



Building With A Green Attitude



# Steel Frame Warehouse (Pty)Ltd

Managing Director has been involved in the built environment since 1982 servicing and marketing in the built environment  
17 Years of which have been dedicated to Alternative Building Technologies

From Developing New Products | Product Concept Development | Specification | New Product Implementation On Site  
Meeting and Exceeding Building Code Requirements

Specialised Sub Contract Works | Prestigious Building Contracts

Sales| Marketing of Capital Equipment - Steel Roll Forming Coupled with Dedicated Software Systems  
Designing and Commissioning of Roll Forming Plants Internationally and Locally

Winning Awards For High Performance Buildings in Collaboration with Architects Engineers and Main Building Contractors

- **Steel Frame Warehouse A Complete Service Offering**
- **Property Development | Building Typology | Building Concepts**
- **Development Of Roll Forming Manufacturing Plants**
- **Manufacturing Lightweight Steel Frame + Modular Building Systems**
- **Development Of Building Partners(Builders ) | Business Incubation | Transfer Of Building Know –How**
- **Support of the Building Partner Development Structure**
- **Procurement and Supply Of Allied Materials Required for a Complete Building Turn Key Operation**
- **Complete Business Development + Building Project Management**
- **Specialised Building Contractor Works**

**Building With A Green Attitude**



## Stage 4



- Building Partner Development
- Support Services | Know How
- Steel Frame Material Supply
- Allied Material Supply
- Building Compliances
- Skills Transfer

## Stage 3

- Manufacture
- Floor Systems
- Floor Joists
- Envelope Walls
- Girders
- Internal Walls
- Roof Truss
- Purlins
- Roof Covering + Trims | Flashings
- Aluminium + Glass Solutions

## Service Offering

## Stage 1

- Consultation
- Building Concept + Typology
- Feasibility + Costings + Viability
- Collaboration Architects | Engineers
- Design Detailing + Specification
- Renders + Building Methodology Pack
- Bill Of Quantities
- Contract Documents | Adjudication
- Building Partner Selection

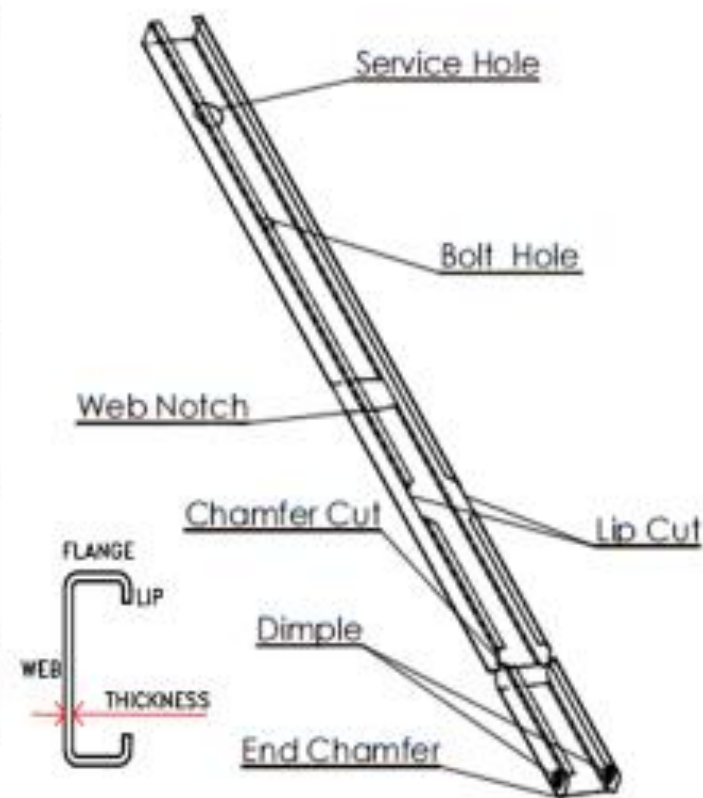
## Stage 2

- Procurement
- Forecasting
- Project Specific
- Design Detailing
- Fabrication File
- Part Components
- Material Requirement
- Preparation For Manufacture
- Preparation For Assembly



# Lightweight Steel Frame Roll Forming Services 89mm Web | 150mm Web

Gauge Thickness 0.80mm | 1.00mm | 1.2mm Gauge Galvanised Steel G550 Z200 | Z275  
Frame Pre Assembly Services



