

# ROYAL ROOFING SYSTEM

"Royal Roofing System by Dibishree Engineering & Fabrication" is one of the fast developing companies in the field of ROOFING SOLUTION. We are distinguished manufacturers of many different types of Roofing Sheets that adhere to highest industrial standards for quality. Our roofing sheets are offered in multiple models and sizes. The range includes Poly Carbonate corrugated roofing sheets, which are simple to install as compared to other conventional sheets.

## Royal Roofing System's Roofing Sheet :-

Our offered sheets are widely appreciated in the Corporate World for their excellent durability and superior finishing, owing to their procurement being done from acclaimed vendor. These sheets are manufactured at our vendors end with the effective utilisation of top notch quality raw material and modern technology. Furthermore, we intend to supply these products to our customers at nominal price tags.

### Features:

- High robustness
- Superb quality
- High tensile strength



### **TECHNICAL SPECIFICATION**

Covered Width	1000mm
Supply Width	1090mm
Pitch	253mm
Crest Height	30 + 2mm
Crest Weight	26 mm
Lip	10 mm

**Description of Sheeting Profile**  
Roof and Wall Panel - 1000mm Cover Width,  
28mm Crest Depth at 255mm c/c (2 Angular Ribs at Center of each crest ),  
The Sheets Will Be Available in 240,340,550 Mpa Yield Strength  
With Different Thickness on request.

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Sr. No	Material	Yield Strength	Total Coated Thickness
1	Color Coated Galvanized Iron (CCG/PPGI)	240/340/550 Mps	0.40 - 0.47 - 0.50mm
2	Bare Galvalume	550 Mps	0.40 - 0.47 - 0.50mm
3	Color Coated Galvalume	550 Mps	0.40 - 0.47 - 0.50mm

## ROYAL ROOFING SYSTEM

### **ADVANTAGES & FEATURES OF PRE ENGINEERED STEEL BUILDING (PEB)**

There are many advantages of Pre-engineered building systems, but all advantages lead to reduced construction time. Following are advantages of Pre-Engineered Building Systems:

#### **REDUCED CONSTRUCTION TIME**

Due to the systems approach, the use of high strength steel, use of tapered built-up sections which are optimised by the computerised design program and the use of continuous light gage secondary steel section, there is an overall reduction in steel weight, cost and time relative to conventional steel construction. Pre-engineered buildings are a predetermined inventory of raw materials that has proven over time to satisfy a wide range of structural and aesthetic requirements. The components are engineered beforehand and standardised. Use of these standard components reduces the engineering, production and erection time. Use of customized software for design & drafting increases the speed of the project.

The production line is highly Qualified and Technically sound Fitter, Welder & Engineer. Roll forming machines for roofing sheets, is for made sizes as per design that is for standard dimension, increases the



production capacity of secondary members. Use of standard accessories greatly increases the speed of production & erection. Buildings are typically delivered in just a few weeks after approval of drawings. Foundation and Anchor Bolts are cast in parallel with manufacture of the building. Site assembly is fast, as all building components are delivered finished, ready for site bolting. It can reduce total construction time on a project by up to 50%. This will allow faster occupancy and earlier realisation of revenue.

### **DESIGN**

Since PEB's are mainly formed of standard sections and connections, the design time is significantly reduced. Specialised computer analysis and design programs optimise material require. Drafting also computerised using standard details that minimises project custom details. The low-weight flexible frames offer higher resistance to seismic forces.

### **LOWER COST**

Due to the systems approach, there is a significant saving in design, manufacturing and site erection cost. The structural elements are shaped to follow the stress diagram of the member, thus reducing weight, cost and load to foundations. The secondary members and cladding nest together reducing transportation cost. The overall price per square meter may be reduced as much as 30% lower than conventional steel.

### **FOUNDATIONS**

Pre - engineered Buildings are about 30% lighter than the conventional steel structures. Hence, the foundations are of simple design, easy to construct and lighter weights.

### **ERECTION**

Since all the connections of the different components are standard, the erection time is faster.

