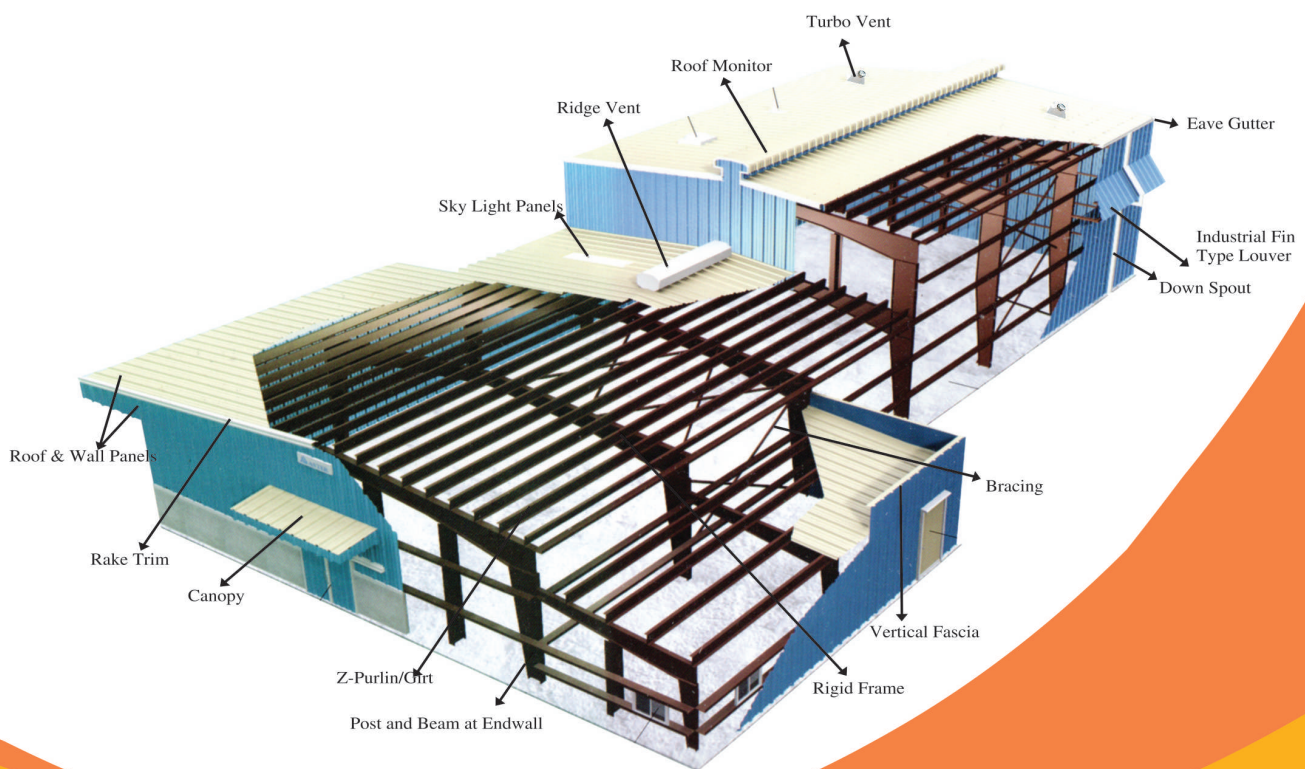




Structuring Dreams from Steel

Bansal Roofing Products Ltd.

Pre-Engineered Building



"You dream it, we build it"

