



Structuring Dreams from Steel

Bansal Roofing Products Ltd.

Pre-Engineered Building



"You dream it, we build it"

An ISO 9001-2015 Certified Company



IAF CERTIFIED

Call Now : +91 99250 50913
Email : inquiry@bansalroofing.com
www.bansalroofing.com

MARQUEE CLIENTS:



.... AND MANY MORE

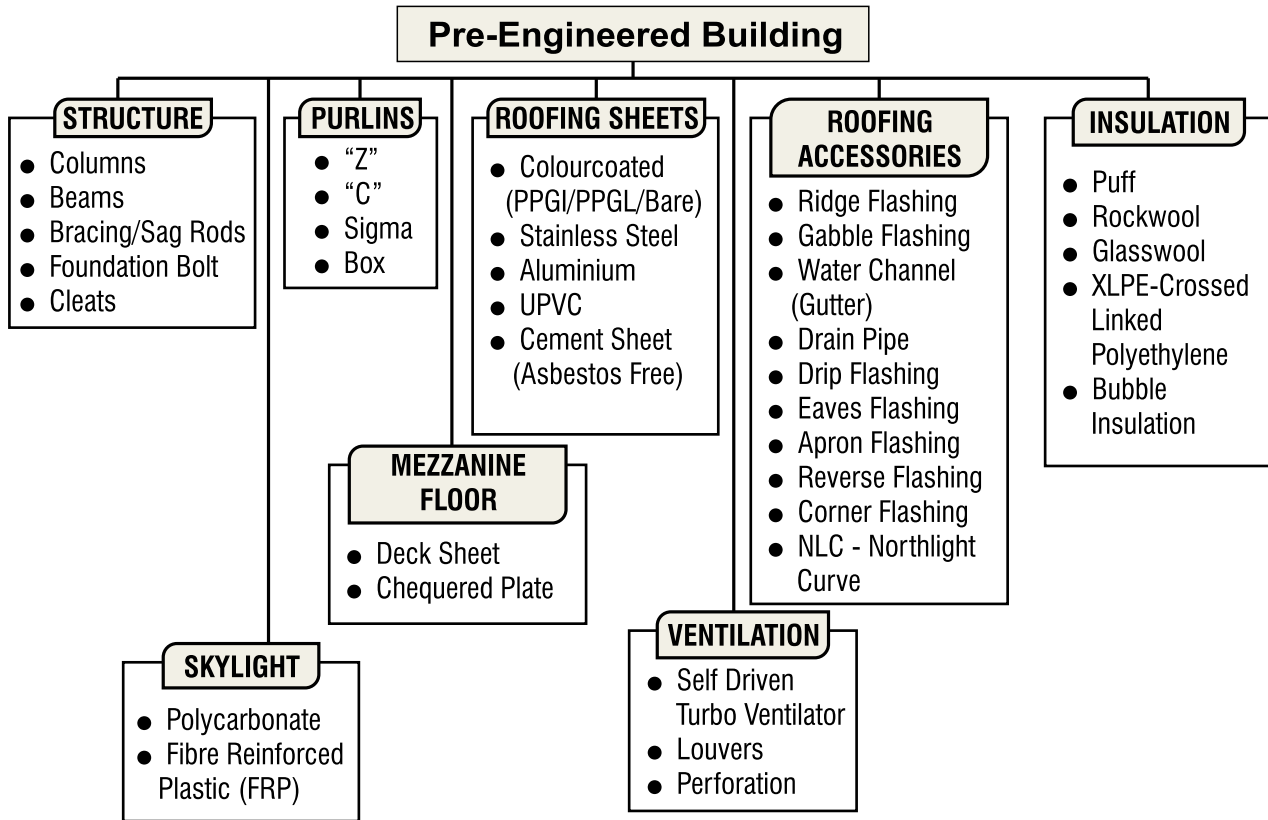
Overview

- Bansal Roofing Products Limited (BRPL) is a CRISIL-rated, ZED Gold–certified, and ISO 9001:2005 certified organization, established in 2008. BRPL is a public limited company listed on the main board of the Bombay Stock Exchange (BSE).
- BRPL specializes in the manufacturing and installation of state-of-the-art Pre-Engineered Buildings (PEB), Roofing Products, and related accessories. Our product portfolio includes PEB structures, Roof sheets, and Accessories manufactured in accordance with International standards and IS codes. These products are widely used in Warehouses, Engineering workshops, Showrooms, Cold storage facilities, Chemical processing industries, and various other applications.
- Our offerings are highly appreciated for their exceptional strength, impact resistance, seismic stability, high wind pressure resistance, robust design, and excellent performance. Manufactured using advanced tools and modern equipment, our products are developed by skilled technicians and engineers using high-quality, assured raw materials. Quality is our highest priority, and it is ensured through stringent quality control and inspection processes conducted at every stage of production. Additionally, our products can be customized to meet specific customer requirements.
- Our commitment to timely delivery, transparency, and ethical business practices has earned us the trust and confidence of our valued customers.
- Under the guidance of an experienced management team with 34 years of overall industry experience, including 25 years in the Roofing sector and 11 years in Pre-Engineered Buildings, BRPL has achieved remarkable growth and success.
- BRPL operates a modern manufacturing facility located in Savli Taluka, Vadodara District, Gujarat, India, spread across 300,000 sq. ft., equipped with advanced manufacturing infrastructure. We manufacture 95% of PEB components in-house, minimizing external dependency and enabling us to complete 100% of projects on time.
- Till date, BRPL has successfully completed over 300 projects in India and abroad, reinforcing our position as a trusted leader in the Roofing and PEB industry.

Key Strengths

- Experienced and Qualified Management Team having experience of more than 34 years.
- One-stop solution for Steel structures sheds and Roof coverings.
- Extensive and Cost-effective Manufacturing Facility.
- Strong product basket- Foundation bolts to Rooftop products from one place.
- Completed more than 300 turnkey projects. Strong brand image.
- Our Robust design adds Strength and Durability to steel buildings.
- An ISO 9001:2015 certified company.
- CRISIL-Rated company.
- Zed Gold Certified
- Listed on GEM Portal as approved OEM.

Our Product Range



Solar Module Mounting Structures



Bansal Roofing Products Limited (BRPL) is a **CRISIL SME 1 Graded** and **ISO 9001:2015 certified** company established in 2008 and proudly listed on the **BSE Platform since 2014**.

With a state-of-the-art **2,00,000 sq. ft. manufacturing facility in Savli, Vadodara**, BRPL specializes in designing, manufacturing, supplying, and exporting a wide range of **Pre-Engineered Buildings (PEB), Roofing Products, Roll Forming Products, and Structural Solutions**.