### **FLEXIBILITY OF EXPANSION**

Buildings can be easily expanded in length by adding additional bays. Also, expansion in width and height is possible by pre-designing for future expansion.

### **LARGE CLEAR SPANS**

Buildings can be supplied to around 90M clear spans.

### **QUALITY CONTROL**

As buildings are manufactured completely in the factory under controlled conditions, the quality is assured.

### **LOW MAINTENANCE**

Buildings are supplied with high quality paint systems for steel to suit ambient conditions at site, which results in long durability and low maintenance costs.

### **ENERGY EFFICIENT ROOF AND WALL SYSTEMS**

Buildings can be supplied with coated sheet insulation to achieve required 'U' values.

### **SINGLE SOURCE RESPONSIBILITY**

As the complete building package is supplied by a single vendor compatibility of all the building components and accessories is assured. This is one of the major benefits of the pre-engineered building systems.

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## Some Designs of PEB



Normal Structure



Mezzanine & Particle Structure



EOT Crane Structure

In structural engineering, a pre-engineered building (PEB) is designed by a PEB supplier or PEB manufacturer, to be fabricated using 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. Within some geographic industry sectors these buildings are also called Pre-Engineered Metal Buildings (PEMB) or, as is becoming increasingly common due to the reduced amount of pre-engineering involved in custom computer-aided designs, simply Engineered Metal Buildings (EMB).

Historically, 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. Some manufacturers taper the framing members (varying in web depth) according to the local loading effects. Larger plate dimensions are used in areas of higher load effects.

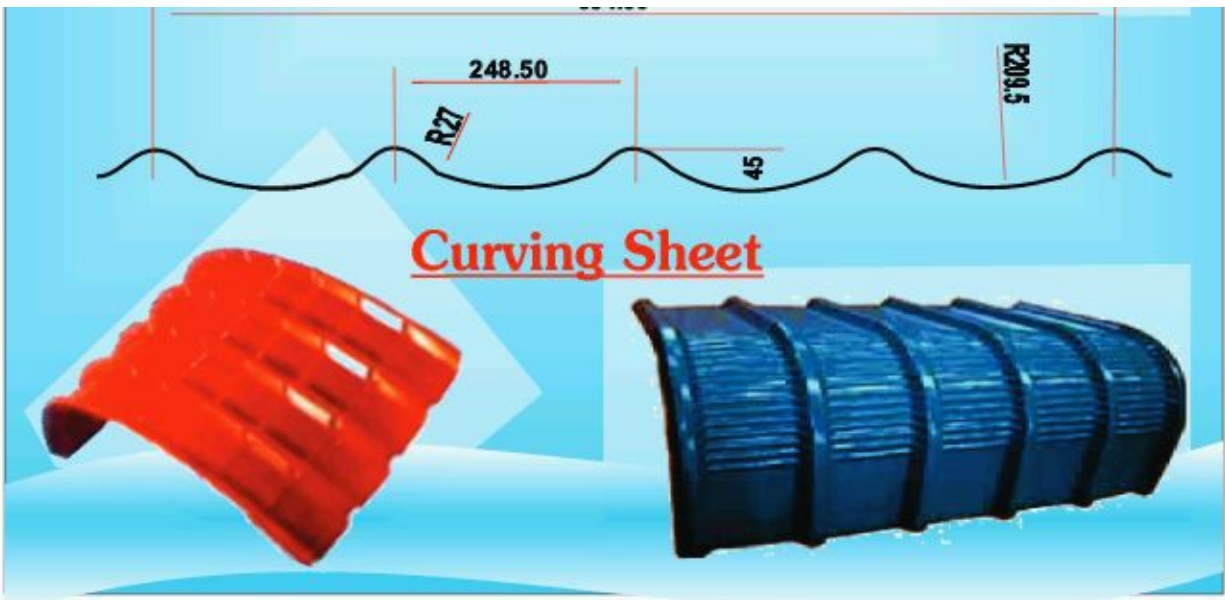
Other forms of primary framing can include trusses, mill sections rather than three-plate welded, castellated beams, etc. The choice of economic form can vary depending on factors such as local capabilities (e.g. manufacturing, transportation, construction) and variations in material vs. labor costs.

