999	99.7999	99.4999
Iron	Fe	0.7000	0.3500	0.7000
Chromium	Cr	0.1000	-	0.2000
Copper	Cu	0.2000	0.0500	0.3000
Magnesium	Mg	1.8000	0.0300	0.8000
Zinc	Zn	0.2500	0.0500	0.4000
Titanium	Ti	-	0.0300	0.1000
Vanadium	V	-	0.0500	-

MACHANICAL PROPERTIES FOR ALLOY 5050

TEMPER	TEMPERTENSILE STRENGTH (Mpa)				ELONGATION %
	ULTIMATE		YIELD		
	H46	Min 186	Max 200	Min 152	Max 186





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MCRA is manufacturers of all types Metal False ceiling products started in various building products over a period. It's providing their clients like Architects, Interior Designers and Turnkey Interior Contractors with the best quality and economical metal profile for designing and execution of metal shades and ceilings.



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