



Shakthi Innovative
SOLUTIONS PVT LTD.,

Low Cost | High Quality

Integrated Pre-Engineered Building Solutions

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Our Product: Pre-Engineered Buildings

Pre-Engineered Buildings (PEBs) are the latest trend in India. A PEB is a metal building that consists of light gauge metal standing seam roof panels on steel purlins spanning between rigid frames with light gauge metal wall cladding. They drastically reduce construction time. Maintenance is also extremely low. PEBs optimally utilize resources, and leverage technology to the maximum. PEBs have gained a global reputation for durability, water and earthquake resistance. PEBs are tremendously versatile - they are easy to set-up, expand, modify, and transport to different locations.

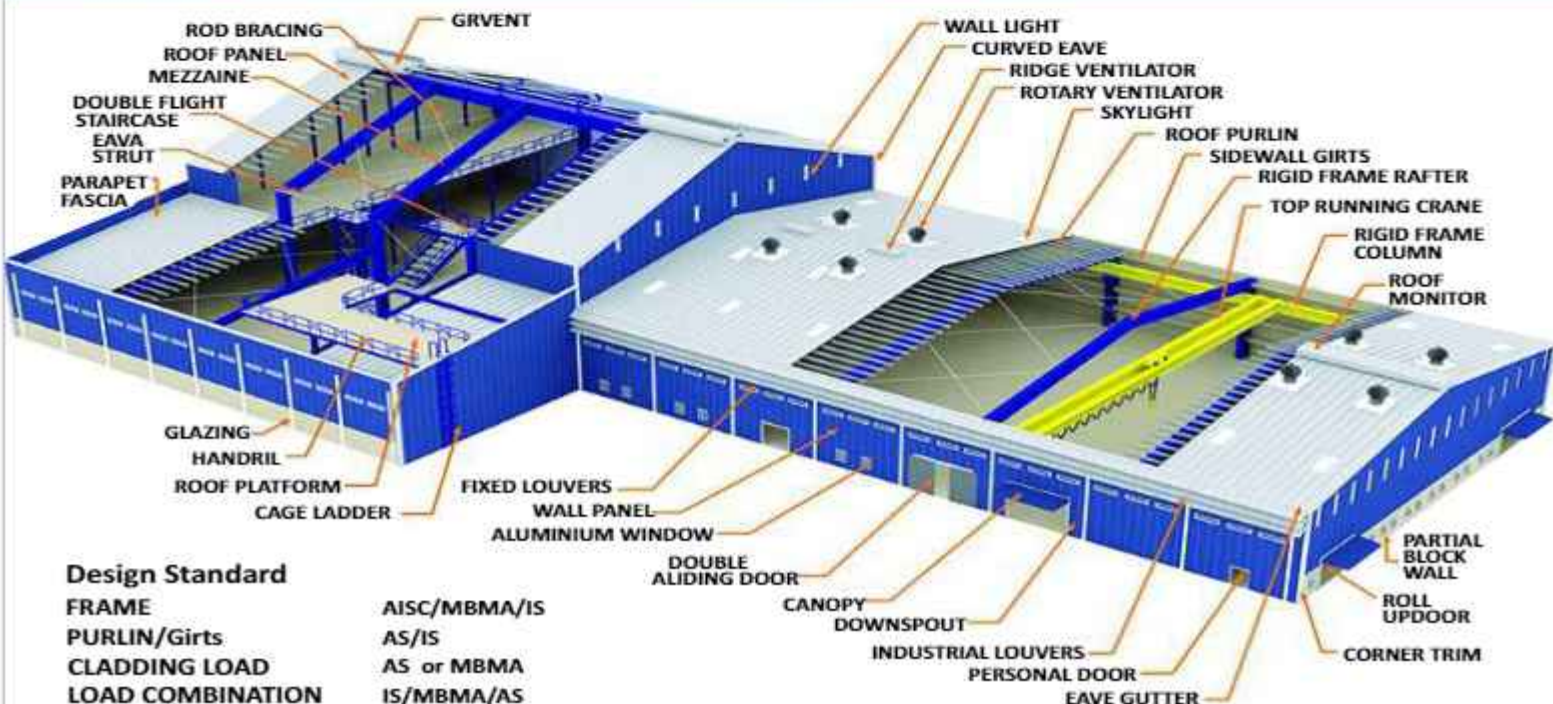
They are environmentally friendly and can be aesthetically designed with unique features. An estimated 20-30% can be saved on cost, as compared to conventional building methods.

