

Designed for a more efficient build.

DESIGN / MANUFACTURE / SUPPLY



Architectural concept visualisation

Lightweight steel framing Endless possibilities

BitFrame is committed to delivering innovative alternative building solutions designed for the growing demands of the African market. Our lightweight steel framing systems support sustainable development while providing modern, durable, and efficient construction solutions.

Our Commitment

- Quality manufacturing
- Sustainable building practices
- Fast project delivery
- Reliable structural performance

START YOUR PROJECT

bitframe.co.za

Share your application, drawings
and project location.

+27 72 298 3377

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370 Main Reef Road
Johannesburg, Gauteng
South Africa



SCAN TO VISIT

01 / THE LSF ADVANTAGE

Precision on site. Possibility in design.

Four practical reasons to consider lightweight steel framing for your next build.

01 Precision from the start

Frames manufactured to planned dimensions support accurate fit, consistent alignment and coordinated assembly.

02 A more streamlined build

Off-site manufacture can reduce site fabrication and shorten assembly. Coordinated design, delivery and site readiness make the difference.

03 Lightweight. Engineered to perform.

Practical handling with strength designed for the application. Loads, connections and foundations remain project-specific engineering decisions.

04 Make more of your materials

The most advanced, complete solution for the design and fabrication of lightweight steel frame buildings for residential, multi-storey blocks, commercial and retail applications.



Architectural concept visualisation

Built for diverse applications

BitFrame lightweight steel framing systems are ideal for:

- Residential housing
- Affordable housing developments
- Schools and educational facilities
- Clinics and healthcare buildings
- Commercial buildings
- Eco estates
- Modular buildings
- Government Infrastructure Projects

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Lightweight Steel Frame (LSF) Roof Trusses



Lightweight steel roof truss - photograph supplied by BitFrame.

Lightweight Steel Frame (LSF) roof trusses are prefabricated structural components manufactured from **cold-formed galvanised/ZAM steel sections**. They provide a strong, lightweight and durable alternative to conventional timber roof trusses and are particularly suited to residential, commercial, industrial and modular construction.

LSF trusses are **engineered and manufactured to suit the specific roof design**, including the building span, roof pitch, imposed loads, wind loads and selected roof covering. The trusses are typically manufactured using high-strength galvanised steel, providing excellent dimensional stability and resistance to termites, rot and moisture-related deterioration.

Concrete roof tiles or sheeting / Flat-packed supply for site assembly

Each roof-truss design is signed off by a qualified independent engineer.

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03 / BUILDING WITH THE FUTURE IN MIND

Building Smarter for a Sustainable Future

Sustainable Construction

Lightweight steel framing reduces construction waste, lowers water consumption, and minimizes environmental impact. Steel is 100% recyclable, making it one of the most sustainable building materials available today.

Faster Project Delivery

Factory-precision manufacturing allows for rapid on-site assembly, helping projects finish faster with reduced labour costs and minimal site disruption.

Energy Efficient Buildings

LSF systems integrate easily with modern insulation solutions, improving thermal performance and reducing long-term energy consumption for homes, schools, offices, and commercial buildings.

Strong and Durable

Engineered galvanized steel provides exceptional structural strength while resisting termites, warping, rot, and moisture damage - ensuring long-lasting building performance.

Cost-Effective Solutions

Reduced construction time, lower maintenance requirements, and efficient material usage help lower overall project costs while maintaining high-quality standards.

Let's discuss your next project.
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