

# METALIUM™

Synergy of Interior & Exterior

Metal Ceilings | Exterior Louvres



[www.tline.in](http://www.tline.in)



T-Line a Product of INNER SPACE, Mumbai

## About us

Metalium Architectural Products is one of the most renowned Manufacturers in the development and supply of advanced Metal False Ceiling and Louvres Systems, having fully Automatic plant with our own Powder coating unit at Ahmedabad, Gujarat, India.

The company's current product range is wide and is designed and manufactured to provide highly attractive and cost effective long term ceilings solutions made of Aluminium Alloy AA8011 / AA3003 / AA3105 / AA5050, Galvanized Steel of IS-14246-1995 with zinc coating of 120 GSM – zinc 277 and Stainless Steel of Grade 304 (Mirror Finish / Brush Finish). In addition they satisfy today's exacting high performance criteria relating to fire and acoustics.

With Quality Assurance procedures in accordance with ISO 9001:2008, the company is committed to ensuring that high quality products are available to meet customers / Architects / developers requirements. Technical detail is provided by our Technical team.



ISO 14001:2015 | ISO 9001:2015 | OHSAS 18001:2007

## Functional Utility

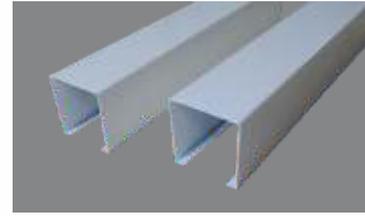
- Better Acoustics
- Superb Aesthetics
- Recyclability – Green Product
- Light Weight
- Washable – Water Resistive
- Ease of maintenance
- Corrosion Resistive
- Fire Retardant
- Clean Room Application
- Ultra Durable
- Easy to Install & Access
- Colour Combination
- Customized Sizes
- Termite proof

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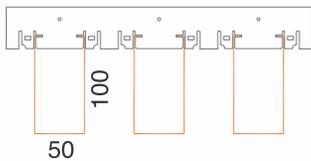


# U Shaped Screen

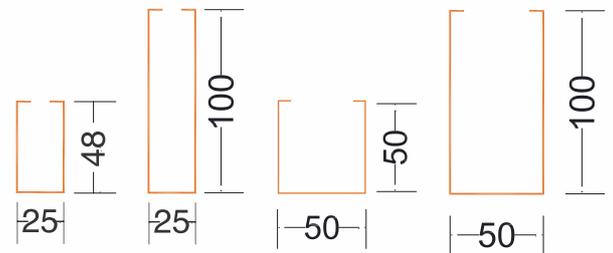
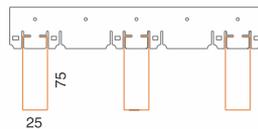


U-Shaped Baffle Box Louvres are an easily mounted and extremely versatile exterior cladding system. U-shapedBox is an economic but long-lasting solution for external cladding. Special unique Powder coating finish on panel is not affected by dirt and humidity. Shapes, colours, materials and technology, Metalium truly offers endless choices.. It allows combination of Multi U Shaped panels, available in wood, metallic and texture finish.

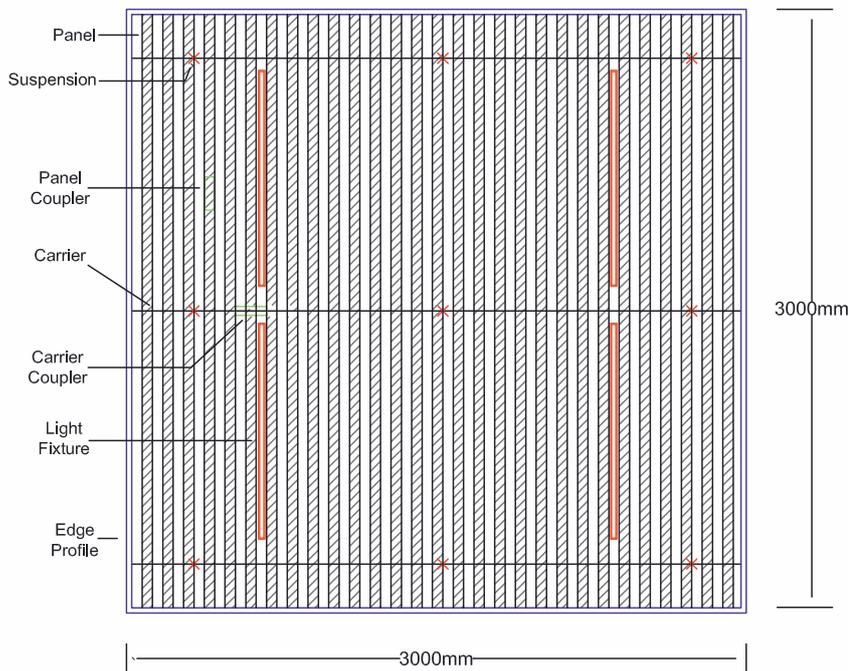
P50 U-Shaped Screen Panel



P25 U-Shaped Screen Panel



Reflected Ceiling Plan For METALIUM U-Shaped P50 Baffle False Ceiling Systems



## Technical Details

**Panels:** P50 Panel - 50mm / 150mm / 125mm wide, & P25 Panel - 25mm / 75mm / 100mm, 50mm / 100mm deep, length up to 3 mtr, Galvanized Steel 0.5mm / 0.45mm & 0.65mm Aluminum – TCT.

**Carrier:** Various gap, 25mm / 50mm / 75mm / 100mm made of Galvanized Steel 0.5mm thick stove enameled black.

**Paint finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

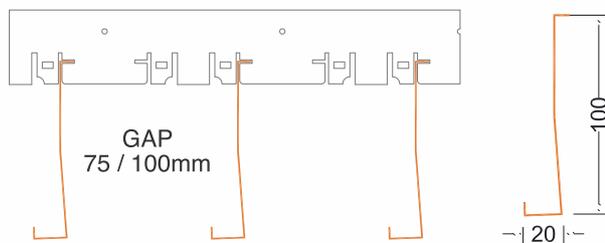
**Suspension:** Height adjustment Spring Steel Big clip, 4mm dia GS Rod, Panel coupler, Carrier coupler, GS / Aluminum Edge Profile.



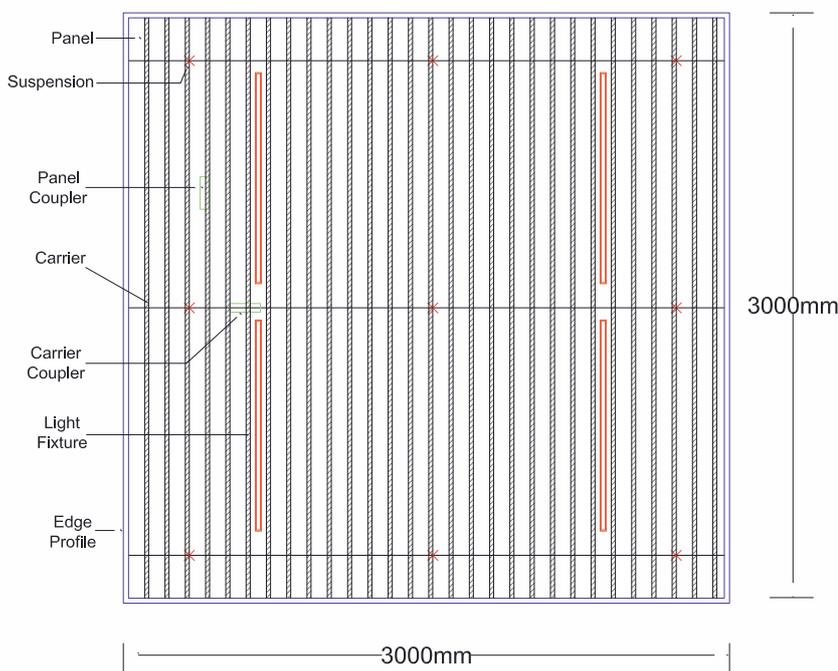
# Z Shaped Screen



Z-Shaped Open Screen ceiling profiles that are hung vertically from the suspension to form an open screen linear perspective interior ceilings. It can be seen that Z-Shaped system offers provision for air movement through the ceiling and light fitting, sprinkler etc.



