



**PIONEER**  
E N G I T E C H  
Pre Engineered Steel Building

*.... Building Imagination*



**Pioneer Steel Structures** Is Leading Iso 9001 : 2008 Certified Manufacturing Company Of Pre Engineered Building. We Have Wide Experience Of This Field And Have Most Modern Manufacturing Facilities And Space To Handle Any Amount Of Work. Pioneer Prefabricated Steel Buildings Are Designed To Suit The Demands Of Customers. They Provide Speed In Delivery And Erection, Flexibility In Expansion And With Stand Severest Weather Conditions.

We Strive To Provide One Stop Solution For All Building Requirements. To Do Our Product Range Includes Mezzanine Floors, Canopies, Portable Cabins, Stairs, Window, And Doors Etc. We Have Been In This Fields For More Than 25 Years And Have Gained Confidence To Meet Any Sophisticated Jobs.

**Pioneer Steel Buildings** Are Available In Large Spans, Multi Spans, Lean To Roof At All Required Heights And Side Cladding. Pioneer Can Also Provide Insulation And Variety Of Accessories Such As Skylights, Roof Vents, Louvers, Turboventilator.

### **Our Mission**

**To** Provide High Quality Products That Combine Quality With Value Pricing, While Establishing A Successful And Amicable Relationship with Our Customers And Our Suppliers.

**To** Constantly Strive To Exceed Our Customer Needs And Expectation Of Price, Service, And Selection. To This End, We Will Perform Periodic Reviews Of The Marketplace And Continuously Improve Our Technology.

**To** Stay Ahead Of The Competition By Innovating And Engineering New Products And Services Based On The Of Our Customers And Market Demand.

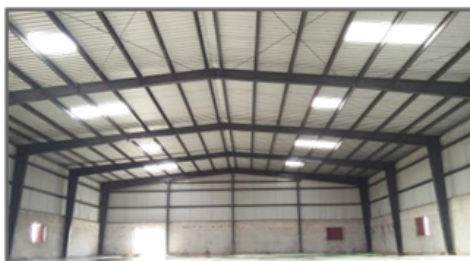
**To** Provide Total Employees Satisfaction By Supporting And Rewarding New Innovating Ideas, Honesty And integrity.

### **Features**

1) No Welding Is Required At Site (2) These Sheds Can Be Resold (3) Dispensable And Relocatable (4) Aesthetically Superior And Most Economical (5) Time Saving In Completion Of Projects.

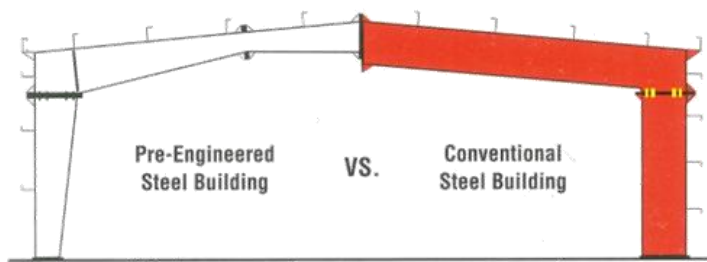
### **Applications**

Factory Sheds, Warehouses, Thermal Power Projects, Air Craft Hangers, Vehicle Stands, Community Halls, Canopies Green Houses, Cold Storage, Site Offices Etc.





## Why Pioneer Pre - Engineered Building Structure ?



- ▶ **Responsibility** : Single Source Responsibility From Inception To Completion.
- ▶ **Foundations** : Simple Design Light Weight With Flexible Structure & Easy To Construct With Large Space Utility.
- ▶ **Sourcing & Coordination** : Building Structure Supplied With Complete Cladding & All Accessories From Single Source.
- ▶ **Design** : Quick & Efficient Design Through Cad Programmes.]
- ▶ **Delivery** : Shortest Delivery Period On An Average Of 6-8 Weeks.
- ▶ **Seismic Disturbance** : Suitable for Various Weather Conditions & High Resistance To Seismic Disturbance.
- ▶ **Erection Cost & Time** : Fast Erection Process With Minimum Requirement & Predetermined Calculative Time & Cost.
- ▶ **Price Structure** : Per Square Meter Prices Are 30 % Less Than The Conventional Structure.
- ▶ **Maintenance** : Low Maintenance Cost Requires Only Periodic Cleaning & Annual Washing Of Eave Gutters.



