















Vision

To strengthen Pakistan's Building system by providing innovative, energy-saving and cost effective solutions.

To provide quality workmanship and maintain the highest level of professionalism, integrity and honesty in our relationship with clients.

Mission

To provide product with zero compromise on quality and workmanship.





Promise

INTEGRITY

We are honest and accountable in our actions with one another and with all our stakeholders, and we strive to build trust at every opportunity. Our commitment to doing what's right underscores everything we do each day.

INNOVATION

We challenge the status quo and proactively seek opportunities for continuous improvement and transformative breakthroughs. We develop products and solutions to meet our customers' evolving needs and improve communities through our commitment to environmental sustainability.

TEAMWORK

We work side by side to create an environment of collaboration and mutual respect. Our backgrounds are as varied as our efforts, and we stand together as one winning team whose diversity reflects the communities we serve.

SAFETY

Safety is an essential part of our culture We approach each day with careful attention to the well-being of every individual. From the moment we leave home to the time we return, we take personal responsibility for our safety and the safety of those around us.

Quality

We offer high Quality standardized products to our customers. Our products are PS/ISO/IEC/ASTM certified.









Pre-Engineered Building Concept

From conception to occupancy, any steel structure uses hundreds of parts that fit together to create a purposeful building. But if we look from a broader viewpoint, all components of a modular steel building can be compartmentalized into the following segments.

Pre-Engineered Building Concept:

The concept of Pre-Engineered Building is not up to the minute. It was the revolution which was commenced in early 1900's. Pre-Engineered buildings are the structures that are built using structural steel framing system specifically engineered at factory and assembled on site as per client design requirements.

Components of Pre-Engineered Building: The Primary Components

The primary components of a pre-Engineered Building includes the main frame for the skeleton of the structure like columns, rafters, bracing which create the portal frame.

The Secondary Components

These are all of those components which support primary components like girts, eave, struts, Z or C purlins etc. The main purpose of secondary components is to transfer load from cladding to primary steel structure. It also provides lateral support to it.

The sheeting

Components need proper roofing, wall panels and insulation. This is the outer structure of the steel building, which separates the building from the external environment. Sheeting transfers load to the secondary steelwork, provides thermal and acoustic insulation, prevents fire spread and provides an airtight envelope as well as providing ventilation to a building. It also dictates whether the building receives natural sunlight or not, depending on the purpose of the building.

Miscellaneous building components

For structures that are designed for recreation, leisure or personal use, the miscellaneous components provide a distinct uniqueness in appearance and practicality, along with additional features customized as per your requirements.

Pre-Engineered Buildings

There is no debate in the way that Pre-Engineered building systems are the new wave in the tremendous development of the construction industry. Pre-Engineered buildings offers numerous benefits. These benefits include:

Low Initial Cost:

A steel building is lighter so it can be installed with minimal foundations without heavy investment in foundation work. The use of tapered portal frame reduce the consumption of steel in main frame, Z shaped secondary structural member gives continuity in secondary framing contribute in maintaining low initial cost for the structure.

Quality Control:

The majority of the steel structure work is performed in factory's controlled environment. Standards of different codes are applied during design, manufacturing, welding and selection of raw materials. Hence, quality control is the strict/restricted criteria in the manufacturing of Pre-engineered buildings.

Fast Construction:

Its construction speed is double than conventional systems. As bolting system is used on pre-fabricated members.

Easy Installation:

Subsystems, insulation, ducting, exterior systems are so easy to install because of the nature of framing, primary and secondary structure.