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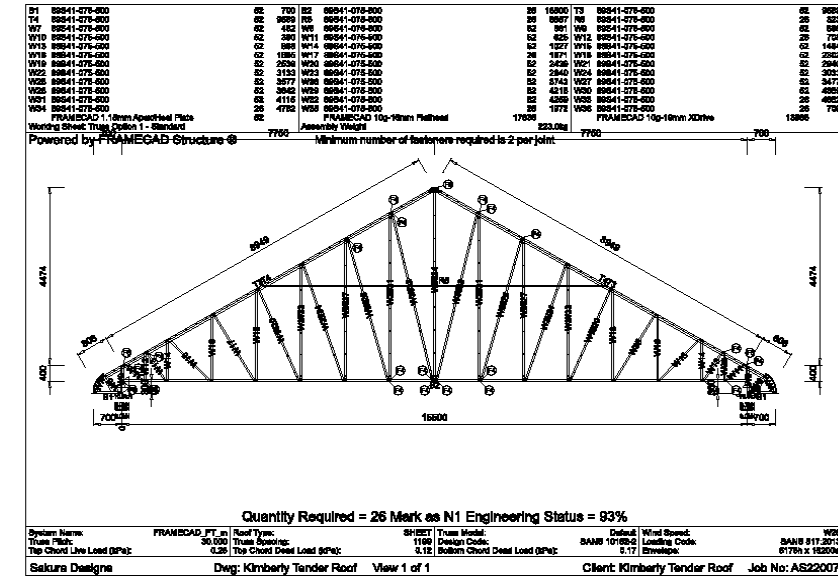
**Pre -Engineered Structures**  
**Computer Aided Roll Forming Technology**  
**Fast Track**  
**Accurate**  
**Ease Of Construction**  
**Lightweight Steel Frames**



Design Engineering and Manufacturing  
Roof Truss  
Purlins  
Snaplock Roof Coverings and Flashings  
Fast-Track Light Weight Roofing Systems



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Kimberley Northern Cape





## Snap Lock Aluzinc Standing Seam Roof Sheeting and Wall Cladding



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## Syndication Of Material Supply | Best Price | Stock Forecasting | Supply Relationships



### FRAMECAD® GALVANISED STEEL GRADE 500

FRAMECAD® Steel has a durability of 50 years for Framing Construction when used and maintained in accordance with FRAMECAD® guidelines.

Formulated and developed specifically for FRAMECAD® Light Gauge Steel framing solutions.

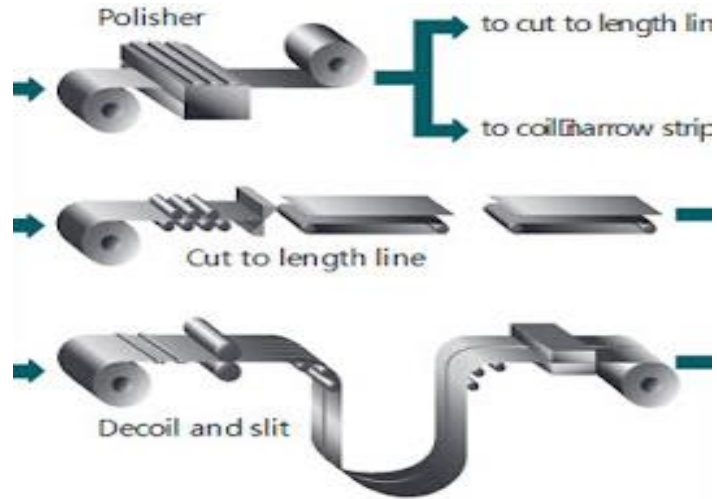
- AS 1397 G500 Z275
- EN10326 S500GD + Z275
- ASTM A653 SS Grade 70 / G90





## Procurement Process

Steel Coil Suppliers + Forecasting



Converted to Slit Coils

150mm web Yield 625 I/m  
89mm web Yield 909I/m  
Roof Sheeting Snaplock Yield 571 I/m