## Applications

### INDUSTRIAL

Factories  
Workshops  
Warehouses  
Cold Stores  
Car Parking Sheds  
Bulk Product Storage  
Process Plant

### COMMERCIAL

Showrooms  
Distribution Centres  
Supermarkets  
Offices  
Toll Plaza  
Labour Camps  
Shopping Centres

### INSTITUTIONAL

Schools  
Exhibition Halls  
Hospitals  
Theaters / Auditoriums  
Sports Halls

### AGRICULTURAL

Dairy Farms  
Green Houses  
Grain Storage  
Cold Storage



## Advantages Of PEB

### HIGH STRENGTH STEEL

Use of high strength steel plates for fabrication of primary members i.e. Columns, beams, etc. Making the structure light and economical.

### SINGLE SOURCE RESPONSIBILITY

Single source responsibility from inception to completion covering design, engineering, detailing, fabrication, supply and erection coupled with fastest delivery time and easy installation.

### FUTURE EXPANSION

Quality and innovation assured with provision for easy future expansion, flexibility in design to accommodate utility.

### COLUMN FREE BUILDINGS

Column free buildings with longer space, which are re-locatable & re-workable.

### FOUNDATION REQUIREMENTS

The foundation requirements of pre engineered steel buildings are fewer and lighter. This is due to wider clear span capability of main frames, longer economic bay lengths. And lower weight of the overall pre engineered buildings steel structure. Modular Construction (both the length and the width can be increased incrementally)

### LARGE UNOBSTRUCTED SPACE UTILITY

- ▶ Clear span up to 80 mtr.
- ▶ Bay lengths up to 10 mtr.
- ▶ Eave heights up to 30 mtr.

# Pre-Engineered Building Primary System

## Primary Built Up Members Mainly Consists Of :

- ▶ Built-up "I" shaped primary structural framing members
- ▶ Columns
- ▶ Rafters

These members are fabricated from high strength grade plates, which are cut to size and shape as per the specifications, which are used in making built up sections.

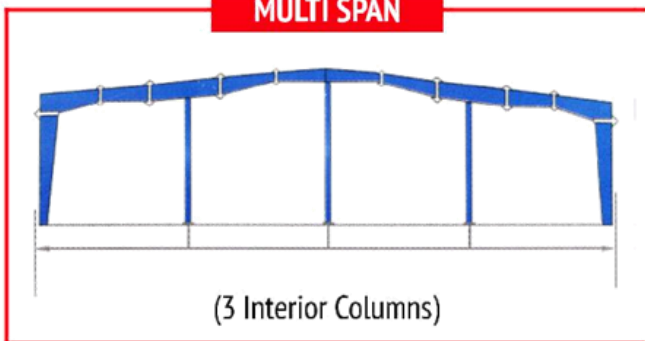


Typical Rafter



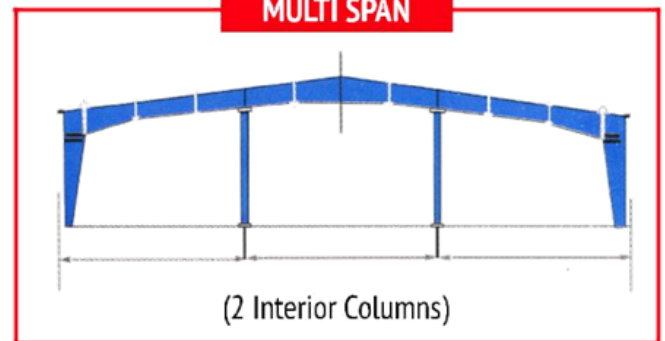
Typical Column

### MULTI SPAN



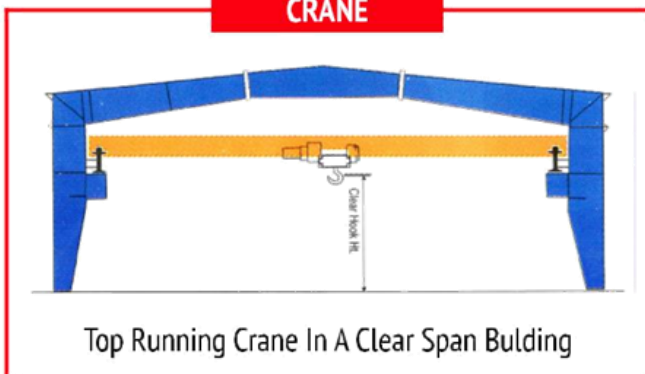
(3 Interior Columns)

