



TRILOK INFRACON (INDIA) PVT. LTD

Pre-Engineered Building



WORK BROCHURE



Creating The Building Of **YOUR DREAMS**



**TRILOK INFRACON
(INDIA) PVT. LTD**

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WHO WE ARE?



TRILOK INFRACON (INDIA) PVT. LTD

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In 1957, a remarkable Group came into existence. Fast forward to 2010, and the Group had expanded their reach by launching Trilok Infracon India Pvt Ltd to cater to PEB projects. The company boasts a corporate office in Siliguri (West Bengal), with regional offices across the country, as well as a production facility capable of producing up to 36,000MT per annum. The company is also currently in the process of establishing a new manufacturing facility in Siliguri, equipped with modern technology.

This professionally managed company is committed to its customers and specializes in the production of PEBs - tailor-made buildings designed on software such as MBS/Auto CAD/Stadd Pro, which are customized to meet specific requirements and are easily expandable. The company is renowned for its sturdy constructions, easy installation, low maintenance, dimensional accuracy, excellent performance, and longer service life.

To ensure that the highest quality product is delivered to clients, the company has carefully selected a team of highly knowledgeable and skilled professionals from the industry. These experts are dedicated to providing the finest quality product range to clients and rigorously inspect the entire production process, from the procurement of raw materials to the final dispatch of the product to clients. All products are tested under the supervision of the company's quality controllers and against defined parameters to guarantee client satisfaction.

Message From **DIRECTOR'S DESK**

Mr. Govind Agarwal **Director**

Trilok Infracon (India) Pvt. Ltd

“Success is not an accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.”-- Pele

In the 67 years since India gained its independence, the nation's remarkable

growth and development have been a source of pride for all. Trilok Infracon India Pvt Ltd. is honored to have played a significant role in this impressive surge for the past 12 years, and we are committed to continuing our contributions in the years ahead.

Our success is not a result of mere happenstance, but rather a testament to the tenacity of like-minded individuals who have persevered through the toughest of times. At Trilok, our accomplishments are a proud reflection of the unwavering hard work and dedication that we have invested in all of our endeavors.

While some paths have led us to success, others have presented challenges, but we have learned from each experience, adapted, and ultimately prevailed. Our strong will to succeed, coupled with an unrelenting passion for learning, has enabled us to achieve our goals over the past 12 years.

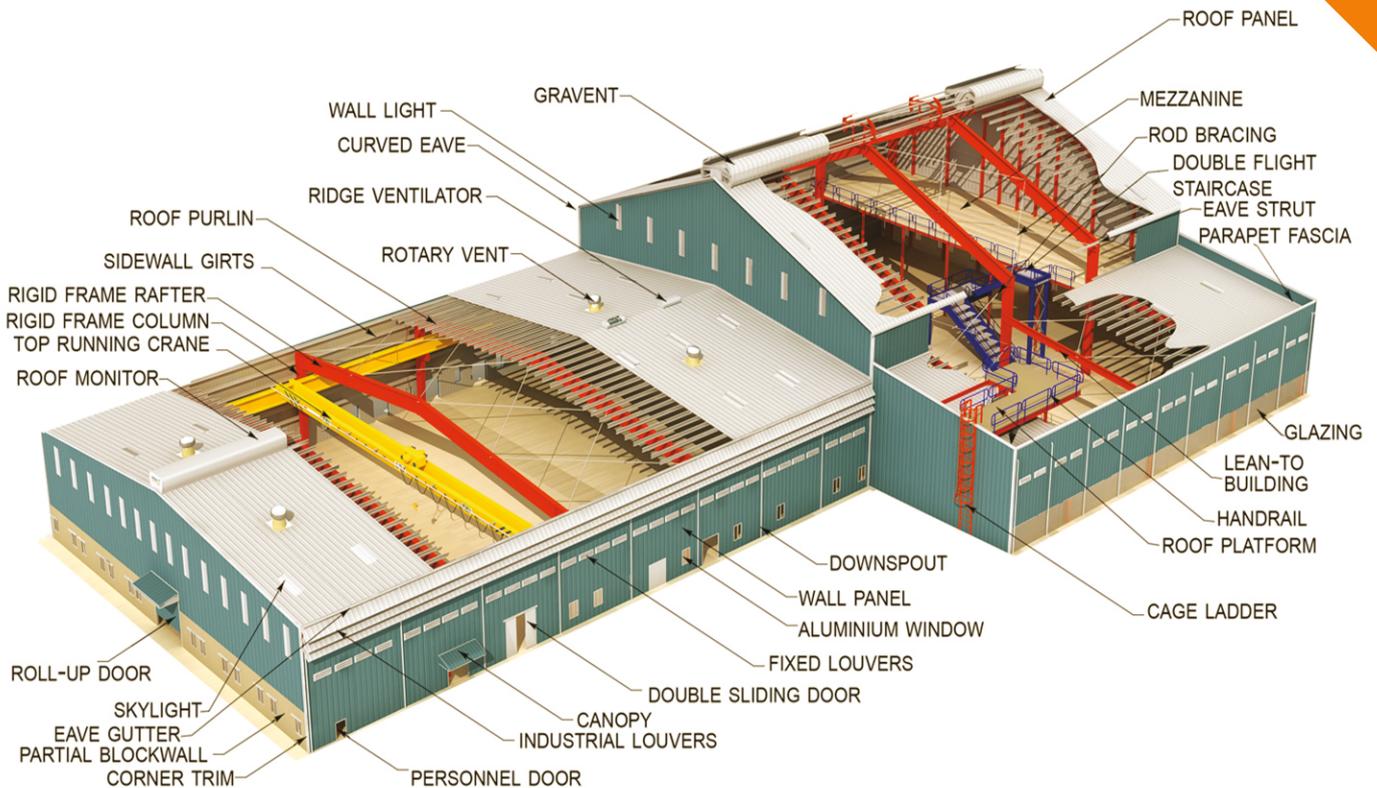
At Trilok, we are deeply grateful for the unwavering trust and support of our clients, who have shared in our vision and made this journey one of growth, development, trust, security, and selflessness.