Our products are trusted across industries for their **Robust Design, Seismic Resistance, High Wind Tolerance, Customizable Features**.

They are widely used in **warehouses, showrooms, cold storage facilities, and industrial applications**. With **95% in-house production**, we ensure **quality assurance, timely delivery, and reliable project execution**.

Expanding into Renewable Energy Solutions

As India embraces the clean energy revolution, BRPL is proud to contribute by introducing **Solar Module Mounting Structures**.

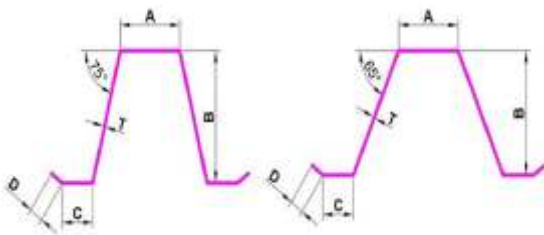
Our new product line includes:

1. Top Hat Section

The **Hat Profile Channel**, also known as the **Top Hat Section**, is an essential component in modern **solar mounting structures**. With its distinctive hat-shaped cross-section, it offers an **excellent strength-to-weight ratio**, making it both efficient and reliable.

Key Features

- High structural rigidity
- Excellent load-bearing capacity
- Easy to install and versatile
- Widely used in PV module mounting structures



Typical Applications

- Solar panel mounting
- Roofing battens
- Cladding support

Available Dimensions

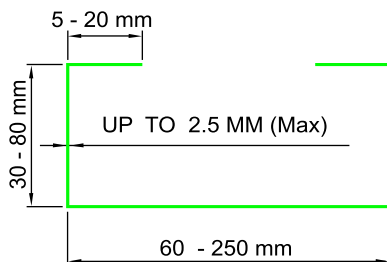
- **Top Flange (A):** 30 – 90 mm
- **Web Size (B):** 40 – 150 mm
- **Bottom Flange (C):** 15/20/25/30/35/40 mm
- **Lip (D):** 5 – 12 mm
- **Thickness (T):** 0.8 to 1.6 mm (Max)

2. C-Channel Section

The **C-Channel**, named for its distinctive **C-shaped cross-section**, is a highly versatile structural profile. Known for its **excellent load-bearing characteristics**, it is widely used in framing applications across industries.

Key Features

- Straightforward to Fabricate
- Strong in bending and compression
- Lightweight and efficient



Typical Applications

- Purlins and girts
- Structural Framing
- Cable trays and racks

Available Dimensions

- **Web Size (A) :** 60 – 250 mm
- **Flange Size (B) :** 30 – 80 mm
- **Lip (C) :** 5 – 20 mm
- **Thickness (T) :** Up to 2.5 mm (Max)

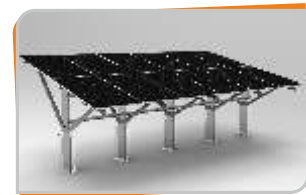
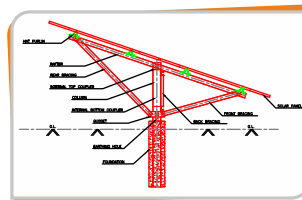
Material Specifications

- Manufactured as per **IS-513**
- Galvanized as per **IS-277**
- Cold-formed light gauge steel as per **IS-801** and **IS-811**

Designed with **precision engineering** and manufactured to meet global quality standards, these mounting structures provide:

- **Strength and durability** to withstand extreme weather
- **Ease of installation** for faster project turnaround
- **Cost-effective solutions** for large and small solar projects

With this addition, BRPL expands its portfolio to support the **growing renewable energy sector**, offering sustainable solutions for a greener tomorrow.



GENERAL SPECIFICATIONS OF 'PEB'

APPLICABLE DESIGN CODES:

We at "Bansal Roofing Products Limited" use International design codes and IS codes for making steel buildings.

International design code is in accordance with the following.

The 2016 Edition of the low rise building system manual of the metal building manufacturer association (MBMA)

All applicable loads are designed as per MBMA

Hot-rolled and built-up sections are designed in accordance with the manual of steel construction 9th Edition of the American Institute of Steel Construction (AISC)

Cold-formed members are designed in accordance with the 1996 edition of the cold-formed steel design manual of the American Iron and Steel Institute (AISI)

Welding is applied in accordance with the structural steel welding code of the American Welding Society (AWS D1.1)

DESIGN STANDARD:

MBMA	:	Metal Building Manufacturers Association for applicable loads and tolerance.
AISC	:	American Institute of Steel Construction 2010 is being used for the design of hot rolled and built-up sections.
AWS	:	American Welding Society specification D1.1:2015
AISI	:	American Iron & Steel Institute for cold-formed members.
IS 875 2015	:	Indian Standard code of Practice for Loading. Part 1 for Dead load, Part 2 for Live load, Part 3 for wind load and Part 4 for other loads.
IS 800-2007	:	Indian Standard code for Design and serviceability.
IS 801-1975	:	Indian Standard code for cold-form products
IS 1893-2016	:	Indian standard code for Seismic Load.
IS 4353 & IS 816	:	Welding code
IS 7215 & IS 12843	:	For Tolerance

STANDARD MATERIAL SPECIFICATIONS

Primary Members

Primary structural framing shall include the transverse rigid frames, lean-to-rafters and columns, canopy rafters, interior columns (beam and column frames), bearing frame rafters and corner columns and end wall wind columns.

Secondary Members

Secondary structural framing shall be including purlins, girts, eave struts, wind bracing, flange bracing, base angles, clips, and other miscellaneous structural members.

Physical Specifications of Structural Members

Members fabricated from plate or bar stock shall have flanges and webs joined on one side of the web by a continuous welding process and will conform to the physical specifications of ASTM A570 (Grade 50) or equivalent and having a minimum yield strength of 50,000 P.S.I. (345 MPa).

Members fabricated by cold forming process shall conform to the physical specifications of ASTM A570 (Grade- 50) or equivalent and having a minimum yield strength of 50,000 P.S.I (345 MPa).

Members fabricated from hot rolled structural shapes shall conform to the physical specifications of ASTM A572 (Grade 36) or equivalent and having a minimum yield strength of 36,000 P.S.I. (250 MPa).

Rod and angle bracing shall conform to the physical specifications of ASTM A36 (or equivalent) and having a minimum yield strength of 36,000 P.S.I. (250 MPa).

Note: We also design using primary and secondary members in 250 Mpa yield strength.

Roof & Wall sheeting

The standard supply of material for the roof is 0.47 mm TCT Bare Galvalume and for wall cladding 0.50 mm TCT Colour coated Galvalume.