An ISO 9001-2015 Certified Company

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





Structuring Dreams from Steel

An ISO 9001-2015 Certified Company



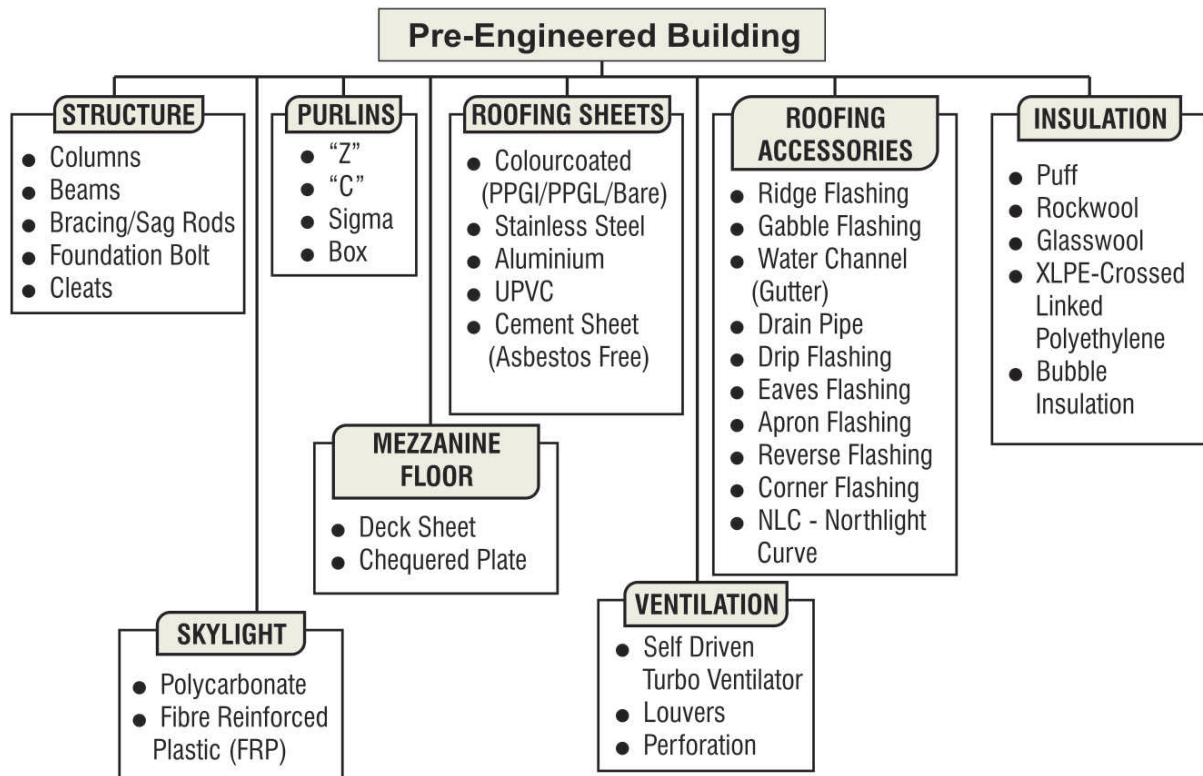
Overview

- Bansal Roofing Products Limited is a CRISIL Rated company and an ISO 9001:2015 certified company that came into existence in the year 2008. It got listed on the BSE-SME Platform on 14th July 2014 and migrated to the mainboard of BSE on 14th December 2021. “BRPL” is known for manufacturing, supplying, exporting, and installing an extensive array of high-quality Pre Engineering Building, Roofing Products & Accessories.
- The products offered by BRPL are Pre-engineering Buildings, Roof Sheets, and Accessories. Manufactured as per International standards, and IS Code, the offered products are highly demanded for Warehouses, Engineering Workshops, Showrooms, Cold Storage, Chemical Processing Industries, and many more. Its rich attributes such as excellent Strength, outstanding resistance to Impact, Seismic resistance, High wind pressure, Robust design, Impeccable finish, and commendable tolerance to high & low temperatures make it highly appreciated among our customers.
- By using advanced tools and equipment, our technicians and engineers manufacture these range from quality assured materials. Quality of the offered range of roofing products is our utmost priority and it is maintained through various quality assurance checks conducted by our team of quality controllers. In addition to this, as per the specifications provided by the customers, the offered range can be customized. Prompt delivery with complete transparency in all business dealings has helped us win our valuable customers' trust.
- Under the supervision of experienced management, we have gained remarkable success in this domain.
- Bansal is having manufacturing plant in Savli Taluka, District Vadodara, and is spread over a 2,00,000 sq. ft. area with all modern manufacturing facilities. Bansal makes 95% of the components of PEB In house having very less dependency on others hence completing 100% of projects on time.

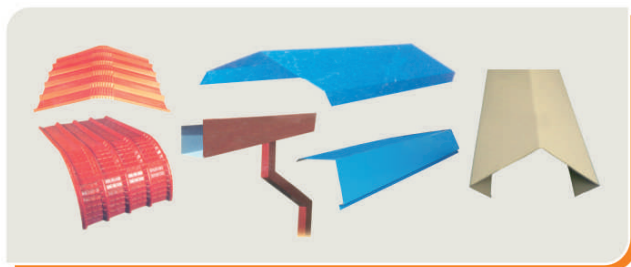
Key Strengths

- Experienced and Qualified Management Team having experience of more than 25 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 150 turnkey projects. Strong brand image.
- Our Robust design adds Strength and Durability to steel buildings.
- An ISO 9001:2015 certified company.
- CRISIL-Rated company.

Our Product Range



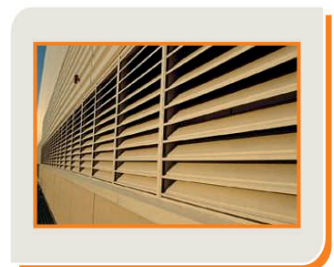
Roofing Accessories :



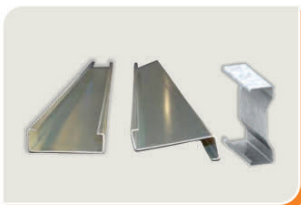
Eco Ventilator



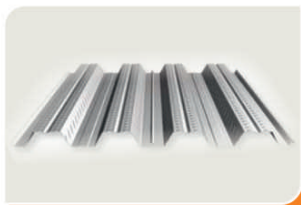
'S' Type Fix Louvers



Z and C Purlins
(Substitute of heavy angles and channels)



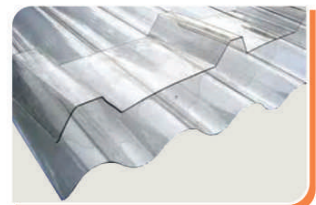
"Bansal Deck Sheet



FRP Sheets
(Fiber Reinforced Plastic)



Polycarbonate sheets
(For Skylight)





Structuring Dreams from Steel

GENERAL SPECIFICATIONS OF 'PEB'

APPLICABLE DESIGN CODES:

We at "Bansal Roofing Products Limited "use international design codes for making steel buildings. It is in accordance with the following codes:

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 as per Indian Standard Code is also being used by BRPL

DESIGN STANDARD:

MBMA	: Metal Building Manufacturers Association for applicable loads and tolerance.
AISC	: American Institute of Steel Construction 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
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).

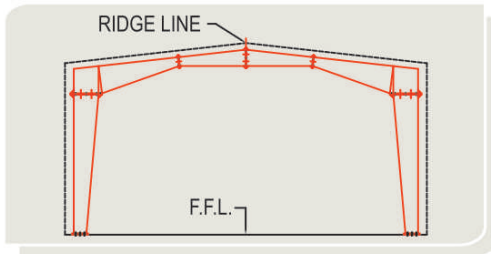
Secondary bolted connections shall be furnished with machine bolts that conform to the physical specifications of ASTM A307 (or equivalent).