Our success would not have been possible without their faith in us, and we remain steadfastly committed to serving and supporting them in our efforts to surpass expectations and continue building upon the trust that we have earned. Thank you once again, and let us unite and persevere in our pursuit of even greater success.



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Pre Engineered BUILDING



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Comparison between CONVENTIONAL & PEB BUILDINGS

PARAMETERS	CONVENTIONAL STEEL BUILDINGS	PRE ENGINEERED BUILDINGS
StructureWeight	Primary steel members are selected from standard hot rolled "I" Sections, which are, in man segments of the members heavier than what is actually required by designed.	Pre Engineered Building are on the average lighter through the efficient use of steel
Design	Each conventional steel structure is designed from scratch by the consultant, with fewer design aids available to the Engineer.	Quick and efficient: since PEBs are mainly formed of standard sections and connections, design time is significantly reduced.
Delivery	Average 20 to 26 weeks.	Average 6 to 8 weeks.
Erection Cost and Time	Conventional steel buildings are 20% more expensive than PEB. In most of the cases, the erection cost and time are not estimated accurately.	Both costs and time of erection are accurately known based upon extensive experience with similar buildings.
Seismic Resistance	Rigid heavy weight structures do not perform well in seismic zones.	The low-weight flexible frames offer higher resistance to seismic forces.
Future Expansion	It would be difficult to obtain project records after a long period of time. It is required to contact more than one party. Involved in the project, to obtain accurate information. So, difficult & fabricated.	All project records are safely and orderly kept in electronic format indefinitely making it easy for the owner or designer to obtain a copy of his building records at any time. So, Easy & Cost Effective.
Building Accessories	Every Project requires special design for accessories and special sourcing for each item. Flashing and trims must be uniquely designed & fabricated.	Designed to fit the system with standardized and interchangeable parts, including pre-designed flashing and trims, building accessories are mass produced for economy and are available with the building.
Overall Price	Higher price per square meter.	Price per square meter may be as much as lower than conventional steel.
Safety and Responsibility	Multiple responsibility can result in question of who is responsible when components do not fit properly.	Single source of supply results in total responsibility
Performance	Components are custom designed for a specific application on a specific job. Design and detailing errors are possible when assembling diverse components into unique buildings.	All Components have been specified and designed specially to act together as a system for maximum efficiency, precise fit and peak performance in the field.



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Advantages & Applications of PEB BUILDINGS

Advantages

- ★ Architectural Versatility
- ★ Seismic Resistant
- ★ Turnkey Solutions
- ★ Consistent Superior Quality
- ★ Reduction in Project cost
- ★ Savings in Construction Time
- ★ Suitable for Varied Projects
- ★ Flexibility in Expansion
- ★ Low Maintenance
- ★ Energy Efficiency
- ★ Low Cost Construction

Applications

- ★ Warehouse
- ★ Factories
- ★ Workshops
- ★ Aircraft Hangers
- ★ Cold Storage Units
- ★ Heavy Structure Steel
- ★ Railway Stations
- ★ Airport Buildings
- ★ Buildings with Multi level Floors
- ★ Malls / Multiplexes
- ★ Light Guage Frame Structures
- ★ Indoor Stadium & Auditoriums
- ★ Hospital & Many More



**TRILOK INFRACON
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TRILOK DESIGNS YOUR BUILDINGS TO FULFILL YOUR REQUIREMENT WITH OPTIMIZATION

TIPL Design & Engineering Team designs your building with high efficiency and accuracy to fulfill your need & action plan for your building.

All buildings are designed & erected as per the American Standards & Indian Standards (IS) Codes of practice.

