



PRE ENGINEERED  
STEEL BUILDING

DESIGNED FOR ANY PLACE. MADE TO LAST FOREVER.



CONVENTIONAL  
STEEL BUILDING

Coastal PEB Solutions Pvt. Ltd.

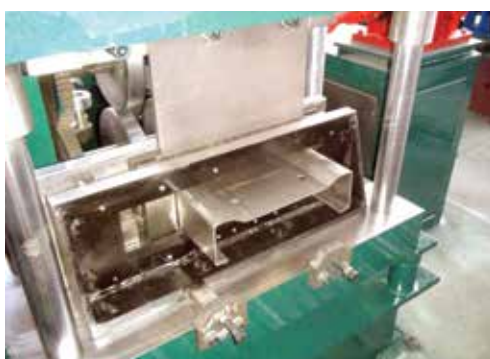


## A TRUST THAT GOES A LONG WAY.

When you're constrained for space, time and budget, we believe you should have an easy solution that lets you build the kind of shelter or structure you require. And if there's one name you can trust, it has to be Coastal PEB Solutions Pvt Ltd. We

have everything it takes to build a firm shelter of any size your need is – small, medium, large or largest. To back our quality and standards, we have the pillars of our 30-year values and philosophy.

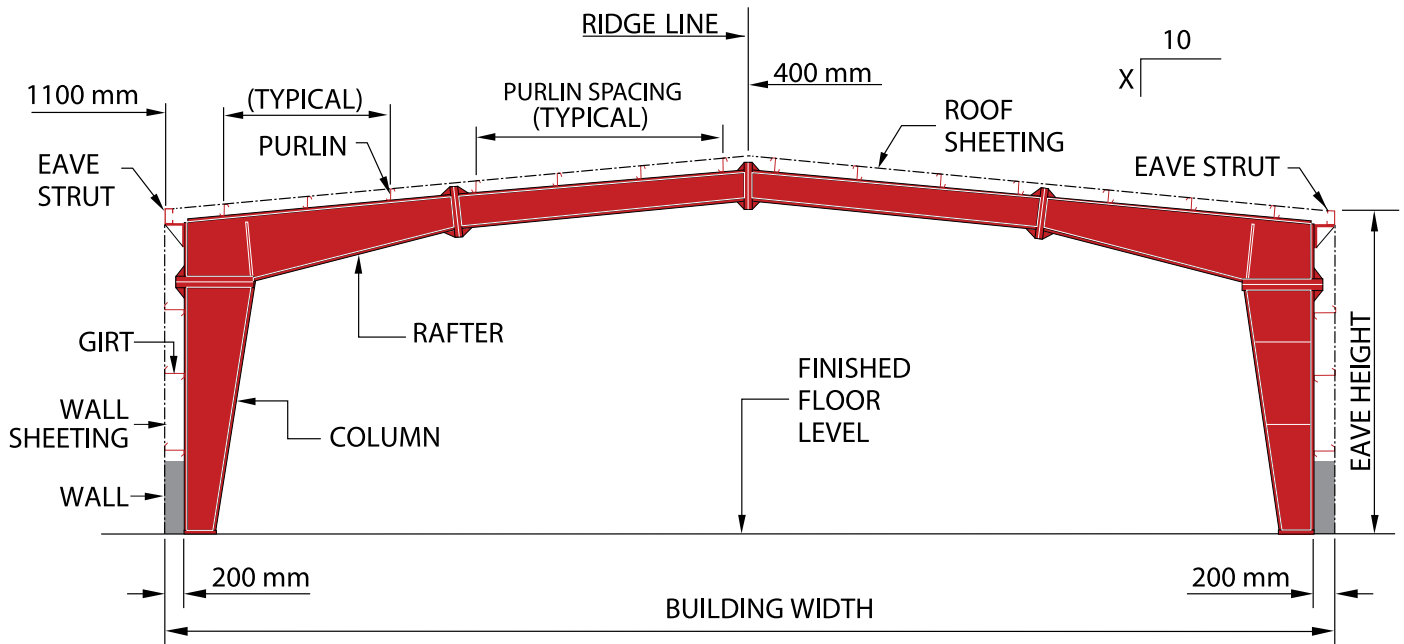
The beginnings of Coastal Roofings go back to 1985, which was set up by Siva Sankara Rao Vattikuti and Ramesh Gadde, as Coastal Engineering Works at Autonagar in Guntur, Andhra Pradesh, as a steel fabrication unit. The aim has always been to provide quality products and customer satisfaction. Coming to our Coastal Pre-Engineered Steel Building solutions, while most companies build only PEB, we at Coastal construct both Conventional and PEB Buildings.





