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**WHAT WE DO**

MGI Infra uses an advanced, technological breakthrough solution for the design and construction of complex fast-track modular buildings. Featuring structural light steel framing (LSF) materials in lieu of traditional building materials, MGI is the new generation alternative to conventional building construction. Our steel framed buildings are delivered on time and on budget, in up to half the time of traditional construction. With benefits such as superior quality, enhanced energy efficiency, design flexibility and improved site safety, the MGI building system is the perfect solution for service providers today.

**HOW WE BUILD**

The MGI building process begins with a detailed computer model of your building, which is engineered and virtually framed with cutting-edge design software. The framing is designed and manufactured into large simplified sections, each with pre-punched holes for mechanical and electrical runs, precise window and door openings, integrated structural supports and specified sub-sheathing systems. The entire framing package is assembled within a controlled indoor production facility, delivered directly to the site, and installed by certified installation crews. We offer unparalleled design flexibility and a wide range of cladding, roofing and glazing options. This means your LSF building will look no different from a brick and mortar structure. MGI’s team of in-house architects and engineers will establish your exact needs and produce the most cost-effective design solution.

**What is the maximum span for steel truss?**

One of the biggest advantages of cold-formed steel is its high strength to weight ratio. This allows manufacturers and framers to fabricate long trusses with clear spans up to 25 meters. Steel trusses can be easily designed with clear spans up to 14 meters. Beyond that, a thicker material or boxed profile would be required along with specially designed connections. (Note: In many areas, there are transportation limitations when truss span exceeds 15 meters). For long trusses, intermediate bearing supports can also be used to reduce the size and thickness of the truss members.

**Did you Know?**

* A 30000 sqft Property can be built in just ......

**Are the same foundations and footings that are used when building in concrete suitable for construction with cold-formed steel?**

Cold-formed steel is much lighter than concrete. It weighs approximately 5 psf (0.24 kPa) while concrete ranges from 30 to 70 psf (1.45 to 3.35 kPa). In most cases, using cold-formed steel means the amount of concrete used in the foundations can be reduced. Your structural or foundation engineer should be made aware of the loads acting on the concrete so that the foundations can be designed accordingly.
How many storeys can a cold-formed steel framed building go up to?

Several 8-storey buildings have been constructed in the USA and Europe using cold-formed steel framing. The first 8-storey building in the USA built with steel framing was completed in 1999 in Seattle, Washington (a high seismic area).
Mid-rise buildings (5 or 6 levels) in cold-formed steel are also very common and many have been built around the world in the past 20 years or so.
From an engineering point of view, there is no limit on the number of storeys that can be built with cold-formed steel framing.

WHAT WE BUILD

We offer a wide range of modular building solutions:

RESIDENTIAL
From low cost accommodation and relief housing to luxury villas and resorts.

WORKFORCE & PORTABLE
Industrial or workforce accommodation, modular, portable or temporary housing and offices.

COMMERCIAL
From multi-storey office complexes and shopping malls to hotels and manufacturing facilities.

HEALTHCARE
150 bedded hospitals, trauma centres, mortuaries, specialist clinics, aseptic suites, etc

TRUSSES
Improve quality and reduce cost, waste and weight by using light steel roof trusses.
EXPEDITIOUS CONSTRUCTION
Time taken for construction can be reduced by up to 50% using modular building techniques, which translates into an earlier return on your investment.

SUPERIOR QUALITY

No Expansion. No Contraction
Our steel sections are of high quality ensured by a zero tolerance manufacturing process. Structural steel studs, floor joists and roof trusses do not expand or contract, shrink, warp or twist over time. This reduces the risk of drywall damage, nail pops, jamming of doors, sagging roof lines or the formation of gaps leading to costly energy loss.

Greater Durability
Steel framing is unaffected by temperature and humidity changes, making your building more stable and durable. There is no need to wait for the structure to shrink or settle as with traditional building methods.

What are the applications of cold-formed steel (CFS)?

Cold Formed Steel shapes can be used for roof systems, floor systems, wall systems, roof panels, decks, or entire buildings. They can also be used as individual framing members such as studs, joists, headers, and truss members. Cold Formed Steel members can also serve as both primary structures and secondary structures. An example of the Cold Formed Steel used as primary structures is the MGI webbed trusses. Steel studs can also act as secondary structures by providing lateral support to exterior wall finish since they rely on the primary structure for support.

Builds faster... lasts longer

What is the difference between hot-rolled steel and cold-formed steel?