APPLICABLE DESIGN CODES

MBMA (Metal Building Manufacturing Association)

- In Accordance with 2006 edition of low rise building solution
- Wind load IS-875(Part-III)-1987
- Earthquake load IS-1893 (Part-II)-2002
- Hot rolled and built-up manual of steel construction, 9th edition of AISC.
- Cold Form 1996 edition of AISI.
- Welding- Structural Steel Welding Code of American Welding Society (QWS.D1.98)

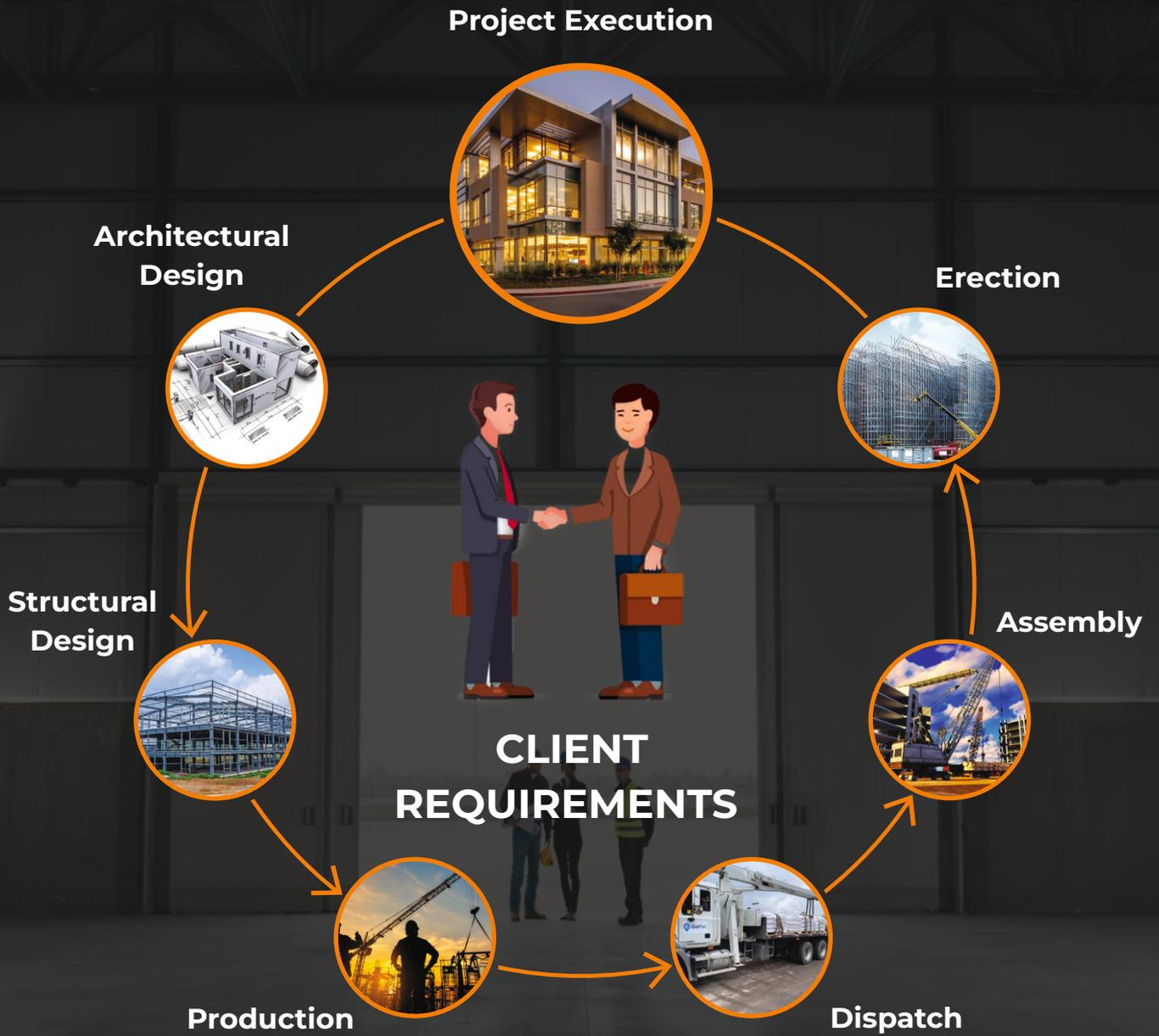
BIS (Bureau of Indian Standard)

- Design Dead Load IS-875 (Part-I)-1987
- Design Imposed Load IS-875 (Part-II)-1987
- Design Wind Load IS-875 (Part-III)-1987
- Earthquake resistance IS-1983 (Part-I)-2002
- Design of hot Rolled built-up IS-800 (1984 & 2007)
- Tapered built-up 9th edition of AISC.
- Cold Form IS-801 (1975)
- Welding- (AWS d1. 1. 98), IS-816 (1969)

Trilok uses modern design software like : Staadpro, MBS and drafting softwares like Auto cad, Tekla, Bocad, etc.



Client's REQUIREMENT



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Client's Requirement | 9

Building Service Construction BEST SAFETY LIVING



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Enquiry to Project DELIVERY PROCESS

WEEK #1

- Order Finalisation Phase
- TIPL representative meets the customer / consultant and takes a briefing on project requirements.
 - A detailed proposal along with is submitted to customer
 - Finalisation of all technical / commercial matters and signing of contract

WEEK #3

- Approval Phase
- Designs are submitted by TIPL for customer's approval
 - Customer confirms the building dimension and accessorise location by signing the approval drawing "Approved as it is" or "Approved with comments"

WEEK #8

- Detailing & Manufacturing Phase
- TIPL releases Anchor Bolt Plan with column reaction for construction and supply anchor bolts.
 - TIPL will make schedules in Engineering & Production according to contractual delivery.