# PRE ENGINEERED BUILDINGS

Pre-Engineered Buildings are practical and economical solutions for those constrained by space, time and budget. Made from steel and can be designed and deployed at a required place in a short span of time. Pre-Engineered Buildings are ideal for warehouses, factories, small-scale units and similar such storage facilities that may need to be flexible. Coastal PEB is in the forefront when it comes to leading the race in terms of innovation, both in terms of quality and design.



## Steel Grade specifications

- Primary sections (built-up) are fabricated from hot rolled steel plates confirming to ASTM A 572M Grade 50 with minimum yield strength of 345 Mpa
- Galvanized secondary members are cold formed from steel coils confirming to ASTM A 653M Grade 50 or Equivalent with Zinc coating Z 120 GSM minimum yield strength of 345 Mpa
- Self Drilling Screws as per AS 3566-2002, class 3
- Color coated coils AS1397 with minimum yield strength of 550 Mpa
- High Tension bolts ASTM A 325M 8.8 grade
- Machine bolts ASTM A 307 4.6 grade
- Bracing rods, Sag rods & Anchor bolts ASTM A 36 with minimum yield strength of 240 Mpa
- Steel for general structural purpose IS 2062

## Manufacturing Facilities

Coastal PEB has its very own top-notch 33,000 sft manufacturing facility in Autonagar, Guntur. For a task that requires quick and quality building, it's essential to have a state-of-the-art facility. Ours has the latest machinery that comprises Pull Through Beam Welding Line, Sub Arc Welding Machine, Mig Machines, Rectifiers, Hydraulic & Mechanical Shearing Machines, Radial & Pillar Drilling Machines, EOT Cranes, C, Z, Sigma, Top Hat Purlin and Roof Sheet Roll Forming Machines, etc. So much so that Coastal PEB has the capacity to deliver around 20,000 MT of finished product per year.

