

ROYAL ROOFING SYSTEM



ONE STOP SOLUTION OF

- PRE ENGINEERING BUILDING
- ROOFING SOLUTION
- GI 'C' CHANAL
- Z - SECTION PURLIN
- POLY CARBONATE / F.R.P. SHEET
- STANDARD ACCESSORIES FOR PEB

DIBISHREE ENGINEERING & FABRICATION

COMMITTED NAME FOR SERVE THE BEST

Visit us at: www.dibishreeengineering.com
Customer Care No :- 0260 2780300

ROYAL ROOFING SYSTEM

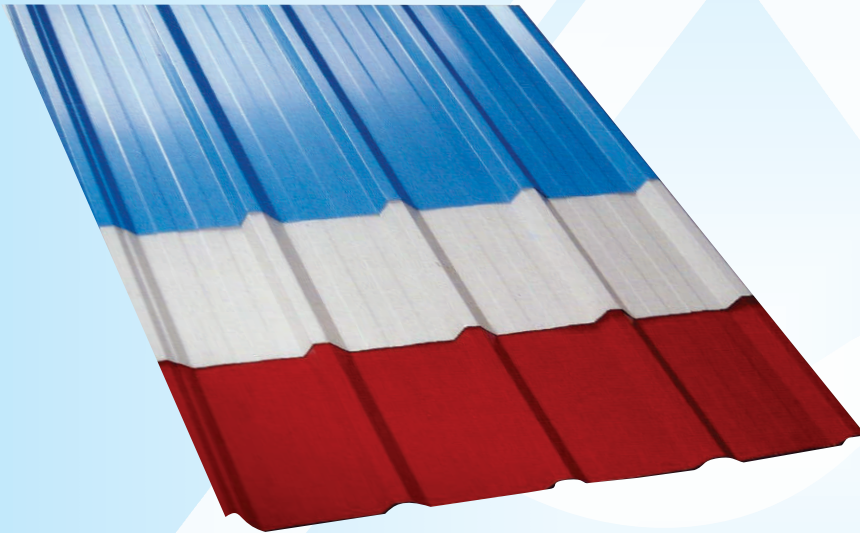
“Royal Roofing System by Dibishree Engineering & Fabrication” is one of the fast developing companies in the field of ROOFING SOLUTION. We are distinguished manufacturers of many different types of Roofing Sheets that adhere to highest industrial standards for quality. Our roofing sheets are offered 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.

Sr. No	Material	Yield Strength	Total Coated Thickness
1	Color Coated Galvanized Iron (CCGI/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

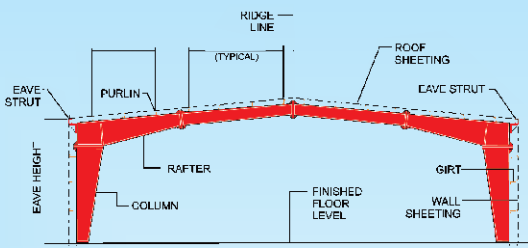
Buildings can be supplied with coated sheet insulation to achieve required 'U' values.

SINGLE SOURCE RESPONSIBILITY

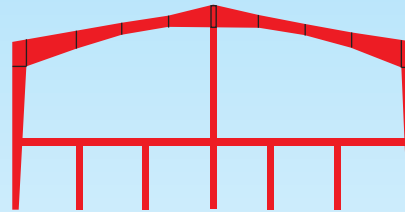
As the complete building package is supplied by a single vendor compatibility of all the building components and accessories is assured. This is one of the major benefits of the pre-engineered building systems.