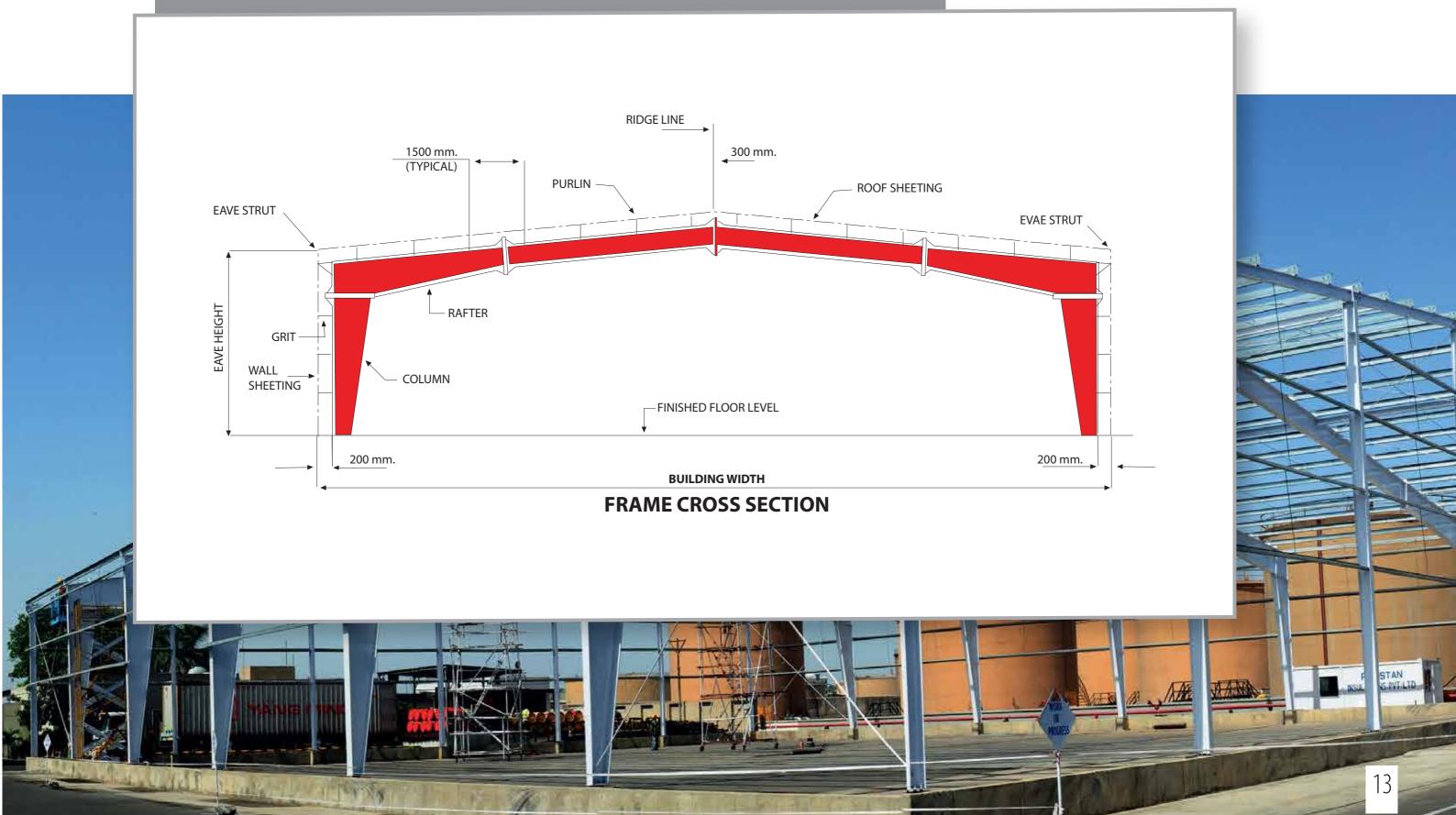
Low Maintenance Cost:

Due to the usage of standard quality of paint over structural members, it increases its ability to sustain which results in minimal maintenance cost.