Transport

25 Tons On Average



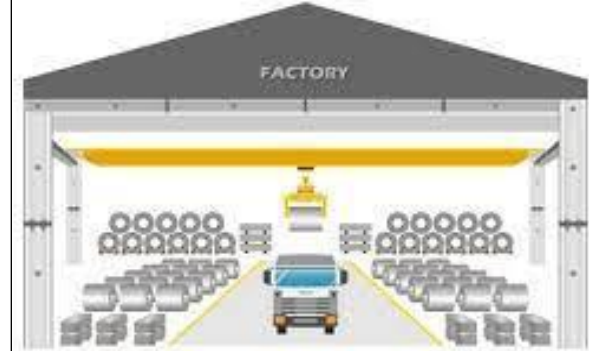
Transport

Handling



Handling Forklift

Warehousing and  
Distribution To Assembly  
Plants



1000m2 Facility  
Warehouse and Roll  
Forming and Assembly  
Plant

Warehouse Rental  
Or  
Build From Roll Forming  
Equipment

## Manufacturing Process

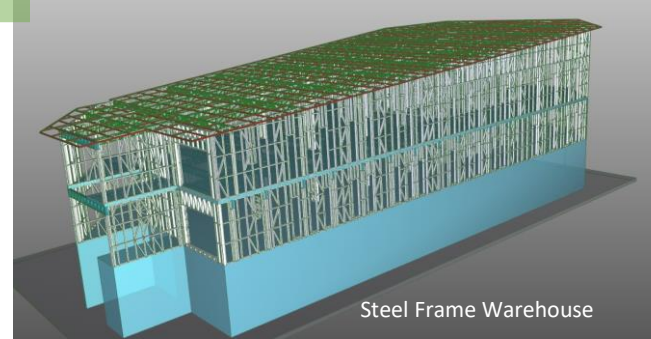


Cold Rolled Steel Profiles

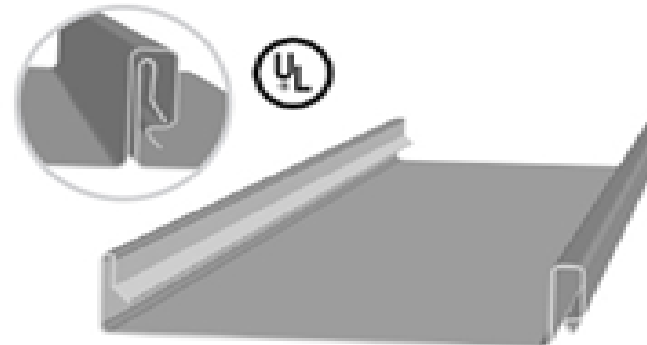
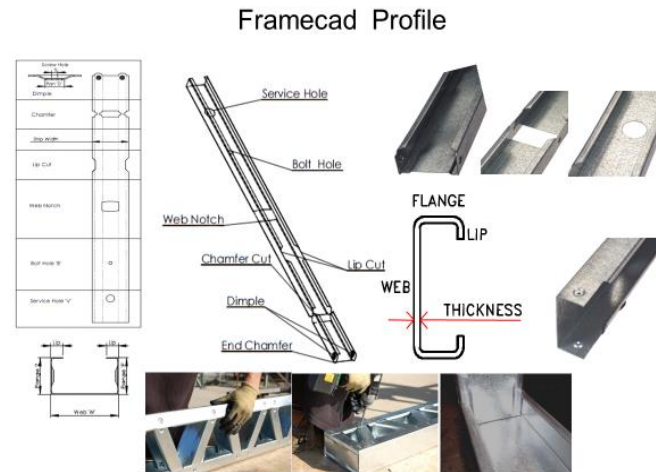


Cold Rolled Roof Sheet

## Design Pre Engineering Pre Fabrication File



Steel Frame Warehouse



## Beneficiated Products 15mm + 89mm Roll Former

- Roof Truss
  - Envelope Walls
  - Internal Walls
  - Floor Joists
  - Girders
  - Columns
  - Load Bearing Webs
- 
- Roof Sheet Snaplock
  - Concealed Ridge System
  - Wall Cladding
  - Bend Brake Machine
  - Guillotine
  - Facia Systems
  - Barg Systems
  - Ridge Cappings
  - External and Internal Corners





Mega Roll Forming Plant To Service Geographic Region  
Steel Coils



Framecad Roll Forming Equipment



Flat Pack Sent To Assembly Points  
Or Assemble Modular Systems eg Roof Truss



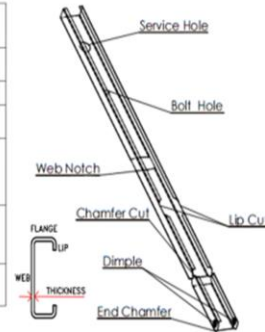
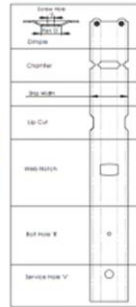
Pre Assembled Frames



# Mega Manufacturing Plant + Distribution Service Centre

Lightweight Steel Frame Roll Forming Services 89mm Web | 150mm Web

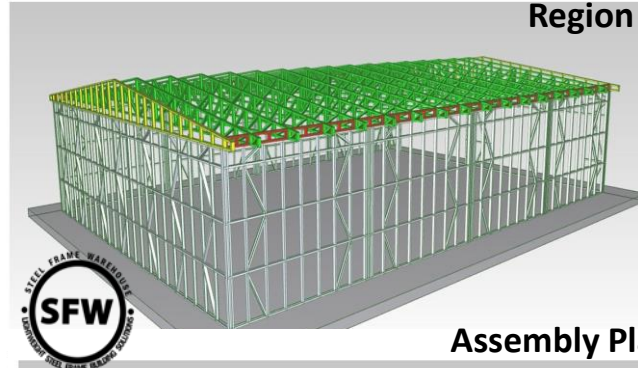
Gauge Thickness 0.80mm | 1.00mm | 1.2mm Gauge Galvanised Steel G550 Z200 | Z275  
Frame Pre Assembly Services