## Engineering Strength

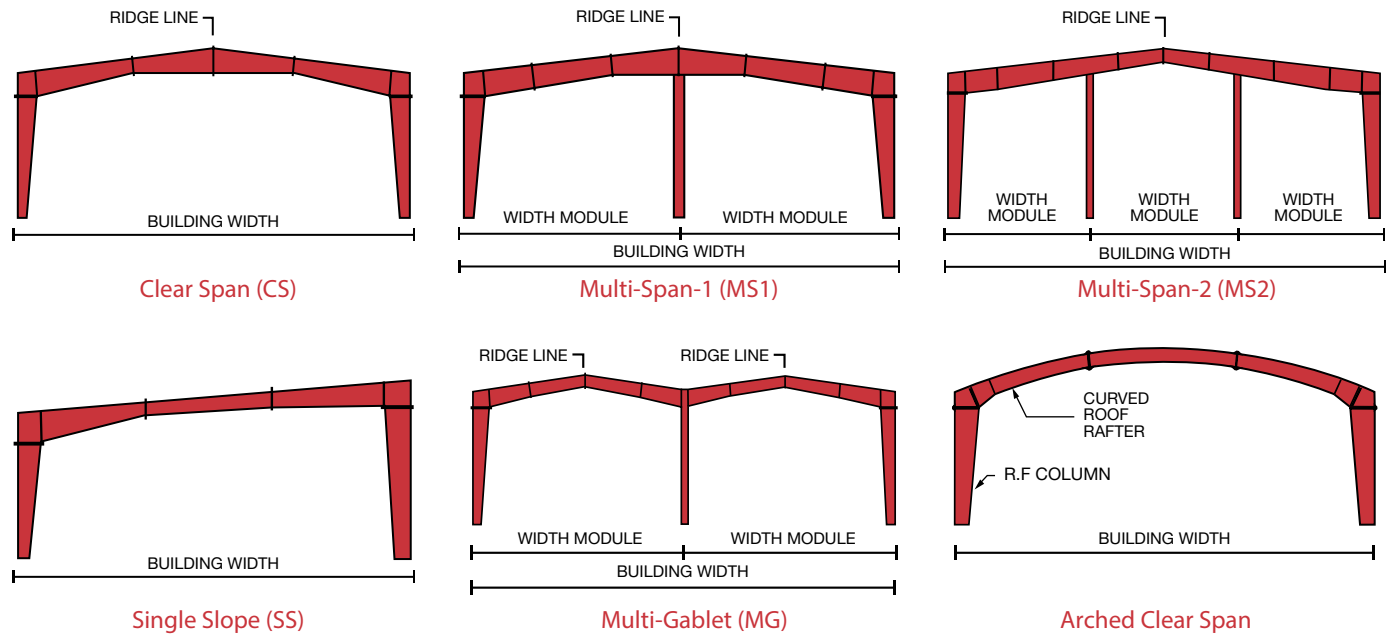
Coastal PEB has the wherewithal to create customized shelter that can fit your budget. Our team is known for its innovation capabilities, and as such, uses specialised software packages to create solutions for even lands that have space constraints. One of the many advantages is - our consultants can minutely analyse all kinds of PEB structure requirements ranging from low to high complexities by giving them the ability to correct oversights and avoid costly mistakes even before the building phase commences.



## Benefits of PEB

The greatest advantage is, PEBs can be set up on site in just 5 to 8 weeks, conventional steel structures can take as much as 8 to 15 weeks. Plus, the unique techniques implemented for fabrication make it 20% lighter than regular steel designs. On top of it all, no welding or fabrication is required at the construction site; resulting in greater speed and efficiency.

## Types of Frames



## Advantages

- Low maintenance
- Very economical
- High quality
- Easy to expand
- Wide spans and high eave heights
- Single source responsibility
- Design and architectural flexibility
- Water and earthquake resistant
- Energy efficient
- Environmentally friendly
- Fast quotation along with proposal renderings
- Quick delivery with express installation

## Product Categories

- Built-up "I" section to make primary structural framing members (columns and rafters)
- Cold-formed "Z" and "C" sections to make secondary structural members (roof purlins, eaves and wall girts)
- Optional sub-systems which includes mezzanine floors, crane runway beams, roof platforms, catwalks, etc.
- Roll formed profiled sheeting (roof and wall panels)

## MEZZANINES

Coastal mezzanine floor for storage is a structural floor offered in single and multi-tier formats. This provides scope to increase available storage space within the existing plant. Single or multi-tier mezzanine floors can be used to extend the area in an existing warehouse. Mezzanine floors are the most price and time efficient solution to enlarge floor space. Coastal offers multiple flooring options to best accommodate the service conditions viz., steel panels, gratings, chequered plate and wooden floor. Coastal mezzanine systems are set up for ultimate strength, stability, and safety with quality material.



## PRE ENGINEERED STEEL BUILDINGS



## CONVENTIONAL STEEL BUILDINGS



## SEED DRYER





## Typical Pre-Engineered Building

Coastal PEB's pre-engineered structures are fabricated from Primary and Secondary Framing Systems.