WEEK #12

- Shipment and Erection Phase
- TIPL will make shipment in erectable sequence.
 - Erection of the building shall be done as per Erection Drawing provided by TIPL Handing over the Building.



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TIPL Metal Roofing & WALL CLADDING

Advantages

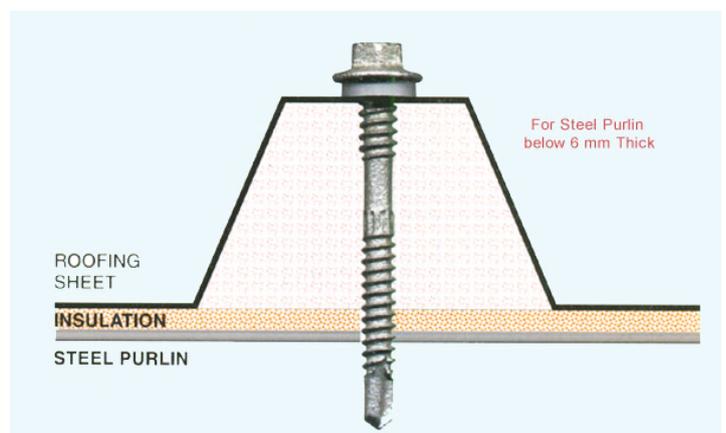
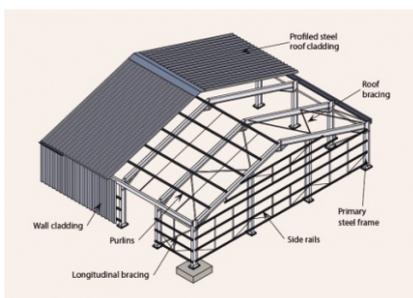
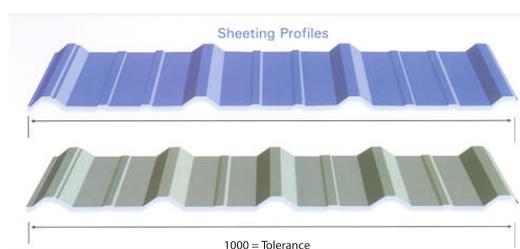
Screw down Roof System, with specially designed pans to avoid oil canning and help in easy water flow. ★

Wider coverage, which makes it economical to any available similar system. ★

Specially designed ribs, with unique anti-capillary side lap, which makes it leak proof to a roof slope of even 3 degree. ★