Reflected Ceiling Plan For METALIUM Z-Shaped False Ceiling Systems



## Technical Details

**Panels:** Height 100mm, width 20mm, length up to 3 mtr., Galvanized Steel 0.55mm & 0.71mm Aluminum-TCT.

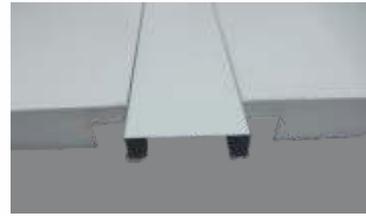
**Carrier:** Center to Center 100mm / 75mm, Galvanized Steel 0.5mm thick stove enameled black.

**Paint Finish:** 55 microns thick powder coating.

**Suspension:** Height adjustment Spring Steel Big clip, 4mm dia GS Rod, Panel coupler, Carrier coupler, GS / Aluminum Edge Profile.

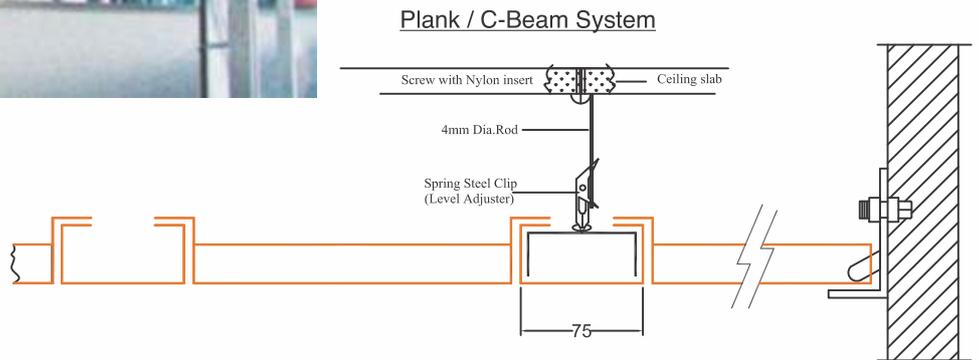
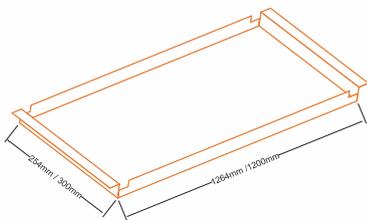


# Plank C Beam

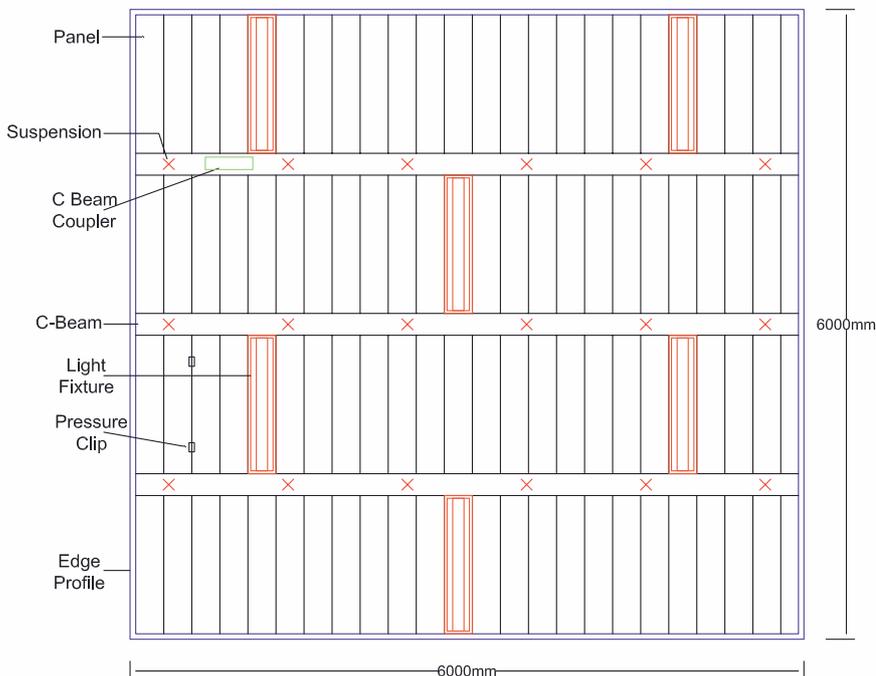


The Beam Sections are arranged in one direction to create a linear ceiling effect, and are used to support the ceiling panels and light fittings.

Beams can be produced in a variety of width 75mm, 100mm, 150mm and tiles are generally supplied 254mm wide to standard length.



Reflected Ceiling Plan For METALIUM Plank / C Beam False Ceiling Systems



## Technical Details

**Panels:** Square edge 1264\*254mm / 1200\*300mm & Customized

**Beam:** 75mm / 100mm / 150mm.

**Material:** Galvanized Steel 0.5mm / 0.45mm.

**Paint finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

**Suspension:** Height adjustment Spring Steel small Clip, 4mm dia Rod, GS Hold on Clamp & Panel clip, Pressure clip, GS / Aluminum Edge Profile.



# Clip-In Tile



Clip-In concealed panels provide durable and monolithic ceilings for interior and can be used in external conditions where the False Ceiling is not directly exposed to rainfall.

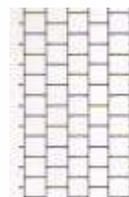
Clip-In panels are available in a variety of rectangular and square sizes like 600 x 600mm, 1200 x 600mm, 1200 x 300mm, 300 x 300mm & custom sizes.

It is so Ideal for hospital, clean rooms, food processing area, Pharmaceuticals etc.