Paint on Structural Members

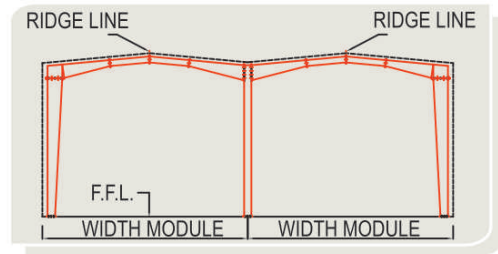
All structural members shall be cleaned by wire brushing to remove dirt, grease, oil and loose mill scale and given one shop coat of DTM (Direct to metal). The finish paint touch-up shall be 60 to 80 microns done at the factory. Epoxy paint, PU paint, and special corrosive resistance paints are also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

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

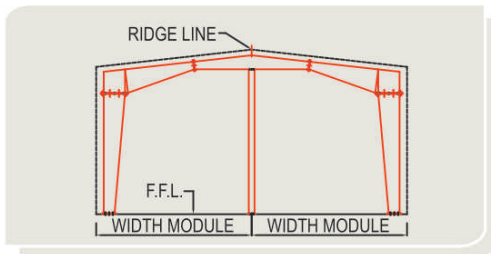
Types of Pre-Engineered Buildings



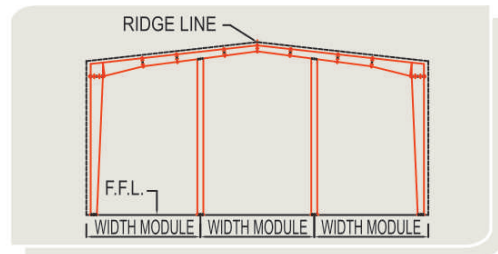
Tapered Column Clear Span



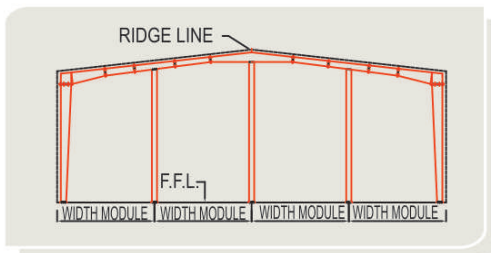
Multi Gable (Clear Span)



Multi Span - 1



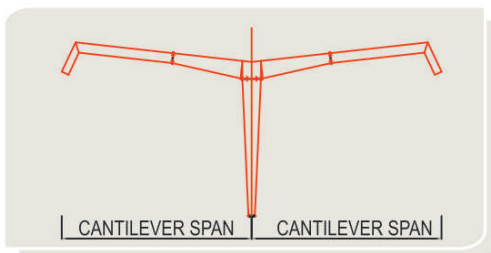
Multi Span - 2



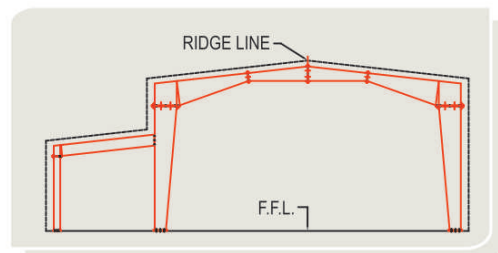
Multi Span - 3



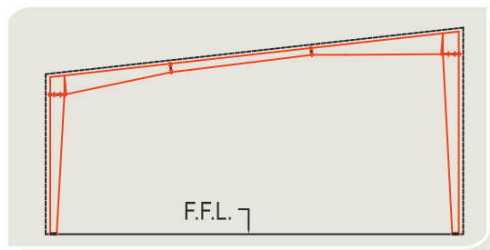
Rafter System (Clear Span)



Butterfly Canopy - Car Parking

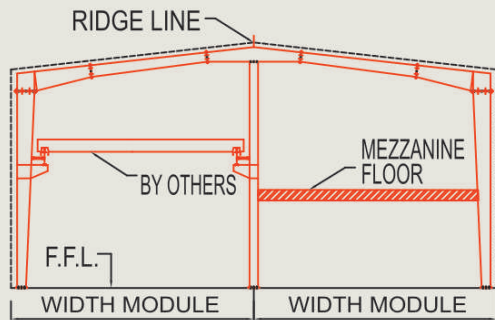


Lean - To (Clear Span)

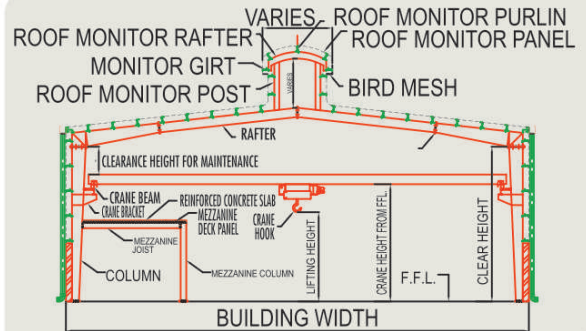


Single Slope (Clear Span)

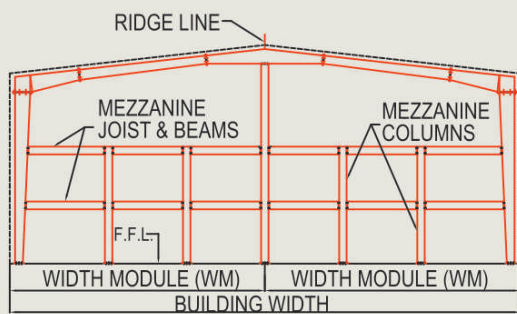
Sub section of Pre-Engineered Buildings



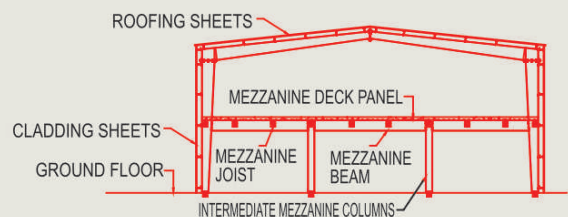
Crane Bracket Beam / Mezzanine Floor Provision



