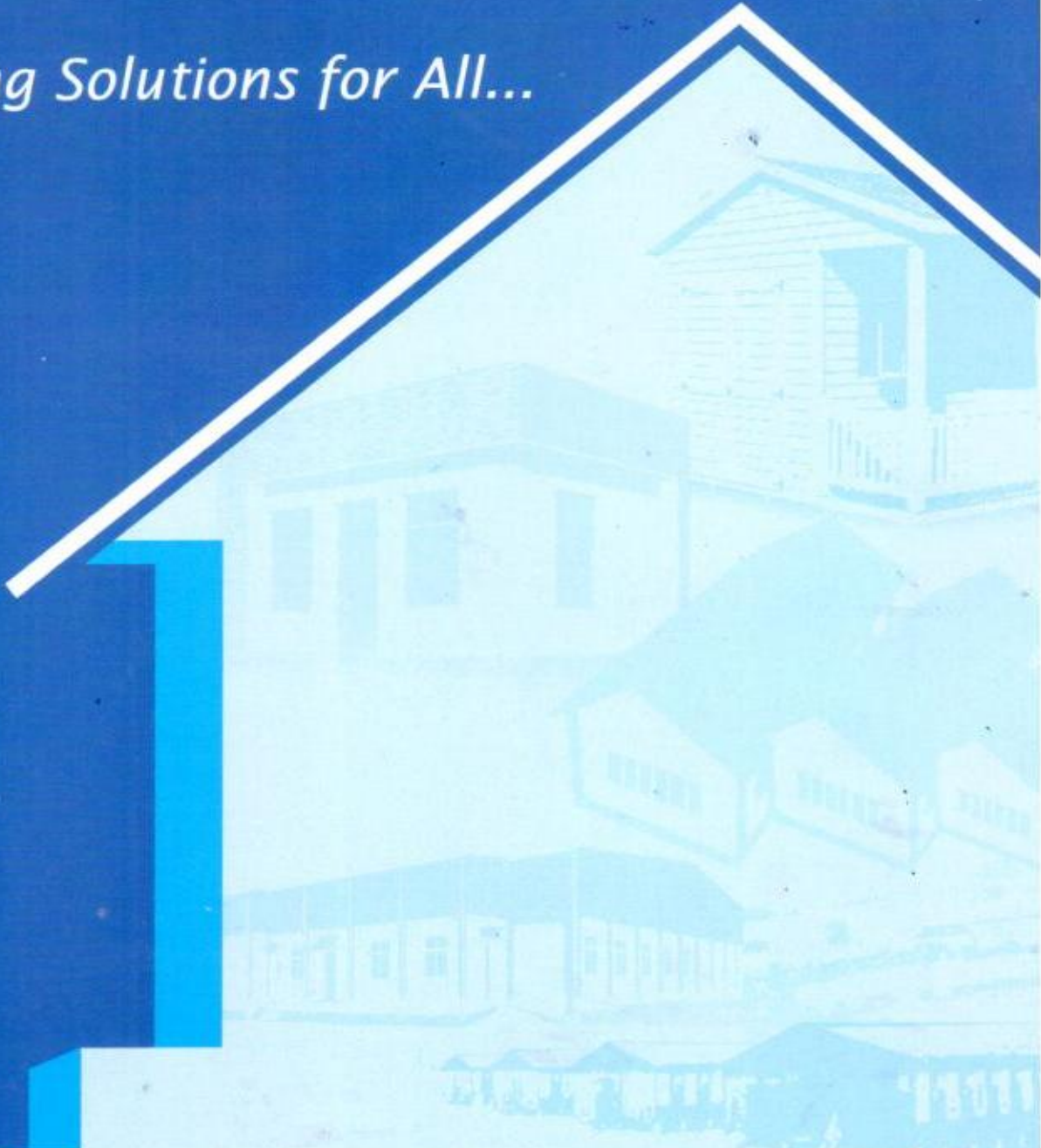




Building Solutions for All...



