



LIGHT GAUGE STEEL BUILDINGS





Dalal Steel Industries, established in 1984, is one of the leading manufacturers of Steel Structures in Lebanon, Middle East, and Africa.

We are a design-build firm that specialize in products such as:

- Steel Buildings
- Prefab Houses
- Shelters
- Containers
- Covering Panels
- Sandwich Panels
- Steel Stairs
- Steel Doors
- Shelving Racks
- Cranes
- Water Heaters
- Architectural Metal Facades
- Light Gauge Steel Framing



Today we are introducing a new line of building called Light Gauge Steel Housing.

Light Gauge Steel Framing has come to the forefront as one of the best and most feasible alternative building materials for residential and commercial construction. It consists of a structure made up of profiled galvanized steel studs, tracks, and floor/roof trusses.

Completed with thermal barrier insulated walls, ceiling and floor systems, insulated doors, and double glazed windows, minimizing the dissipation of thermal energy. The housing may be further coupled with solar panels, to provide a complete energy efficient residential home.



There are many benefits to building with steel as opposed to other traditional building materials such as concrete or wood.



General Benefits



- Cost-effective.
- Shorter and predictable construction schedule.
- Highest strength-to-weight ratio of any building material.
- Non-combustible - does not burn nor contribute fuel to the spread of a fire.
- Inorganic - will not rot, warp, 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.

Benefits to the Builder

- Lighter than other framing materials.
- Saves job-site time with ease of panelization off-site. (OR can take machine for site fabrication if big quantity)
- Installed with basic hand tools.
- Straight walls and square corners.
- Less scrap and waste (2% for steel vs. 20% for lumber).



Benefits to the Consumer

- High strength results in safer structures, less maintenance and slower aging of structure.
- Fire safety - doesn't burn or add fuel to the spread of a house fire.
- Not vulnerable to termites.
- Not vulnerable to any type of fungi or organism, including mold.
- Less probability of foundation problems - less weight results in less movement.
- Less probability of damage in an earthquake.
- Lighter structure with stronger connections results in less seismic force.
- Less probability of damage in high winds.
- Stronger connections, screwed versus nailed.

Benefits to the Environment



- Steel is 100% recyclable.
- Steel framing contents contain at least 25% of recycled steel.
- Steel can be reused – System can be disassembled and reassembled
- Steel is LEED Certified
- System is coupled with thermal barrier insulating materials
- System is coupled with solar panels.



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We may provide a turnkey solution in the following way:

- Dalal Steel has set plans and designs with multiple finishing to choose from.
 - Dalal Steel has set plans and designs in collaboration with respected Architects to choose from.
 - Custom design available (at additional fee)
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- Cost Effective & Fast Building Process
 - Strong and Design-Flexible
 - Durable and Safe
 - Environmentally Friendly
- Fire Resistant
 - Earthquake Resistant
 - No Lightning Risks



www.dalalsteel.com