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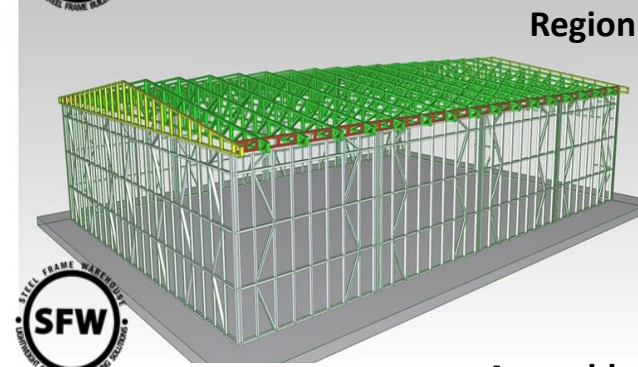
Assembly Plant 1

Region



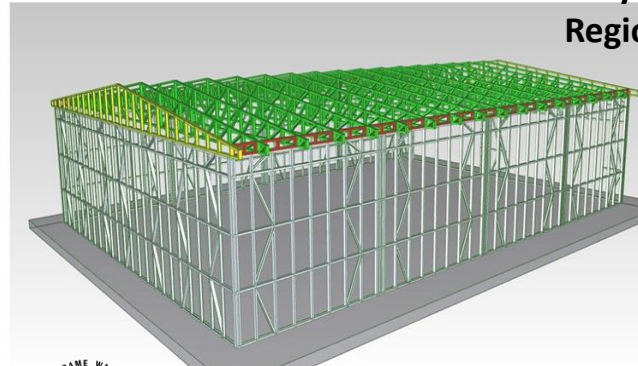
Assembly Plant 2

Region



Assembly Plant 3

Region



**Building Partner  
Employment Development  
Feed Off Assembly Plants  
Distribution Centres  
Skills Training**



## Lightweight Steel Frame Construction



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## Know- How



**Building Partners**

Focus On Skills Development  
Information and Product  
Availability  
Support Structure