PRESTAR

PREFABRICATED BUILDING SYSTEMS

Prefabricated Shelters | Polyurethane Foam Panels | Pre Engineered Buildings



About Prestar

Established in 2002, Prestar Infrastructure Projects Limited, is now one of the leading names in Prefabricated Buildings and Shelters. An ISO 9001:2008 company based in Kolkata, Prestar is a prominent manufacturer of Pre fabricated Buildings & Shelters, PUF Shelter, Colour Coated Roof Sheets, Metal Beam Crash Barrier etc

With fully equipped modern manufacturing facilities, Prestar is a professionally managed company, poised to take up the toughest & most demanding of challenges

Our Beliefs

At Prestar, Customer Satisfaction is the cornerstone of all that we do. Designing products of international standards, maintaining the highest standards of Quality & Commitment and keeping alive the tradition of service to the nation are values that we cherish the most

Philosophy

At Prestar, we know that customer satisfaction is the cornerstone of our success. Our goal is your satisfaction



PLANT & MACHINERY

Keeping abreast with the latest manufacturing technology, Prestar has acquired state-of-the art machinery from leading manufacturers abroad

Polyurethane (PUF) panel machine imported from Italy can cater to the current and growing requirements of domestic industries

Pre-engineered steel building (PEB) manufacturing plant that includes Multi-torch CNC cutting machine, Automatic Submerged arc welding tractors and MIG welding machines, Abrasive blasting and painting equipments etc., has an installed capacity of 25,000 MT per annum

Other machines include Automatic coil processing equipment including Cut to length, Slitting, Punching, Ribbing, Roll-forming, folding, CNC Press brakes, NC Shearing machines, power presses, Automatic Cold circular saws, Magnetic and Table drill machines, DC welding machines, Aluminium Fabrication equipments, Glue spreaders, Panel Saws, Robotic Tapping machine etc.



Quality Control

At Prestar, quality is not an accident. The stringent quality control systems, right from raw material procurement till the finished product ensure that every product rolled out from the factory, strictly complies to the highest quality standards



Prefabricated Shelters

Prefabricated shelters are highly practical, functional, and offer a flexible, long term, cost effective solution to many building requirements. Prestar Infrastructure has, over the years, successfully installed robust, cost-effective and aesthetically designed shelters both in India and overseas. It has always been our endeavor to provide our clients the perfect shelter even in the most demanding circumstances. With our highly experienced and qualified projects team, we at Prestar, are capable of giving you exactly what you need, tailor-made to the last detail. It is this expertise that has enabled us to cater to the extensive demands of various sectors

Advantages of Prestar Pre fabricated Shelters

Speed of construction

The construction speed is reduced as much as 50% compared to the conventional building thanks to the fabrication of structure at the factory and foundation work being completed simultaneously

Perfect Insulation

Advanced materials such as PUF / EPS sandwich panels ensures perfect thermal insulation even at extreme climatic conditions

Solid Construction

These shelters are anti-termite, anti-corrosion, weather-resistant, water & fungus proof, earthquake resistant

Customized Designs

Designed to cater to all your varied requirements

Easy Transferability

Being light-weight, these shelters are easy to transport to inaccessible hilly terrains

Flexibility

The structures can also be erected on steel-based frameworks with floor panels, steel deck etc., minimizing the civil foundation work



Application areas

- Living Shelters with Toilets & kitchen
- Flood / Drought Relief Camps
- Disaster Relief Shelters
- Site office including Kitchen, Toilets & Electrification
- Factory shop floor offices & cabins
- Modular Schools (Mobile Schools)
- Health Centres
- Guard Huts / Portable Cabins
- Community Training & Meeting Centers
- Sound Proof Cabins
- Acoustic Enclosures
- Transit Camps



Polyurethane Foam panels (PUF)

PRESTAR PUF Panel Systems are specifically designed to cater to all kinds of Cold Storage, Telecom Shelters, Living Shelters & Clean Room Enclosures. The high performance and quality offered by these systems ensures extra strength, better overlap, weather tightness, corrosion resistance, low maintenance cost and good aesthetics.

PRESTAR PUF Panel Systems consist of self interlocking sandwich insulated panels. The modular design offered by these panels enable easy & quick installation along with durability.

These panels are interlocked with each other using Cam Lock Systems which ensures a precise interlocking of panels with high dimensional accuracy.

