



An Eco-friendly drive to protect Mother Nature



INNOVATION

TEAM WORK

CREATIVE



PIONEER IN ENGINEERING

▶ **PRE ENGINEERED STRUCTURES** ▶ **SOLAR SOLUTIONS**



Spark Engineering is one of the leading provider for turnkey solutions for Pre- Engineered Building and Puff Insulation Panels

We also carries out Offgrid/Ongrid Solar Installation panels for residential , Commercial and industrial campus.

Commitment

Our Commitment to excellence provides unmatched product quality , coupled with speed , safety and superior sales services.

Vision

Our Vision is to be recognized as the global leader for the design , manufacture , supply and erection of Pre- Engineered Steel Buildings (PEB), Steel Building and Solar Energy solutions.

Mission

Spark Engineering will achieve this vision by consistently delivering high - quality products to our customers , accompanied by personalized service and a commitment to excellence.

Strength

Spark Engineering has expertise in innovating customized, economical designs without sacrificing form or function.

Our team uses specialized 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.



About Pre- Engineered Building

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.

The unique techniques employed during fabrication help PEBs be up to 30% lighter than steel products. No welding or fabrication is required at the construction site; resulting in greater speed and efficiency.

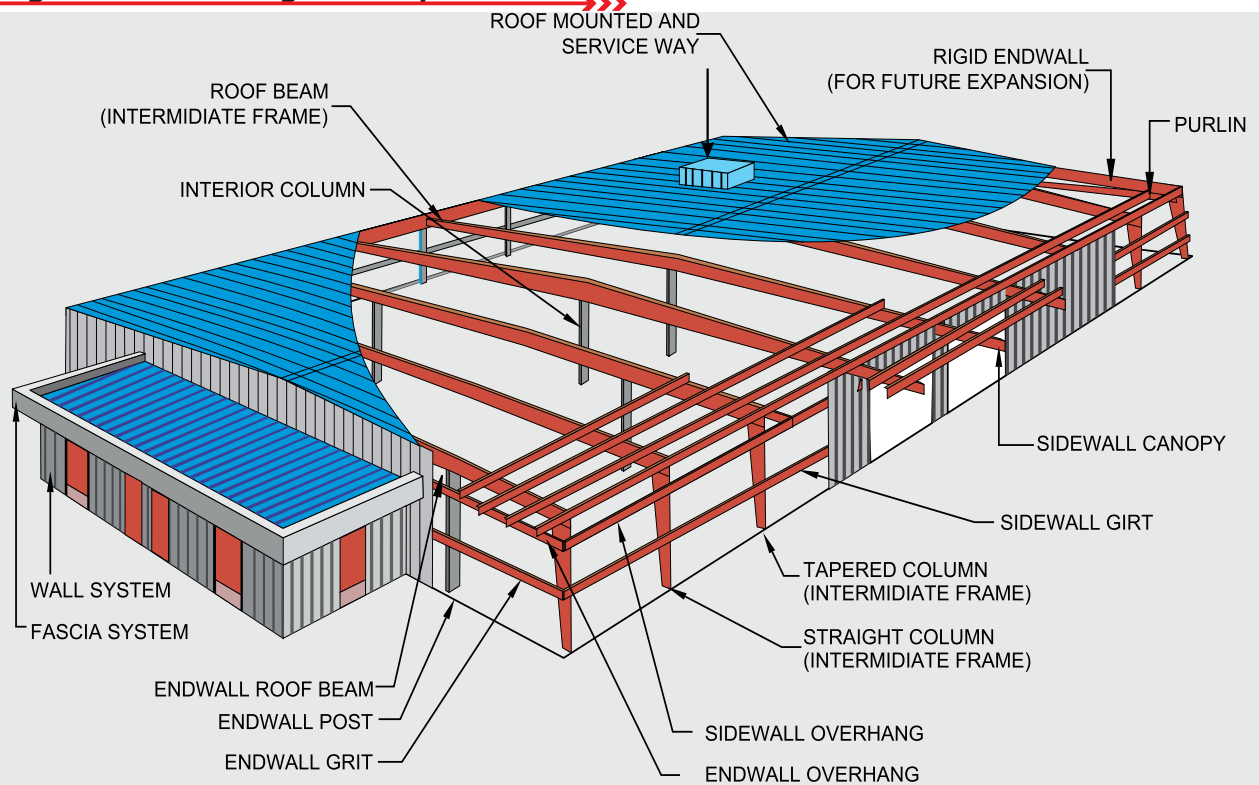
Advantages

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

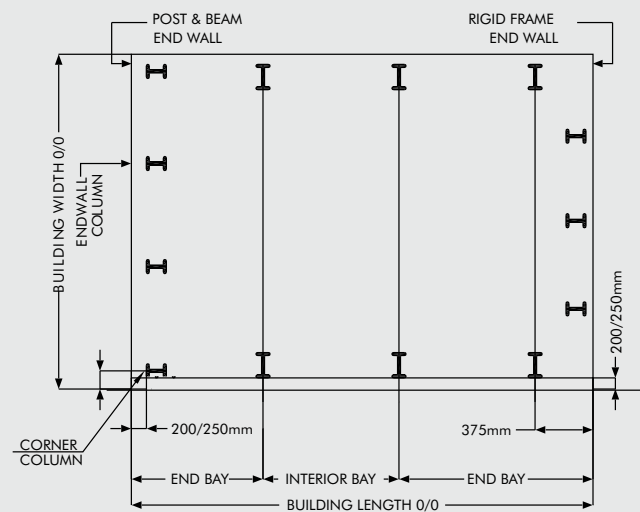
Applications

- ✚ Factories
- ✚ Warehouses
- ✚ Parking Shed
- ✚ Supermarkets
- ✚ Badminton Court Shed
- ✚ Swimming Pool Shed
- ✚ Auditoriums
- ✚ Community Centre
- ✚ Commercial Shed
- ✚ Club House
- ✚ Institutional
- ✚ Food Courts

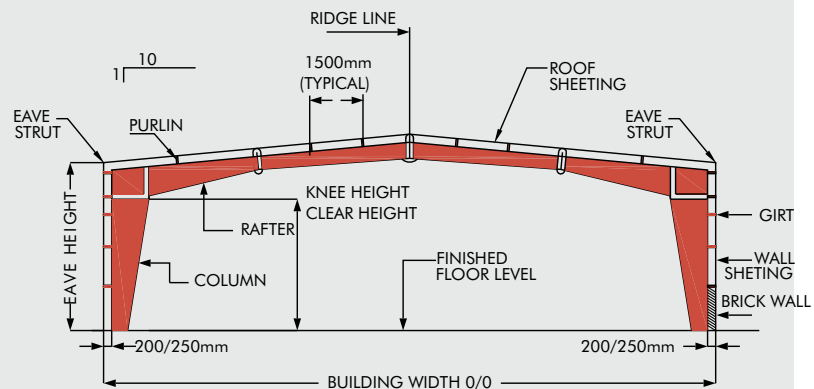
Pre-Engineered Building - Concept 3D VIEW