Flashing and Trims:

Accessories like Ridges, Corners, Gable flashings, Aprons, Wall flashings, Gutters, Downspout Pipe, etc. are made from either bare galvalume or color-coated galvalume.

Sheeting Fasteners

Standard fasteners shall be no 12G - 14 TPI / 24 TPI - 65 mm SDT metal screws with neoprene washers. All screws shall have hexagonal heads. For roof size of the screw is 65 mm while for side cladding is 25 mm. Stitching screws are being used for flashings or wherever it is required.

Other Accessories:

Silicon, Rope seal, Butyl tap, and Foam fillers are used wherever required.

Connections:

All field connections shall be bolted (unless otherwise specified in the approval drawings).

Primary bolted connections shall be furnished with high-strength bolts conforming to the physical specifications of ASTM A325 (or equivalent) / IS 1363-2.

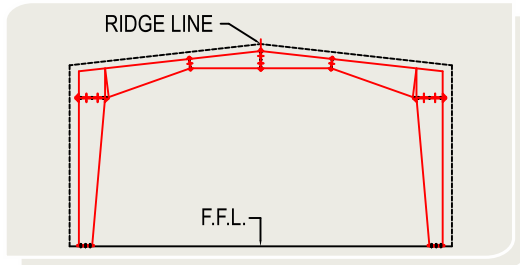
Secondary bolted connections shall be furnished with machine bolts that conform to the physical specifications of ASTM A307 (or equivalent) / 1363 - 2.

Paint on Structural Members

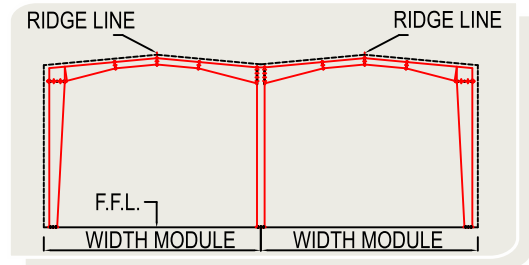
All structural members shall be cleaned by wire brushing to remove dirt, grease, oil and loose mill scale and given one shop coat of DTM (Direct to metal). The finish paint touch-up shall be 60 to 80 microns done at the factory. Epoxy paint, PU paint, and special corrosive resistance paints are also used on special requests.

Shot blasting and special colour options are at the client's discretion.

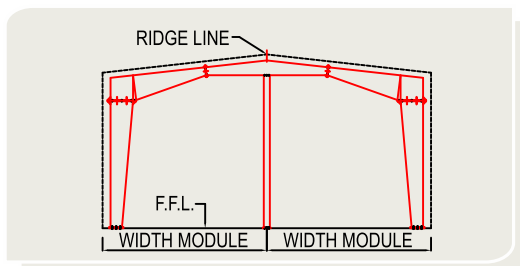
Types of Pre-Engineered Buildings



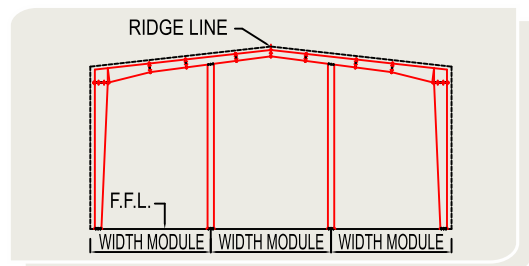
Tapered Column Clear Span



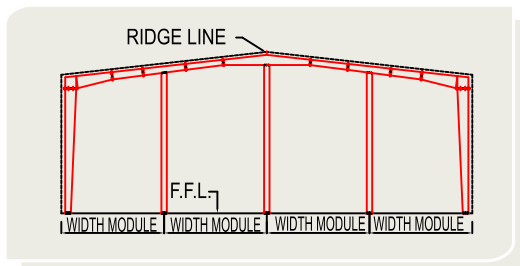
Multi Gable (Clear Span)



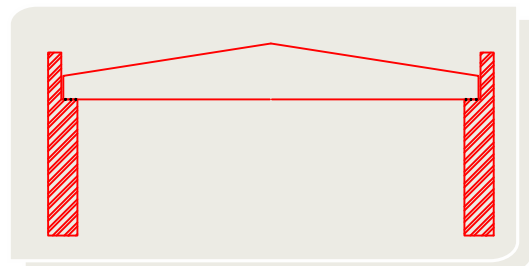
Multi Span - 1



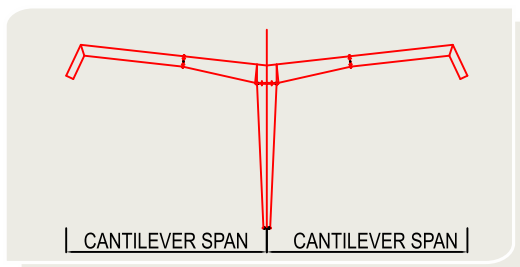
Multi Span - 2



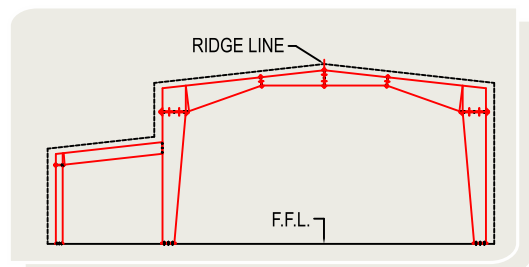
Multi Span - 3



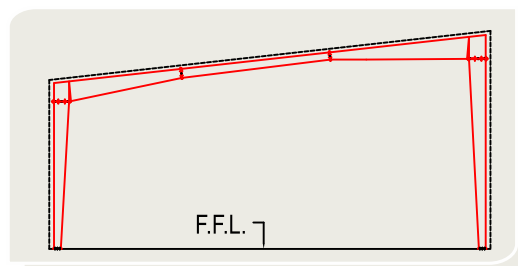
Rafter System (Clear Span)



Butterfly Canopy - Car Parking

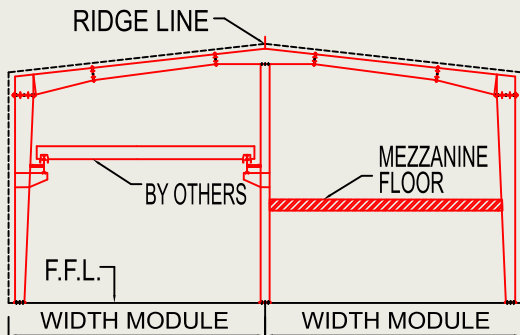


Lean - To (Clear Span)