## WAVE TILE SHEET



994.00





## **ROYAL ROOFING SYSTEM**

### **Benefits / Key Features :**

Replaces Fiber Bat & Building Blanket In Most Application & Helps Achieve Minimum 5 to 7 Degree cooler Inside. \* To resist Moisture & Reduce Condensation & it Prevents the conflict of temperature Level Difference. \* Thermalon Insulated Metal Sheet Prevents rain Impact & other Sound at 50 decible. \* The Stable Heat Performance Even in high humidity environments \* Enhanced Corrosion Protection \* It is no toxic & environment friendly \* Reduces the Electricity consumption especially In Cold Storage & Many More Storage area \* it gives aesthetic look to quality

for Industrial & Commercial Building \* Very low maintenance & Excellent Durability

Al - ZN ALLOY COATED STEEL	
Combination Coating	55% Al 43.4% ZN & 1.6% Silicon
Material	As 1937 1993
Coating Mass	Bare Galvalume
Base Metal	ASTM A 792m
Tensile Strength	AZ 150
Total Coated Thickness	High Tensile Steel
Tolerance	550 Mpa
	0.47 mm - 0.50 mm
	As per AS/NZS 1397

AL - ZN ALLOY COATED STEEL	
Substrate	IS : 513 Cold Rolled Steel coils
Tensile Strength	240 Mpa
Galvanizing	IS : 27
Zinc Coating	ZN 120 gm (both side mass)
Pre - Painting	IS : 14246
Type of Coating	RMP / SMP
	47 mm - 0.50 mm
Tolerance	As per IS: 513

☐ Polycarbonate Embossed Sheet

☐ Polycarbonate Compact Clear Sheet

Thickness Available : 2MM, 3MM, 4MM

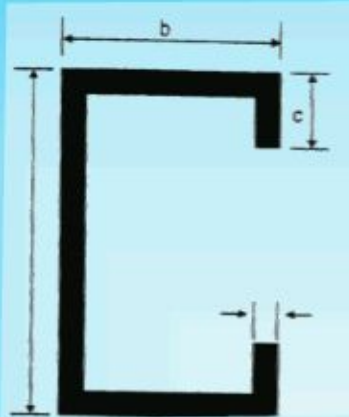


**0% Electricity, 100% Light**

- ☐ 100% Protection against harmful U.V. Radiation.
- ☐ Conforms to International fire Standards.
- ☐ Perfectly Matches Gee Aar Power Roofing & Cladding Profiles

# ROYAL ROOFING SYSTEM

## C - Section Sheet Section Size (MM)



Model	H	B	C	t
C 80	80	40-80	10-20	2.0-2.5
C 100	100	40-80	10-20	2.0-2.5
C 100	100	40-80	10-20	2.0-2.5
C 120	120	40-80	10-20	2.0-2.5
C 120	120	40-80	10-20	2.0-2.5
C 140	140	40-80	10-20	2.0-2.5
C 140	140	40-80	10-20	2.0-2.5
C 140	160	40-80	10-20	2.0-2.5
C 160	160	40-80	10-20	2.0-2.5
C 160	180	40-80	10-20	2.0-2.5
C 180	180	40-80	10-20	2.0-2.5
C 180	200	40-80	10-20	2.0-2.5
C 200	200	40-80	10-20	2.0-2.5
C 200	220	40-80	10-20	2.0-2.5
C 220	220	40-80	10-20	2.0-2.5
C 220	240	40-80	10-20	2.0-2.5
C 240	240	40-80	10-20	2.0-2.5
C 240	260	40-80	10-20	2.0-2.5
C 240	260	40-80	10-20	2.0-2.5
C 260	280	40-80	10-20	2.0-2.5
C 260	280	40-80	10-20	2.0-2.5
C 280	300	40-80	10-20	2.0-2.5
C 300	300	40-80	10-20	2.0-2.5