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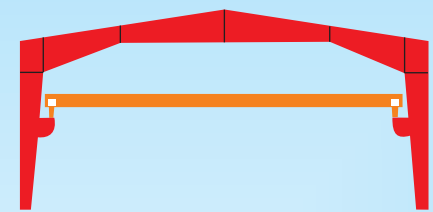
Some Designs of PEB



Normal Structure



Mezzanine & Particle Structure



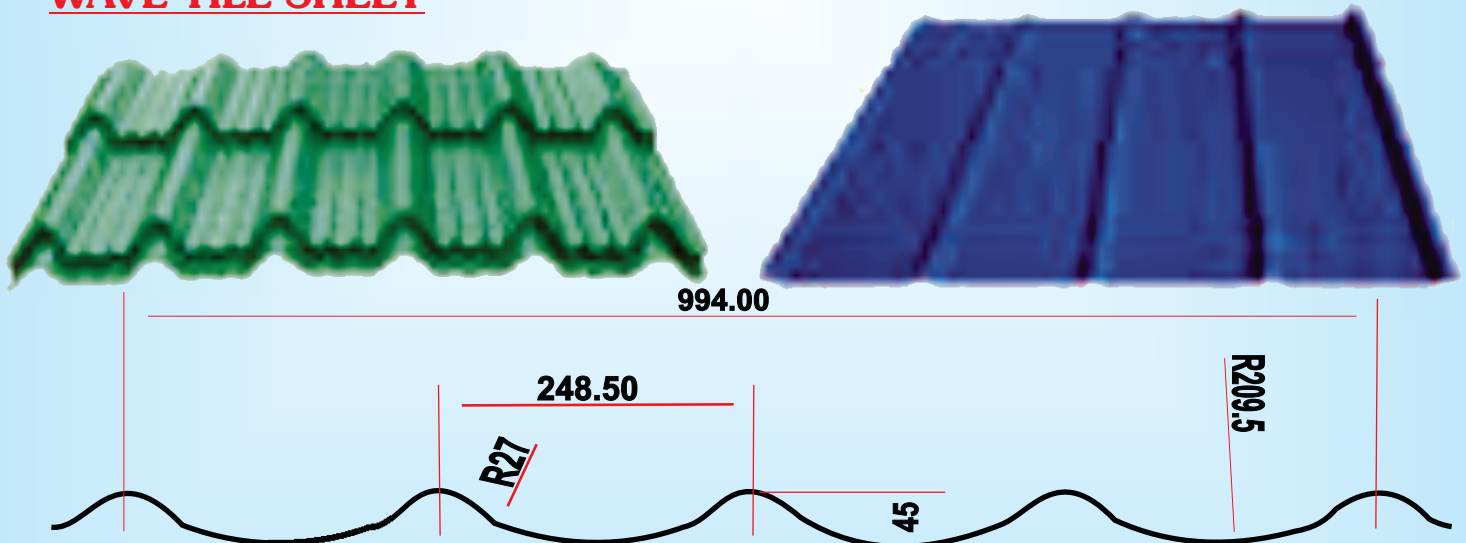
EOT Crane Structure

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).

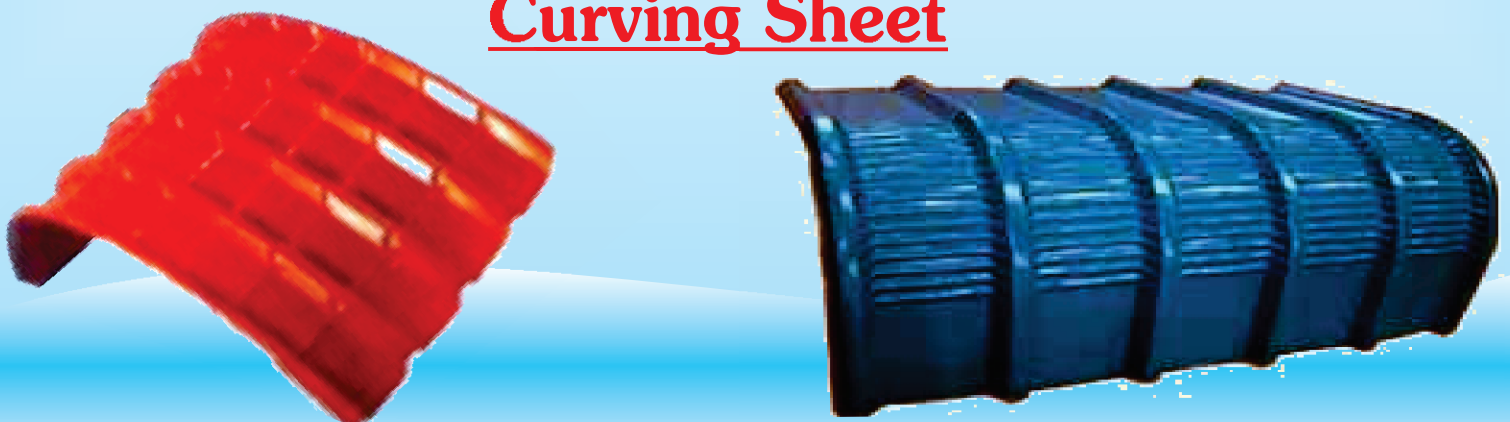
Historically, the primary framing structure of a pre-engineered building is an assembly of I-shaped members, often referred to as I-beams. In pre-engineered buildings, the I beams used are usually formed by welding together steel plates to form the I section. The I beams are then field-assembled (e.g. 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