### MULTI SPAN



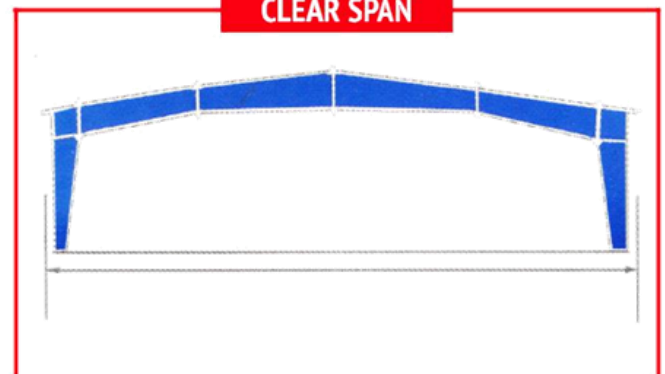
(2 Interior Columns)

### CRANE

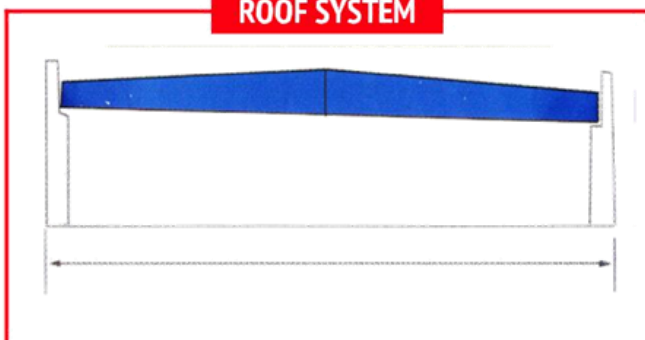


Top Running Crane In A Clear Span Bulding

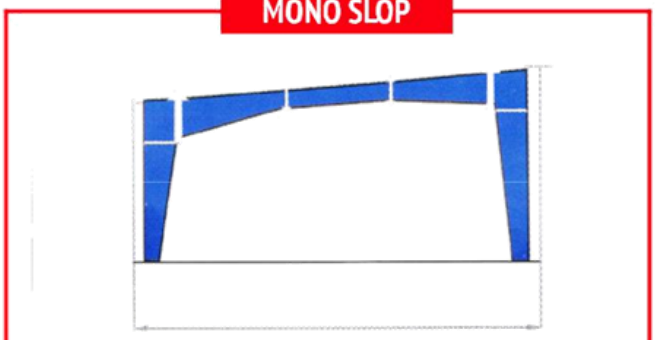
### CLEAR SPAN



### ROOF SYSTEM



### MONO SLOP

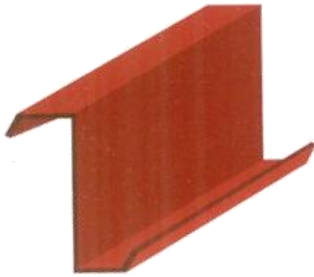




# Pre-Engineered Building Secondary System

## ▶ Secondary Built-up Members Mainly Include

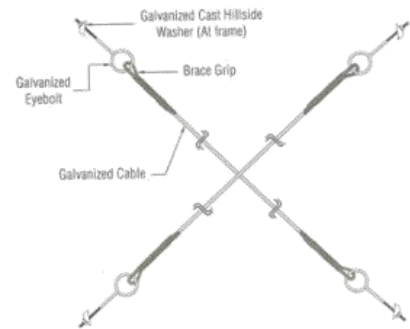
Purlins - Eave struts - Side Runners - Fascia Channels - Door Posts - Window Posts - Rafter Stays - Column Stays - Base Angles Cold-formed "z" And "c" Shaped Secondary Structural Member Are Cold Roll Formed Light Gauge, Which Are Made As Per The Design Requirement And Consists Of; Roof Purlin - Eave Struts - Wall Girts.



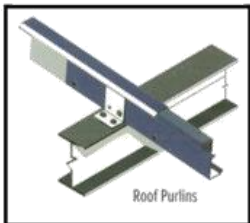
Typical "Z" Section



Typical "C" Section

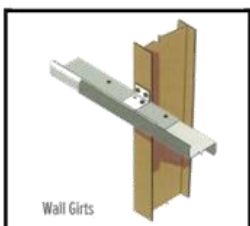


Bracing Systems



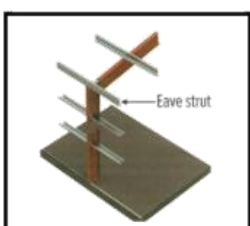
### Roof Purlins

Purlins Are Pre Punched Cold Formed "z" Shaped Section, 150, 200 Or 250 Mm In Depth With Stiffened Flanges, The Bottom Flanges Of Roof Purlins Are Attached To The Outer (top) Flanges Of The Rafters. Purlins Are Lapped At All Interior Frames In All Structural Systems.