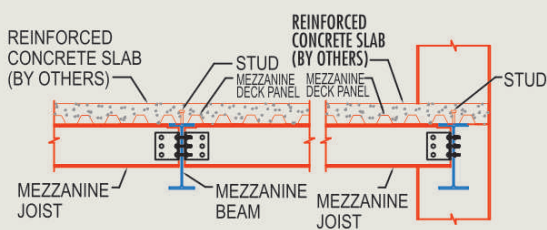
Cross Section Rigid Frame



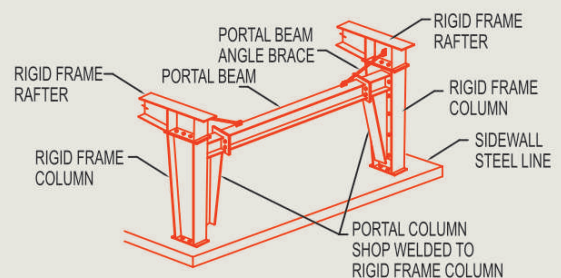
Two Level Mezzanine Floor



Mezzanine Floor

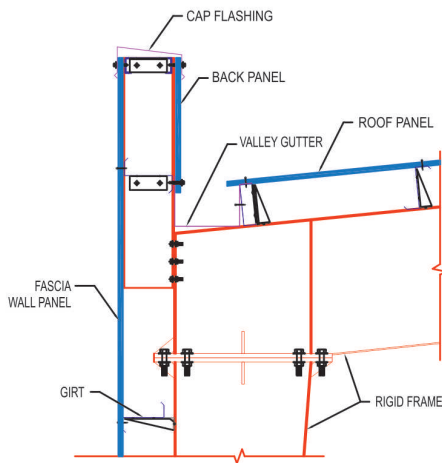


Mezzanine Cross Section

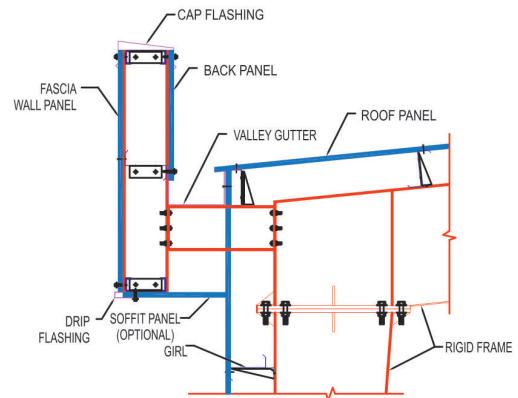


Portal Bracing

Types of Fascia

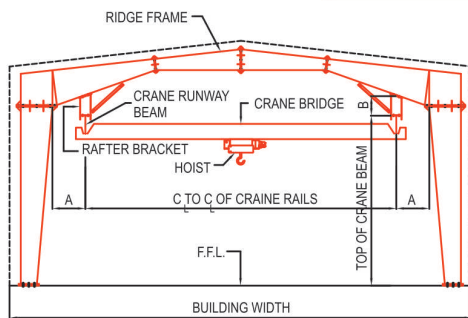


Parapet Fascia

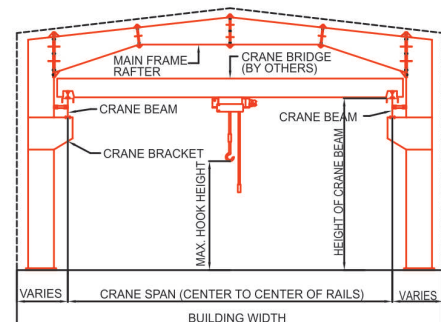


Vertical Fascia With Back Up Panel & Valley Gutter