Product Applications

Cold Storage • Telecom Shelters • Living Shelters • Clean Room • Enclosures • Fruit & Vegetable Terminals
Refrigerated Van • Controlled Atmosphere & Long Term Storage

Features

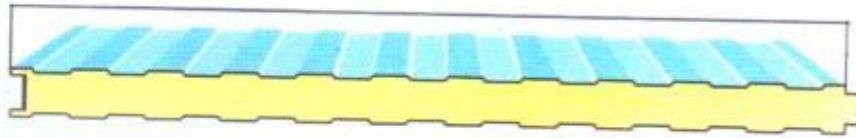
Easy & Quick Installation • Controlled Temperature & Humidity • Lightweight, Easy to Cut • Energy Efficient Rooms • Lean Construction • Long Service Life • Modular Construction • Cam-lock Interlocking

Technical Properties of PUF

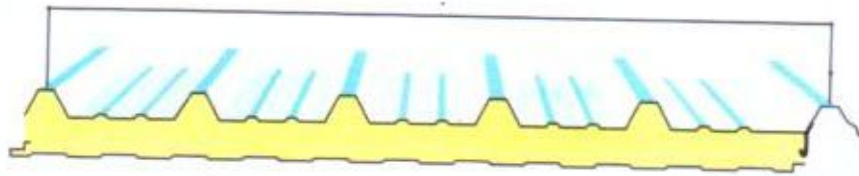
Density	40.0 ^{kg/m³}
Compressive strength at 10% deformation	22.1 Kg/cm ²
Tensile strength	3.7 Kg/cm ²
Bending strength	4.0 Kg/cm ²
Adhesion strength (foam to steel)	2.9 Kg/cm ²
Dimensional stability (48 hour)	
-25°C	0.1%
+38°C & 90% RH	0.1%
+100°C	0.4%
Closed cell content	90-95%
Temperature range	-180°C to +110°C
Thermal conductivity at 10°C (design value 0.020 k-cal/m-hr 0°C or 0.023 w/m-k)	0.018 K-cal/m-hr 0°C
Fire resistance	
Horizontal extent of burn BS 4735	<125mm
Self extinguishing ASTM D 1692 (fire retarded foam chemical)	
Not easily ignitable as per BS: 476 Pt.5 a class-i as per BS: 476 Pt.7 (for panel)	Passes
Water absorption	0.2% volume at 100% RH (At 90% RH & 38°C)
Water vapour permeability	0.8 – 0.12 gms / Hr M 2



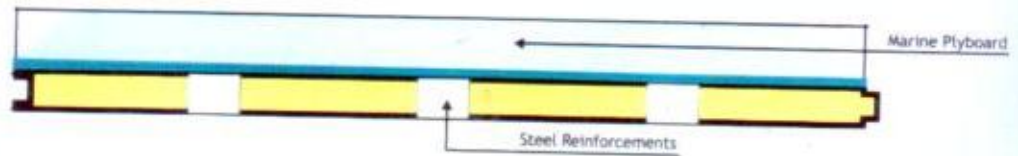
Wall/ Ceiling Panel



Roof Panel

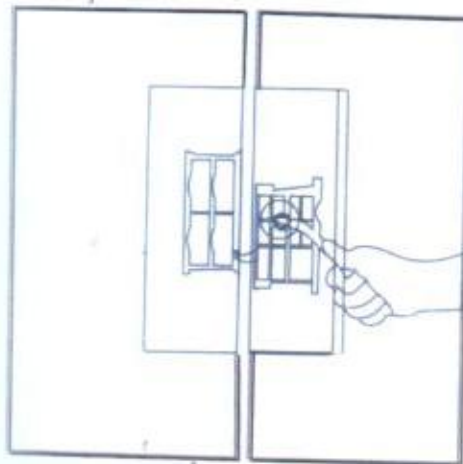


Floor Panel

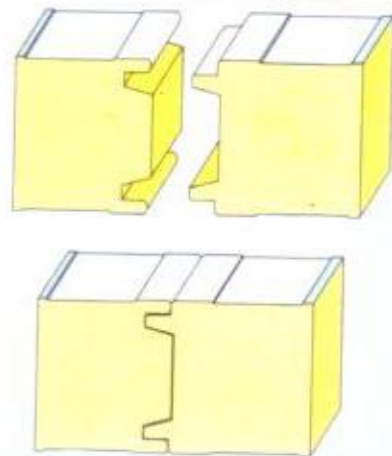


PUF Interlocking Systems

CAM LOCK INTERLOCKING



TONGUE & GROOVE INTERLOCKING



Pre-engineered Buildings

A Pre-engineered building system is a building structure that consists of pre-engineered, pre-fabricated building components that are combined together and assembled structurally so that the components work together as one system. Pre-Engineered buildings can be as unique as the customer's needs. They provide speed in delivery and erection, flexibility in expansion and withstand severest weather conditions

Prestar Infrastructure has been designing such buildings based on sound Engineering principles. Both erection and fabrication are of highest quality standards

