



ISO 9001 : 2008 Reg. No. : 89660

World Class PEB,
Metal Roofing & Cladding Systems



JSEP

J. S. ENGGPROJECTS (P) LTD

(An ISO 9001:2008 Certified Company)



JSEP

OUR PRODUCTS

1. JSE - PEB Pre - Engineered Buildings
2. JSE - PURLINS C & Z
3. JSE - Hi-Rib Colour Coated Roof Sheets
4. JSE - Klip Lock Colour Coated Roof Sheets
5. JSE - Standing Seam
6. JSE - FRP Roof Sheets
7. JSE - Poly carbonate Roof Sheets
8. JSE - Turbo Ventilators
9. JSE - Louvers
10. JSE - Steel Deck Sheets
11. JSE - Metal False Ceiling Systems
 - a. JSE - 84R
 - b. JSE - 84C / JSE - 184C
 - c. JSE - 150F / 200F
 - d. JSE - 75C / 150C / 225C
 - e. TILES AND PLANKS



DIRECTOR SPEAKS

We are pleased to introduce ourselves as one of the leading builders of pre-engineered building, manufacturer of metal colour coated roofing & cladding sheets. JSEP is a company serving India since last 3 decades in the area of manufacturing, supply and installation of metal roof sheeting, false ceiling, wall cladding, double skin roofing/cladding, pre-fabricated canopies and PEBs.

In near past we have successfully completed projects, few to name as are -

■ VEDANTA ALUMINUM LTD., Jharsuguda, Odisha ■ S. E. RAILWAY, Durg ■ SASAN POWER PLANT, Singrauli, ■ VIDARBHA POWER PLANT, Nagpur ■ JINDAL STEEL AND POWER LTD., Angul, Odisha ■ CONCAST STEEL AND POWER LTD., Odisha ■ DANKUNI STEELS, Andhra Pradesh.

Besides this, some of our ongoing projects are ■ JINDAL POWER LIMITED, Raigarh, MP ■ TATA POWER LIMITED, Kalinga Nagar, Odisha ■ JSW STEEL LIMITED, Bellari, Karnataka ■ SRF LTD., Bhiwadi, Rajasthan.

JSEP is proud to execute more than 1 500000 square meters of area successfully in India till date.

We feel high to announce that we are very well established organization having our own manufacturing units at Faridabad, Haryana as well as at Rourkela, Odisha to cater the requirement of our valuable clients through out the country.

At last we assure you the best of our services in the years to come

Mr. Jarnail Singh

JSE - PEB

JSE PRE-ENGINEERED BUILDING (PEB)

Pre-engineered building (PEB) is designed by JSEP a supplier & manufacturer using the best suited inventory of raw materials available from all sources and manufacturing methods that can efficiently satisfy a wide range of structural and aesthetic design requirements under one roof.

The primary framing structure of a pre-engineered building is an assembly of I-shaped members, often referred as I-beams. In pre-engineered buildings, the I beams used are usually formed by welding together steel plates to form the I section. The I beams are then field-assembled (e.g. bolted connections) to form the entire frame of the pre-engineered building. The taper framing members (varying in web depth) according to the local loading effects are also manufacture JSEP under the guidance of skilled technical staff. Larger plate dimensions are used in areas of higher load effects.

Structural Components :

The Primary framing also includes trusses, columns & beams etc. The Secondary Structures like Z- and C-shaped members are manufactured out of cold rolled material to support the primary members. Secondary structural framing also refers to purlins, girts, eave struts, wind bracing, flange bracing, base angles, clips and other miscellaneous structural parts.

The Pre-engineered buildings can be adapted to suit a wide variety of structural applications, the greatest economy will be realized when utilising standard details.

COMPARISON BETWEEN PEB & CONVENTIONAL STEEL BUILDING

PEB BUILDINGS

Pre engineered building is on an average 30% lighter because of the efficient use of steel.

Secondary members are light weight roll formed "Z" or "C" shaped members.

Quick and efficient as basic design is based on international design codes.

Average delivery period 6 to 12 weeks according to the given area. The erection process is faster and much easier with very less requirement for equipment.

Cost per square meter may be low by 30 % than the conventional building.