Curving Sheet



ROYAL ROOFING SYSTEM

Benefits / Key Feathers :

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
Tensil Strengthy	240 Mps
Galvanizing	IS :27
Zing Coating	ZN 120 gsm (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

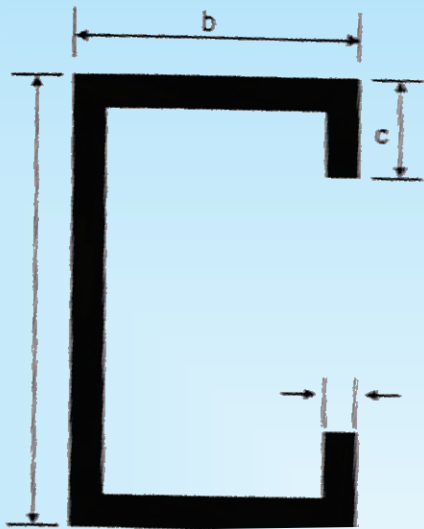


0% Electricity, 100% Light

- ☒ 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)



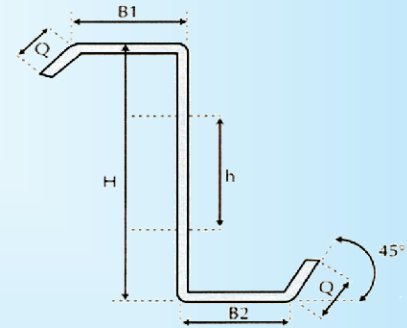
Model	H	B	C	t
C 80	80	40-80	10-20	2.0-2.5
C 100	100	40-80	10-20	2.0-2.5
C 100	100	40-80	10-20	2.0-2.5
C 120	120	40-80	10-20	2.0-2.5
C 120	120	40-80	10-20	2.0-2.5
C 140	140	40-80	10-20	2.0-2.5
C 140	140	40-80	10-20	2.0-2.5
C 160	160	40-80	10-20	2.0-2.5
C 160	160	40-80	10-20	2.0-2.5
C 180	180	40-80	10-20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

Z - Section Purlin

Physical Properties

Section	H mm	B mm	Q mm	t mm	Weight Kg/m	Are mm ²	Ixx cm	Iyy cm	Zxx cm ³	Zyy cm ³
200Z15	200	60	15	1.5	4.10	520.50	318.59	24.33	31.86	5.52
200Z17	200	60	17	1.7	4.68	596.02	365.87	28.69	36.59	6.69
200Z20	200	60	20	2.0	5.59	712.00	438.41	35.63	43.84	8.34
200Z25	200	60	25	2.5	7.14	912.50	563.04	48.13	56.30	11.63
250Z20	250	60	20	2.0	6.38	812.00	741.49	37.91	59.32	8.48
250Z25	250	60	25	2.5	8.13	1037.50	953.14	51.36	76.25	11.81
300Z20	300	80	20	2.0	7.79	992.00	1327.08	79.39	88.47	13.21
300Z25	300	80	25	2.5	9.89	1262.50	1699.50	106.77	113.30	18.16