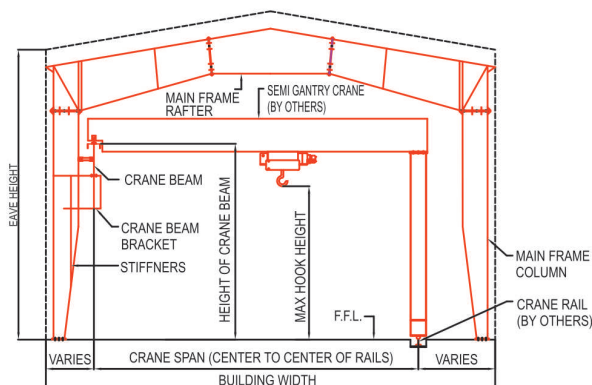
Types of Crane Provisions



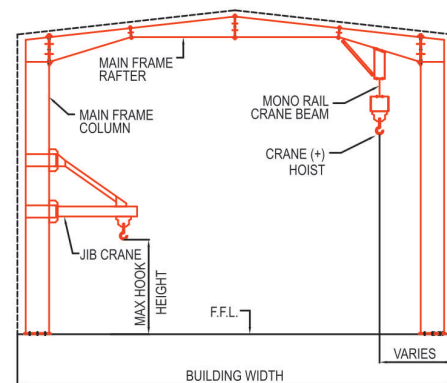
Underhung Crane



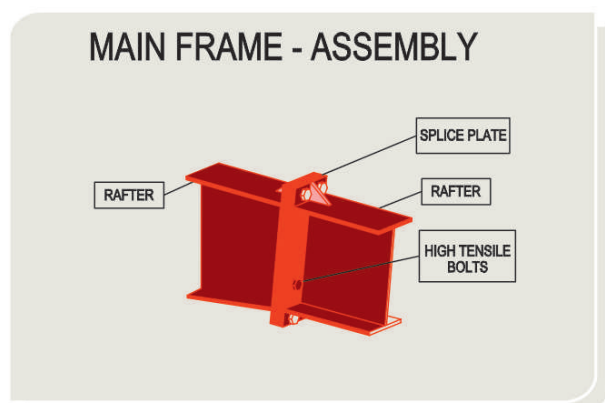
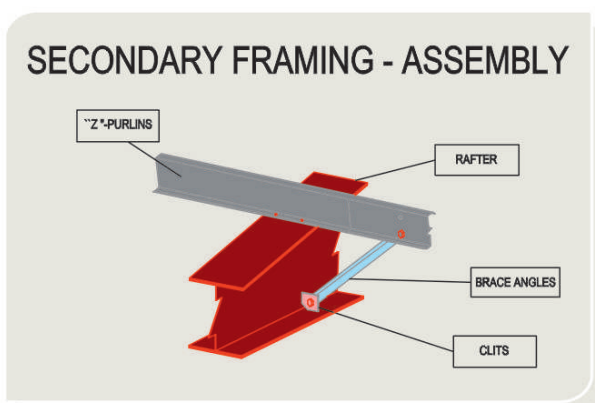
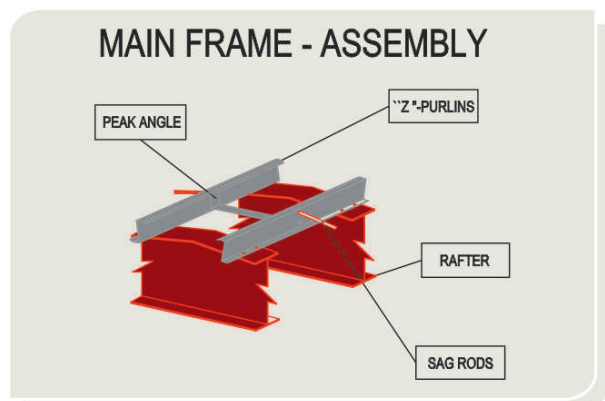
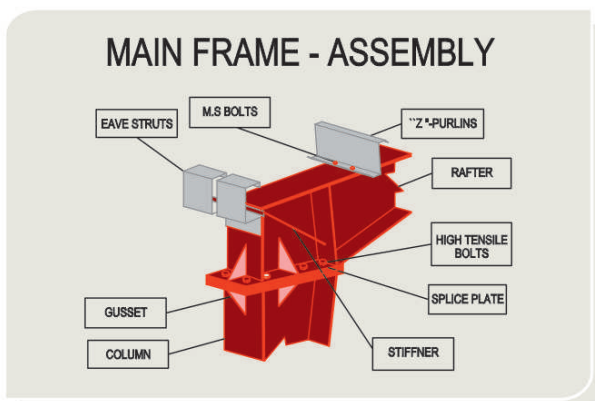
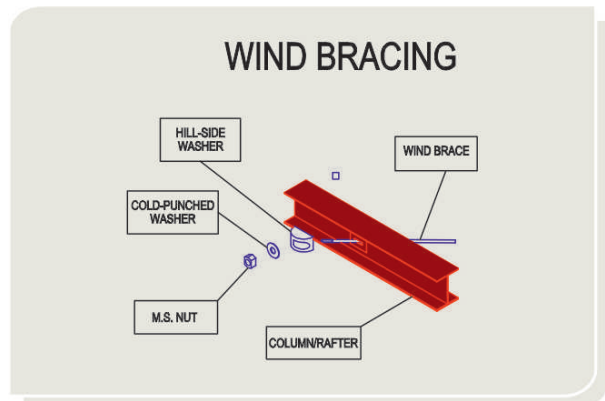
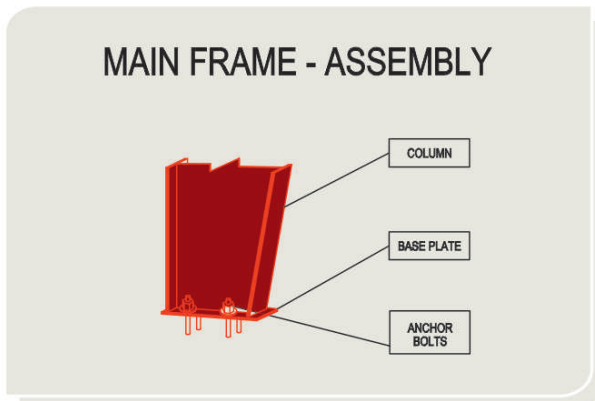
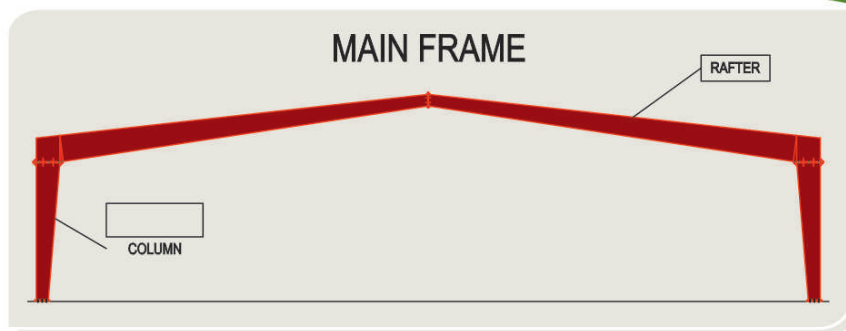
Top Running Crane