All project records are safely and orderly kept with PEB manufacturer, which makes it easy for the owner to plan expansion of the building in future

CONVENTIONAL STEEL BUILDINGS

This building is heavier as it is constructed hot rolled sections.

Secondary members are selected from standard hot rolled sections which are much heavier.

Conventional steel building is designed from scratch with fewer design aids available to the engineer.

Average delivery 30 to 45 weeks due to on site open manufacturing environment. Erection process is slow and extensive field labour is required. Heavy equipment is also needed.

Higher price per square meter.

It would be difficult to obtain project records after a long period of time. It is required to contact more than one number of parties.

JSE - PEB

Advantages :

- Lesser time involved in project completion
- Single Source responsibility
- Scope of wide clear spans
- Saves construction cost and time
- Faster delivery and installation
- Provide Aesthetic look
- Low maintenance

Applications :

- Factories
- Canopies
- Vehicle parking sheds
- Warehouses
- Cold Storage
- Petrol Stations
- Offices



JSE - PEB

■ L-CANOPY (L-CAN)



■ RIID FRME (RF)



■ LEAN-TO (L-TO)



■ BEAM AND COLUMN (BC-1)



■ BUTTERFLY CANOPY (T-CAN)



■ BEAM AND COLUMN (BC-2)



■ SPACE SAVER (SV)



■ BEAM AND COLUMN (BC-3)



■ SINGLE SLOPE (SS)



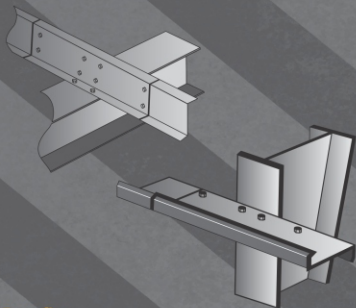
■ MULTI-SPAN (MS)



JSE - CEE & ZED

High Strength Purlins

JSE-Cee & Zed Purlins are structural members, designed and produced by advanced technology, quality and customer oriented services, for use as secondary supports for economical roof sheeting and wall cladding systems in any type of building. Continuous splay or splicing for better structural strength, Stability & Economy.

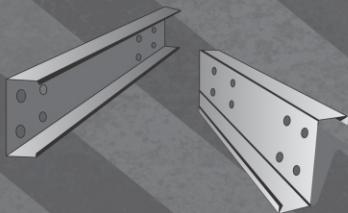


JSE Cee & Zed Purlin Specifications

| H | B | A | T |
|-----|----|----|---------|
| 160 | 70 | 20 | 2.0-2.5 |
| 180 | 60 | 20 | 2.0-2.8 |
| 180 | 70 | 20 | 2.0-2.8 |
| 200 | 70 | 20 | 2.0-2.8 |
| 200 | 80 | 20 | 2.5-3.0 |
| 220 | 70 | 20 | 2.5-3.0 |
| 220 | 80 | 20 | 2.5-3.0 |
| 250 | 70 | 20 | 2.5-3.0 |
| 250 | 80 | 20 | 2.5-3.0 |
| 300 | 70 | 20 | 2.5-3.0 |
| 300 | 80 | 20 | 2.5-3.0 |

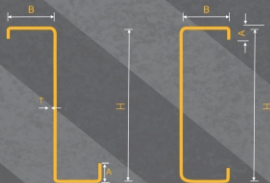
Benefits

- Fast to erect and easy to handle.
- No site drilling/cutting required.
- Saves steel up to 40%.
- Saves construction cost and time.
- Light Weight reduces handling and transportation cost.
- Supplied in exact length and pre-punched holes to reduce wastage of steel and fabrication cost.
- Provision of 13 mtr length lead to no wastage and helps in fast installation.



Surface Treatment JSE-Zed and JSE -Cee made of Hot Rolled coils are degreased, phosphated and then primer finished with Zinc Chromate Red Oxide paint-matching test requirement of IS : 4777 and IS : 2074.

Special treatment to combat severe atmosphere corrosion can be offered. JSE offers Cee & Zee in Galvanized coated Steel in 120GSM / 175GSM / 275 GSM Coating per customer requirement.



JSE - HI-RIB

JSE - Hi-Rib colour coated sheet profiled with cover width of 1020mm, the crest of these sheets is $+_{-} 28$ to $+_{-} 30$ mm and trough of sheets is 200-250mm centre to centre with two/three stiffeners between the ribs.