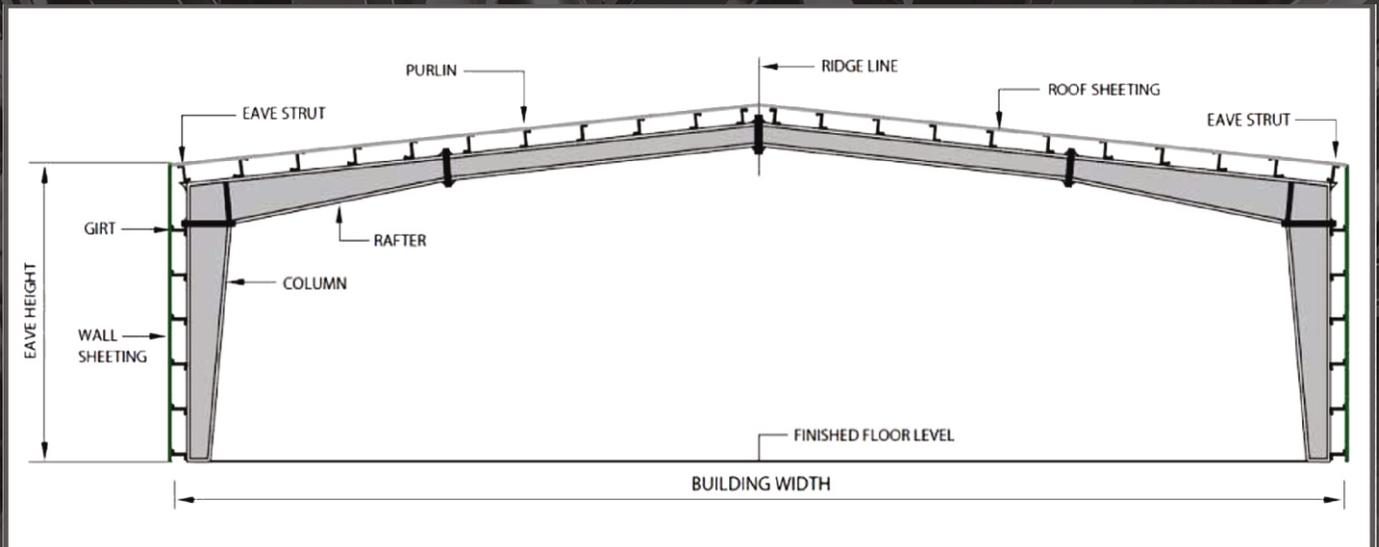
Longer spanning capability. ★

Possibility of curved roof, to give any shape to the building. ★

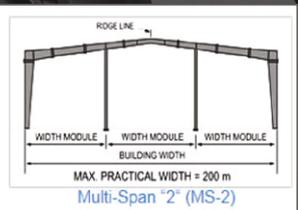
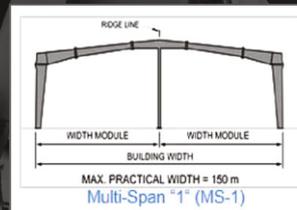
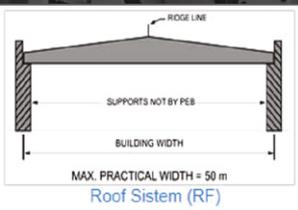
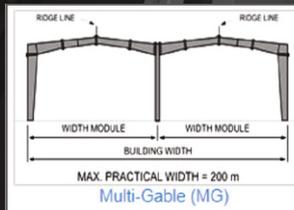
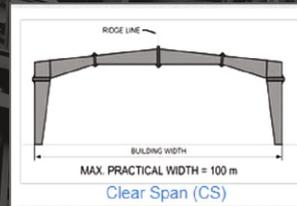
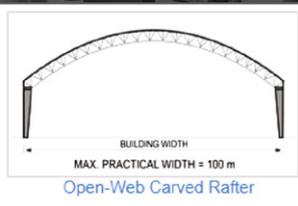
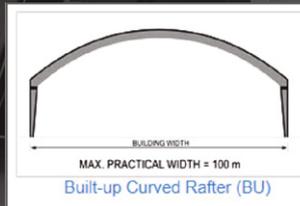


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Types of STEEL BUILDING FRAMES



TYPICAL CROSS SECTION



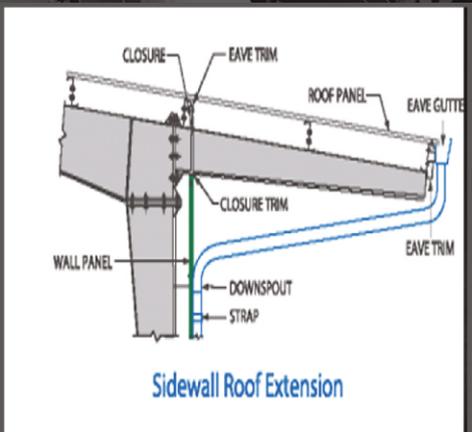
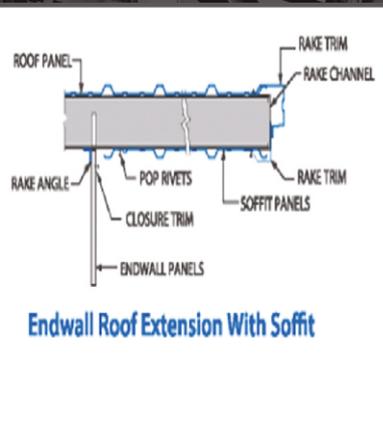
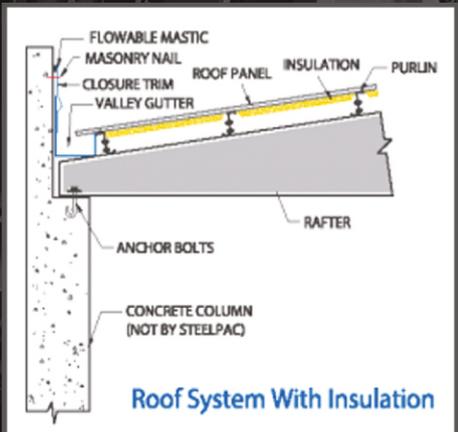
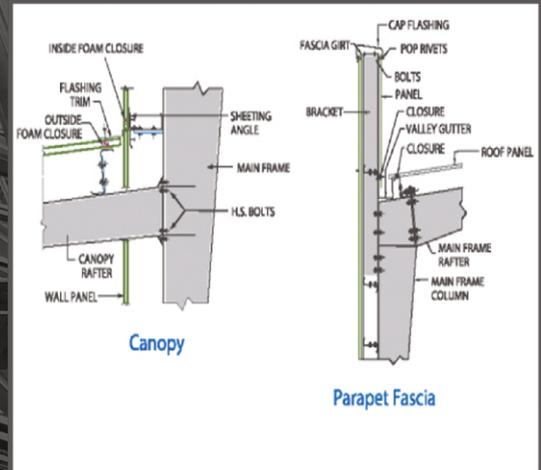
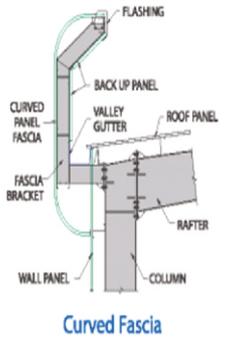
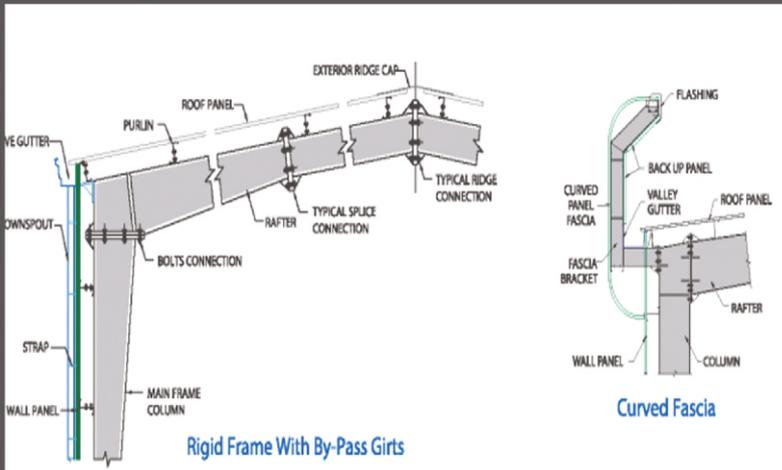
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Steel Building Frames | 13