# Aluminium Windows and Doors Fabricated To Size and Specification

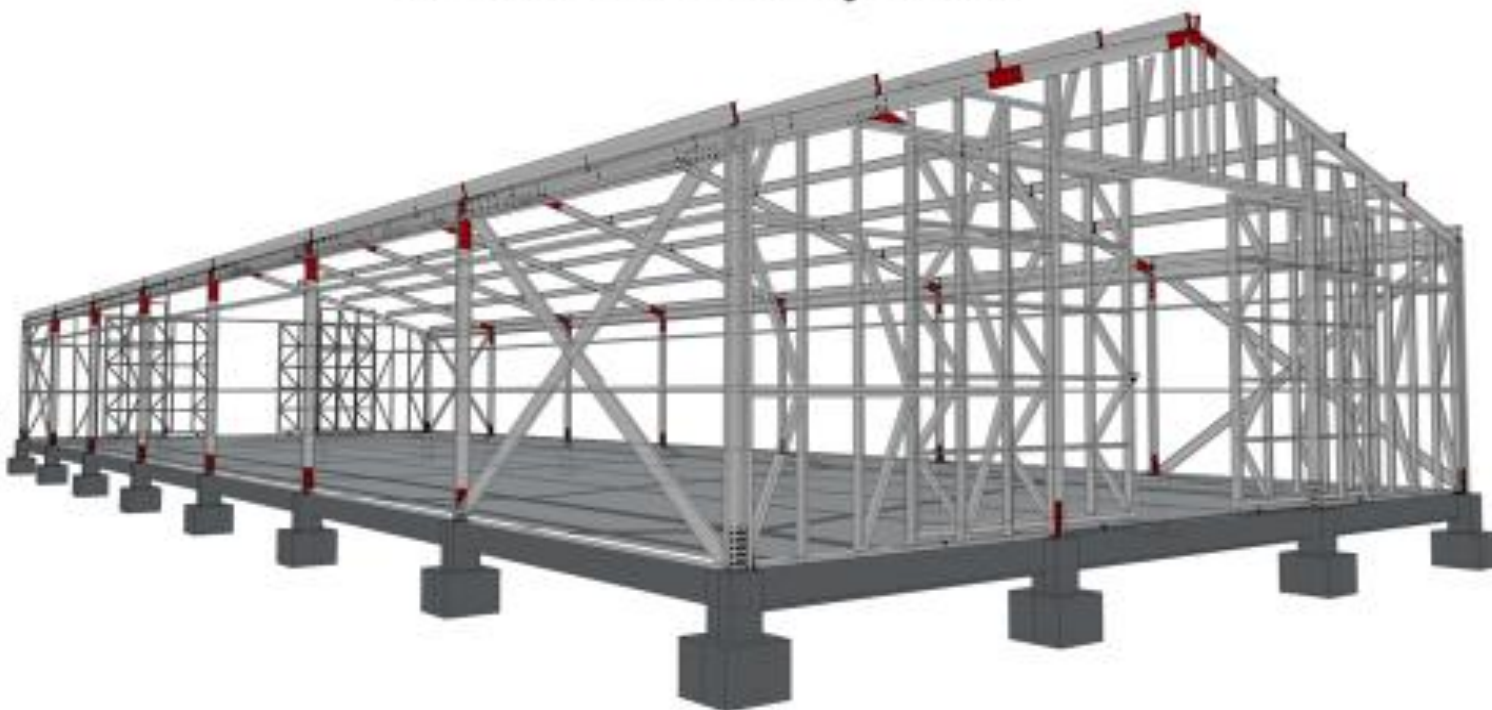


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## Building Typologies

- Multi Functional Building
- Farm Shed
- Warehouse
- Barnyard Vernacular House
- Retail Outlets – Warehouse Typology
- Fast Track and Cost Effective Construction
- 11.80m – 23.6m Roof Span –Any Length Transportable In A Container If Required
- Farm Shed Roof Covering Only
- Farm Shed Roof Covering and Partial Wall Cladding Or Full Wall Cladding
- Part Of The Cladding Roof and Walls Can Be Polycarbonate for Natural Light
- Sliding Doors
- High Tensile Steel Frame G550 Galvanising Z200 or Z275 Depending On Climate Zone
- No Painting Required | Steel Longevity
- No Crane required for Erection Of Steel Portal Frame – Light Weight Steel
- Complete Structure is Pre Engineered | Software and Local Engineer Sign Off
- Parts are Manufactured in KIT Form Ready to Erect | Part Numbered | Cut | Dimpled | Swaged
- Allied Fastening Components
- Complete Structure Can Be Packed and Transported In A Container and Exported
- Variations On Span and Length are Available on Request
- Portal Frame Bays are 4.800mm Apart Heights Can Vary From 2.4m /3.6m/4.8m/6m

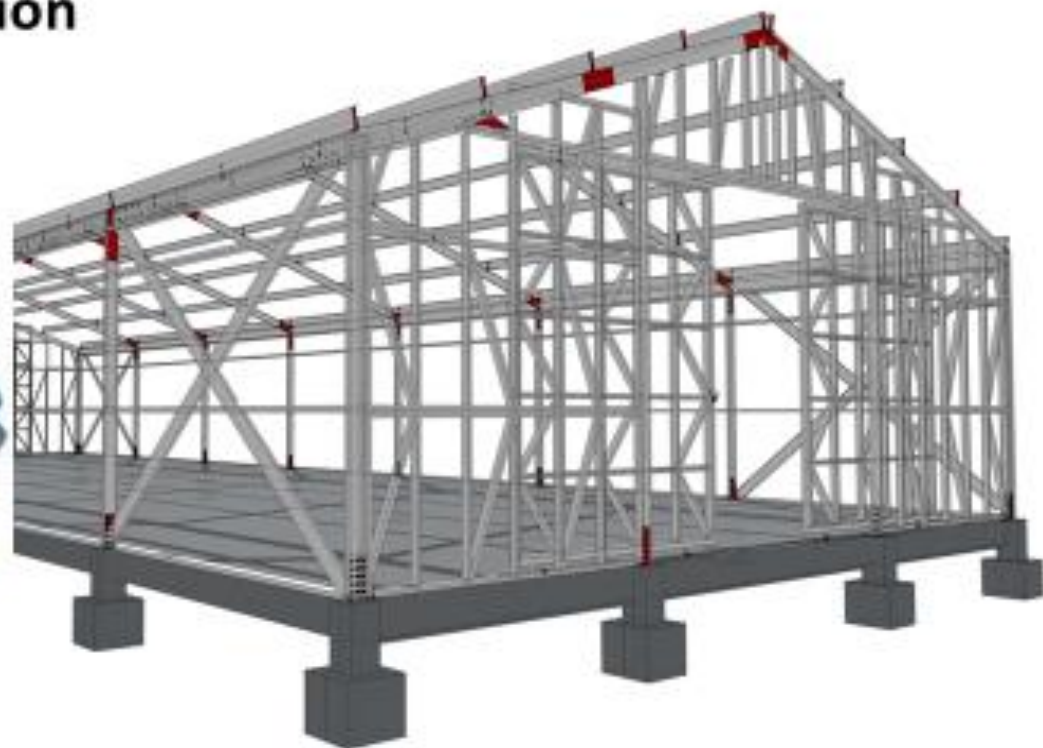
## Multi- Functional Structures Portal Frame System



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## Light Weight Steel Frame Construction



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## Light Weight Steel Frame Galvanised Portal Frame with Roof Covering and Wall Cladding