Typical Plan

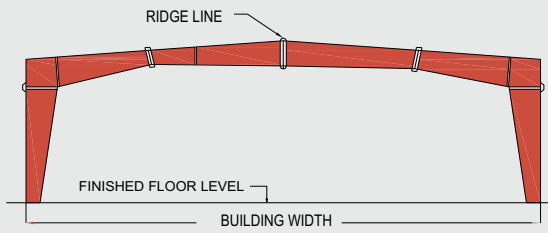


Typical Section



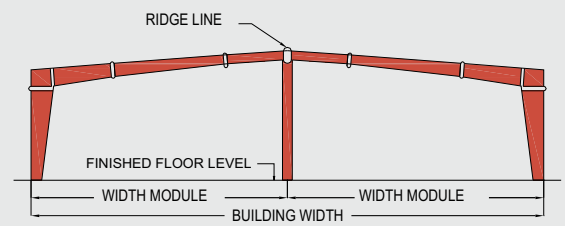
Typical Frames

SBSR



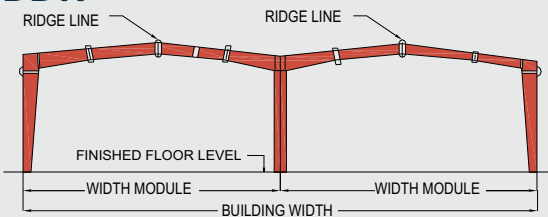
PRACTICAL WIDTH - 6M TO MAX.60M

DBSR



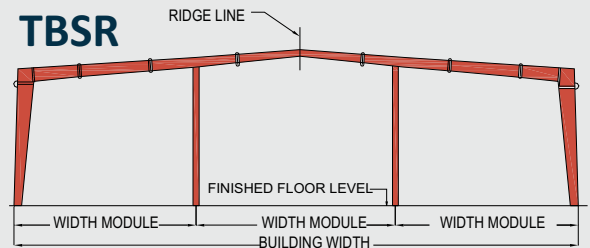
PRACTICAL WIDTH - 24M TO MAX 48M

DBDR



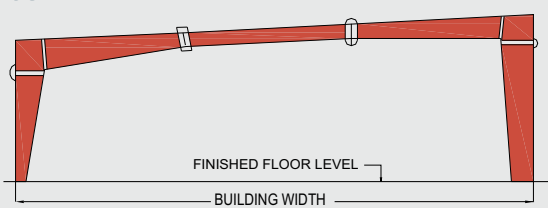
PRACTICAL WIDTH - 24M TO MAX 60M

TBSR



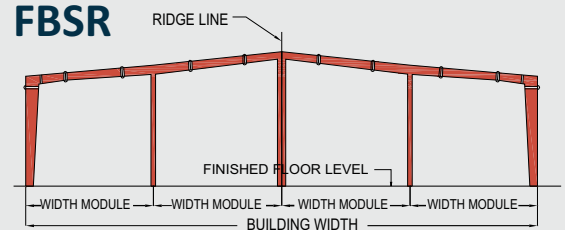
PRACTICAL WIDTH - 36M TO MAX 72M

LTR



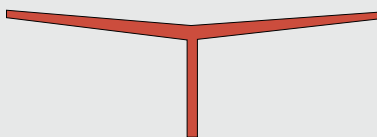
PRACTICAL WIDTH - 3 M TO MAX 18 M

FBSR



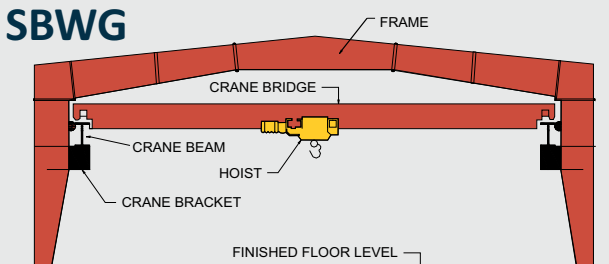
PRACTICAL WIDTH - 48 M TO MAX. 96 M

Y- CANOPY

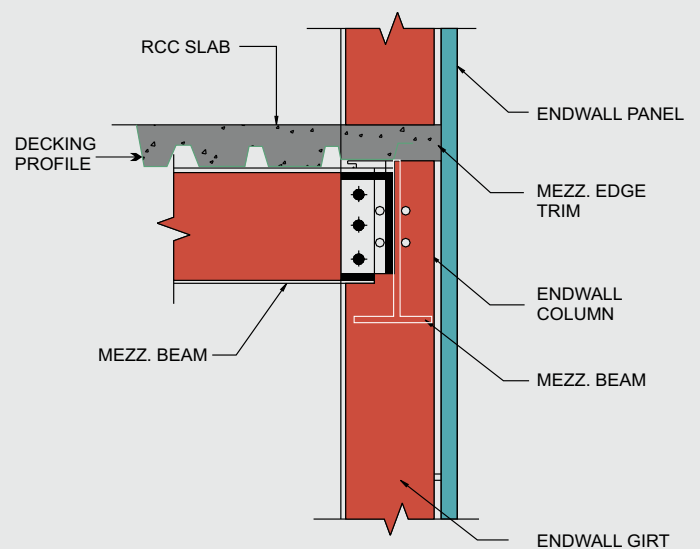


PRACTICAL WIDTH - 6 M TO MAX. 12M

SBWG



TOP RUNNING CRANE



JOINT CONNECTION TO ENDWALL COLUMN
(FOR MEZZANINE SLAB)

Components of PEB >>>

Our Pre- Engineered Structures are made of primary and secondary members.
Building Primary framing systems consist of columns and rafters

All these members are manufactured using high -strength grade plates , which are cut to the required size and shape.

- 🔸 Intermediate Frames 🔸 End Wall Frames 🔸 Wind Bracing
- 🔸 Beam Column Sketch 🔸 Multi Gable Sketch 🔸 T- Canopy Sketch
- 🔸 L - Canopy Sketch 🔸 Cantilever Fascia Sketch

Building Secondary Framing Systems >>>

Consist of Purlins , Eave Struts, Side Runners , Fascia , Channels , Door Posts , Window Posts , Rafter Stays , Columns Stays and Base Angles.

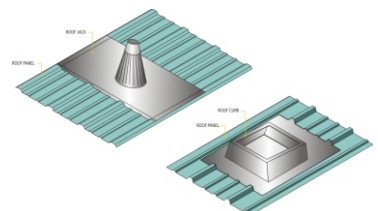
Cold - formed “Z” and “C” shaped structural members are cold roll formed light gauge, and can be custom made as per requirement .

They consist of roof purlins , eave struts and girts.

- 🔸 Roof Purlins , Wall Girts and Eave Struts 🔸 Roof Insulation and Wall Cladding
- 🔸 Roof and Wall Cladding Systems 🔸 Cranes and Mezzanines

Accessories >>>