## Building Primary Framing Systems

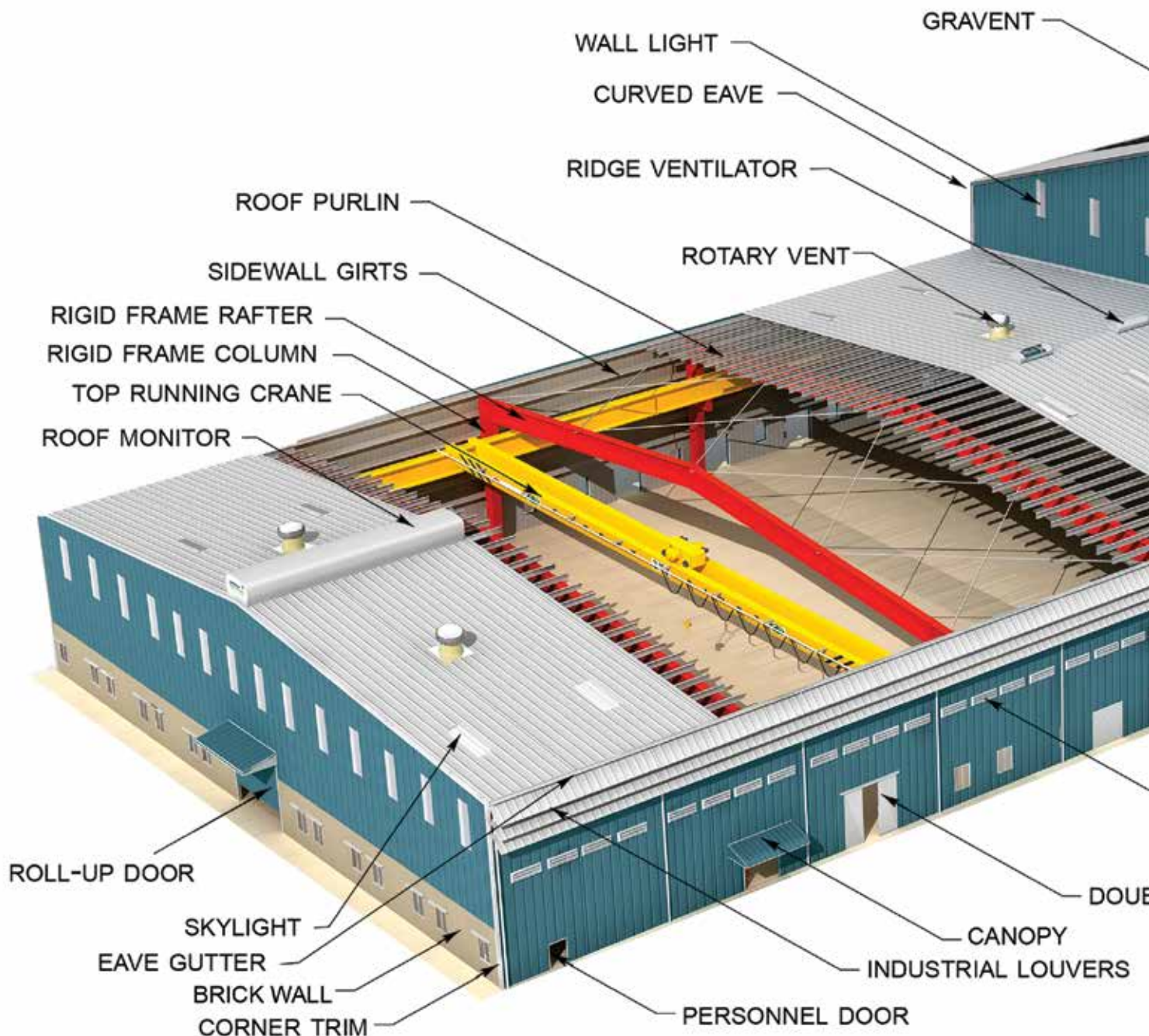
These consist of columns and rafters manufactured using high-strength grade plates that are cut to required size and shape. They comprise:

- Intermediate Frames
- End Wall Frames
- Wind Bracing
- Crane Brackets
- Clear Span
- Beam Column
- Multi Gable
- T-Canopy
- L-Canopy
- Cantilevered Fascia
- Roof Monitor
- Crane Beams and Mezzanines

## Building Secondary Framing Systems

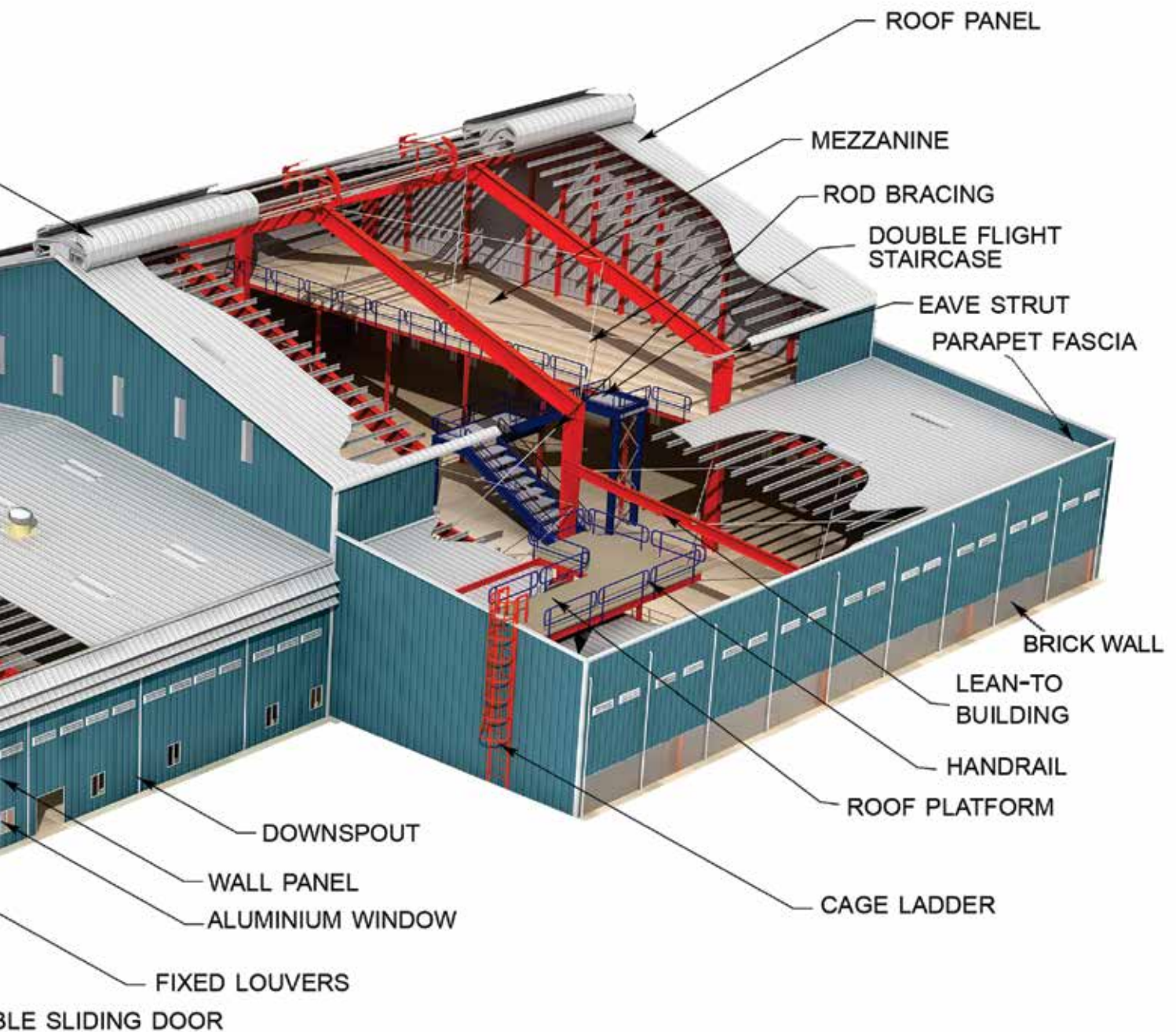
These consist of Purlins, Eave Struts, Side Runners, Fascia Channels, Door Posts, Column Stays and Braced Angles. Cold-formed “Z” and “C” shaped structural members are cold roll formed light gauge, and can be custom made as per requirement. They comprise:

- Roof Purlins, Wall Girts and Eave Struts
- Roof and Wall Cladding Systems
- Roof Insulation and Wall Cladding
- Eaves and Gable Detailing



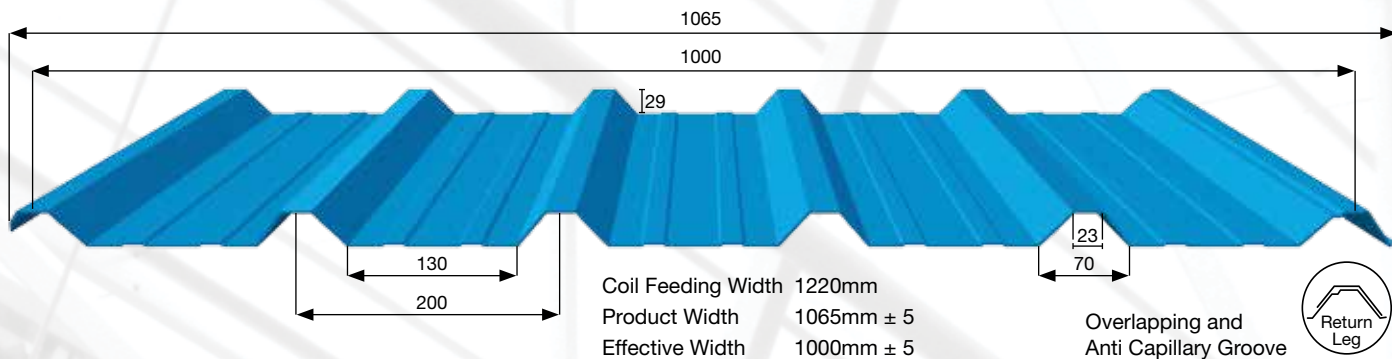
## Applications

- Factories
- Restaurants
- Cold Stores
- Community Centers
- Poultry-Dairy Farms
- Schools
- Sport Halls
- Sugar Mills
- Vehicle Parking Sheds
- Swimming Pool Enclosures
- Workshops
- Labor Camps
- Shopping Malls
- Steel Rolling Mills
- “Almost” any low-rise building
- Auditoriums
- Function Halls
- Cement Plants
- Commercial Showrooms
- Warehouses
- Exhibition halls
- Distribution Centers
- Ceramic Factories