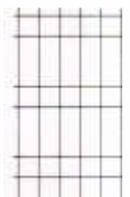
## Possible Lay-Outs



Straight Joints

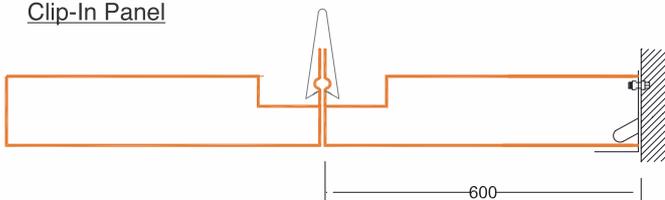


Staggered Joints

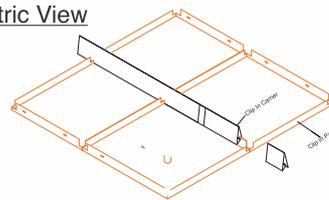


Combined Tile Sizes

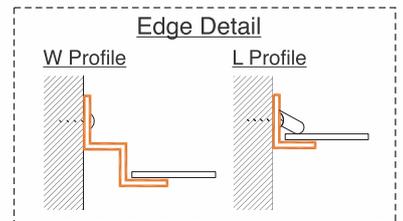
Clip-In Panel



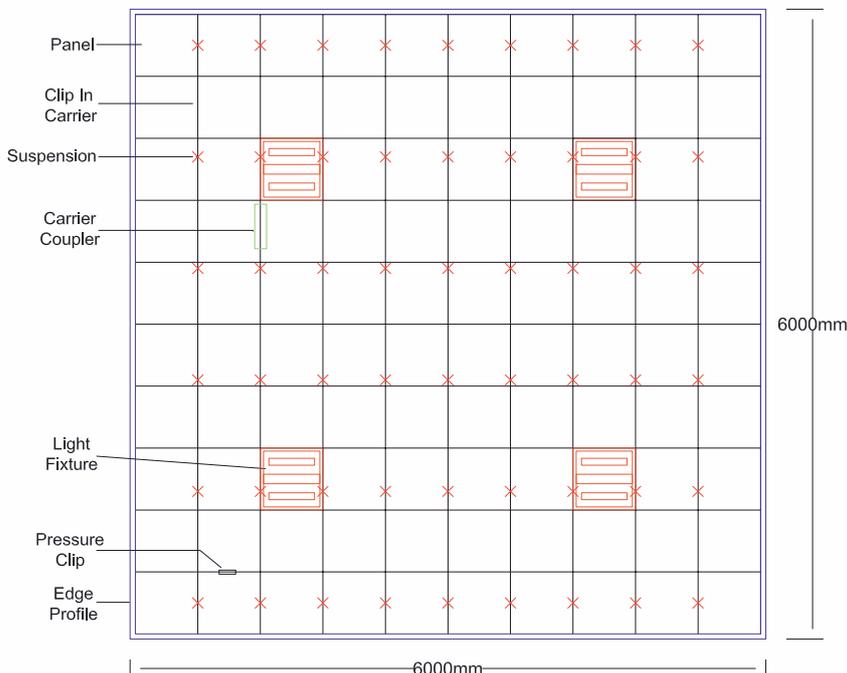
Isometric View



Edge Detail



Reflected Ceiling Plan For METALIUM Clip-In 600x600mm False Ceiling Systems



## Technical Details

**Panels:** For Flush & Concealed look, Square edge tiles of 600 \* 600mm / 1200 \* 600mm / 1200 \* 300mm, 1264\* 254mm & Customized.

**Material:** Galvanized Steel 0.5mm / 0.45mm, Aluminum 0.7mm / 0.65mm, Stainless Steel 0.4mm - TCT.

**Perforation Details:** 2.5mm, Center to Center in Regular Pattern.

**Paint Finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

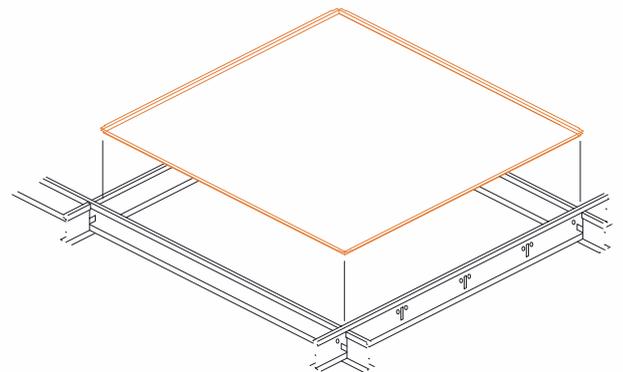
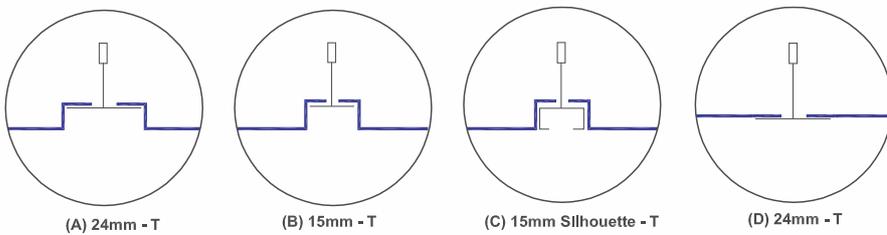
**Suspension:** GS Clip In Carrier, GS Clip In Carrier Coupler, GS Hold on Hanger, Pressure Clip, 4mm dia GS Rod, height adjustment Spring Steel small Clip, GS / Aluminum Edge Profile.



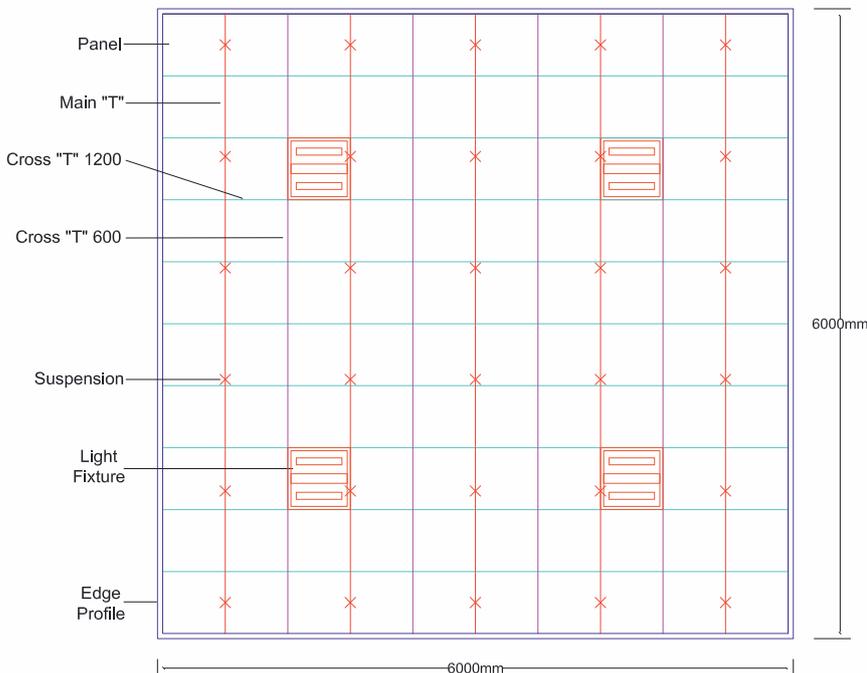
# Lay-In Tile



Lay-In tile is most popular bearing system to realize false ceilings with visible 24 mm, 15 mm & Silhouette / center black T grid. Panels are durable and versatile metal panel ceilings available in a wide variety of sizes like 600\*600mm, 1200\*300mm, 1200\*600mm etc. Lay-In tile is simple to install and give easy access to equipment installed above them, allowing rapid intervention & maintenance. Lay-In tegular system provides an economic solution to many ceiling requirement. Various acoustical criteria can be met with the inclusion of acoustical inlays in the back of a perforated tile.



Reflected Ceiling Plan For METALIUM Lay-In 600x600mm False Ceiling Systems



## Technical Details

**Panels:** Square / Beveled edge, 600 \* 600mm / 1200 \* 600mm / 1200 \* 300mm & Customized.

**Material:** Galvanized Steel 0.5mm / 0.45mm / 0.40mm, Aluminum 0.7mm / 0.65mm, Stainless Steel 0.4mm - TCT.

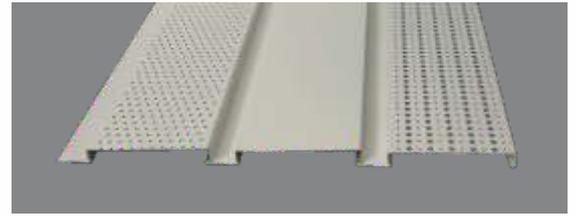
**Perforation Details:** 2.5mm, Center to Center in Regular Pattern & Square Perforation.

**Paint finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

**Suspension:** Spring Steel Butterfly clip, 4mm dia GS Rod, GS / Aluminum Edge Profile & recommended "T" grid system.

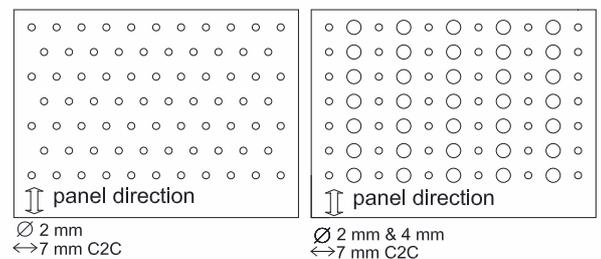


# Linear 84C / 184C

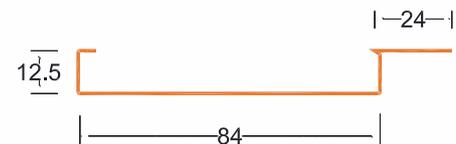
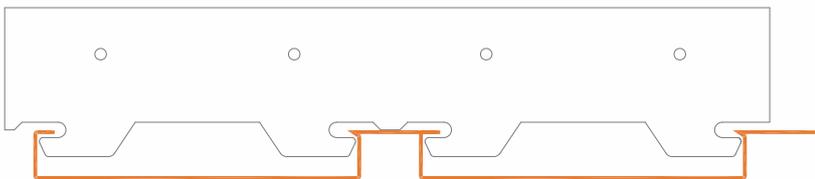


Linear 84C has been used extensively on exterior and interior applications and gives designers options for visual design continuity. Panels are clipped into the concealed suspension system to form a closed joint linear ceiling. It will give a rhythm to any Project, where colors & length come together. Various acoustical criteria can be met with the inclusion of acoustical inlays.