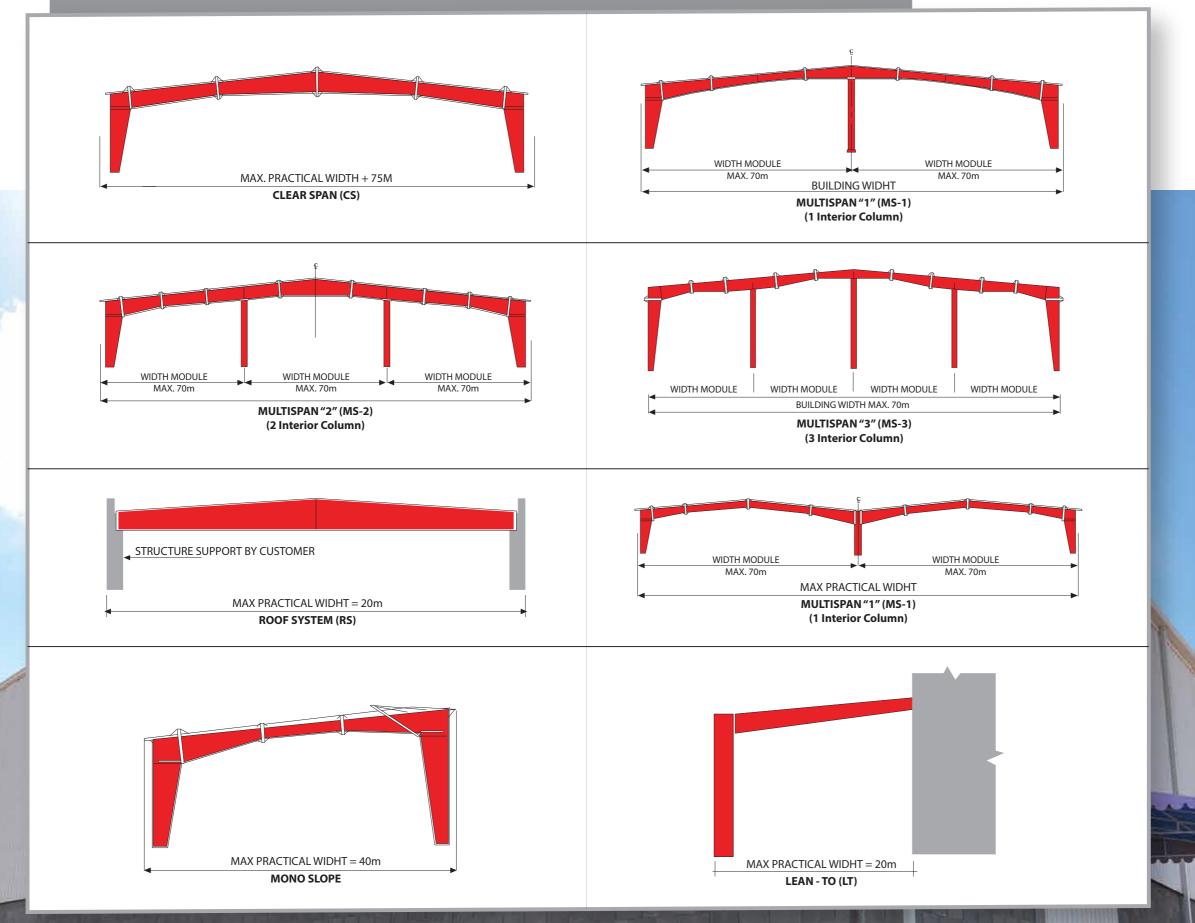




PARAMETERS & PRIMARY FRAMING



PARAMETERS & PRIMARY FRAMING



Products

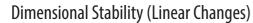
Polyurethane Sandwich Panels

Pakistan Insulation's insulated sandwich panels are processed using rigid poly urethane with external and internal sheet in steel, alu-zinc and aluminiun of different thickness, coating and colors.

General Physical Properties of Polyurethane

Overall Density =35 to 38 kgs/m³

Closed cell contents $\stackrel{\geq}{=} 90\%$ Thermal conductivity = 0.021 W/m°k Compressive strength = 0.21N/mm2 (perpendicular to the main plane of the panel)



48 hours @ -25°c = 1% max 48 hours @ 70°c = 1% max

Pu Thickness = 50 mm to 150 mm

Crimped Corner Profile

Benefits:

Higher energy saving due to very low thermal conductivity.

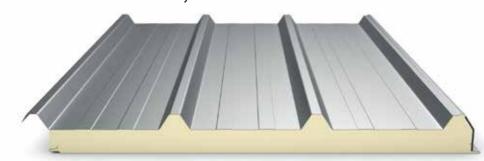
Reduce the effect of noise pollution.

Lighter in weight, easy to move and highly insulated.

Economical.

Durable.

Dimensional stability.



Z-Purlin & C-Channels



Z - Purlins / C - channels are the secondary structural members used to support the roof sheeting / wall cladding

Our range for depth of these purlin varies from 100mm upto 400mm and thickness varies upto 3.0mm $\,$

Flange widths / lip size / flange angles of the sections can be set in the machine, as per the requirement of the client

These Z/C sections give an excellent strength to weight ratio, thus giving tremendous cost savings.