# Multi- functional Structures

Green House  
Polycarbonate Roof and Wall Cladding



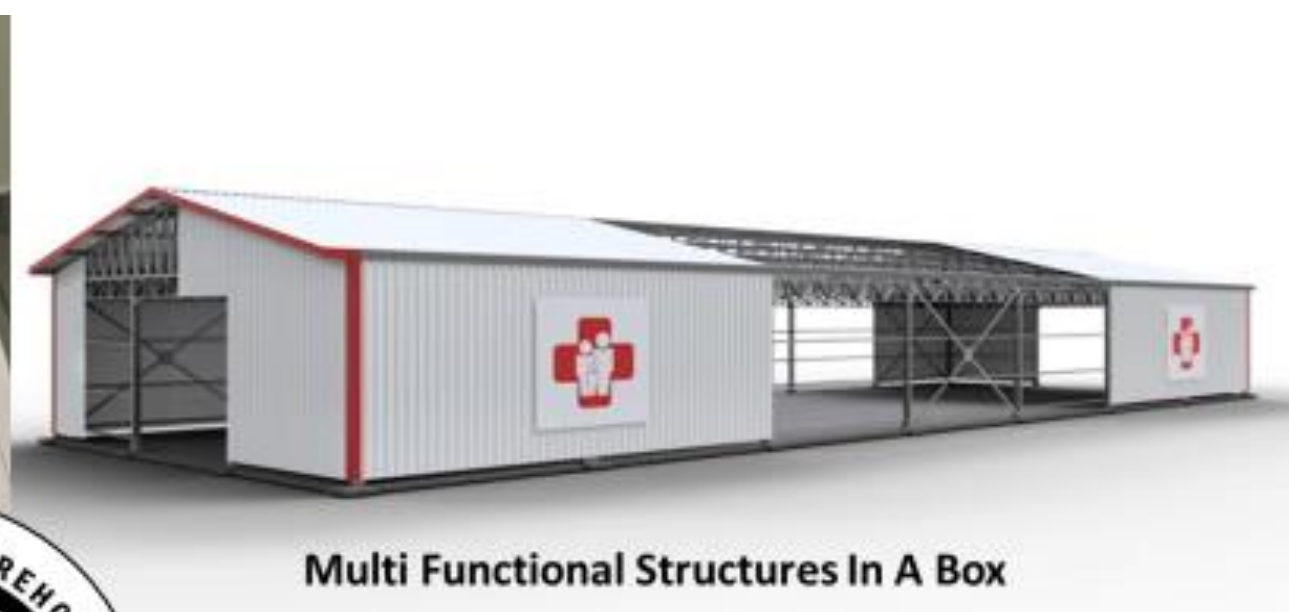
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**Field Hospitals On Demand  
11.80m x 35 +**

**Optional  
Fit into 6m or 12m Container  
Inner Lining White Thermal Panels  
Walls and Ceiling  
Cost Effective | No Cranes | Light Weight  
Pre Fabricated  
Ready to Build  
Steel Frame Warehouse Building Partners**





## Multi-functional Structures



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Green House  
Polycarbonate Roof and Wall Cladding



## Multi- Functional Structures Into Barnyard Vernacular Home



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## Steel Frame | Timber Cladding Hybridisation