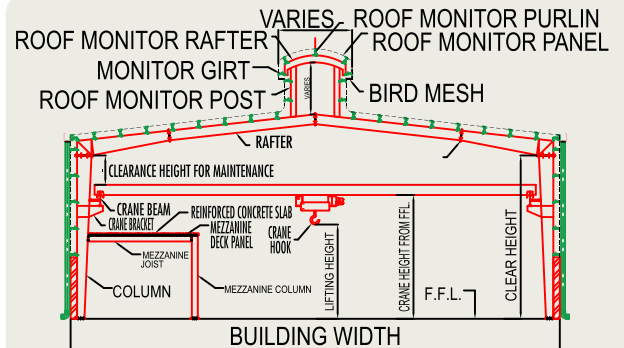


Single Slope (Clear Span)

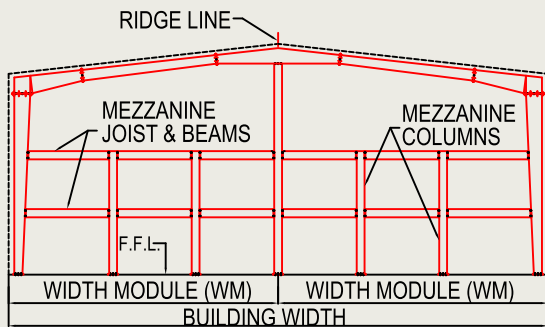
Sub section of Pre-Engineered Buildings



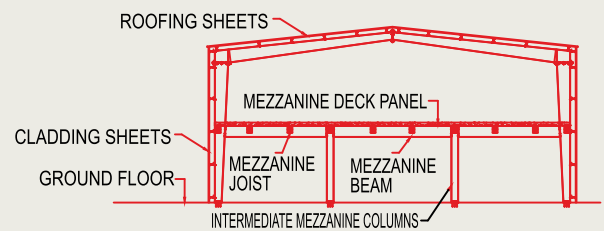
Crane Bracket Beam / Mezzanine Floor Provision