PEBs can be delivered to a site in just 5 to 8 weeks - conventional steel structures take as much as 20 to 25 weeks to complete. The unique techniques employed during fabrication help PEBs be up to 30% lighter than regular steel products. No welding or fabrication is required at the construction site; resulting in greater speed and efficiency.

SHAKTHI Engineering Strength

SHAKTHI has expertise in innovating customised, economical designs without sacrificing form or function. Our team uses specialised software packages and cutting-edge computer hardware. One of the many advantages is - our consultants can minutely analyse a 3D wireframe of the structure; giving them the ability to correct oversights and avoid costly mistakes even before the building phase commences.

Illustration of Major PEB Elements



Design Manufacturer & Install Building Structural

Pre-Engineered Building Design, Manufacture & Install Building Structures

The pre-engineered building system has all the attributes of what modern of what modern life-style demands, i.e., speed, quality and value. There are applications or pre-engineered buildings. It can be automobile garage to aircraft hangar, bakery to dairy farm, auditorium to hospital, and factory to community hall.

Basic Building Parameter

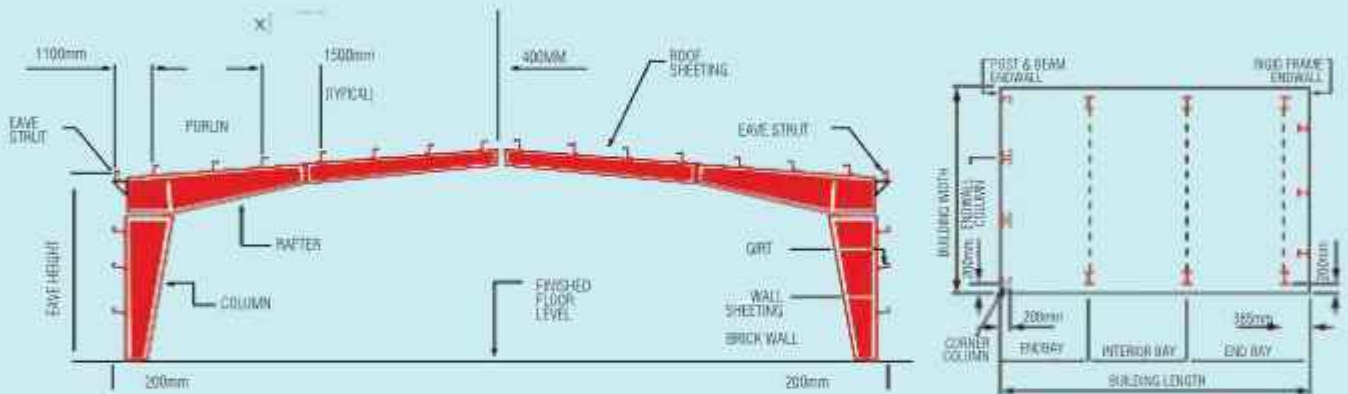
Applications

- Factories
- Warehouses
- Cold Storage
- Petrol Stations
- Schools/Collages
- Offices
- Showrooms
- Commercial complex
- Recreational Ce tres
- Basic Building Parameter

Advantages

- Short project times
- Large clear spans
- Reduced construction cost and time
- Faster delivery and installation
- Factory controlled quality
- Aestheti ally Appealing
- Virtually maintenance free
- Single Source responsibility
- Basic Building Parameter

Basic Building Parameters



Structural Sub Systems

Structures Subsystems (Core Subsystems)

The strength of the pre-engineered building system lies in this ability to incorporate A large number of structural sub systems that use standard components and standard design approaches to satisfy a wide range of custom requirements. The structural subsystems satisfy two types of requirement:

- FUNCTIONAL
- AESTHETIC
- ENDWALL ROOF EXTENSION
- SIDEWALL ROOF EXTENSION
- TRANSVERSE PARTITION
- LONGITUDINAL PARTITION