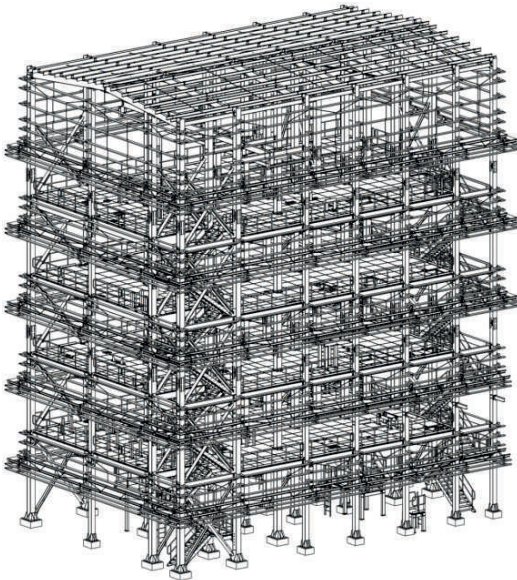
Semi Gantry Crane



Jib & Monorail Crane



Process Plant



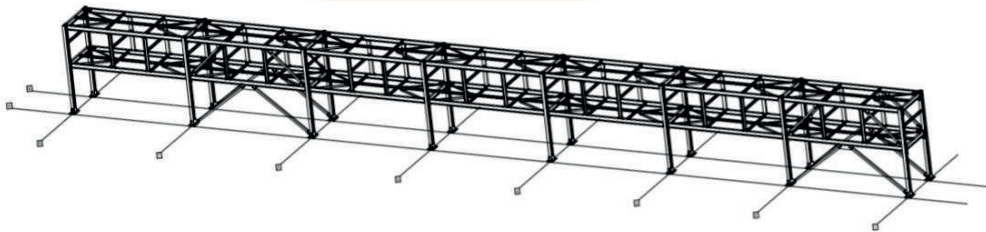
ISOMETRIC VIEW

3D Model



Actual Built at Site

Pipe Rack



Glimpse of Projects undertaken by us



Transpek Industries Limited,
Vadodara



Sigma Infrastructure,
Halol



Cromwell, Surat



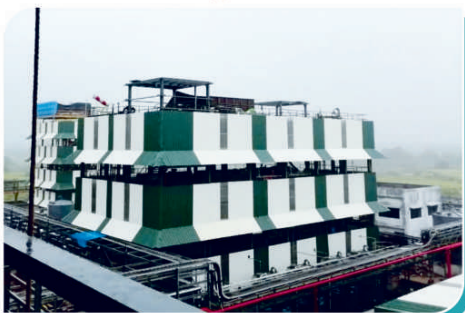
Graphene Composites LLP,
Savli



New Century Filaments Pvt. Ltd.,
Waghodia



RSF Hytech , Vadodara



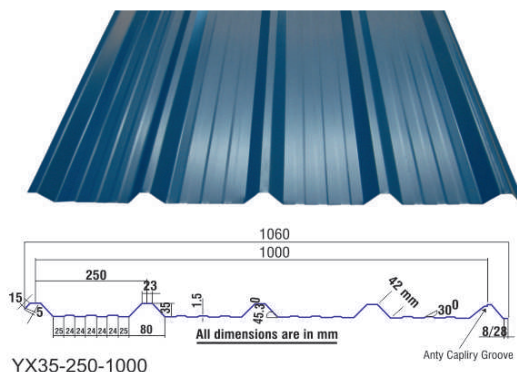
Gujarat Organics Ltd., Jhagadiya



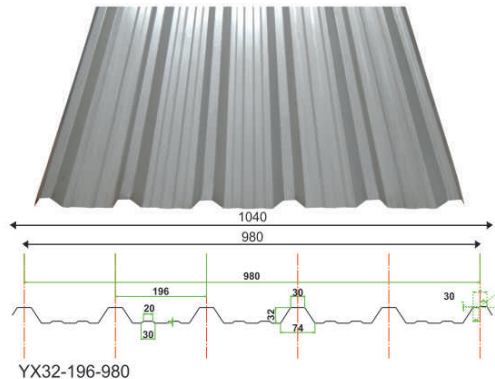
Super Sales Corporation, Vadodara

Colour Coated Trapazoidal Roofing Sheet

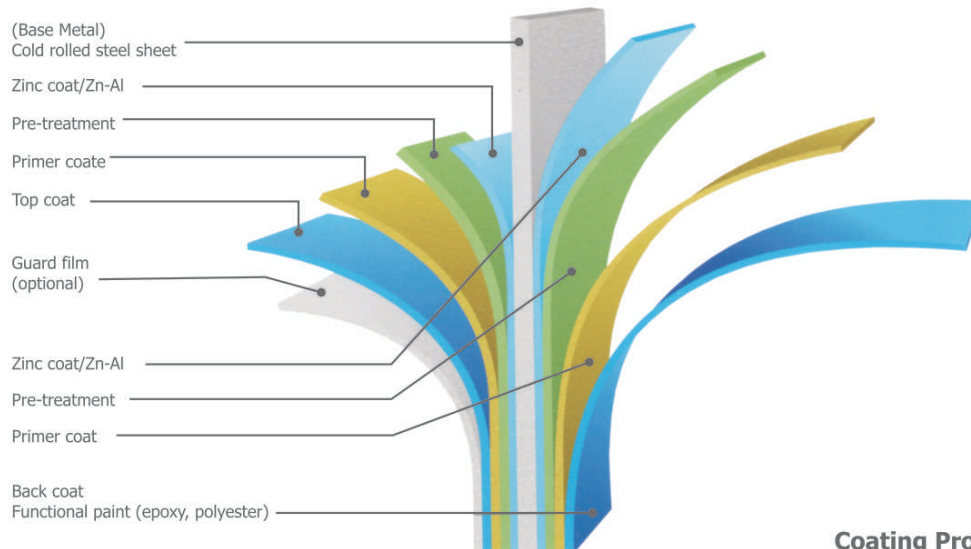
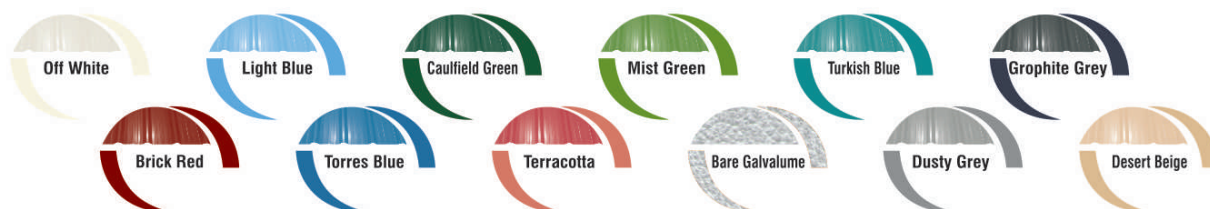
Bansal 1000 Profile (Hicover)



Bansal 980 Profile (Histrength)