Advantages

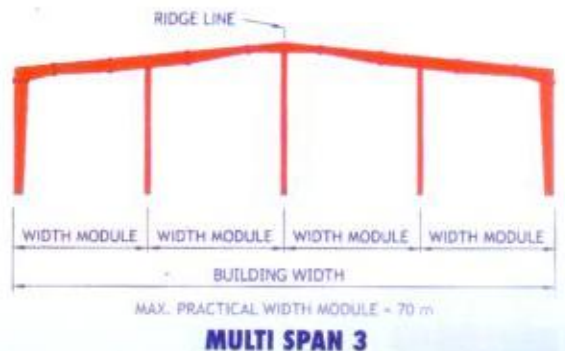
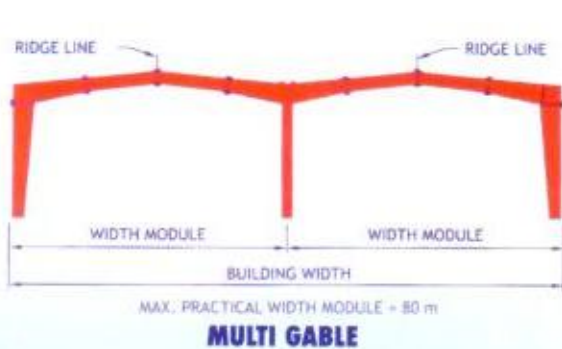
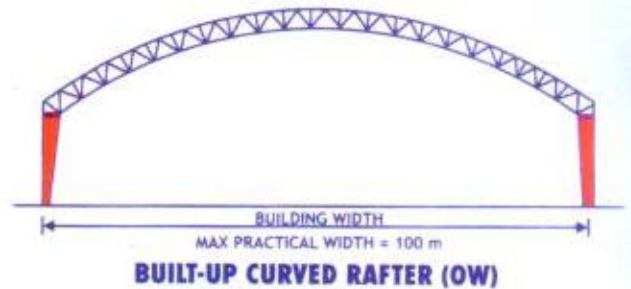
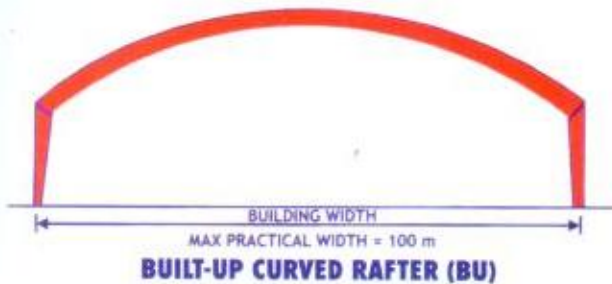
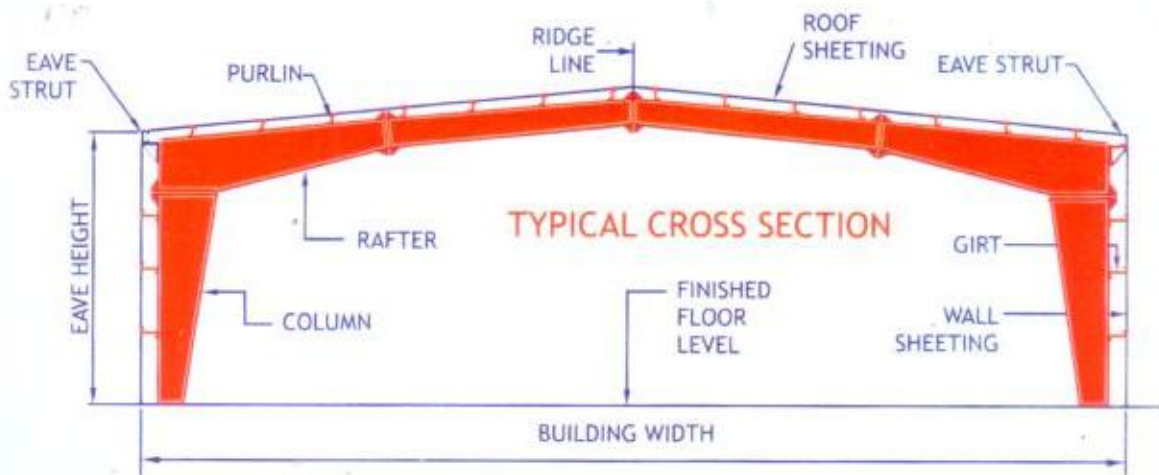