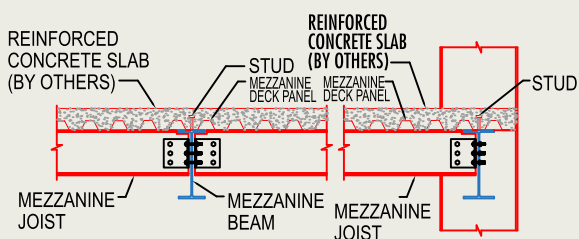
Cross Section Rigid Frame



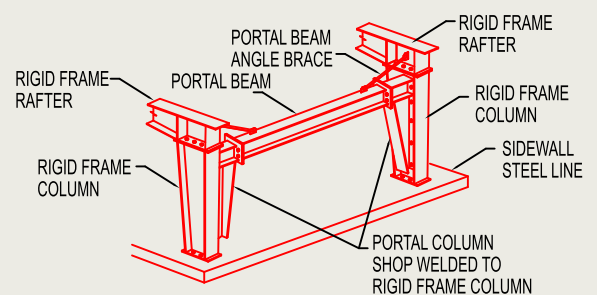
Two Level Mezzanine Floor



Mezzanine Floor

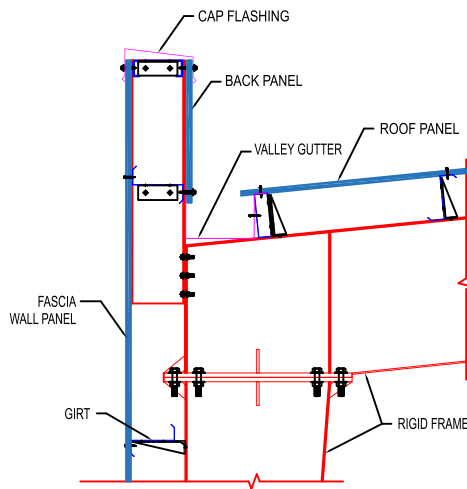


Mezzanine Cross Section

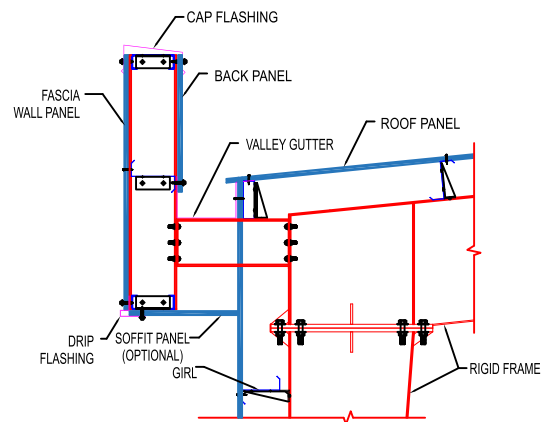


Portal Bracing

Types of Fascia

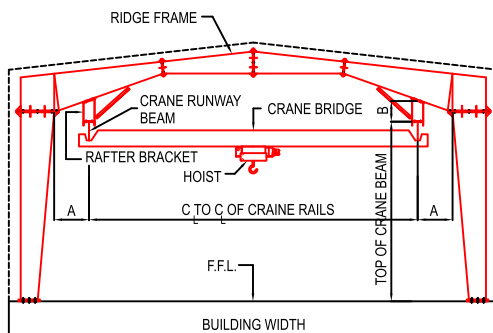


Parapet Fascia

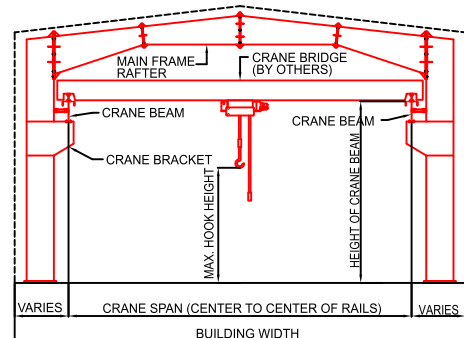


Vertical Fascia With Back Up Panel & Valley Gutter

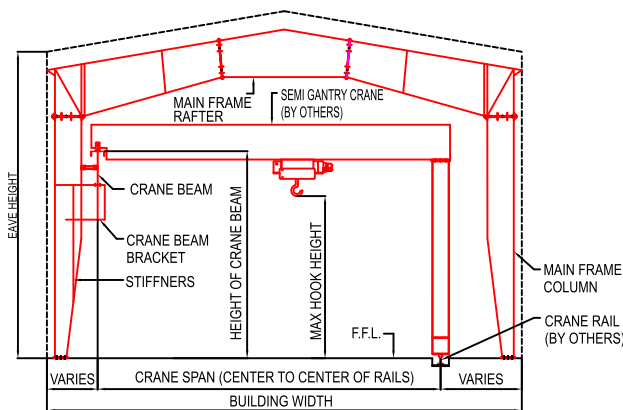
Types of Crane Provisions



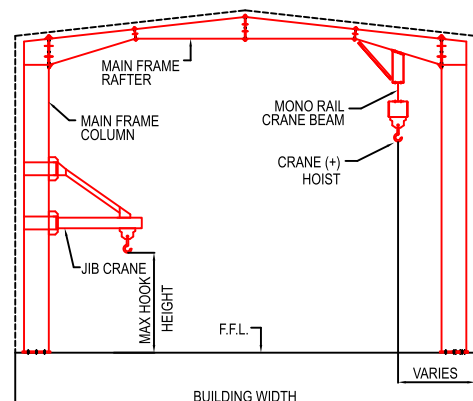
Underhung Crane



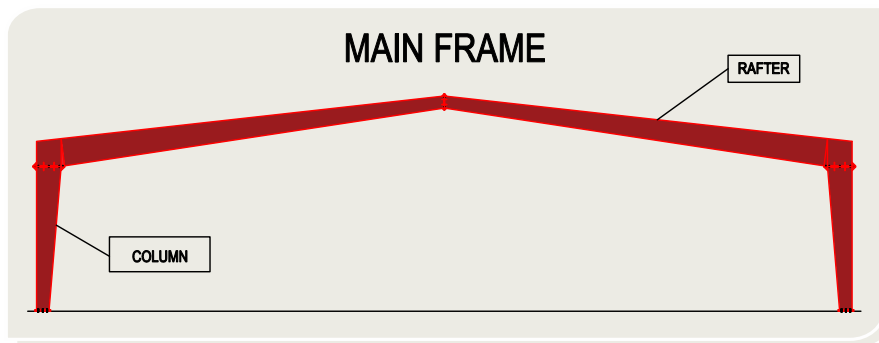
Top Running Crane



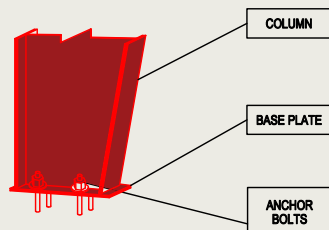
Semi Gantry Crane



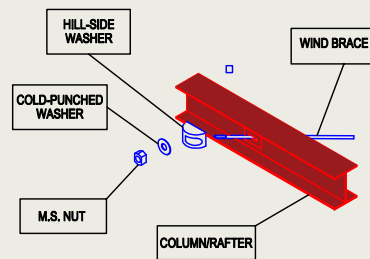
Jib & Monorail Crane



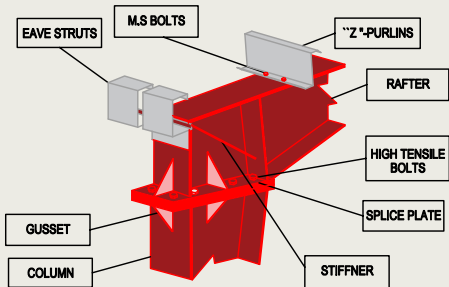
MAIN FRAME - ASSEMBLY



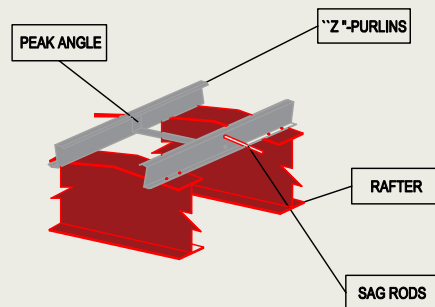
WIND BRACING



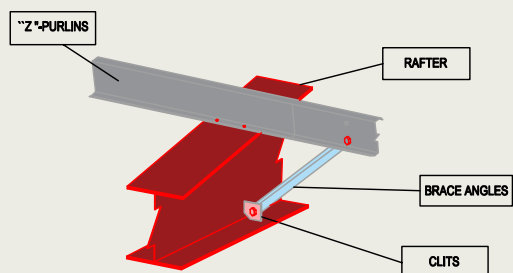
MAIN FRAME - ASSEMBLY



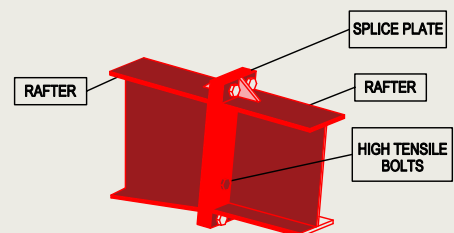
MAIN FRAME - ASSEMBLY



SECONDARY FRAMING - ASSEMBLY



MAIN FRAME - ASSEMBLY



Process Plant

Kutch Chemical Industries Limited - Gandhidham



Panoli Intermediates India Pvt. Ltd. - Jhagadia



Ruchi Petro Plast Private Limited - Dahej



Glimpse of Projects undertaken by us



Sepratech



**Innovic Technology
Anand**



**Brimax AAC Products LLP
Jarod (Savli)**



**NEW FIELD ENGINEERING
SAMLAYA**



**SIGMA 50000 SQ.FT
(Inside view)**



**SIGMA 50000 SQ.FT
(Outside view)**



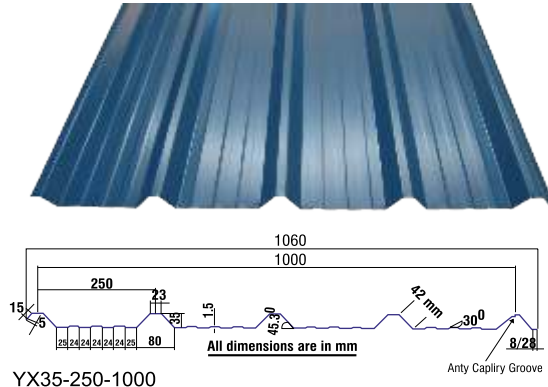
**Green Brilliance Solar Pvt. Ltd.
Karjan (Vadodara)**



Manico Minerals, Mundra

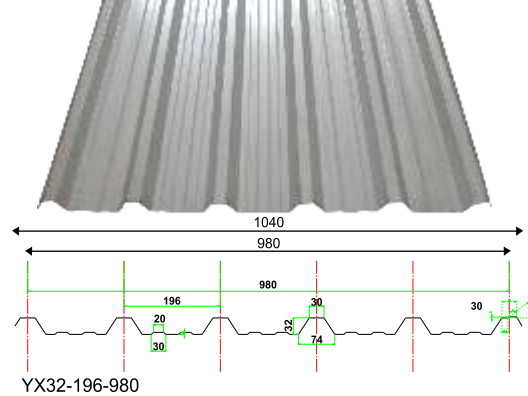
Colour Coated Trapazoidal Roofing Sheet

Bansal 1000 Profile (Hicover)