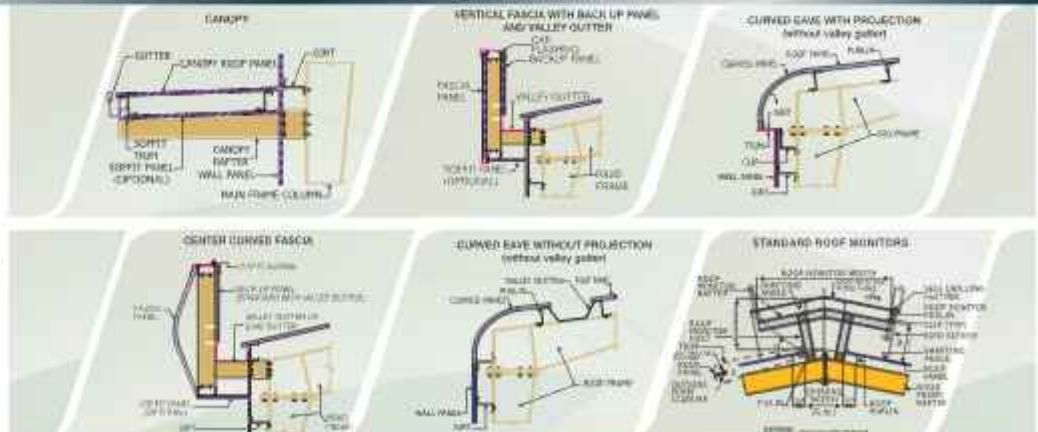


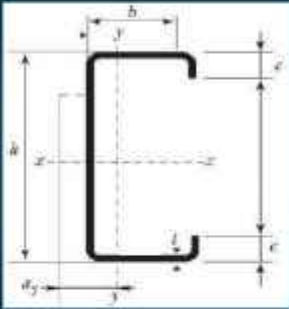
illustration of major PEB elements

Purlin Accessories

C and Z Purlins

C and Z purlins are specially designed to provide economy to building construction and keep the site clean and environment friendly, and yet it is strong and sturdy to hold the building in position or lifelong. C and Z

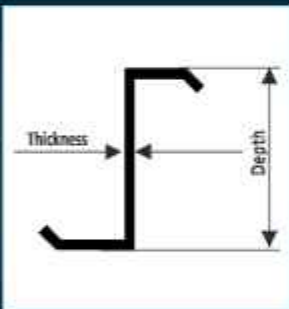
Sections are accurately roll formed from high strength galvanized steel, cut to the length and are pre-punched to the required dimensions to provide efficiency in faster constructions.



Purlin C - Shape			
SIZE	A	B	C
C100	100	50	15
C150	150	60	15
C200	200	70	20
C220	250	70	20
C300	300	80	20



MxPurlin - C



Purlin Z - Shape			
SIZE	A	B	C
C100	100	50	15
C150	150	60	15
C200	200	70	20
C220	250	70	20
C300	300	80	20



MxPurlin - Z

Roofing and Wall Sheet

RiB

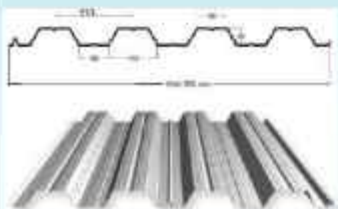
1000 is one of the most in demand Roofing and Wall sheet profile as it serves two most important purposes, first strength & second Aesthetics and hence becomes architects first choice.

Crest

1000 is a profile with muscles. Large crest with two parallel mini ribs between the crest makes the profile stronger which translates into long spanning capabilities. Thus the profile is most recommended for heavy rainfall intensity area.



DIMENSIONS				
Profile	Cover Width	Crest	Pitch	Sheet Width
Sheet	1000	30	205	1060



Decking Sheet

Deck54

is an innovative steel decking profile which is an ultimate light weight system for all multi-torey buildings. Deck54 profile is designed so strong that no or minimum propping is required.

Accessories Flashing



PVC SHEET

POLYCARBONET



LOUVER



TURBO VENTILATOR



CURVE SHEET



SHEAR CONNECTOR



DECKING SHEET



INSULATION

Few Project Headed Execution



Hitech Fluids and Hitch hydraulics
Malur



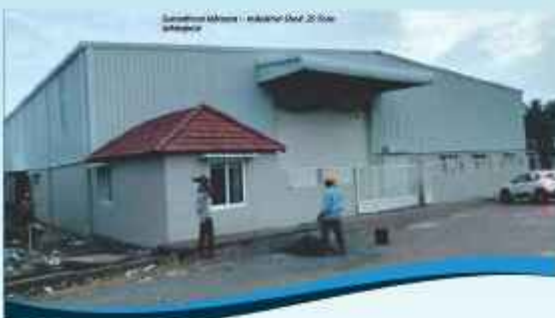
Indian Railways
Jakkur



Satharkan
Jigini



Aurinco School
Electronic City



Mitasha
Malur

Few Project Headed Execution



Manya Technologies
Malur



Japan Metals
Bidadi



Trijal Motars
Whitefield



Super Coats
Dobsespeth



SKL Exports
Bommasandra



IMBB
Ahmadabad



TLS Infotech
Malur



Evlin Decors
Varthor





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