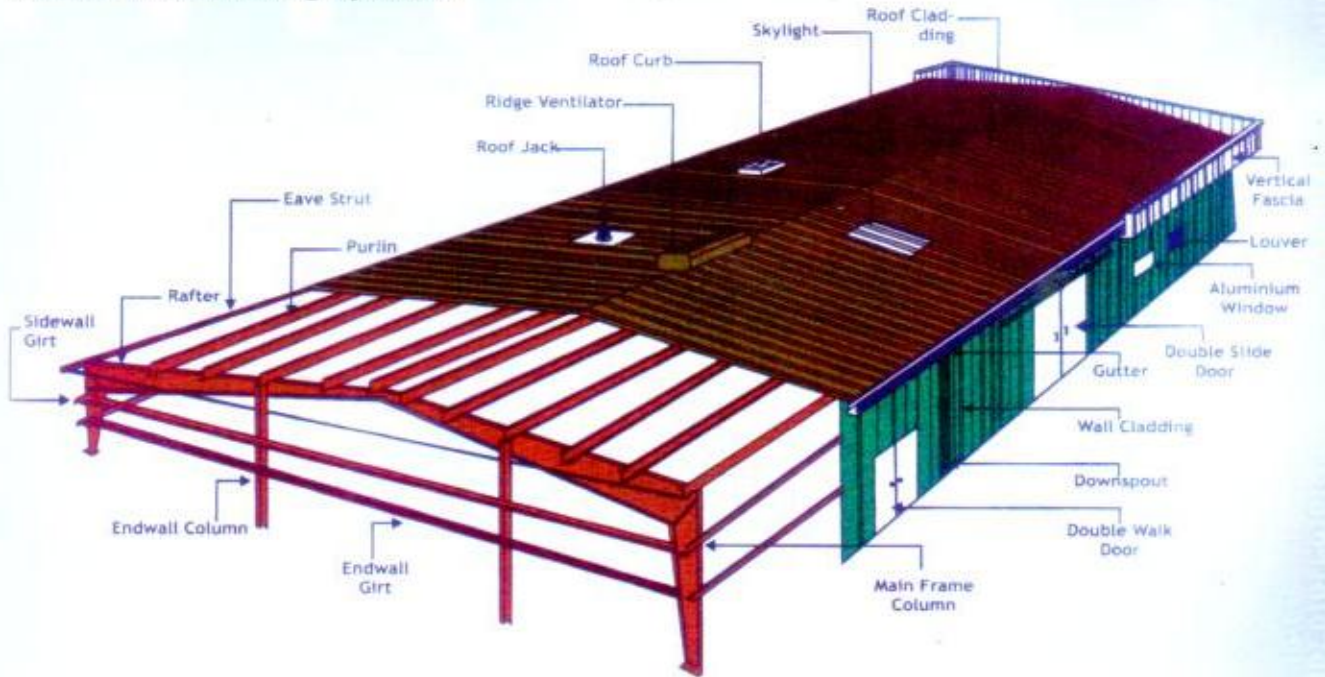
- Economical
- Seismic Resistant
- Aesthetic Appeal
- Assured Quality
- Fast Completion
- Maintenance Free
- Easy Relocation
- Modular Expansion