## TRAPEZOIDAL ROOFING PROFILE



## TECHNICAL SPECIFICATIONS

Material & Technical Specifications	Colour Coated Galvalume Sheets, Pre Painted Galvalume Sheets (CCGL/PPGL)	Colour Coated Galvanised Sheets, Pre Painted Galvanised Sheets (CCGI/PPGI)	Alume-Zinc Bare Galvalume Sheet, Non Colour/BGL
Confirm To	IS 277, ASTM A 755	IS 277, ASTM 653	IS 277, ASTM A 792
Base Material	High Tensile CR Steel	High Tensile/Soft CR Steel	High Tensile CR Steel
Tensile Strength	Minimum yield strength 550 Mpa	Minimum yield strength 550Mpa 350 MPa (Optional)	Minimum yield strength 550 MPa
Base Material Thickness (Bmt)	0.30 to 0.80	0.30 to 0.80	0.30 to 0.80
Total Coating Thickness (Tct)	0.47 & 0.50 (Regular) 0.30 upto 0.80 (Optional)	0.47 & 0.50 (Regular) 0.30 upto 0.80 (Optional)	0.40, 0.47 & 0.50 (Regular) 0.30 upto 0.80 (Optional)
Standard Coating Process	55% Aluminium Coating 43.4% Zinc Coating 1.6% Silicon Coating	100% Zinc Coating	55% Aluminium Coating 43.4% Zinc Coating 1.6% Silicon Coating
Coating Thickness	Alume-Zinc 150 GSM	Zinc 120 GSM Zinc 150 GSM (Optional)	Alume-Zinc 150 GSM
Painting Process	Regular Modified Polyester Silicon Modified Polyester (Optional) PVF-2 (Optional)	Regular Modified Polyester Silicon Modified Polyester (Optional) PVF-2 (Optional)	Non colour
Top Painting Thickness	18 to 20 Microns	18 to 20 Microns	Nil
Bottom Painting Thickness	5 to 7 Microns	5 to 7 Microns	Nil
Surface Painting Reflection	Gloss Finish (Regular) Matt Finish (Optional)	Gloss Finish (Regular) Matt Finish (Optional)	Nil
Guard Film	40 Microns (Optional)	40 Microns (Optional)	40 Microns (Optional)

**Note:** For future usage of solar panels fixing on roof, we would suggest 0.60 thick TCT sheet.



STANDARD COLOUR CHART



RAL code colour sheets are also supplied upon customer request based on quantity  
Note: Colours shown above may vary from shades depending upon batch to batch and suppliers.

PAINTING PROCESS



CRIMP CURVED SHEETS



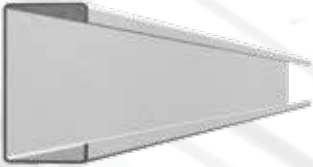
Note: Customer can choose in between two types of crimp designs available.



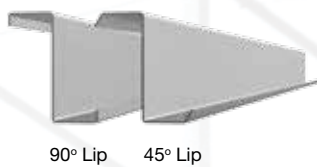
## STRUCTURAL PURLINS

C, Z, U, Sigma and Top Hat Purlins are manufactured on automatic high-end machines separately that are imported. The machine is run by individual gear box systems with 22 stages. This ensures that the desired shape and strength are near to perfect. The required web, flange and lip sizes are acquired by CNC operation and holes are punched automatically by PLC control.