### Perforation Pattern



84C Panel



## Technical Details

**Panels:** Square edge, 84mm wide, 12.5mm deep, length up to 5 mtr.

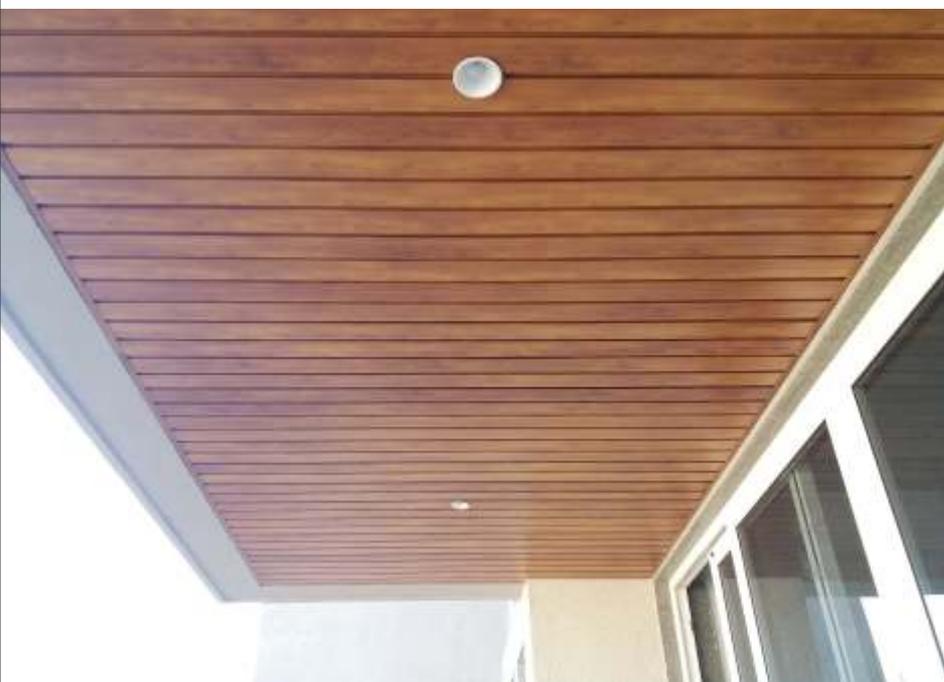
**Material:** Galvanized Steel 0.5mm / 0.45mm, Aluminum 0.65mm / 0.71mm - TCT.

**Carrier:** Carrier shall be 20 mm wide at bottom and 39 mm deep of 0.5mm Galvanized Steel stove enameled black to hold Panel in module of 100 mm.

**Paint Finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

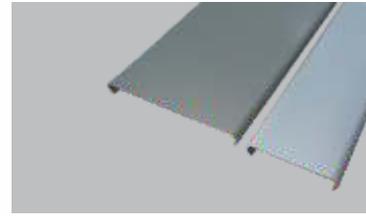
**Perforation:** 2mm dia with 7mm center to center diagonal pattern & 4mm, 2mm combine acoustical perforation.

**Suspension:** Height adjustment Spring Steel Big clip, 4mm dia GS Rod, Panel coupler, Carrier coupler, GS / Aluminum Edge Profile.





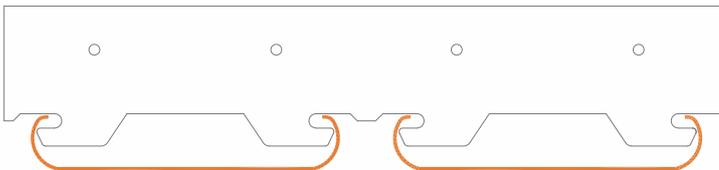
## Linear 84R / 184R / with flush cap



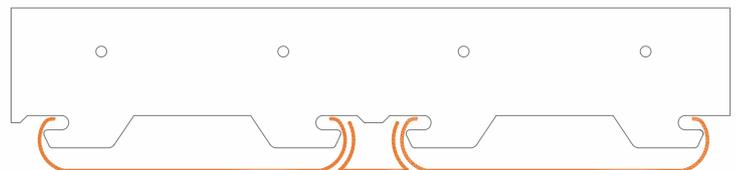
Linear 84R Ceiling is known for its attractive and fluid lines. The spaces between the panels may be left open for acoustical or air movement requirements, or closed with separate Flush Cap to give concealed look. Panels can be easily removed & replaced by hand allowing easy and full access to services.



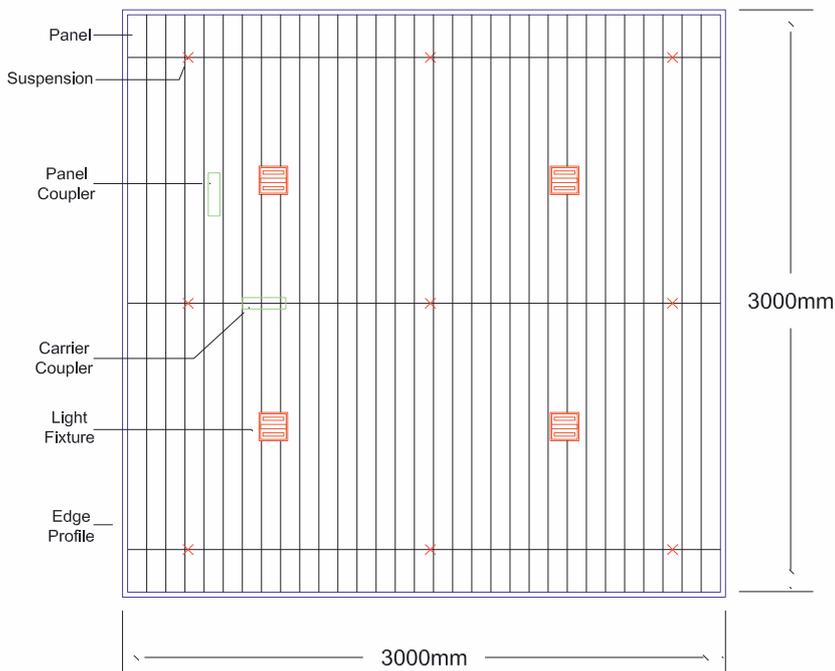
84R Panel



84R Panel with Flush Profile



Reflected Ceiling Plan For METALIUM Linear 84R False Ceiling Systems



## Technical Details

**Panels:** Round edge, 84mm wide, 15mm deep, length up to 5 mtr.

**Material:** Galvanized Steel 0.5mm / 0.45mm, Aluminum 0.65mm / 0.5mm, Stainless Steel 0.4mm - TCT.

**Flush Cap / Recess Cap:** Aluminum 0.5mm to be inserted in 16mm gap between two 84R panels.

**Carrier:** Carrier shall be 20 mm wide and 39 mm deep of 0.5mm Galvanized Steel stove enameled black to hold Panel in module of 100 mm.

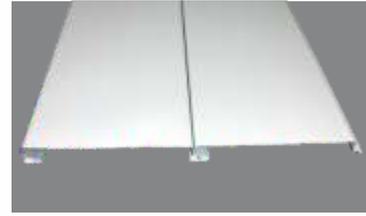
**Paint finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

**Perforation:** 2mm dia with 7mm center to center diagonal pattern & 4mm, 2mm combine acoustical perforation.

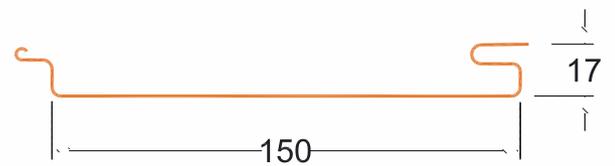
**Suspension:** Height adjustment Spring Steel Big clip, 4mm dia GS Rod, Panel coupler, Carrier coupler, GS / Aluminum Edge Profile.