JSE - Hi-Rib profile incorporates male/female side laps with anti-capillary flute thus ensuring leak proof sheeting capable of efficient water drain out. The sheet is also available in crimp curve form for semi-circular/arched roofing and flashing.

We offer superior quality colour coated sheets which possesses the strength of steel with additional feature of corrosion resistance. The Hi-Rib profile is suitably designed to adapt to any slope as required.

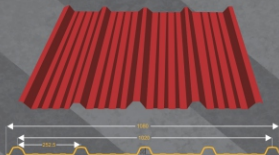
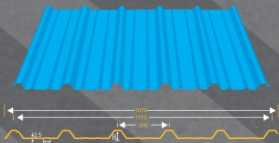
Fixing Procedure

JSE Hi-Rib profile sheet when used for Roofing & Cladding applications are fixed to steel supports /Purlins with Zinc-coated galvanized Hex head self drilling fasteners with integrated metallic washers & EPDM to avoid corrosion.

For Roof Sheeting



For Wall Cladding



- Weights are based on cover width for BMT as shown. Substrate is Galvalume steel (150gms/m² coating mass)
- Properties of profile are calculated in accordance with IS-801. Section properties take into account reduced width of compression flange in accordance with IS-801.

DATA TABLE

| | Thickness of Base Metal (mm) | Thickness of total Coated Metal (mm) | Mass per unit area (Kg/m ²) |
|------------------------------------|------------------------------|--------------------------------------|---|
| Galvalume / Zinalume | 0.42 | 0.47 | 4.20 |
| Galvalume / Zinalume Colour Coated | 0.45 | 0.50 | 4.56 |
| Colour Coated Galvanized Steel | 0.45 | 0.50 | 4.50 |

- Weights are based on cover width for BMT as shown.
- Allowable loads are based on 3 or more equal continuous spans.
- Deflection limited to L/150 for DL + LL and L/100 for WL.
- Allowable Stress for Wind Loading has been increased by 33 1/3%.

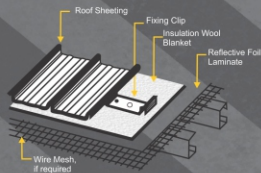
JSE - KLIPLOCK

JSE - Kliplock profile is specially designed for roof sheets to avoid the unwanted leakages and joints. There is no penetration in sheets during the installation. It can be laid in a single length. The strength of roof with **Kliplock** is more than the Hi-Rib as there are two stiffeners in each trough. No screws are visible as there is no screw penetration.

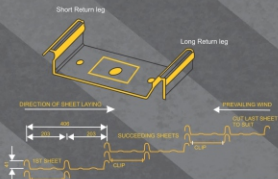
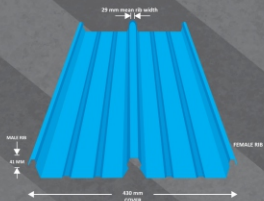
The sheet length can be supplied as per transportation suitability.

The length of **Kliplock** sheet may be supplied as per the clients' requirement on site.

Fixing Procedure



The above shown diagram of the clips and sheets reflects the fixing procedure as per wind direction. The clips are fixed directly on the roof Z-purlins with buffer head screws to avoid penetration on the roof sheet.



DATA TABLE

| | Thickness of Base Metal (mm) | Thickness of total Coated Metal (mm) | Mass per unit area (Kg/m ²) |
|--|------------------------------|--------------------------------------|---|
| Galvalume ® / Zinalume ® | 0.50 | 0.55 | 5.97 |
| Galvalume ® / Zinalume ® Colour Coated | 0.50 | 0.55 | 6.03 |
| Colour Coated Galvanized Steel | 0.53 | 0.58 | 6.37 |

Material Specification

JSE profiles are manufactured out of :

- 55% Aluminium, 43% Zinc & 1.5% Silicon, high strength steel grade with strength of 300/550 Mpa. The coated steel is available as Aluzinc / Galvalume / Zinalume steel (AZ 150g/m²) as per AS-1397/ASMT792
- Pre painted Galvalume / Zinalume sheet with RMP/SMP XRW color bond PVDF / Fluoro Polymer etc. coating system. Coated / Uncoated Galvanized steel sheet (hot dipped Zinc coated) in a coating mass range of minimum 120-275 gms/m² as per IS 277 & 240 Mpa tensile strength.
- Pre-painted Aluminum Sheet with Alloy 3105/3004/3005 with polyester / PVDF coating.