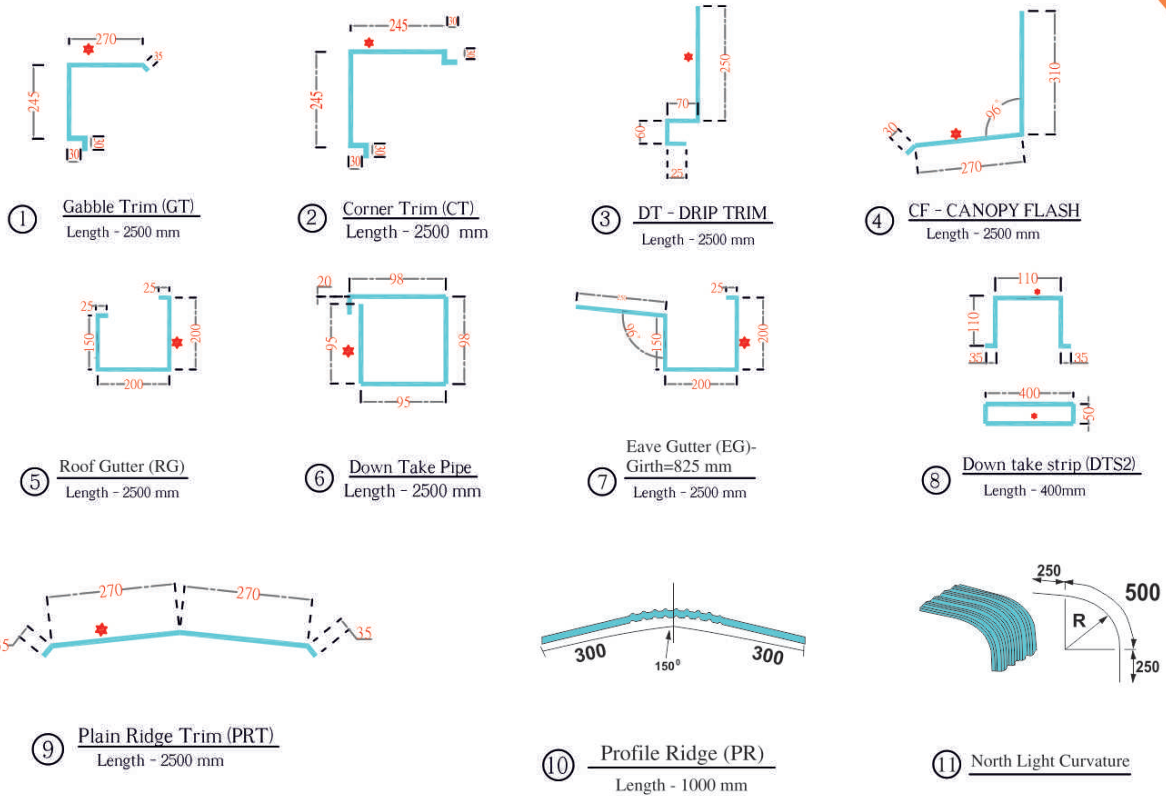
Remark : (1) Tolerances Applicable (2) For high coverage width of sheet can be made 1080 / 1090 mm.



Coating Process

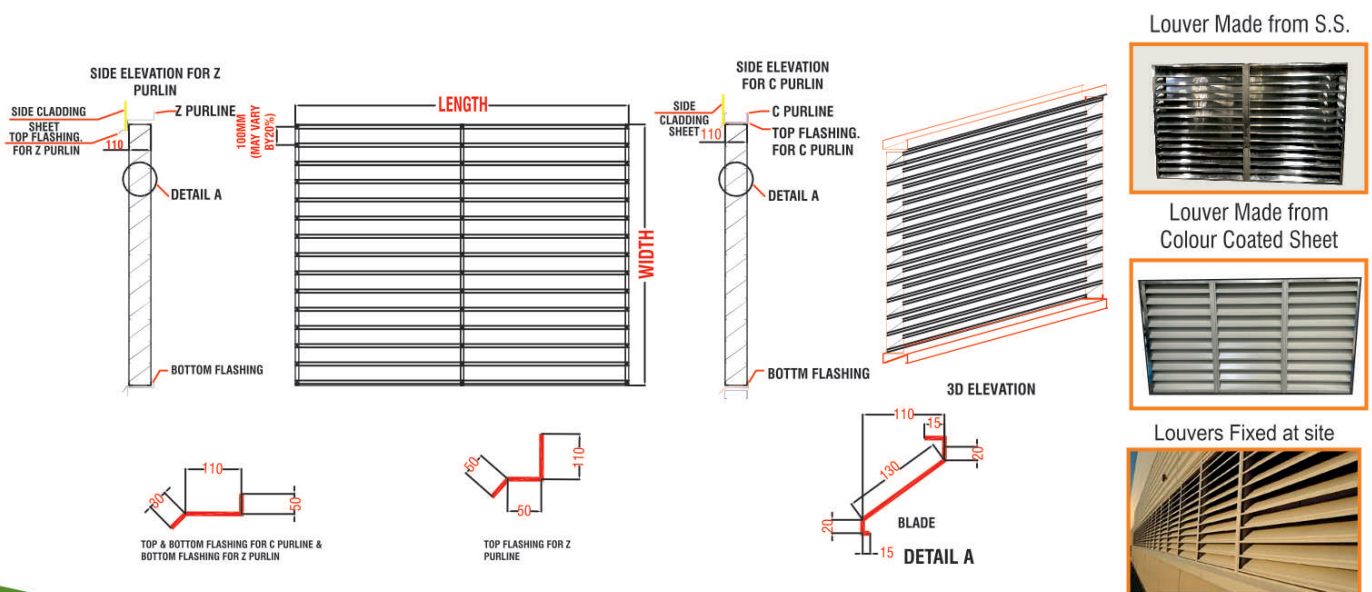
Detail	Bare Zinc Aluminium (BGL)	Colour Coated Zinc Aluminium (PPGL)	Pre painted Galvanized Iron (PPGI)	Bare / Painted Aluminium Sheet
Coating Detail	55% AL, 43.5% ZN 1.5% SI as per ASTM 792M, AS1397:1993, IS15961:2012	55% AL, 43.5% ZN 1.5% SI as per ASTM 792M, AS1397:1993, IS15965:2012	99.5% ZN as per 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 polyester system Silicon modified polyester system Other Coatings on request	Regular modified polyester system Silicon modified polyester system Other Coatings on request	RMP / SMP or as per requirement

Sheet Accessories Drawing Details



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 or 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.





Structuring Dreams from Steel

Other Roofing Sheet

FRP / GRP - (Fiber Reinforced Plastic)



FRP Translucent Sheet



Green Leaf



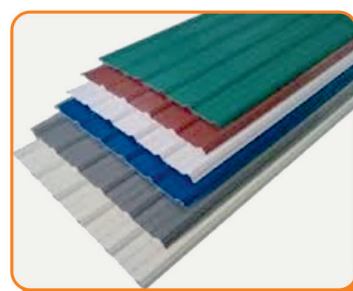
FRP Opaque Sheet



FRP Opaque Sheet

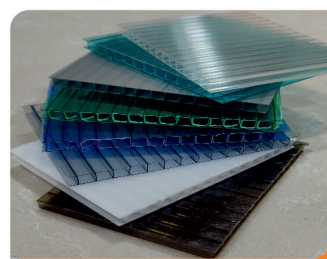
We are the Manufacturers of fibre glass" Opaque and Translucent sheets for different applications. Products Manufactured by us are U.V. Resistance, better finish and good quality since it is made out of first grade chopped glass mat and polyester resin.