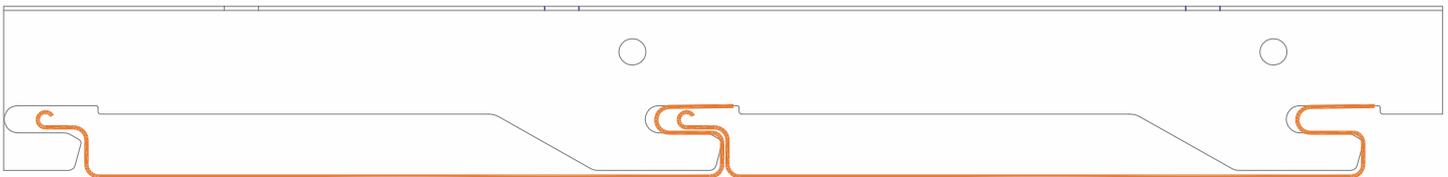
# Linear 150F



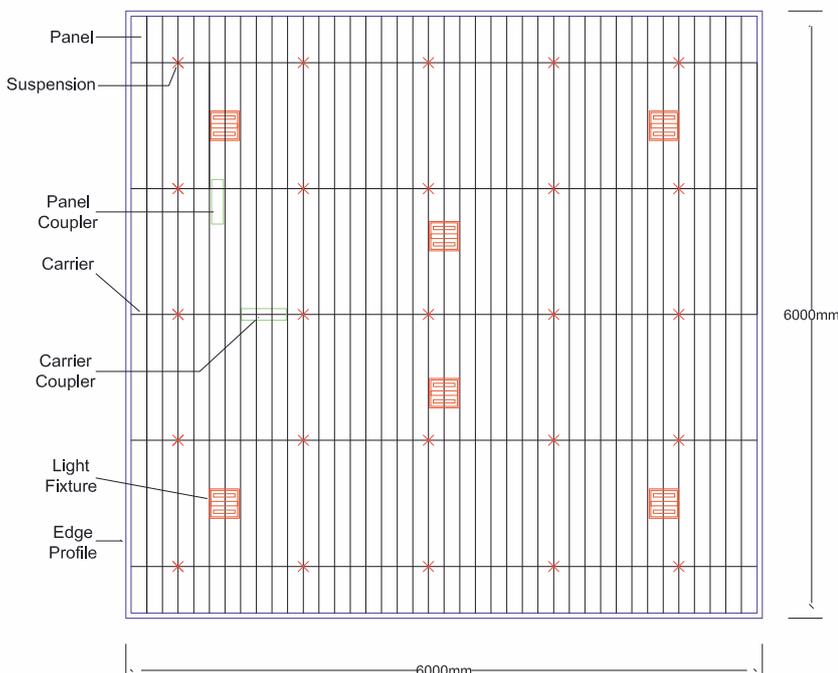
Metalium 150F, specially designed arrangement make the Ceiling completely interlocked and air tight for a smooth look & uninterrupted appearance, which are able to withstand extreme wind pressure.



150F Panel



Reflected Ceiling Plan For METALIUM 150F False Ceiling Systems



## Technical Details

**Panel:** 150mm wide, 17mm deep, length up to 5 mtr. with interlock flange to give flush look.

**Material:** Galvanized Steel 0.5mm.

**Carrier:** 20mm wide at bottom, 48mm deep of 0.60 mm thick Galvanized steel stove enameled black to hold panel in module of 150mm.

**Paint Finish:** 55 microns thick powder coating on exposed surface or 25 micron polyester coil coated over primer on visible surface with primer coat on rear side.

**Suspension:** T leveler, GS Suspension Angle, Panel Coupler, Carrier Coupler, GS / Aluminum Edge Profile for interior use.

# Wooden Coating

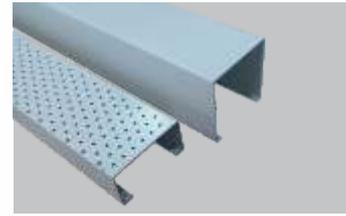


Natural Wood finish concept is increasing widely in ceilings, claddings & acoustics nowadays. The desired wood look can be obtained while enjoying the familiar advantages of metal ceilings. The creative possibilities are almost unlimited, with aesthetic and reliable functionality.

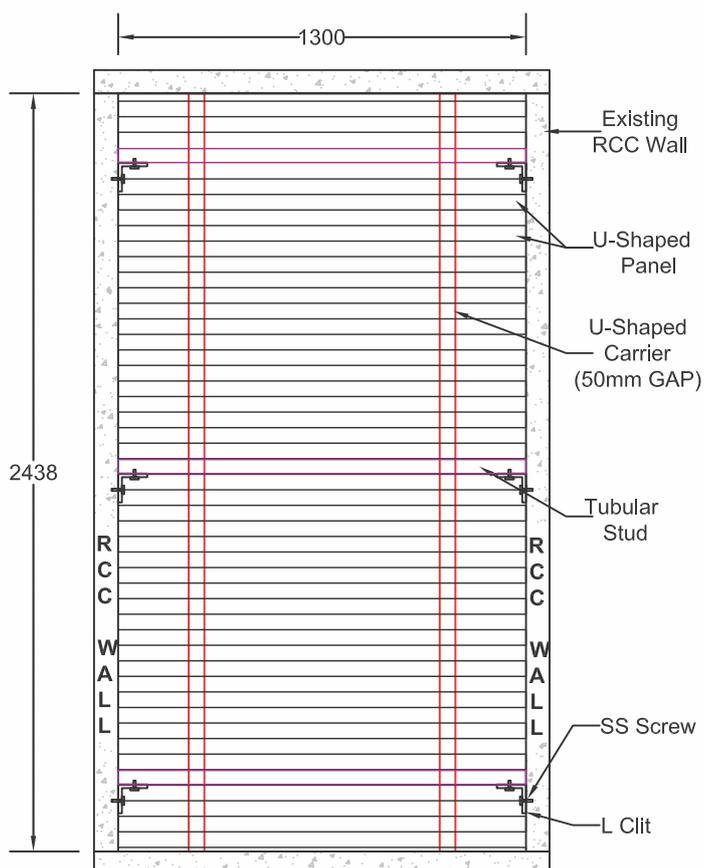




## U-Shaped Baffle Louvre



U-Shaped Baffle Box Louvres are an easily mounted and extremely versatile exterior cladding system. U-shaped Box is an economic but long-lasting solution for external cladding. Special unique Powder coating finish on panel is not affected by dirt and humidity. Shapes, colours, materials and technology, Metalium truly offers endless choices. It allows combination of Multi U Shaped panels, available in wood, metallic and texture finish.