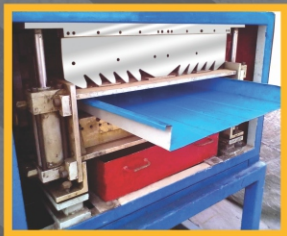
1. Weights are based on cover width for BMT as shown.
2. Allowable loads are based on 3 or more equal continuous spans.
3. Deflection limited to L/150 for DL + LL and L/100 for WL.
4. Allowable Stress for Wind Loading has been increased by 33.1/3%.

JSE - KLIPLOCK

World Class Standing Seam Roofing System

Advantages :

- Better preference for Leakage prone areas
- No end Laps to protect leakage
- Single Sheet length can be installed as per site requirement
- It's 180 (0) double lock seam design helps to keep the roof water and dust free .
- On Site Roll Forming



Jse- standing seam roof sheet covers entire structure with panels joined together with double lock standing seam along with specially designed clip. all the panels are joined together by a portable electric seamer. The arrangement of clips are designed for seaming with JSE-SS roof metal sheet.

JSEP also provide on site roll forming for better quality and to avoid This roof system is attached to the building with a unique clip arrangement. The **Jse-seam** sheets are custom rolled to any transportable length maximum upto 13 meters. However, our specialized service of On-Site Roll Forming enables single length sheet up to 100 mts long without end laps- therefore on most jobs you can have single sheet from ridge to eaves resulting into zero laps.

Roof Seamer

The seaming process uses a heavy duty, Electric, portable roll forming machine called the Roof Seamer.

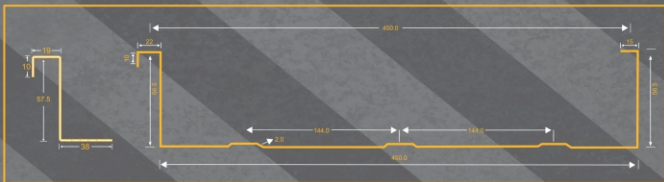
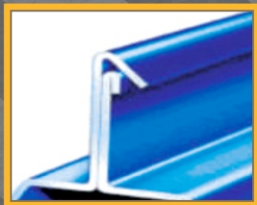
Clip Design

Roof clips securely attach the roof panels to the supporting structures by stainless steel tabs which are roll formed into the panel seam.



Final Operation

Clip and both sheets are seamed



JSE - NATURAL LIGHT SYSTEM

- Shatter resistance - Storm Resistance Sheets
- High impact resistance
- Excellent light diffusion & light transmission
- Excellent corrosion resistance
- Thermal insulation
- Maintenance free
- Light weight
- U/V stabilized
- Weather resistance
- Natural Day Light - Good for Health & Reduces Electricity Consumption.
- Design Versatility - Any Profile
- Environment friendly
- Unbreakable
- Dimension Stability
- Flexibility of sizes and thickness
- Freedom of colour & design
- Very long life.



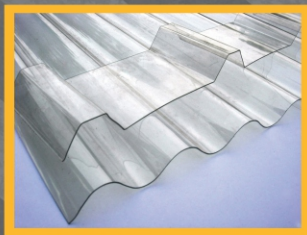
FRP (Fibre Glass Reinforced Plastic) Sheets in required lengths, thickness- 1.5mm, 2mm, 2.5mm, 3mm

Range of FRP Roofing Sheets

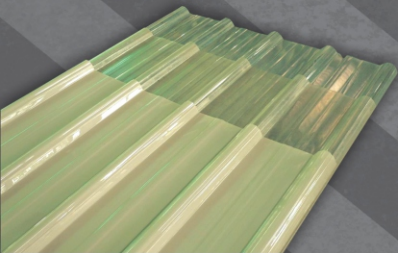
- Plain sheet
- Crinkle/Textured Sheets
- Corrugated Sheets matching to - G.I. Corrugation
- Asbestos Corrugation
- Industrial Profile
- Any customized profile
- Clip-on profile
- Curved Profile
- Translucent & Opaque Sheet