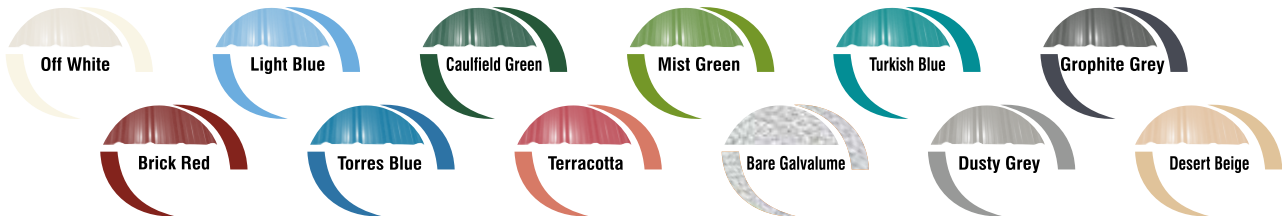
YX35-250-1000

Bansal 980 Profile (Histrength)



YX32-196-980

Remark : (1) Tolerances Applicable (2) For high coverage width of sheet can be made 1080 / 1090 mm.



(Base Metal)
Cold rolled steel sheet

Zinc coat/Zn-Al

Pre-treatment

Primer coat

Top coat

Guard film
(optional)

Zinc coat/Zn-Al

Pre-treatment

Primer coat

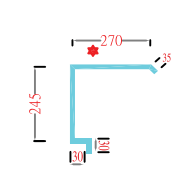
Back coat

Functional paint (epoxy, polyester)

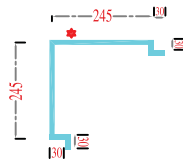
Coating Process

Detail	Bare Zinc Aluminium (BGL)	Colour Coated Zinc Aluminium (PPGL)	Pre painted Galvanized Iron (PPGI)	Bare / Painted Aluminium Sheet
Coating Detail	55% AL, 43.5% ZN 1.5% SI as per ASTM 792M, AS1397:1993, IS15961:2012	55% AL, 43.5% ZN 1.5% SI as per ASTM 792M, AS1397:1993, IS15965:2012	99.5% ZN as per IS 277 Colour as per IS14246	AA 3015
Tensile Strength	550 MPA or Other on request	550 MPA or Other on request	550 MPA / 240 MPA	150 MPA
Coating Mass	AZ 150 GSM or Other on request	AZ 150 GSM Colour (27-30 μ) or Other on request	Z-120 Gsm Colour (27-30 μ) Other on request	—
Steel Substrate	0.47TCT & 0.50TCT IS 513	0.50/0.55/0.60 TCT AS PER IS 513	0.30 TCT TO 0.85 TCT, AS PER IS 513	05/0.6/0.71 /0.91
Paint	-----	Regular modified polyster system Silicon modified polyster system Other Coatings on request	Regular modified polyster system Silicon modified polyster system Other Coatings on request	RMP / SMP or as per requirement

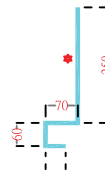
Sheet Accessories Drawing Details



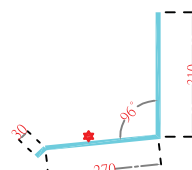
① Gable Trim (GT)
Length - 2500 mm



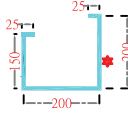
② Corner Trim (CT)
Length - 2500 mm



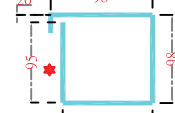
③ DT - DRIP TRIM
Length - 2500 mm



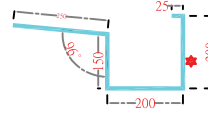
④ CF - CANOPY FLASH
Length - 2500 mm



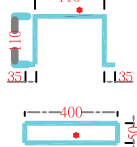
⑤ Roof Gutter (RG)
Length - 2500 mm



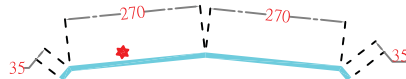
⑥ Down Take Pipe
Length - 2500 mm



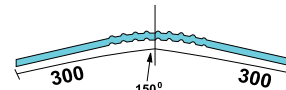
⑦ Eave Gutter (EG)-
Girth=825 mm
Length - 2500 mm



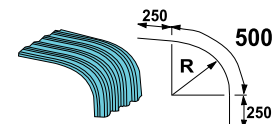
⑧ Down take strip (DTS2)
Length - 400mm



⑨ Plain Ridge Trim (PRT)
Length - 2500 mm



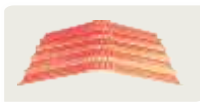
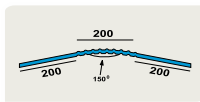
⑩ Profile Ridge (PR)



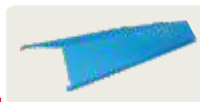
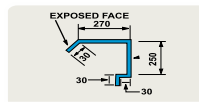
⑪ North Light Curvature

Roofing Accessories

Crimped Ridge



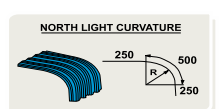
Gable End Flashing



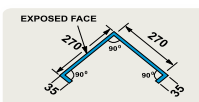
Plain Ridge



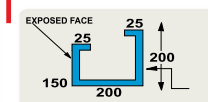
North Light Curvature



Corner Flashing

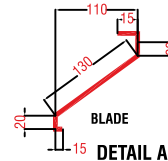
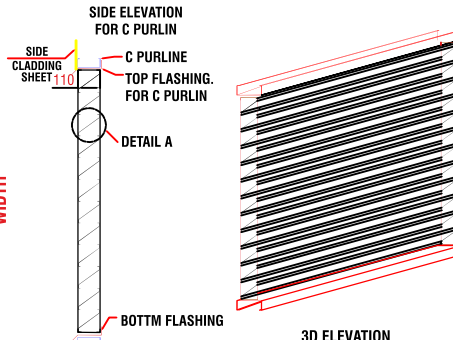
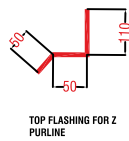
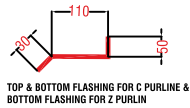
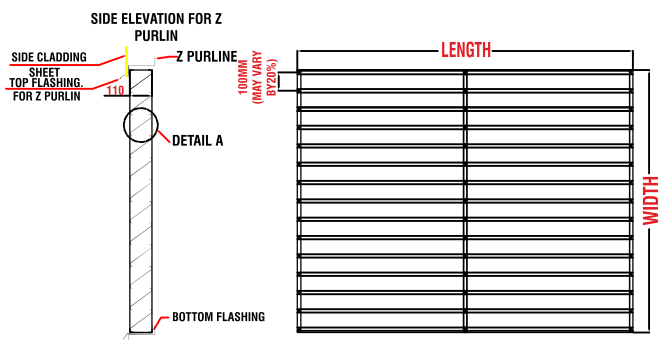