### WALL GIRTS

Wall Girts Are Cold Formed From Hot Rolled Steel Coils Ranging In Thickness From 1.5 Mm To 3.0 Mm For "z" Shapes and In 2.0 Mm And 2.5 Mm For "c" Shapes (lipped Channels) For Clear Span (cs) And Multi Span (ms) Building, The Sidewall Girts Are Attached to The Outer Flanges Of Exterior Columns. Sidewall Girts Are Lapped At All Interior Frames.



### Eave Struts

Eave Struts are Pre Punched Cold Formed "c" Shaped Sections, 180 Mm In Depth With 85 Mm Stiffened Flanges. The Eave Strut Serves As Longitudinal Structural Bracing Member In Addition To Acting As Transition Point For Walls And Roof Sheeting.

## Profile Sheet :

Pioneer profile sheet is made from the finest quality cold rolled steel coils which are coated with protected metallic and reinforced with multiple layers of organic coatings.

Pioneer profile sheet can be readily roll-formed, bent, pressed, cut, drilled, lock-seamed and stamped to suit the specific requirement without degradation in the quality of the paint.

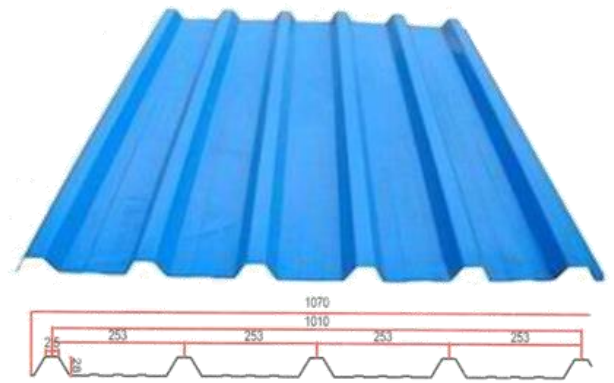
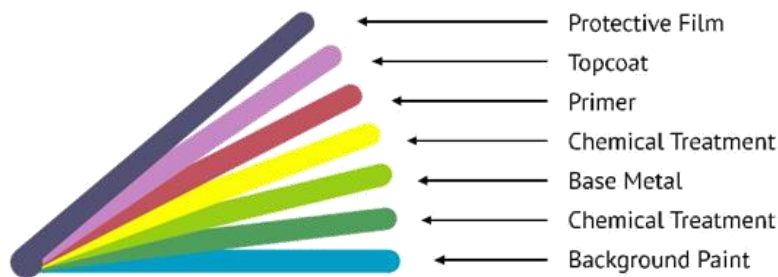
### Applications

- Industrial Roofing
- Cladding
- Farm House
- Ware House

### Advantages

- Weather Proof & Light Weight
- Maintenance Free And Long Life
- Easy To Install & Beautiful
- Various Colour Features

### Structure Of Profile Sheet :



## Galvalume Sheeting :

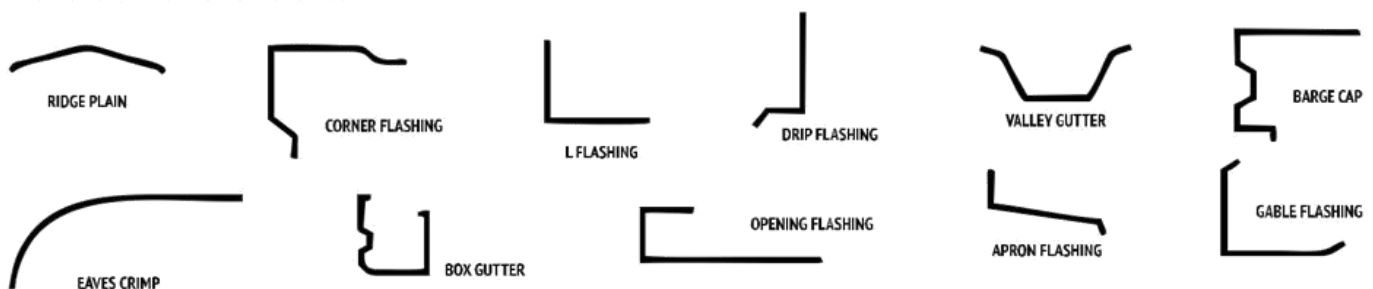
### Bare Galvalume

- Colour** : Natural Silver
- Coating** : AZ 150, 55% Al, 43% Zn, 1.6% Si
- Base Material** : ASTMA792M Grade 345 Class I (Max. 550 MPA YS)
- Colour Coating** : None