Sliding Doors , Louvres ,Windows , Personal Doors , Skylights , Wall Lights , Ridge Ventilators, Roof Jacks and Roof Curbs.



Our Range of Products >>>

Pre- Fabricated House



Pre - Fabricated Commercial Building



Our Range of Products >>>

Puff Panels/ Sandwich Panel



Terrace Roof Top Garden



Our Range of Products >>>

Badminton Court Shed



Marriage Hall Shed



Fire Fighting Pipelines Fabrication Works



SOLAR SOLUTIONS

Do you know the amount of heat energy produced by SUN - it is estimated around 1575 - 48,837 Exajoules.

We can harness this power by using SOLAR Panel which can make significant difference in our beloved planet . SPARK ENGINEERING being social responsibility offers its customer to be in part of ECO - Friendly initiative

Advantages

- ☞ Solar Energy is a renewable energy source
- ☞ Reduces Electricity bills considerably
- ☞ Low maintenance cost
- ☞ Solar Panels are harmless to generate electricity
- ☞ Green source of energy
- ☞ Ease in installation
- ☞ Easy to expand
- ☞ Suitable for installation in any geographical location

"Focus should be on the production of renewable energy in the work of wind , bio-fuel and solar energy"
- Dr. A.P.J. Abdul Kalam

Types of Solar Panel

Based on power connection

- 🏠 ON GRID Solar Plant
- 🏠 OFF GRID Solar Plant

Based on Installation

- 🏠 Flat Roof Solar Installation
- 🏠 Pitched Roof Solar Installation
- 🏠 Ground - Mount Solar Installation

"To protect our worlds future generations , Act now by harnessing sun , wind and matters "



Our Range of Products >>>

Commercial Solar panel Installation



Residential Roof Top Panel Installation



Agricultural Solar panel Installation



Terrace Plain Solar panel Installation



For More details please do contact us

M/s. Spark Engineering

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