Quality

Every single product undertaken by us bears the stamp of quality. We make sure that the products we deal in are great and sturdy. JSE projects are certified by leading structural engineers, and the quality certification of the profiles for roof sheeting and cladding systems and are made of pure quality of FRP. Apart from this, our products have the added advantages of being considerably less expensive in maintenance. All our products go through stringent quality control at each level of the production process. Today, we are providing skillfully designed and engineered products. Owing to this, our products have been accredited with ISO 9001:2008



FRP Sheet Poly carbonate Sheet



JSE - TURBO VENTILATORS

Introduction

Circulation of fresh air in shop floor area is essential to energize work efficiency, create dust free atmosphere and equalize ambient temperature. Which is quite necessary for all types of industries.

Technology

Turbine ventilators is wind power technology based exhaust system, designed in such a way when a small movement of wind flow strikes to its specially designed vanes, creates centrifugal force to rotate the system and convection of thermal current (polluted air, hot gases) help to accelerate the system. While rotating, the vanes creates low pressure zone, which allow fresh air to enter and hot air (polluted) to exhaust.

centrifugal force to rotate the system and convection of thermal current (polluted air, hot gases) help to accelerate the system. While rotating, the vanes creates low pressure zone, which allow fresh air to enter and hot air (polluted) to exhaust.

Features

No use of electricity- wind driven, Maintenance free, Fresh air 24x365 days, Uniform & continuous ventilation Noiseless installation, Easy to install, Withstands high wind velocities, No ingress of rain water, Fits on any type of roof surface and gradient, Exhaust stale, hot humid air and fumes / pollution nonstop, Reduces maintenance of plant and machinery by reduction of fumes & humidity levels, Healthy living-increases productivity, Environment friendly, Payback period is extremely low.

Ventilation makes our life more comfortable : Ventilation is simply the process of replacing stale, hot air with clean & fresh air hence providing pleasant environment. The installation of wind driven turbo ventilators will provide an efficient and cost effective systems of natural ventilation. Designed for a harsh environment, the turbo ventilator with matching FRP Base plate is suited for industrial, commercial & community buildings.



Air change rates

| WIND Velocity (MPH) | | 5 | | | 8 | | | 10 | | |
|---------------------|--------------------|-------------------------|------|------|------|------|------|------|------|------|
| Temp. Diff. °C | | 3 | 5 | 10 | 3 | 5 | 10 | 3 | 5 | 10 |
| Model No. | STACK Height (Ft.) | Exhaust capacity in CFM | | | | | | | | |
| HAV. 500 | 10 | 939 | 1000 | 1102 | 1436 | 1498 | 1600 | 1792 | 1858 | 1958 |
| | 20 | 1005 | 1084 | 1216 | 1503 | 1582 | 1714 | 1859 | 1938 | 2070 |
| | 30 | 1058 | 1154 | 1314 | 1556 | 1652 | 1812 | 1915 | 2010 | 2168 |
| | 40 | 1107 | 1216 | 1394 | 1605 | 1714 | 1896 | 1961 | 2070 | 2252 |

Suitable for : Warehouses, Textile Mills, Paper Mills, Oil Mills, Auditorium, Automobile Showrooms, Packing Rooms, Workshops Etc.

JSE - LOUVERS

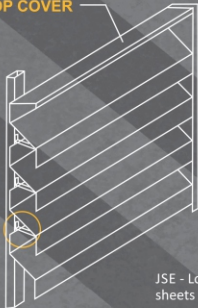
VENTILATION SYSTEM

Advantages :

- The Specially Designed louvers allow free flow of air and as well restricts entry of dust and air.
- Light weight and easy to install.
- Longer life and maintenance free.
- Technically designed & available in customized lengths
- Corrosion free



TOP COVER



LOUVER STRAP



TYPE-JSE-1

JSE - Louvers are made from Colour coated steel or galvalume sheets

JSE - Louvers for walls are meant for Ware houses, Factories, Workshops, Gymnasiums, Tennis Courts, Assembly Halls etc.