### Technical Details

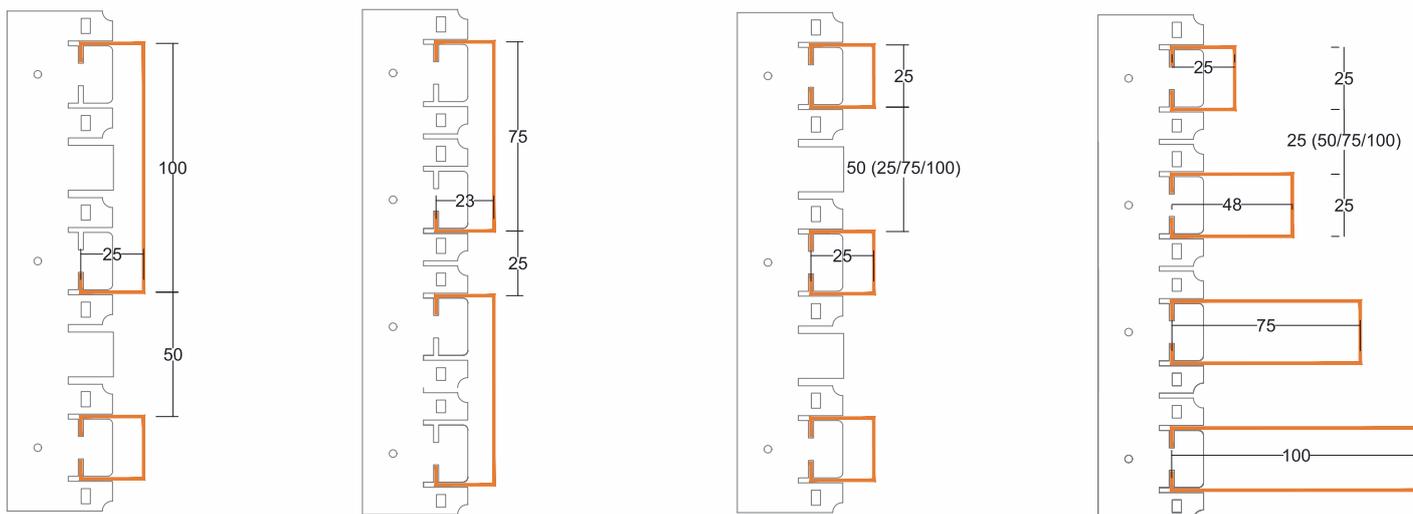
**Panels:** 50mm / 150mm / 125mm wide, length up to 3 mtr., Galvanized Steel 0.5mm & Aluminum 0.65mm –TCT.

**Carrier:** Various gap, 25mm / 50mm / 75mm / 100mm made of Galvanized Steel 0.6mm thick stove enameled / coil coated black.

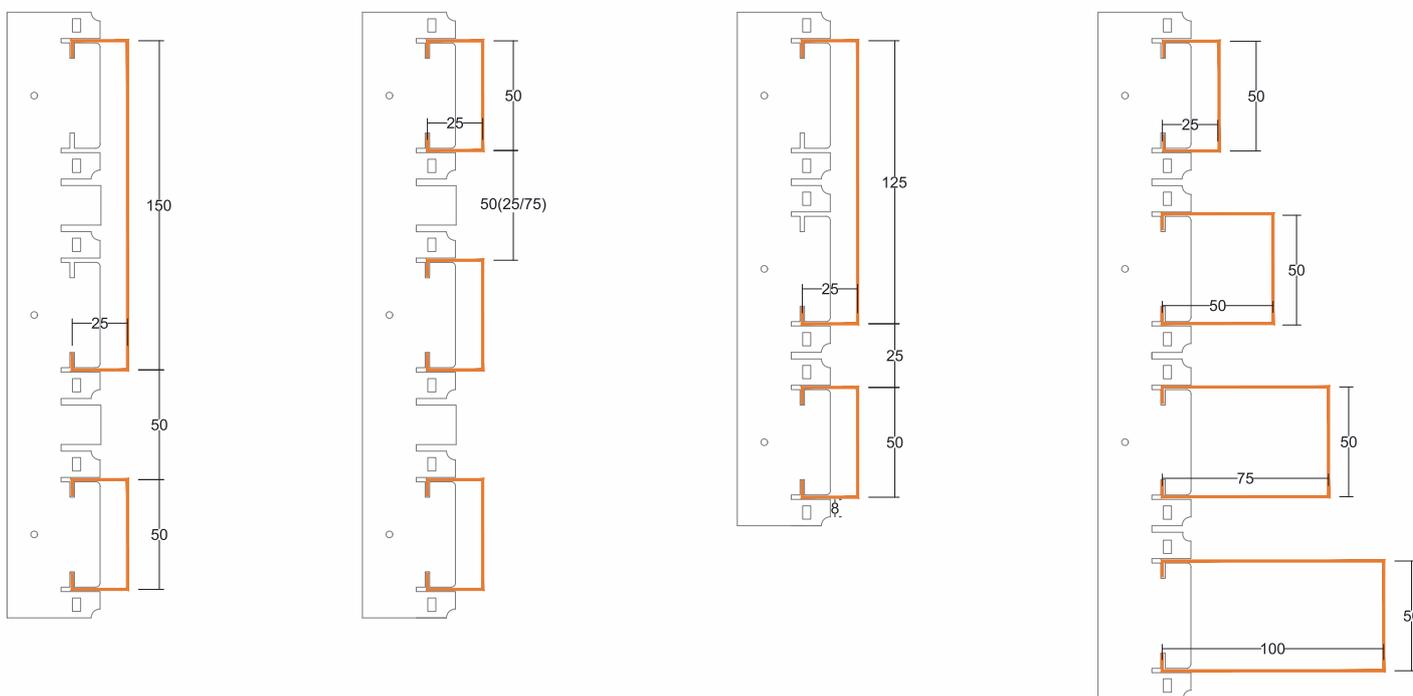
**Paint Finish:** Special high quality surface with Corrosion resistive Super Durable Powder coating, have properties capable of meeting the severe requirement of exterior applications, preferred with visible & rear both side powder coated.

**Installation:** L Clit, Tubular Stud Section, Corrosion & weather resistive screws and other components if required for structure.

## U-Shaped Baffle P-25 (Multi Space) Ceiling & Cladding

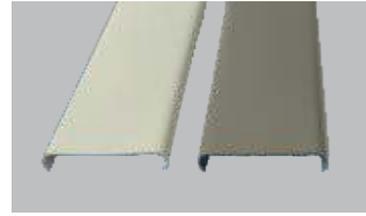


## U-Shaped Baffle P-50 (Multi Space) Ceiling & Cladding



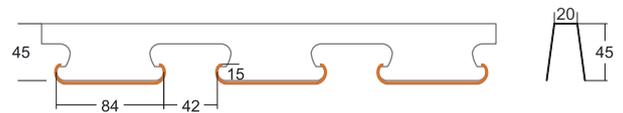
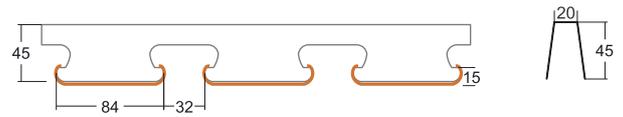
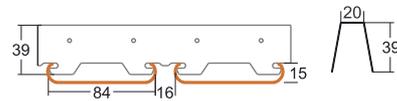


# 84R Louver



Linear 84R Cladding is known for its attractive and fluid lines. Panels can be easily removed and replaced by hand allowing easy and full access to services. Their effect is simple but pleasant. Linear Exterior Cladding can be fixed horizontally or vertically with multi space cladding System.

## 84R Panel Detail



## Technical Details

**Panel:** Round edge, 84mm wide, 15 mm deep, length up to 3 mtr.

**Material:** Galvanized Steel 0.5mm, Aluminium 0.65mm / 0.71mm TCT

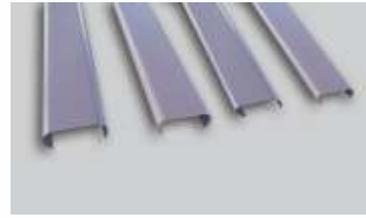
**Carrier:** Carrier Shall be 20mm wide at bottom and 42mm deep of 0.6mm Galvanized Steel stove enameled black to hold Panel in module of 16mm / 32mm / 42mm.

**Paint Finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

**Suspension:** L clit, L Angle (Optional), Tabular Stud Section, Corrosion & Weather resistive screws and other components if required for structure.