Roof Gutter

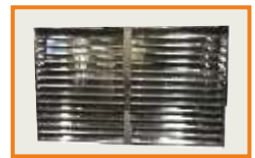


S Type Fix Louvers

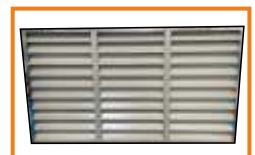
- The airflow is increased by fixing the louvers in the side cladding of the factory.
- It can be fastened with either a single louver in a bay or a continuous line of louvers in between two purlins.
- It can be made from Colour coated Metal, Galvanised steel, Aluminium, S.S. or Polycarbonate.
- It inhibits dust and rainwater while allowing unhindered air circulation.
- It is sturdy and durable. The strength of FINS is increased by its several bends, which also gives beauty to the cladding.
- Louvers can be made in a variety of sizes. The recommended size are up to 2000 mm in height and 4000 mm in width.



Louver Made from S.S.



Louver Made from Colour Coated Sheet



Louvers Fixed at rite



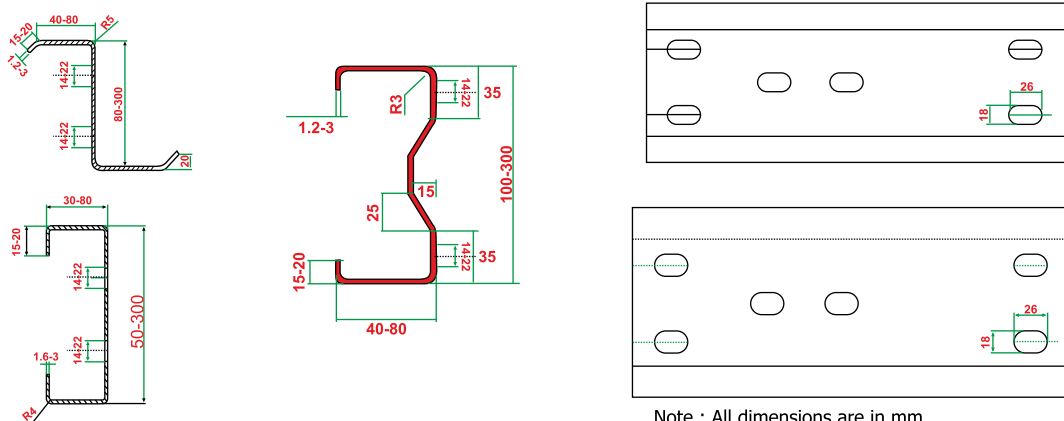
"Z", "C", "U" & Sigma" Purlins

Purlins and girts are secondary structural members that support the main steel frame and carry loads from the buildings to the primary structure.

They are essential for load distribution, stability, and fixing of Sheets.

Common Types of Purlins

- Z - Section is preferred because they can lap over supports improving continuity and is more economical.
- C - Section also Known as girts provides lateral support to columns. Act as fixing members for Doors, Windows, Louvers.
- The advantage of using these purlins are unlimited depth and thickness options gives the designer the required freedom to design most economical purlin. 'Z' Purlins can be supplied from 80 mm to 300 mm depth (web) and thickness from 1.2 mm to 3 mm while 'C' purlins can be supplied from 50 mm to 300 mm depth (Web) and thickness from 0.8 mm to 3 mm.



Note : All dimensions are in mm.



Other Roofing Sheet

FRP / GRP - (Fiber Reinforced Plastic)



FRP Translucent Sheet



Green Leaf



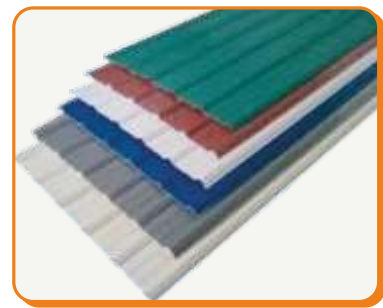
FRP Opaque Sheet



FRP Opaque Sheet

We are the Manufacturers of fibre glass" Opaque and Translucent sheets for different applications. Products Manufactured by us are U.V. Resistance, better finish and good quality since it is made out of first grade chopped glass mat and polyester resin.

U-PVC & PVC Sheets



UPVC Sheets are made from PVC resins and fillers. It has properties such as corrosive resistance, heat, thermal and sound insulation, fire retardant, light weight, high strength, non conductive to electricity, eco friendly and maintenance free.

Polycarbonate



Embossed : These are plain sheets which is available in regular, prismatic embossing feature in different thicknesses ranging from 1 mm. to 12 mm.

Clear Compact : These are light weights, strong flat sheets in different thicknesses. Transparency is like glass. It is very strong and available from 1.5 mm. to 12 mm. thickness.

Multiwall : The product is light, strong, insulating and attractive. Being used widely for roofing, cladding and other applications. It is available in twin wall, triple wall, and multiple wall.

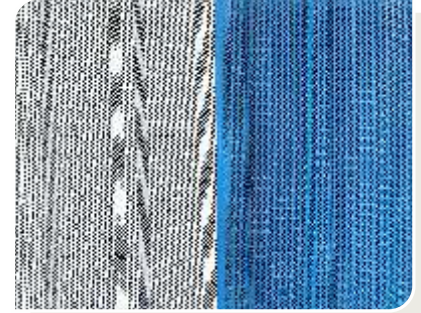
Profiled Perforated metal Sheet

Perforated profile sheet is very versatile. Perforated metal offers unique opportunities to combine strength, functionality and beauty. Perforated Sheet are also an excellent means of achieving sustainable design objectives.

Perforated sunshades and sun screens provide privacy for building occupants without blocking the view. And they offer a comfortable level of natural lighting during daylight hours while deflecting heat to reduce the load on the HVAC system.

Applications

- Noise Control • Security Ceilings • Sun Screens
- Building Facades • In-Fill Panels • Furnishings



Stainless Steel Roofing Sheet



Profile sheets are available in various grades suitable for varied applications depending on corrosivity of the environment and nature of building like manufacturing or commercial warehouse or state of the art architectural building. It is available in Grade SS 430, SS 304, SS 316 from 0.4 mm to 0.8 mm.