Specifications :

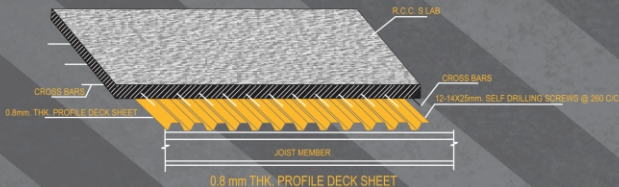
- Any required thickness 0.5mm, 0.6mm, 0.8mm Colour coated steel as per IS-14246. Length-max 3.0mtr, Width-max 2.0mtr.
- Zn coating of 120gsm/ m²
- Top organic coating of polyester paint 16-18 microns Over 5 - 7microns epoxy primer
- Back coat of 7 - 10 microns epoxy paint.



JSE - STEEL DECK-I

Advantages:

- Economical, fast installation saves time
- High Durability & uniform Quality.
- Attractive appearance and smooth finish.
- Deck act as a permanent framework.
- Offers immediate safe working platform



| AREA & WEIGHT | | | JSE-Steel Deck Specification | |
|---------------|----------------------|------------------------|------------------------------|-----------------|
| Thickness mm | Area cm ² | Self weight Kg. / R.M. | Description | Mild Steel |
| 0.60 | 7.837 | 5.75 | Through Depth | 44mm |
| 0.80 | 9.952 | 7.70 | Pitch - Centre to Centre | 130mm |
| 1.00 | 12.440 | 9.58 | Sheet Width | 960 mm |
| 1.25 | 15.550 | 12.00 | Covered Width | 910 mm |
| 1.60 | 19.904 | 15.5 | Length | Up to 14 meter. |
| 2.00 | 24.880 | 19.20 | Thickness | 0.6mm to 2.0mm |

Technical details available on request

JSE - STEEL DECK-II



GENERAL ASSUMPTION FOR DESIGN CALCULATION

| T | I | Z | L | Mact | Mres | Dallow | Dact |
|------|-------|-------|------|------|------|--------|------|
| 0.65 | 27.52 | 12.61 | 1575 | 1.96 | 1.99 | 6.3 | 2.69 |
| 0.70 | 29.64 | 13.59 | 1625 | 2.09 | 2.15 | 6.5 | 2.84 |
| 0.75 | 31.76 | 14.57 | 1700 | 2.29 | 2.30 | 6.8 | 3.17 |
| 0.8 | 33.88 | 15.55 | 1750 | 2.43 | 2.46 | 7.0 | 3.34 |
| 1.0 | 42.35 | 19.50 | 1950 | 3.02 | 3.08 | 7.8 | 4.12 |
| 1.2 | 50.83 | 23.46 | 2150 | 3.69 | 3.71 | 8.6 | 5.07 |

T= Thickness (BMT) of sheet in mm, I= moment of inertia (M.I) of profile sheet in, cm^4 , Z= Sections modulus of profile sheets in cm^3 , L = Purlin distance in mm, Mact= Max. actual moment in, KN-M, Mres= Moment of resistance in KN-M, Dallow = Allowable Deflection in mm, Dact = Actual deflection in mm

Material

Jse decks are manufactured from tested quality of CR coils as per IS:513, apart from these material, Jse sections can be rolled from aluminum, galvanized steel, pre-colour coated and bare galvalume sheet. Jse deck sections are manufactured in thickness of 0.50mm, 0.60mm, 0.8mm, 1.0mm, 1.2mm and available in any standard lengths as per customers' requirement subject to transport restrictions (upto a maximum of 13m length.)

| Material | Yield Strength | Colour | Coating |
|-------------------------------|---------------------|--------------------|---------------------------|
| Pre-Painted Galvanised Steel | 240/350 Mpa | As per requirement | Zinc 120/175/220 & 275gsm |
| Pre-Painted Galvalume Steel | 240/300/350/550 Mpa | As per requirement | AZ 150gsm |
| Pre-Painted Aluminum | 245 Mpa | As per requirement | Available Alloy form |
| CR Sheet-Galvalume/Galvanized | 240/300/350/550 Mpa | Bare | Bare |

Technical details available on request

JSE - METAL FALSE CEILING SYSTEMS

System Description

Ceiling Panels : Available in both aluminum and steel with powder coated or coil coated finishes, with and without perforations for improved acoustics.