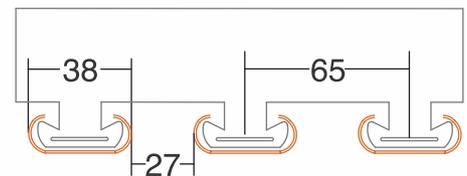
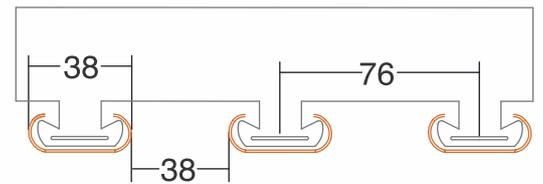
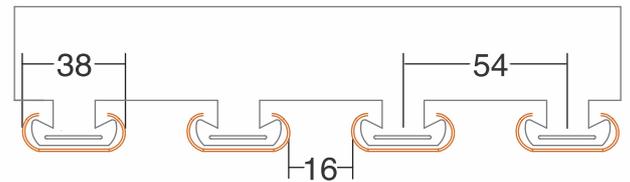


# Linear 38R

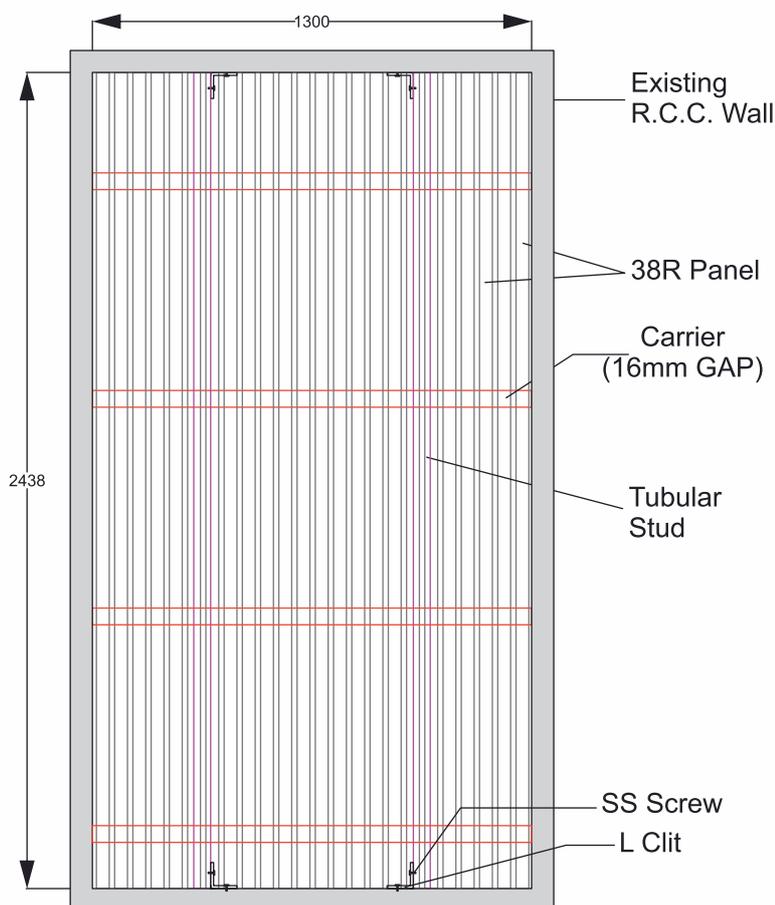


Linear 38R With their rounded edges these panels are easy to set up and take off. Their effect is simple but pleasant. Create countless False Ceiling & Exterior Cladding solutions with Multi space Linear System

## 38R Panel Detail



Reflected Louvers Plan For Metalium 38R Louvers



## Technical Details

**Panel:** Round edge, 38mm wide, 15 mm deep, length up to 3 mtr.

**Material:** Galvanized Steel 0.5mm, Aluminium 0.65mm / 0.71mm TCT

**Carrier:** Carrier shall be 32mm wide at bottom and 45mm deep of 0.6mm Galvanized Steel stove enameled black to hold Panel in module of 58mm / 63mm / 68mm.

**Paint Finish:** 55 microns thick powder coating on exposed surface or 25 microns polyester coil coated over primer on visible surface with primer coat on rear side.

**Suspension:** L clit, L Angle (Optional), Tubular Stud Section, Corrosion & Weather resistive screws and other components if required for structure.

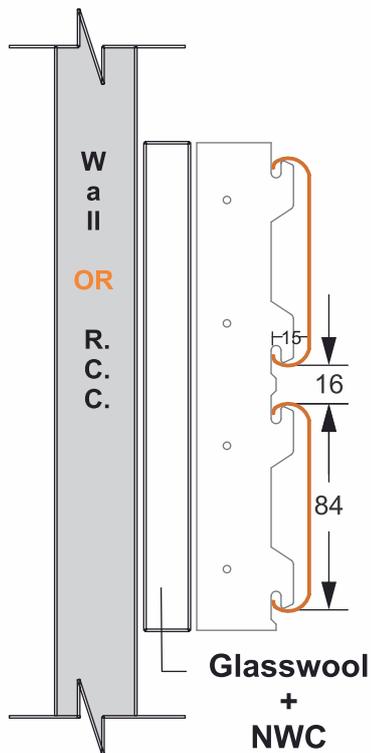
# Wall Cladding



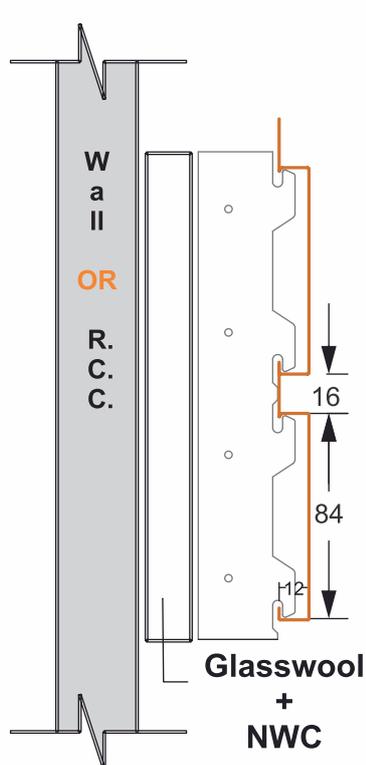
Wall Cladding Panels can be used as decorative, acoustical and protection purposes. Plain & perforated panels are also available with special decorative surfaces, texture & natural wooden finish. It offers utmost flexibility and freedom of design for areas like conference halls, auditoriums, clubs & resorts, corridors, industry etc.



**84R Panel with Acoustical Material**

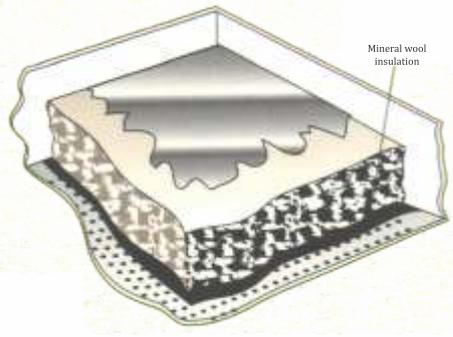


**84C Panel with Acoustical Material**



# Acoustic

One of main aspects of a Perforated Metal Ceiling is sound absorption. Various types of perforation designs are available. The acoustic properties of a place are, therefore, important elements of environmental well-being, which depends on many physical factors including temperature, humidity & density of the air. Today designers pay great attention to these factors to achieve the desired environmental comfort in relation to the specific use of a building such as classroom, industry, auditorium, office or other.

<p>2.5mm dia round, 5.5mm Centre to Centre in regular Pattern Perforated tile, 16% open area</p>		<p>NRC: 0.8 to 0.95 can be achieved by use of 25mm thick* 48 kg/m<sup>3</sup> density mineral wool, Aluminium foil encased and faced one side black glass tissue.</p>
<p>1.8mm dia round in diagonal Pattern Perforated tile, 20.8% open area</p>		
<p>4mm * 4mm Square, 8mm Centre to Centre in regular Pattern Perforated tile, 25% open area</p>		

## Security and Endurance to External Strains

Metalium tiles are mounted up on flexible structures which allow high levels of resistance to external strains and crashes.

## Maintenance and Cleaning

For possibly washing the ceiling we recommend to use ordinary detergent or liquid soap. The detergent is to be mixed with water. Apply the solution by a sponge and wipe off the ceiling by a soft cotton cloth firmly wring in pure water.

## Humidity Resistance

Thanks to the Steel and Aluminium qualities, Metalium products maintain their properties also in high humidity environments. This fact makes them suitable for all buildings with unstable temperature range.