**Building On Difficult Terrain  
No Problem  
With Lightweight Steel Frame**







## Lightweight Steel Frame Residential Market Drone Surveying Services





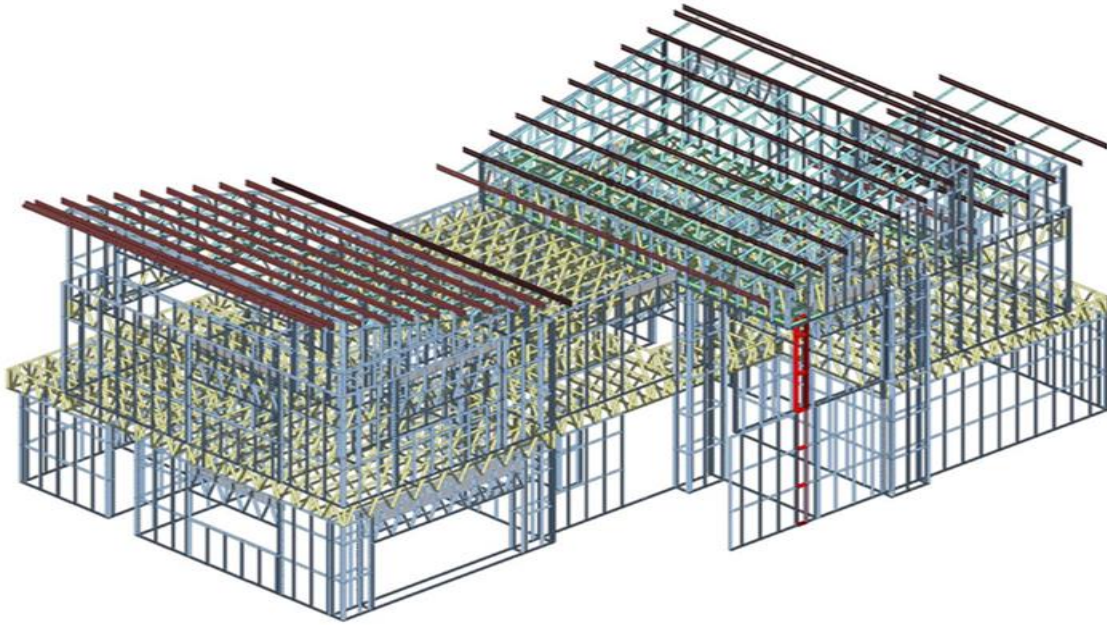


## **Light Steel Frame Solutions – Residential**

### **Residential – House Kruger**(Eye of Africa)

Steel Frame with ETICS Application

## Computer Aided Pre- Engineered Buildings





## Concept 3 D Printed Chalet Oasis Development

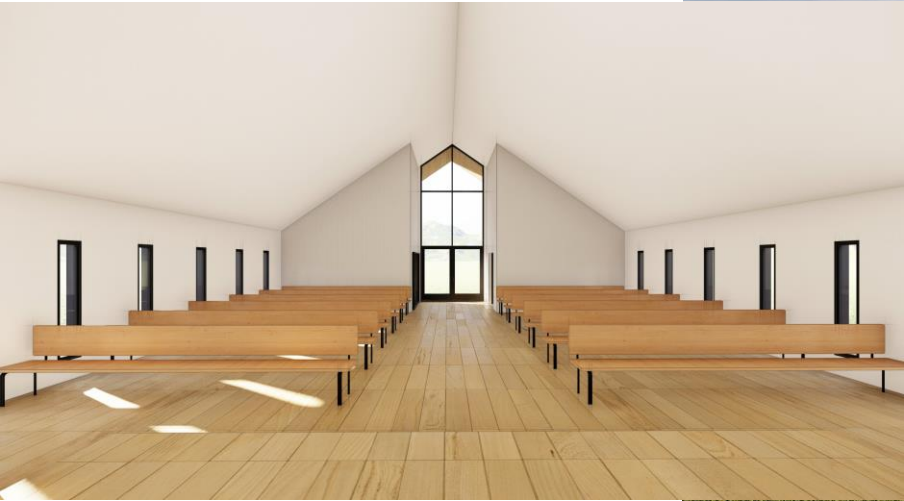
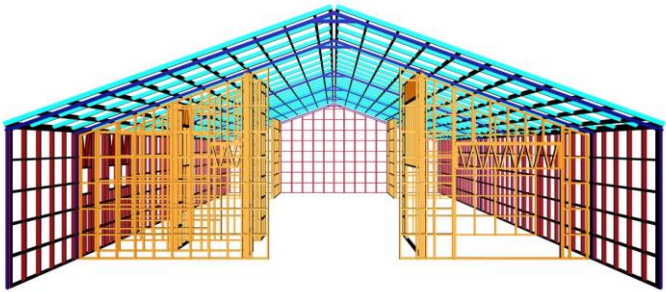


**Development Of Building Typology  
+  
Building Turn Key Projects  
Or  
Grey Box Stage**



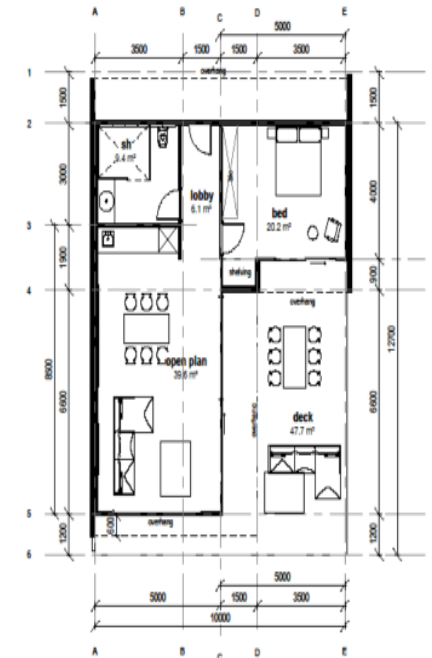


Modern Church | Chapel





## Concept Modular Units



Unit 78m<sup>2</sup>  
 One Bedroom  
 ( can be expanded from doorway leading  
 off passage )  
 Kitchenet  
 Shower | WC | Basin  
 Lounge Dining Room  
 Stacking Doors Onto Private Deck  
 Bedroom Door Opens onto Private Deck  
 Decking Area 40 m<sup>2</sup>