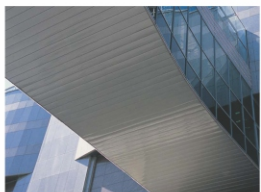
Areas of application : All types of public or private building used for commercial, industrial or residential purposes. The ceiling system enhances the appearance of new and old building alike. Example includes : Offices, Educational buildings, Health-care centres, Hotels, Hospitals and Entertainment places, Sports and leisure area, Retail stores and Shopping malls, Computer rooms, Laboratories, External Canopies, Warehouses, Workshops, Showrooms, Factories, Airports etc.

JSE 84R

JSE 84 R is meant for both for interior and exterior applications. The round edges on this profile create a special effect. Panels can be replaced for easy maintenance or for a new look can be imparted by changing colors. Special perforation allow customized acoustic design.

Dimension of Profile

| Profile | Panel Size wide x deep (mm) | Panel Thickness (mm) | Carrier Size wide x deep (mm) | Carrier Thickness (mm) | Finish |
|---------|-----------------------------|----------------------|-------------------------------|------------------------|------------------------------|
| 84R | 84 x 16 | 0.45 to 0.70 | 32 x 39 | 0.60 to 0.95 | Coil coated Powder coated |

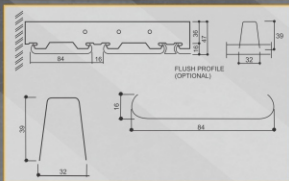


JSE - METAL FALSE CEILING SYSTEMS

Suspension System :

- Interior** : With Rod Hangers & Suspension Clip
Exterior : With Rigid System using suspension angles and Cleats.

Perforation : 2mm/2.5mm on 5mm/5.5mm centre to centre or 1mm on 2.5mm centre to centre (micro perforated) The perforation holes represent 16% of the perforation area.

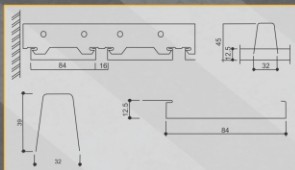


Sound Absorption Data

| Frequency, Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|--------------------------------------|------|------|------|------|------|------|------|
| 84R perf/25mm Insul./200mm Air space | 0.22 | 0.69 | 0.96 | 0.91 | 0.96 | 0.86 | 8.88 |

JSE 84C / 184 C

Both for interior and exterior applications. The sleep panels add character to the room. Available in a choice of colours. The ceiling panel enhances furnishing and room arrangements, challenging your creativity. Variety of available perforations enable perfect acoustics to be designed in the room.



Dimension of Profile

| Profile | Panel Size wide x deep (mm) | Panel Thickness (mm) | Carrier Size wide x deep (mm) | Carrier Thickness (mm) | Finish |
|---------|-----------------------------|----------------------|-------------------------------|------------------------|---------------|
| 84C | 84 x 16 | 0.45 to 0.70 | 32 x 39 | 0.60 to 0.95 | Coil coated |
| 84C | 184 x 16 | 0.45 to 0.70 | 32 x 39 | 0.60 to 0.95 | Powder coated |

Suspension System :

- Interior** : With Rod Hangers & Suspension Clip
Exterior : With Rigid System using suspension angles and Cleats.

Perforation : 2mm/2.5mm on 5mm/5.5mm centre to centre or 1mm on 5mm centre to centre (micro perforated) The perforation holes represent 16% of the perforation area.

Sound Absorption Data

| Frequency, Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|--------------------------------------|------|------|------|------|------|------|------|
| 84R perf/25mm Insul./200mm Air space | 0.38 | 0.90 | 1.08 | 1.02 | 1.10 | 0.79 | 1.03 |



JSE - METAL FALSE CEILING SYSTEMS

JSE 150F / 200F

JSE 150F and 200F are meant for both interior and exterior applications. These flat ceiling panels add character to your room, building and canopy etc. The specially designed tongue and groove arrangement make the ceiling completely interlocked & airtight for a smooth look.



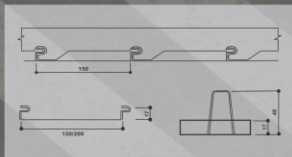
Dimension of Profile

| Profile | Panel Size wide x deep (mm) | Panel Thickness (mm) | Carrier Size wide x deep (mm) | Carrier Thickness (mm) | Finish |
|---------|-----------------------------|----------------------|-------------------------------|------------------------|---------------|
| 150F | 150x 17 | 0.50 to 0.70 | 34.5 x 48 | 0.60 to 0.95 | Coil coated |
| 200F | 200 x 45 | 0.50 to 0.70 | 200 x 40 | 0.60 to 0.95 | Powder coated |

Suspension System :

- Interior : With Rod Hangers & Suspension Clip
- Exterior : With Rigid System using suspension angles and Cleats.