Acoustic Performance



Colour Combination

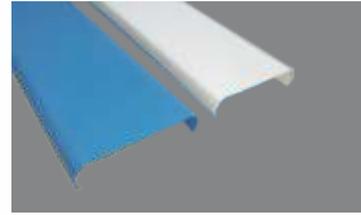


Washable - Water Retardant



Recyclability - Green Product

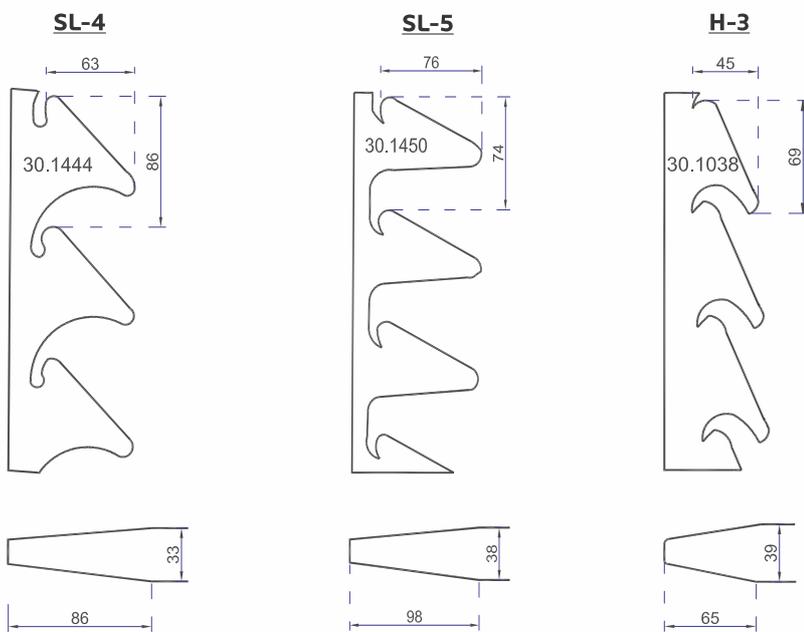
# SL-4/ SL-5/ H-3



Metalium Slanted Louvre are highly innovative and gaining popularity in construction to cover the Ducts and used as a Ventilated facade system. The systems are easy and fast to install with variety of carriers with different louvers inclination. Panels come with a special high quality powder coating finish.



Reflected Elevation for METALIUM Slanted Exterior Louvre Systems



## Technical Details

**Panels:** 84mm wide, 16mm deep, length up to 5 mtr. made of Galvanized Steel 0.55mm & 0.65mm Aluminum – TCT.

**Carrier:** Various dimensions (SL-4 / SL-5 / H-3) made of Galvanized Steel 0.6mm, Aluminum 0.91mm thick stove enameled / coil coated black.

**Paint finish:** Special high quality surface with Corrosion resistive Super Durable Powder coating, have properties capable of meeting the severe requirement of exterior applications, preferred with visible & rear both side powder coated.

**Installation:** L Clit, L Angle, Tubular stud Section, Corrosion & weather resistive screws and other components if required for structure.

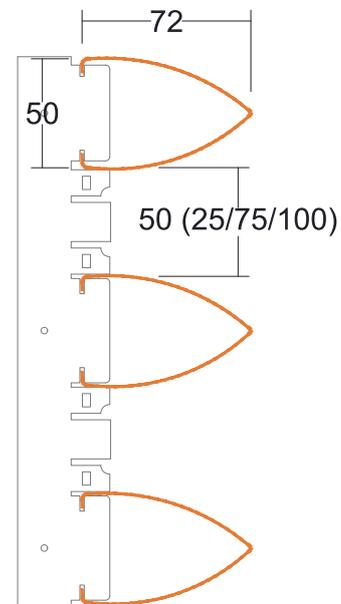


## V72 Half Oval Shaped



Metalium V72 half oval shaped panel provide an extremely efficient form of solar shading by Aerofoil look. It replace sex truded aluminium section in duct covering and elevation. It is available in a range of sizes and with a choice of finishes to enhance the architectural appearance of a building.

### V72 Series Panel



### Technical Details

**Panels:** Half oval shaped 50mm wide, length up to 3 mtr., Galvanized Steel 0.5mm – TCT.

**Carrier:** Various gap, 25mm / 50mm / 75mm / 100mm made of Galvanized Steel 0.6mm thick stove enameled / coil coated black.

**Paint Finish:** Special high quality surface with Corrosion resistive Super Durable Powder coating, have properties capable of meeting the severe requirement of exterior applications, preferred with visible & rear both side powder coated.

**Installation:** L Clit, Tubular Stud Section, Corrosion & weather resistive screws and other components if required for structure.

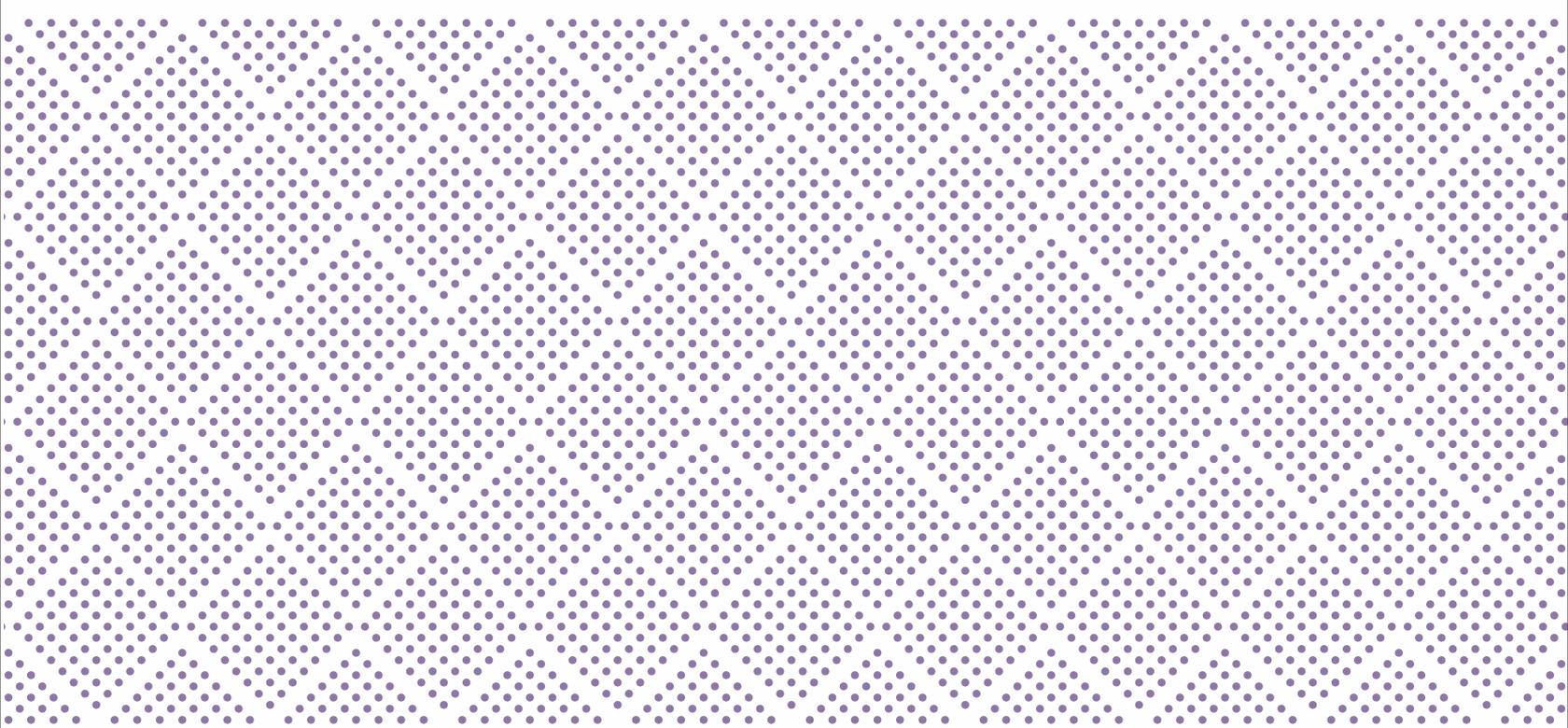








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