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.

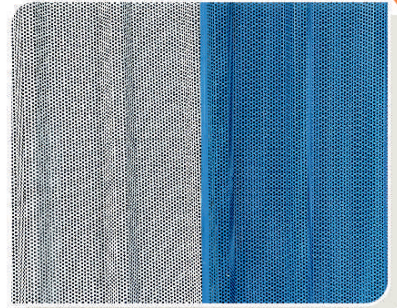
Profiled Perforated metal Sheet

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.

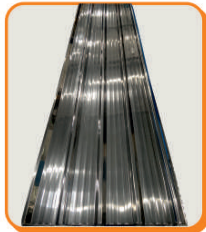
Perforated sunshades and sun screens provide privacy for building occupants without blocking the view. And they offer a comfortable level of natural lighting during daylight hours while deflecting heat to reduce the load on the HVAC system.

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.

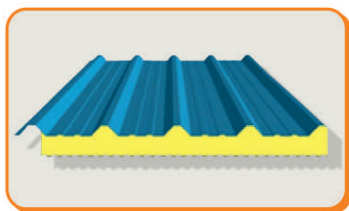
Aluminium Roofing Sheet

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.

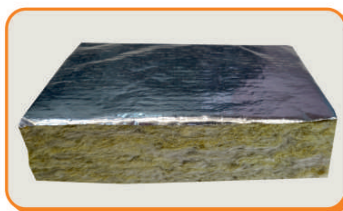


Insulation

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.



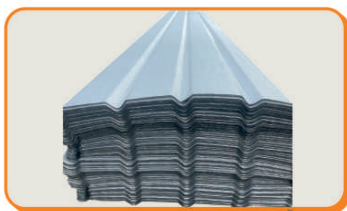
Puf Insulation



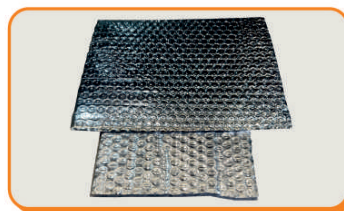
Rockwool



Glasswool



CCPE / XLPE



Bubble

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.

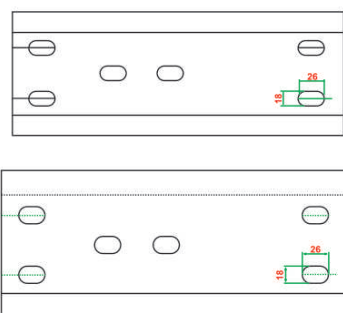
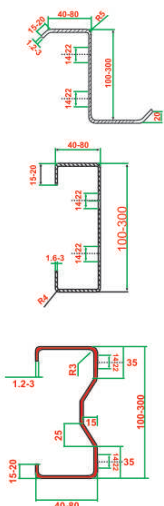
Features :

- 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.

"Z", "C" & Sigma" Purlins

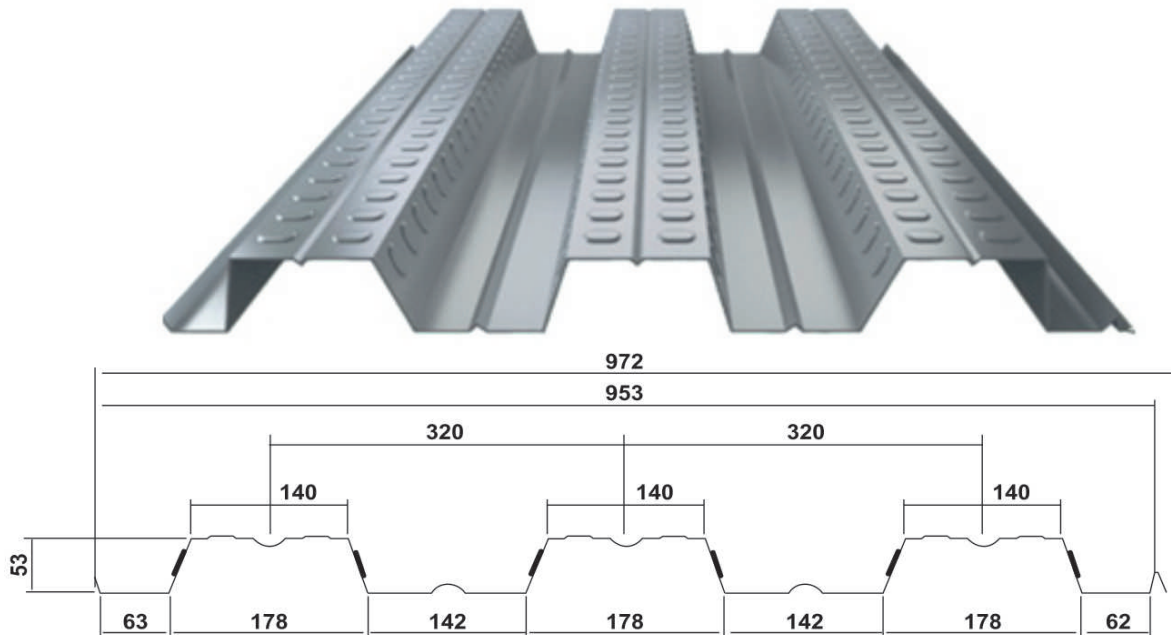


Note : All dimensions are in mm.



Purlins are most unique cold roll formed sections used to fix roof and side claddings. The advantage of using these purlins is unlimited depth and thickness option gives the designer the required freedom to design most economical Purlin. "C" and "Z" purlins can be supplied from 100 mm to 300 mm depth (Web) and thickness from 1.2mm to 3 mm.

“Bansal” Deck Sheet 53.320.972



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



Deck sheets enable faster construction and save overall construction time
Get high quality deck sheets from Bansal Roofing

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



Our Manufacturing Plant spread in 2 lakh sq. ft.

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Notes :

- (1) All the details and specifications provided in this literature are only for information and best to our knowledge .
- (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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