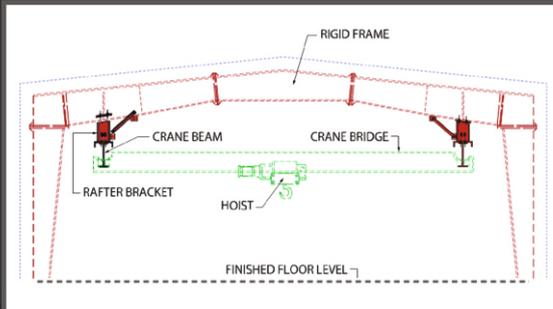
Structural DETAILS

TYPICAL CROSS SECTION

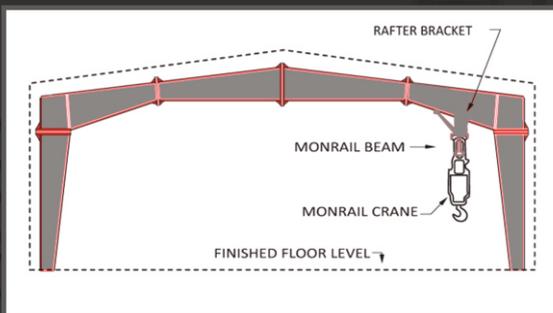


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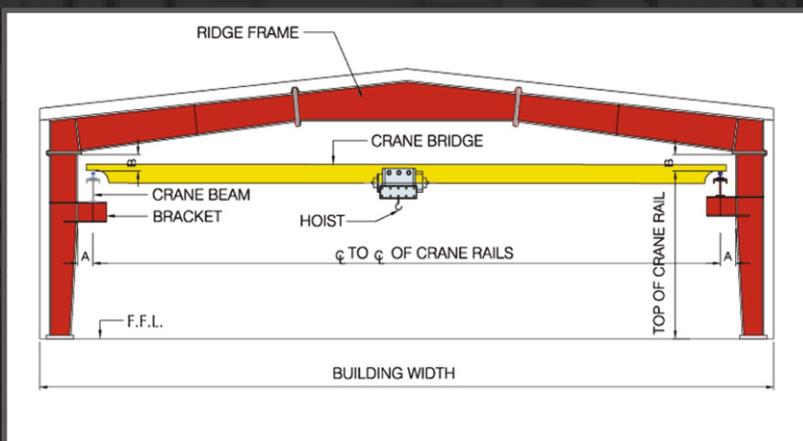
Types of Steel Building FRAMES WITH CRANES/EOT



UNDERHUNG CRANE



MONORAIL CRANE



TOP RUNNING CRANE

When a Crane system is required in a Trilok Infracon Buildings, we normally supply column or rafter brackets and the crane runway beam that support crane system . We design the crane system after understanding the complete requirements of the customers. Our Buildings can be desinged to support various cranes systems up to 300MT.

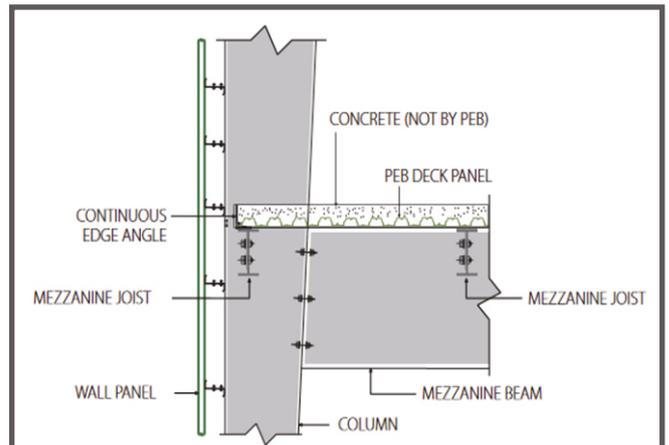
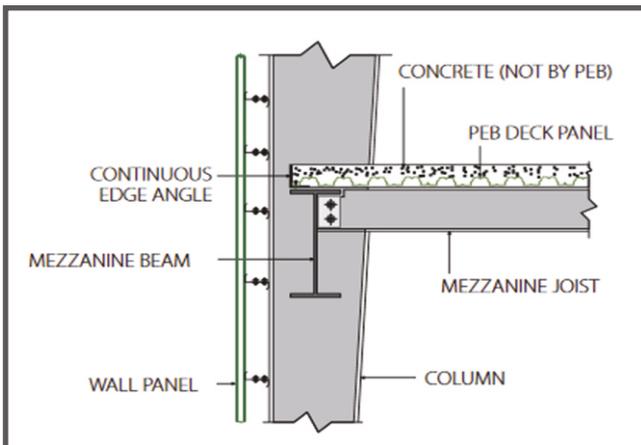


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Mezzanine Systems

Trilok Standard Mezzanines floor Systems Consists of Galvanized. Steel Decking supported by joists connected to main mezzanine beams. A reinforced concrete slab (not in TIPL scope) is cast in site on top of the steel decking. The Primary Mezzanine Beams usually run across the width of the building and the joists usually run lengthwise (parallel to the roof purlins). The economy of a Mezzanine system depends on the the applied loads such as Dead load, Live load and Collateral load.