These are manufactured from galvanized coils conforming to ASTM -A 653, Grade D having a yield strength of 345 Mpa.

Our purlins / channels are custom made to the desired size having the flexibility of its connection to the main structure either by overlapped system or sleeved system.

The anti=sag rods, connection fasteners for these purlins can also be designed and supplied by us upon client's request.

Benefits

High strength to weight ratio.

Economical.

Can be used for large spans upto 11.0m

Better quality and finish.

Quick Installation.

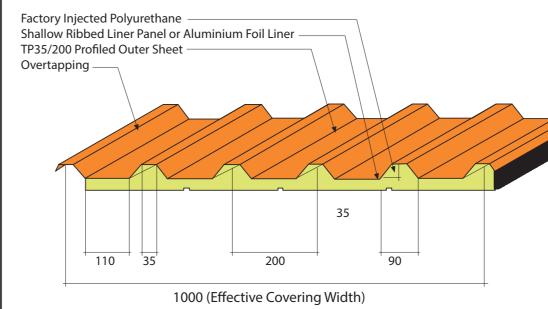
Custom made to requirement.

Products

35/200 Single Skin Profiled steel sheeting

Properties:

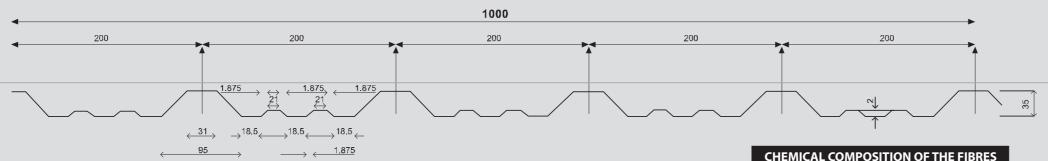
- *Material: ASTM A653 Grade:50 (Fy=35.0 KN/Cm²).
- *Sheet: Mill finish and color coated.
- *Paint: Polyester coated 25-30 microns on the exposed surface and 5-7 microns epoxy on inner surface.
- *Color: colors available as per RAL color chart (subject to the availability)



PROFILE 35/200

Thermal resistance of Polyurethane at various Polyurethane Foam Thickness





Rockwool Sandwich Panel

Pakistan Insulation producing termolan (Rockwool) under the technical collaboration of **Termolan s.p.a. Italy**. It is manufacturing on International Standard by practicing on **ISO 9001: 2010**. It is one of the best insulation material. It is best known for its fire resistant properties. Rockwool insulation panels offer protection from cold, heat, and ambient noise. It is environment friendly product.

Pakistan Insulations Rockwool Density = 100-200 kg/m³ Thickness = 20 to 100 mm



The chemical composition of the Termolan Fibres is as follows:					
SILICA	as Si O ₂	43.42 <u>+</u> 3%			
ALUMINIUM	as Al ₂ O ₃	10.38 <u>+</u> 2%			
IRON	as Fe O	12.78 ± 2%			
IRON	as Fe O₃	14.21 ± 2%			
TITINIUM	as Ti O ₂	2.40 <u>+</u> 2%			
MANGANESE	as Mn O	0.20 <u>+</u> .1%			
PHOSPHORUS	as Pa₂ O₅	0.96 <u>+</u> .1%			
CALCIUM	as Ca O	11.60 <u>+</u> 2%			
MAGNESIUM	as Mg O	10.18 <u>+</u> 2%			
SODIUM	as Na O	2.70 <u>+</u> 1%			
POTASSIUM	as K ₂ O	1.06 <u>+</u> .2%			
SULPHUR	as S O₃	Trace			

Density Kg/m	THERMAL CONDUCTIVITY					
		At 50℃	At 100℃	At 200℃	At 300℃	
80	Kcal/mh℃	0.036	0.042	0.059	0.089	
	W/mK	0.042	0.049	0.065	0.103	
100	Kcal/mh℃	0.035	0.041	0.058	0.083	
	W/mK	0.041	0.048	0.067	0.097	
120	Kcal/mh℃	0.034	0.039	0.055	0.078	
	W/mK	0.039	0.045	0.064	0.091	

Our Clients























































Delivered Projects

The City School



Pepsi Hyderabad



Peerani Ware House





Shell Kemari



Pakola Products



Agha Khan (Insulator)





Delivered Projects

LGSS Structure Of P&G



Indus Motors