There are many differences between the two materials:
Cold-formed steel (CFS) is typically limited to light thicknesses (up to 3.00 mm) while hot rolled steel can be manufactured to any desired thickness.
CFS shapes are different than hot rolled shapes and endless geometrical shapes can be produced.
CFS is manufactured at room temperature while hot rolled steel is made at elevated temperatures.
CFS lightweight makes it easier and more economical to mass-produce, transport and install.

In the design of hot-rolled steel shapes, the primarily concern is column buckling and lateral buckling of unbraced beams. The dimensions of hot-rolled shapes are such that local buckling of individual elements generally will not occur before yielding. In the case of CFS local buckling must also be considered because, in most cases, the material used is thin relative to its width. This means that the individual flat, or plate, elements of the section often have width to thickness ratios that will permit buckling at stresses well below the yield point.

LIGHT STEEL IS GREEN

ANSI ICC 700-2008 NAHB
National Green Building Standard

Total points available with steel components - 47

601.2 Advanced framing Techniques - 9 points max
601.5 Pre-assembled Components - 12 points
602.2 Roof Overhangs - 4 points
604.1 Recycled Content - 6 points max
605.1 Construction Waste Management Plan - 6 points
606.3 Manufactured Energy - 2 points
607.1 Products Using Fewer Materials - 6 points
608.1 Indigenous Materials - 2 points

Refer to NAHB Green Supplement for expanded credit lanaguage.
FAQ'S

Is a steel framed house safe in lightning storms?
Yes. Steel provides a safe path for lightning to travel directly to the ground with less resistance that can cause damage or a fire. Therefore, steel offers more protection than a conventional building.

Will steel framing rust?
No. Structural light steel framing members are coated with an enhanced zinc and aluminum coating, which protects the steel from corrosion.

Can I hang pictures on a steel framed wall?
Yes. Pictures can be hung from the drywall and heavier objects can be hung with self-tapping screws directly to the steel stud. Fasteners are available at any hardware store.

Will steel framing interfere with radio, television or cell phone reception?
No. Waves pass through the space between the studs, as with conventionally built homes.

Will a steel framed building look different than others?
No. A steel framed building or home is 100% compatible with all standard building finishes. We will finish your home with the exact interior and exterior finishes you would use for a traditionally constructed home/building.

ENVIRONMENTALLY RESPONSIBLE

Steel is Recycled
Steel is 100% recyclable and hence it does not contribute to depletion of resources or degradation of the environment.

Ozone-Friendly Materials
Up to 68% less energy is required to erect a modular building as compared to a traditionally built structure. The insulation used in the walls, roof and floor is made of ozone-friendly materials that have minimum impact on the environment.

Less Waste, Less Pollutants
Light steel reduces waste and subsequently lowers waste disposal and removal costs. Each component is manufactured to exact lengths. Any waste generated is recycled in the production centre. Furthermore, there are upto 90% fewer vehicle movements to and from the site. Noise and dust levels on the site are also minimized.

www.mgiinfra.com
BUILDING STANDARDS
MGI Infra is a pioneer in Light Steel Framing (LSF) technology in India with a vast team of construction professionals & skilled workers. Our promise is exceptional quality and timely delivery within a fixed budget.

MGI Infra Pvt. Ltd. is an ISO9001:2000 company. Our light steel buildings are designed using internationally recognized specifications.

The most widely used ones are:
- AISI S100 North American Specification for the Design of Cold Formed Steel Structural Members published by the American Iron and Steel Institute (AISI) in the United States.
- AS/NZS 4600 Australian/New Zealand Standard-Cold-formed steel structures jointly published by Standards Australia and Standards New Zealand.
- BS 5950-5 Structural use of steelwork in building-Part 5. Code of practice for design of cold formed thin gauge sections published by BSI in the UK.
- Eurocode 3: Design of steel structures; Part 1.3: General rules, Supplementary rules for cold-formed thin gauge members.

Our buildings also comply with the Indian Standard Code IS875:1987

UNIQUE BENEFITS:

Corrosion Resistant
MGI uses high quality steel products that are coated with ‘Galvalume’, preserving the steel's strength by protecting it from corrosion.

Higher Wind Resistance
LSF structures are manufactured to very high tolerances, and can be engineered to withstand extreme loads such as 3 feet of snow, and 240km/h winds.

Superior Seismic Performance
Steel structures are supremely robust, which means they are more resistant to seismic loads than conventional buildings and more than meet international standards for every seismic zone.

ENERGY SAVINGS

Enhanced Thermal Efficiency
Compared with conventional brickwork, our insulated walls conduct 90% less heat, ensuring that the interiors remain cool during the summer and warm during the winter. Since steel framing will not shrink or move over time, gaps or 'thermal bridges' that result in excessive air leakage will not be formed. This makes the buildings easier to heat or cool with significantly less use of energy.