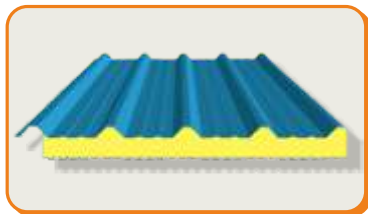
Aluminium Roofing Sheet

Aluminium roofing sheets are made from alloy grade 3105 & hardness H18. These sheets are light weight which makes it easy for transport and handling. Aluminium sheets have a high strength to weight ratio. Aluminium sheets have corrosion resistant properties so that it does not corrode. Aluminium sheets are environmentally friendly and non-flammable.



Insulation

Insulating the roof has become much more advisable. Regardless of the roofing system that one have, insulation can go a long way in providing a number of long-term benefits such as Heat Retention, Heat Prevention, Sound Prevention, Energy Savings & added layer of protection. BRPL provides various types of insulation on roofing sheets such as PUF, Rockwool, Glasswool, CCPE / XLPE, Bubble etc.



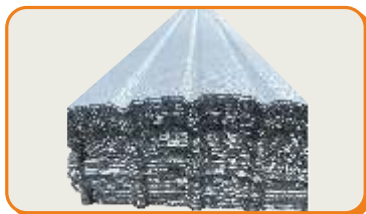
Puf Insulation



Rockwool



Glasswool



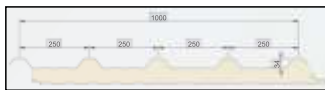
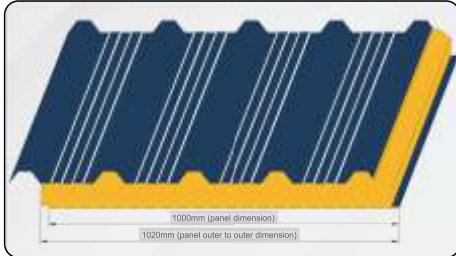
CCPE / XLPE



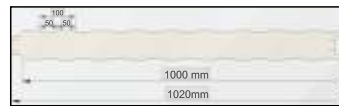
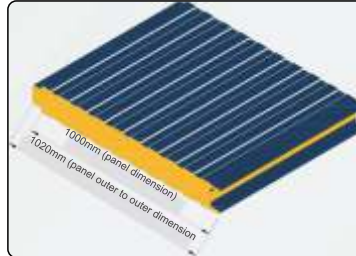
Bubble

Sandwich PUR & PIR Panels

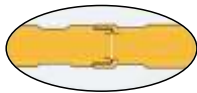
ROOF PANEL



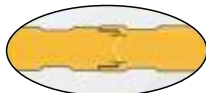
WALL PANEL



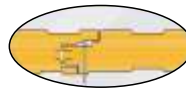
Types of Joints



1. Single Tongue & Groove
(for 30 to 50 mm)



2. Double Tongue & Groove
(for 60 mm and above)



3. Concealed Fastener
(for 40 to 100 mm)



Fire-Retardant
Core



Superior Thermal
Insulation



Energy-Efficient
Performance



Enhanced Aesthetic
Insulation



High Structural
Strength



Quick & Easy
Installation

Eco Ventilator (Runs without Power)

Turbo ventilator is a self driven equipment installed on industrial roofs to extract inside air. Turbo ventilators are driven by wind hence no electricity or other power sources are required. As the ventilator is rotated by wind, the stale inside air is exhausted through it and natural inward flow of fresh air is boosted.



Why to use :

- Low equipment cost. • Energy Saving. • Comfortable factory working environment.
- No maintenance. • Recommended by Energy Auditors.

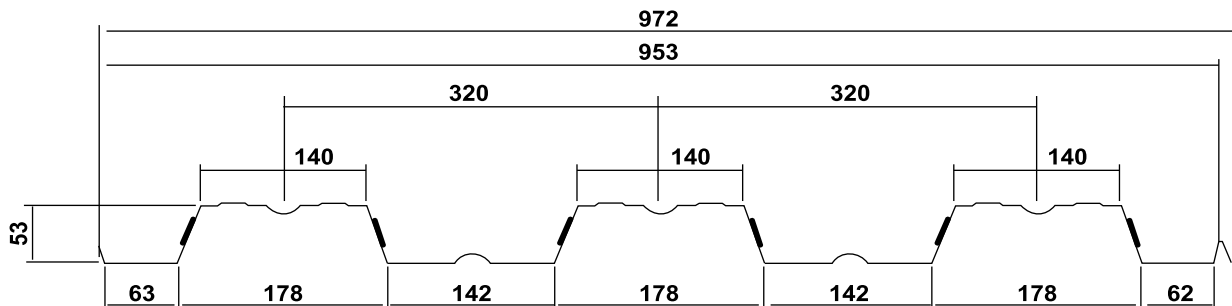
Features :

- Rigid roll formed curved vanes in Aluminium. Optional S.S. 304 vanes are also available.
- Rotor shaft & self lubricated metlon bush assembly concealed in mild steel casting.
- Light weight & durable. Approximately 5.5 to 6.5 kg.
- Top cover & bottom ring is made of stainless steel.
- Single piece U.V. Stabilised FRP base plate in different thickness. Option of opaque and translucent colour available.



How does it work : The turbo ventilator operates by utilizing the velocity of the wind to induce air flow by centrifugal action. The centrifugal force caused by the spinning vanes creates a region of low pressure area which draws air out through the vanes. Air drawn out by the vanes is continuously replaced by fresh air from the outside. The slightest breeze will cause the turbine to spin and even after the breeze has stopped, the flywheel effect of the rotor cage will use its stored energy to continuously remove air giving rise to ventilation. Suction is maintained even at low wind velocities.

"Bansal" Deck Sheet 53.320.972



- Overall Width : 972mm $\pm$ 7.5mm
- Crest : 53mm $\pm$ 1.5mm



Installation of Deck Sheet



Shear Stud with Ferrule



Bundle of Deck Sheet

Benefits:

- Acts as a composite member and as permanent shuttering.
- No major reinforcement required.
- Deck can be used as working platform during construction.
- Speedy construction enables faster completion of a project.
- Decking reduces the construction time, hence the total cost.
- Designed with high precision in order to meet the market standards.
- Available from 0.8 mm to 1.5 mm thickness.

Glimpse of Manufacturing Facilities



H Beam Welding Machine



Plasma Cutting Machine



Purlin Machine



Roll Forming Machine



Deck Sheet Machine



Shearing Machine

Our Infrastructure





Structuring Dreams from Steel

Bansal Roofing Products Ltd.

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Ph. : +91 99250 60542

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 **peb1@bansalroofing.com** (for PEB inquiry)

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- (2) Product details and specifications are subject to change without any prior notice to any body.
- (3) Description / specifications in the literature are only for guidance and can not be treated as final specification.
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