Advantages

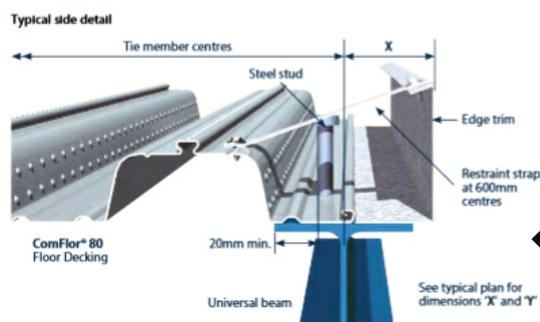
- ★ Down on Slab thickness and dead weight of buildings
- ★ Tensile steel for composite slab construction that's cut
- ★ Reduce Construction Time
- ★ No Separate frame work required for slab casting

Applications

- ★ High Rise Buildings
- ★ Commercial Buildings/Malls/Multiplex
- ★ Office Buildings
- ★ Power plant buildings
- ★ Industrial Buildings with office block
- ★ Warehouse with office block

Steel Decking Sheet

Steel Deck is produced from galvanized & color coated galvanized steel produced to IS:227, IS: 14246, AS: 1397-G- 300-Z275 In the thickness 0.8mm, 1mm, 1.2mm 1.6mm, 1.8mm



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Sheeting PROFILES



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Building Accessories



Roller Door and Sliding Door



Stair Case & Cage Ladder



Canopies & Fascias



**Gutters And Downspouts
(metal Gutter And Metal/
Upvc Downspouts)**



Personal Door



**Day Light Panels
(polycarbonate/frp Sheet)**



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Insulation Materials & OTHER BUYOUT ITEMS



Rock & Glass
Wool Insulation



Bubble Wrap
Insulation



Self Drilling
Screws



PUF Panel
For Wall



PUF Panel
For Roof



Sealants

VENTILATION ACCESSORIES



Industrial
Louvers



Continuous
Louvers



Turbo
Ventilators



Roof
Monitor



Ridge Ventilator



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Introduction to Light GAUGE FRAMING SYSTEMS

ABOUT

Trilok infracon provides its clients with world's leading solution for light gauge framing systems (LGFS) framed building construction. We provide our clients with a complete solution from design, production, to building erection, incorporating cutting edge design software, with of the art roll-forming hardware.

LGFS construction system is a pre-fabricated quick built dry construction system. Compared to other traditional construction system, LGFS Building system provides greater efficiency in terms of speed, quality, and cost, usually for large scale projects, LGFS Construction can reduce project time by 50% and the overall project material by 30%.

ADVANTAGES

- > Steel has the highest strength-to-weight ratio of any building material
- > Non-combustible-does not burn or contribute fuel to the spread of a fire
- > inorganic-will not rot, wrap, split, crack or creep
- > Dimensionally stable-does not expand or contract with moisture content
- > Consistent material quality-produced in strict accordance with national standards, no regional variations
- > Low Labour cost
- > Sustainable "Green Building"- 100% Recyclable
- > Speedier technology
- > Affordable and long lasting
- > Does not require heavy concrete foundation as construction is light
- > Escalation of price dose not affect much as construction is fast
- > Suitable for extreme climates as structure is fully insulated



At Trilok Infracon (I) Pvt Ltd, We offer you:

- > A proven, highly durable modular building system that is 100% environmentally friendly.
- > Delivery on time and on budget, in up to half the time of traditional construction
- > High quality construction ensured by a zero tolerance manufacturing process.
- > The most sustainable and energy efficient buildings.
- > Unequalled design flexibility made possible by a wide range of cladding, roofing and glazing options.
- > Flexibility through future expansion and relocation.
- > 90% less waste and minimal disruption to the site.



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APPLICATIONS

LGFS construction is becoming increasingly common in low (single storey) to medium rise building (two to Three storeys), especially in residential homes, apartments and commercial buildings. It has several applications in developing countries due to its low cost, flexibility, and quick completion

LOW-RISE RESIDENTIAL

LGFS framing deal for one or two storey structures of various complexities for nuclear or joint families. From economic housing to luxury vilas, various options are available for you to choose from.