Application Areas

- Industrial Buildings and Warehouses
- Car Parking Sheds
- Workshops
- Office Buildings
- Showrooms
- Malls
- Aircraft Hangars
- Community Centres
- Schools
- Petrol Pumps
- Multistoreyed buildings
- Sports Complex etc.



Prestar PEB Framing Systems



Prestar Multi-Storeyed Prefabricated Houses

Prestar Prefabricated multi-storeyed modular buildings are the ideal solution to meet the growing demand for modern and high quality office and welfare facilities for larger construction projects

Key Benefits

- Multi-Storey Modular House is easy to disassemble and assemble, it can be removed 10 times, and it can last 20 years.
- It is easy to ship, the framework is light steel system, the wall and the roof system are with EPS sandwich panels
- It is time-saving and multifarious, all the parts are prefabricated, that makes easy installation and you can add or remove the doors and windows, and also you can change them to any place
- The foundation is easy to make or not needed
- It can be recyclable, it can last for 20 years
- It is easy to install, a skilled worker can install 20SQM 30SQM in one day
- It is easily customized. The houses can be designed according to the clients' needs. And all the features are optional

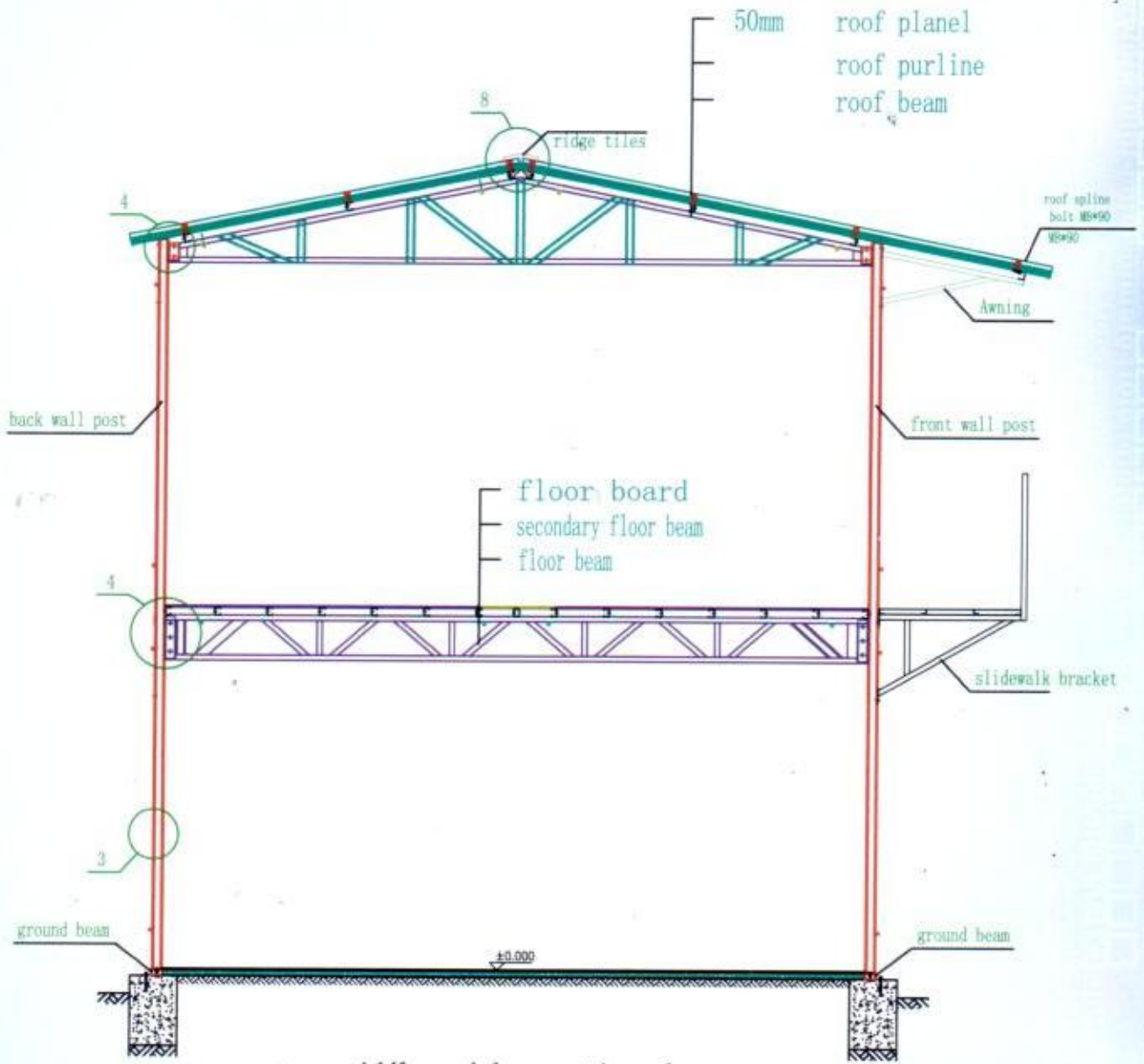


Applications

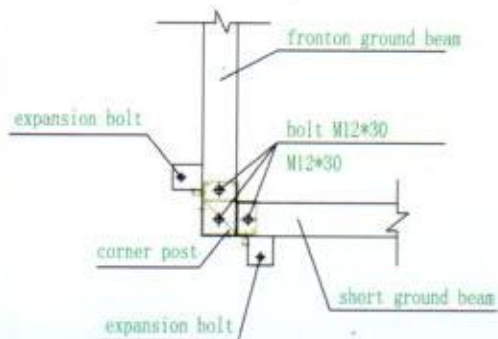
Office ● Rest-room ● Control-room ● Classroom
Hospital ● Dormitory ● Show-room ● Warehouse
Shop ● Workshop ● Public-accommodation



Typical cross section of a multistoreyed Prefab building



middle modular section plane





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