Yield Stress Of Material = 2400 Kg/Cm²
Young's Modulus = 200 Gpa

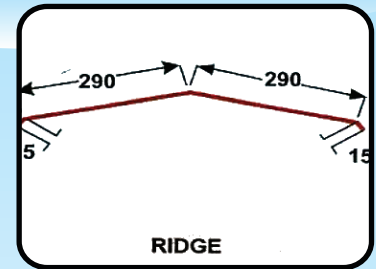


Section Capacities

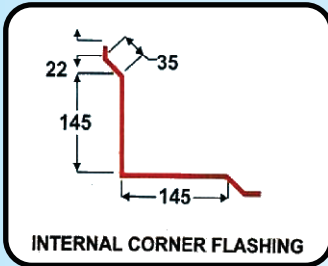
Section	General Data					Allowable Shear Force kN	Allowable Bending Moment	
	Weight kg/m	Thickness mm	Area cm ²	Eff. Area cm ²	H/t		Ma kN.m	Ma2 kN.m
200C15	4.10	1.5	5.21	5.12	133.33	14.05	4.51	4.20
200C17	4.68	1.7	5.96	5.96	117.65	18.05	5.27	4.90
200C20	5.59	2.0	7.12	7.12	100.00	24.98	6.31	5.88
200C25	7.14	2.5	9.13	9.13	80.00	39.04	8.11	7.55
250C20	6.38	2.0	8.12	8.12	125.00	24.98	8.54	7.95
250C25	8.13	2.5	10.38	10.38	100.00	39.04	10.98	10.22
300C20	7.79	2.0	9.92	9.82	150.00	24.98	12.52	11.66
300C25	9.89	2.5	12.63	12.63	120.00	39.04	16.32	15.19

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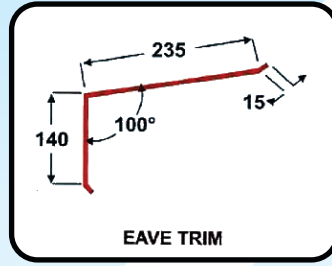
Standard Accessories



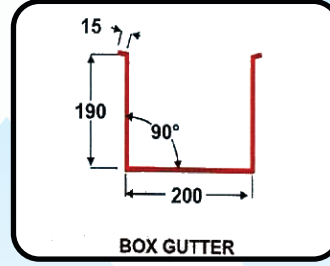
RIDGE



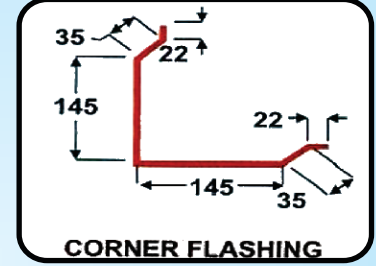
INTERNAL CORNER FLASHING



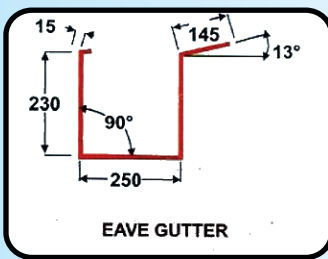
EAVE TRIM



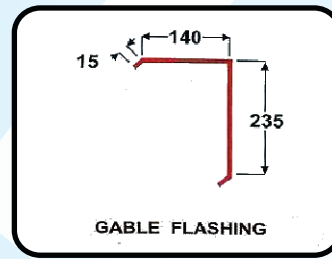
BOX GUTTER



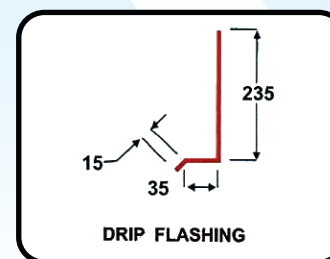
CORNER FLASHING



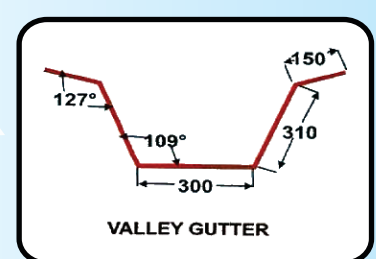
EAVE GUTTER



GABLE FLASHING



DRIP FLASHING



VALLEY GUTTER

Trapezoidal [Industrial] Building Sheet Aluminium Colour Coated Roofing Sheet

PRODUCT A

Trapezoidal (Industrial) Profiled Building Sheet Provides Most Ideal Roof & Cladding For