C PURLIN



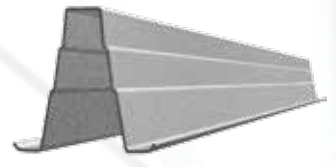
Z PURLIN



SIGMA PURLIN



TOP HAT PURLIN



## TRIMS AND FLASHINGS



Gable trim



Rain Water Gutter



Gable Endlaps - L & R



Corner flashing



Drip trim



Down Spout



Profile Ridge



Plain Ridge



Framed Opening Trim



Valley Gutter

## ACCESSORIES



Cleats



Fish Plates



Sag rods



Anchor bolts



Self Threading Screws

## POLYCARBONATE SKYLIGHTS



## WATER RESISTANCE LOUVERS



## TURBO VENTILATORS





## SPINNING MILLS

4S Spintex India Pvt. Ltd., Jaggayyapet  
Balaramakrishna Spinning Mills Pvt. Ltd., Chowdavaram, Guntur  
Gajavalli Spinners Pvt. Ltd., Guntur  
Jyotirmayi Textiles Pvt. Ltd., Guntur  
Kallam Brothers Cotton Pvt. Ltd., Guntur  
KVS Spinning Mills Pvt. Ltd., Nalgonda  
Lakshmikantha Spinners Pvt. Ltd., Sadasivapet  
Mittapalli Spinners Ltd., Guntur  
Mohan Spintex India Pvt. Ltd., Nuziveedu  
Neospark Pharma Pvt. Ltd., Hyderabad  
NRK Textiles Pvt. Ltd., Guntur  
Ranganayaka Spinning Mills Pvt. Ltd., Guntur  
Spincot India Pvt. Ltd., Guntur  
Sri Anantha Lakshmi Spinning Mills Pvt. Ltd., Guntur  
Sri Lakshmi Godavari Spinning Mills Pvt. Ltd., Guntur  
Sri Lakshmi Narasimha Spinning Mills India Pvt. Ltd., Medarametla  
Sri Nagamalleswari Spintex Pvt. Ltd., Rajupalem, Guntur  
Sri Tirumala Cotton & Oil Products Pvt. Ltd., Ganapavaram  
Sri Venkata Siva Parvathi Spinning Mills Pvt. Ltd, Guntur  
Sri Venkata Uma Sankara Spintex Pvt. Ltd., Guntur  
SSV Spinners Pvt. Ltd., Mahaboobnagar  
Supriya Spinning Mills Pvt. Ltd., Guntur  
Tarunsree Spinning Mills Pvt. Ltd., Rayagada, Odissa  
Vasantha Industries Ltd., Guntur  
Vasundhara Cotton Mills Pvt. Ltd., Guntur  
Viswateja Spinning Mills Pvt. Ltd., Guntur  
Yindu Textiles Pvt. Ltd., Jaggayyapet  
Pavan Cotton Products Pvt. Ltd., Guntur

## TMC UNITS

Amaravathi Cottons, Madhira, Khammam Dt.  
Andhra Ginning, Guntur  
Chaitanya Cotton Enterprises, Chilakaluripet  
Heena Industries Ginning & Pressing Mill, Aseefabad  
Kamakshi Cotton Industries, Inkollu  
Lakshmi Mohana Cotton Industries, Prattipadu  
Maruthi Cotton Pvt. Ltd. Rajam, Srikakulam  
Om Sai Cotton Industries, Nalgonda  
Padmavathi Cotton Industries, Nalgonda  
Srinidhi Cotton Industries, Prattipadu  
SSV Ginners Pvt. Ltd, Mahaboobnagar  
Tirumala Cotton Ginning & Pressing Mills, Nalgonda  
Vamsi Krishna Cotton Mills, Guntur  
Vasundhara Cotton Industries, Piduguralla  
Venkateswara Cotton Industries, Nalgonda

## AQUA PROCESSING UNITS

Kalyan Aqua Marine Exports India Pvt. Ltd., Ongole  
Neeli Aqua Pvt. Ltd., Ongole  
Rani Aqua Feeds Pvt. Ltd., Pamarru, Krishna Dt.  
Sandhya Aqua Exports Pvt. Ltd., Pamarru, Krishna Dt.

## SEED DRYERS

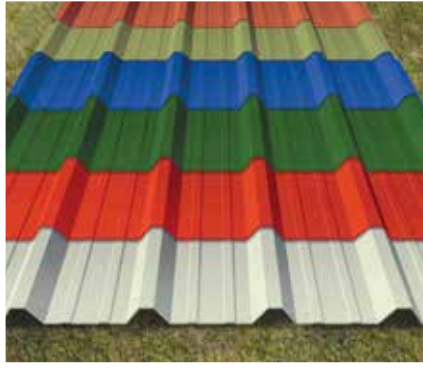
Bharathi Seeds Pvt. Ltd., Hyderabad & Nandyala  
KMR Seeds Pvt. Ltd., Eluru  
Prasad Seeds Pvt. Ltd., Hyderabad & Eluru



## OUR OTHER PRODUCTS



General Engineering



Roofing



Tiled Roofing



Pre Engineered Building



**Coastal PEB Solutions Pvt. Ltd.**  
Plot No. 31 & 32, Block No. 24,  
Phase 3 & 4, Autonagar,  
Besides Lorry Stand,  
Guntur - 522 001. Andhra Pradesh

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