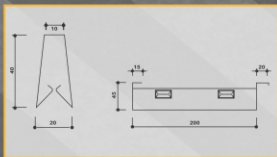
- Perforation : 2mm/2.5mm on 5mm/5.5mm centre to centre or 1mm on 2.5mm centre to centre (micro perforated) The perforation holes represent 6% of the perforation area.



JSE 75 C / 150 C / 225 C

Dimension of Profile

| Profile | Panel Size wide x deep (mm) | Panel Thickness (mm) | Carrier Size wide x deep (mm) | Carrier Thickness (mm) | Finish |
|---------|-----------------------------|----------------------|-------------------------------|------------------------|---------------|
| 75C | 75 x 15 | 0.50 to 0.70 | 32 x 39 | 0.60 to 0.95 | Coil coated |
| 150C | 150 x 15 | 0.50 to 0.70 | 32 x 39 | 0.60 to 0.95 | Powder coated |
| 225C | 225 x 15 | 0.50 to 0.70 | 32 x 39 | 0.60 to 0.95 | Powder coated |

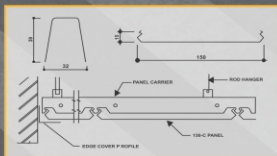


Suspension System :

- Interior : With Rod Hangers & Suspension Clip
- Exterior : With Rigid System using suspension angles and Cleats.
- Perforation : 2mm/2.5mm on 5mm/5.5mm centre to centre or 1mm on 2.5mm centre to centre (micro perforated) The perforation holes represent 16% of the perforation area.

Sound Absorption Data

| Frequency, Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|--------------------------------------|------|------|------|------|------|------|------|
| 84R perf/25mm Insul./200mm Air space | 0.30 | 0.74 | 0.88 | 0.58 | 0.71 | 0.70 | 0.73 |



JSE - METAL FALSE CEILING SYSTEMS

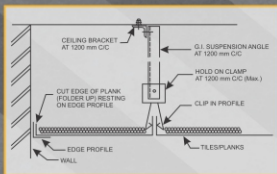
TILES AND PLANKS

Tiles / Planks are available both with powder coated finish & coil coated finish and available in 0.50mm galvanized steel / 0.70mm aluminum. Tiles and Planks are available with following fixing systems.

Clips-in-tile - two sides of each tile are raised and pipped and stopped to ensure positive engagement into the spring tee yet allow de-mounting individual tiles.

Lay-in system: The tiles have a flange on each end which lays on the exposed grid.

Wall angle : Tiles/ Planks are trimmed along the wall perimeter by means of roll formed steel or aluminum edge cover profile of required size.



Accessories

CEILING 150F



STRINGER V9

CEILING 150C



PANEL CARRIER

CEILING 84C/184C/84R



PANEL CARRIER

CEILING 200F/CLIP IN TILE & PLANK



CLIP IN PROFILE



SUSPENSION ANGLE



HOLD ON CLAMP



CEILING BRACKET

CEILING 84R



ROD HANGER



SUSPENSION CLIP



SUSPENSION CLIP



EDGE COVER PROFILE (L-SHAPED)



SUSPENSION SHOE

C-GRID SUSPENSION

LAY-IN SUSPENSION



CROSS TEE (600MM)



WALL ANGLE



HOOK AND BUTTERFLY CLIP



MAIN RUNNER



CROSS TEE (1200MM)



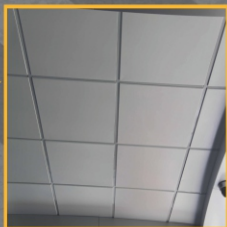
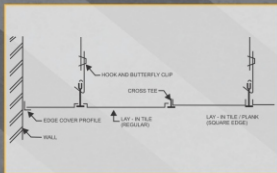
C-GRID



CROSS CONNECTOR



WALL CONNECTOR



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Odisha



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