- All Kinds of Industrial Sheds and Warehouses
- Aircraft Hangers, Conveyor Gantry Housing
- Pre-fabricated Shelter, Bunk Houses, Tents, Kiosks, exhibition Pavilions
- Ship/Steamer Awning, Boiler & Fuel Storage Tank Insulation Covers
- Wall Panels for High rise Building, Partition Wall, False Ceilings for Large Halls

Maximum Loading for Trapezoidal Building Sheets (Kg/m²)

Figures are Based on an allowable Stress Corresponding to a Factor of Safety of approx 2 on 0.2% Proof Stress & a limiting Deflection of SPAN/70

Fasteners



Thickness	TYPE	Overall Width
1.22mm(18 SWG)	Industrial-5	1090mm (1000mm effective)
0.91mm(20 SWG)		
0.71mm(22 SWG)		
0.56mm(24 SWG)		

ROYAL ROOFING SYSTEM

Roof Ventilator

Materials : Adopting high Quality Stainless Steel, Sealed Bearing, Fireproofing Reinforced, nylon Support or metal support & rivet to connect

Benefits : Weather resistance & Strong fray resistance, fine non - Viscidity & self cleanness, High revolving sensitivity & high air Venting efficiency

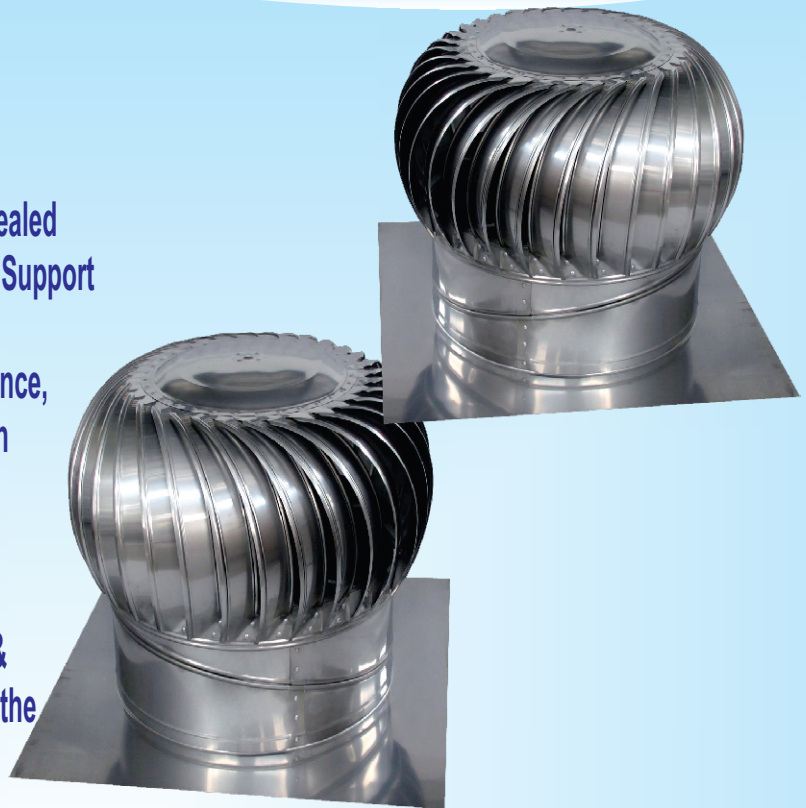
Working

Conditions : Temperature difference between indoor & Outdoor is 0.45°C. it begins to revolve at the wind Speed of 0.20 m/s.

Roofing

Angle : Applied in different roof in the scope of 0-22.5' oblique angle

Applicable : Industrial workshop, commercial & civil building



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COMMITTED NAME FOR SERVE THE BEST

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