MULTI-STOREY RESIDENTIAL

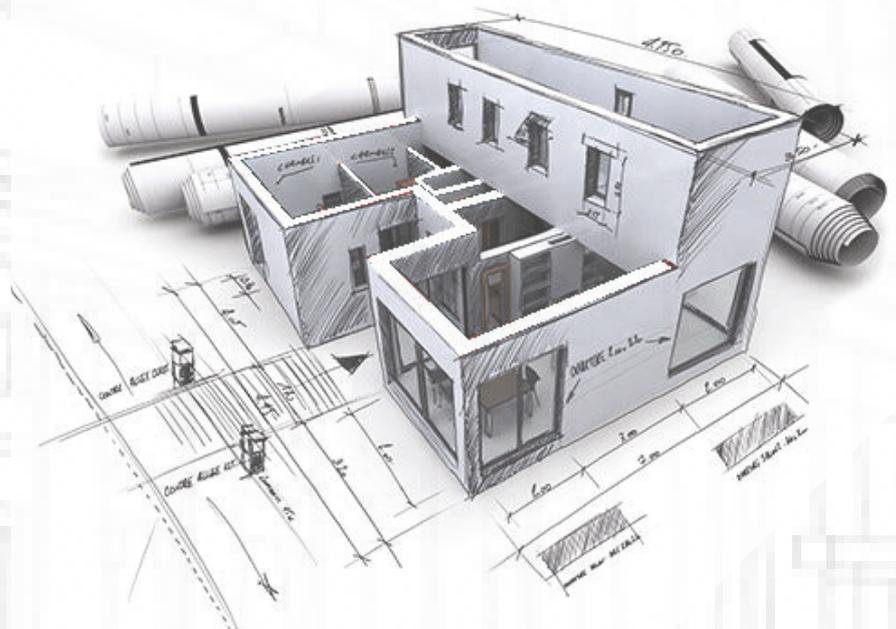
Cold-formed steel building system can be combined with composite steel/ concrete deck resting on light steel framing stud walls. The system is typically ideal for low to mid-rise construction (1 to 3 storey high building). This covers a wide range of building usage, such as apartment and office buildings, Health care facilities, schools, motels, and dormitorise

MODULAR AND INDUSTRIAL

Modular building can be used for long-term temporary permanent structures such as schools and classrooms, military and civil housing needs, post-disaster relief structures, and industrial facilities. These facility can also be used to serve remote location where costs associated with one-site construction are significantly higher or areas where labour or resources are scarce.

Trilok Infracon offers light guage steel framing for :

- > Fastest affordable housing
- > Steel Framed Houses
- > Villas
- > Social Housing
- > Steel Trusses
- > Low Rise Commercial Buildings
- > Transportable Buildings
- > Steel Framed Sheds
- > Warehouses
- > Modular Houses
- > Volume House Buildings
- > Low Cost housing
- > Factory Internal Offices
- > Mezzanine Floor in Factory
- > Internal Partition in Factory
- > Combination of PEB & LGS
- > Exposed PEB & LGS Walls
- > Hospitals
- > Training Centers
- > Primary Health Care Centers
- > Schools
- > Dormitories
- > Site Offices
- > Roof cap on RCC Houses



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We Provide the Best Protection for **YOUR BUILDING**



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Our Valued CLIENTS



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Our Valued Clients | 23

Our PROJECTS



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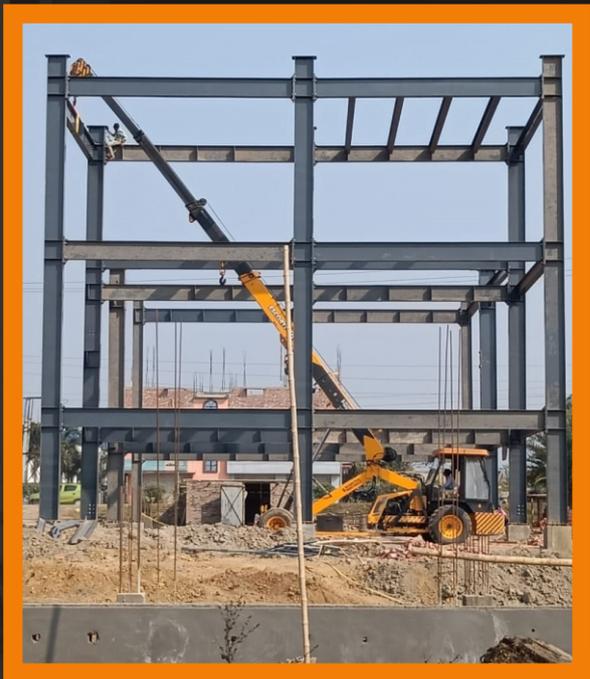
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-  Corporate Office
-  Manufacturing Unit
-  Our Presence



Corporate Address :

3rd Floor, Sharda Complex, Sevoke Road,
Siliguri-734001, West Bengal

Office No. 410- PRK
Maple, above Axis bank,
near rau-bypass circle,
AB road, Rau, Indore(MP)
453331

Model House,
40 Strand Road,
Kolkata, West Bengal
700001

Unit No. 308, 3rd floor,
Tower E, Bhutani Alphatum,
Plot no. 1, sector 90,
Noida(UP) 201305

Manufacturing Unit :

G-21, Site - V, Surajpur Industrial Area, Kasna,
Greater Noida, Uttar Pradesh - 201305

Ph :+91 94340 44609 | +91 80160 00206 | +91 94340 45947
0353-2640392 | 2640061 | 2640280

Email : info@trilokinfra.com | Website : www.trilokinfra.com

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