### Pre-Painted (PPGL)

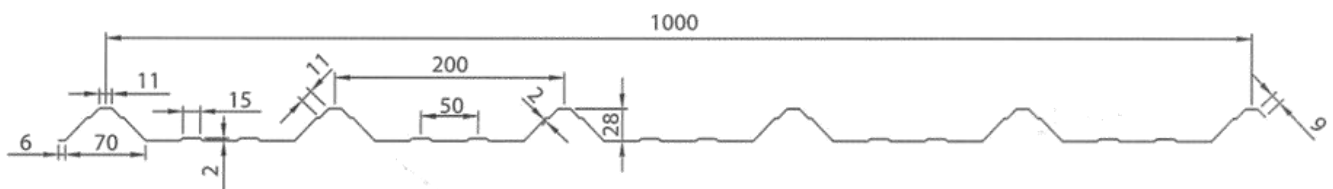
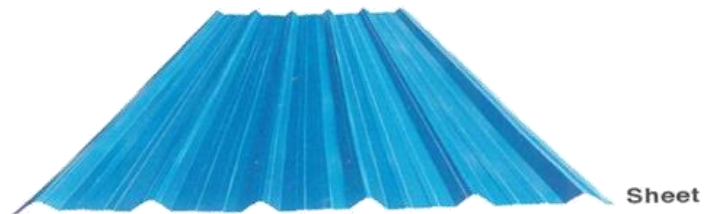
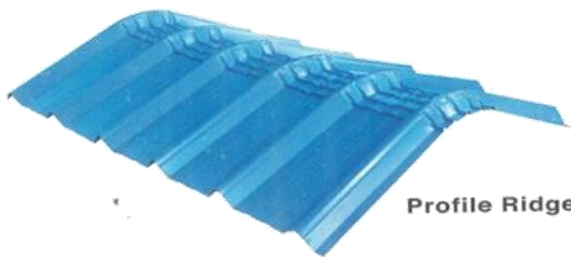
- Colour** : Any RAL Colour
- Coating** : AZ 150, 55% Al, 43% Zn, 1.6% Si
- Base Material** : ASTMA792M Grade 345 Class I (Max. 550 MPA YS)
- Colour Coating** : T/C 18-20 micron  
RMP / SDP over 5 micron epoxy primer

## ROOFING ACCESSORIES :



## Pre-Engineered Building Primary System

- ▶ The Sheets And Panels Provided By Us Are Of Galvanised / Galume Aluminium / Stainless Steel, Cold Rolled Low Carbon Steel Coils. They Are Of Two Coat Two Bake Colour Coating Line Of RMP / SDP / UP / SMP / PVDF / Plastisol paint, solvent & water base PU & Polyester guard film.



### ▶ These Basically Consists Of

Metal Roofing / Wall Cladding, Connection Fasteners, Sky Light (Sky Light & Poly Carbonate) Turbo Ventilator, Ridge Ventilator, Roof Curbs, Gutter, Window, Door



Turkish Blue



Taurus Blue



Ral 5012



Brick Red



Terracota



Environment Green



Grey



Light Grey



## Why Pioneer PEB ?

Advantages of choosing  
Pioneer for your project



### Early & Fast

#### Occupation Of Premises

Early Return On Investment  
Higher Profitability



### Consistent Quality

Proven Technology  
Reliable Solution



### Complete Solution

Single Source Responsibility  
Global Capability



### Complete Safety

Minimal Risk Of  
Lost Time Injuries  
Complete Peace Of Mind  
For **Pioneer** Customers



### Lower Life-cycle Cost

Lower Maintenance  
Cost Greater Life - Cycle  
Cost Savings



### Advanced Technology

Latest Technology Utilised  
Global Knowledge Applied



### High Productivity

Leak - Proof  
Roof System



# SOME PHOTOS OF OUR WORK









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