Adjoining Unit Privacy

## Concept Modular Units





# Fractional Ownership Units Oasis Kuruman Northern Cape Modular Construction Factory Built

## Oasis Casino Hotel and Executive Chalets

Kitchen | Lounge | Shower | Double Bed Unit 44m2 | Timber Deck 25m2



Property Developments





**Factory Manufactured Unit**  
**Aluminium Profiles and Glazing Manufactured**  
**Pre Fit Off Site**  
**Ready To Install as Building is Erected**





Fractional Ownership Units Oasis Kuruman Northern Cape  
Modular Construction Factory Built





## Modular Factory Built House Units





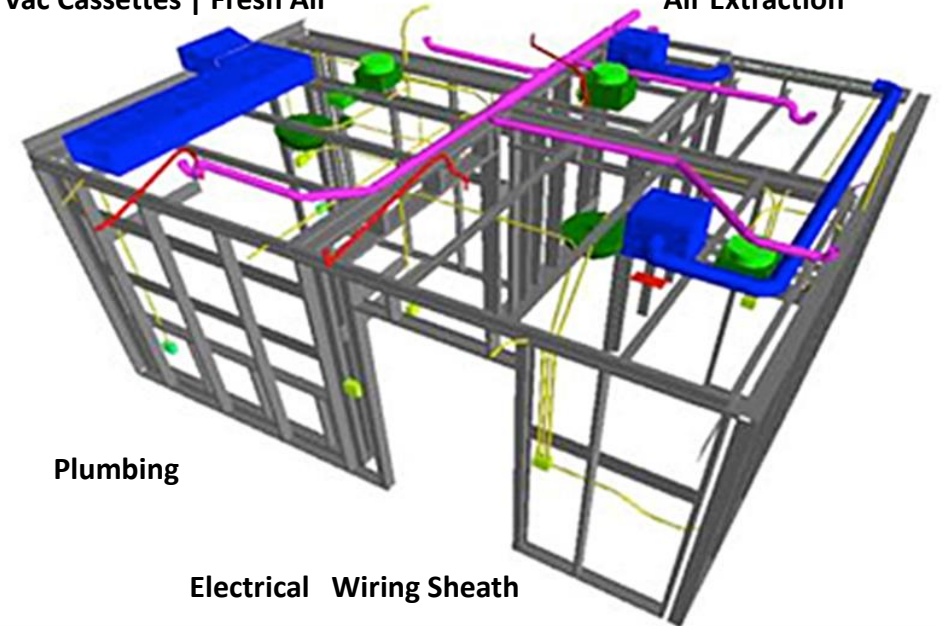
Portable Pre Assembled Structures On Demand | PODS



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## Steel Load Bearing POD Structure

H Vac Cassettes | Fresh Air      Air Extraction



Pre Commissioned

Fire Rated  
Acoustical Performance  
Built In Factory  
Environment



## Factory Built POD Units

Thermally Efficient Portable Pre Manufactured On Demand (POD)

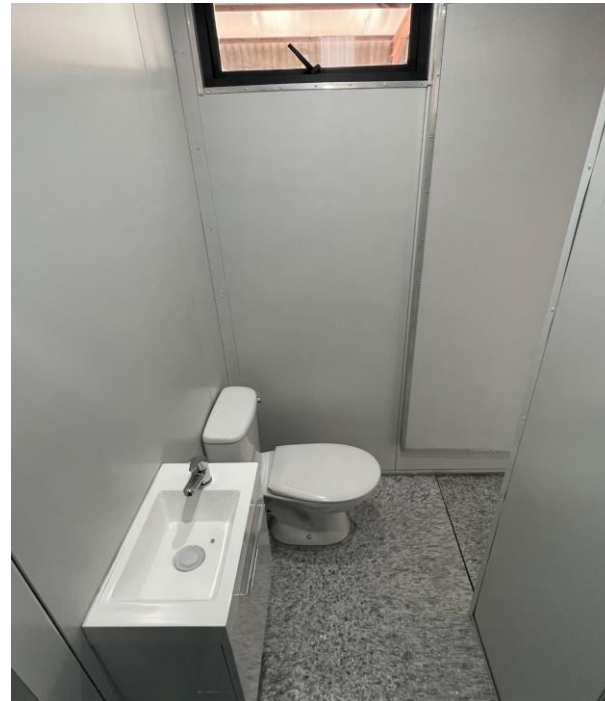


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**Concept vs Reality**





**6m x 2.4m x 2.4m Height Pod**  
**Plumbed**  
**Electrified**  
**Kitchen Unit**  
**Fridge**  
**Stive**  
**Sink**  
**Shower**  
**Basin**  
**Close Coupled WC**

**Plug In and Use**  
**Extras**  
**Solar**  
**Gas**  
**Septic Tank**

# Steel Frame Warehouse



Lightweight Steel Frame Building Components

Contact 0726472533 andre@steelframewarehouse.co.za

www.steelframewarehouse.co.za

Date 11.07.2022

## Product Components

## Price List

## Building Partners

## Know -How

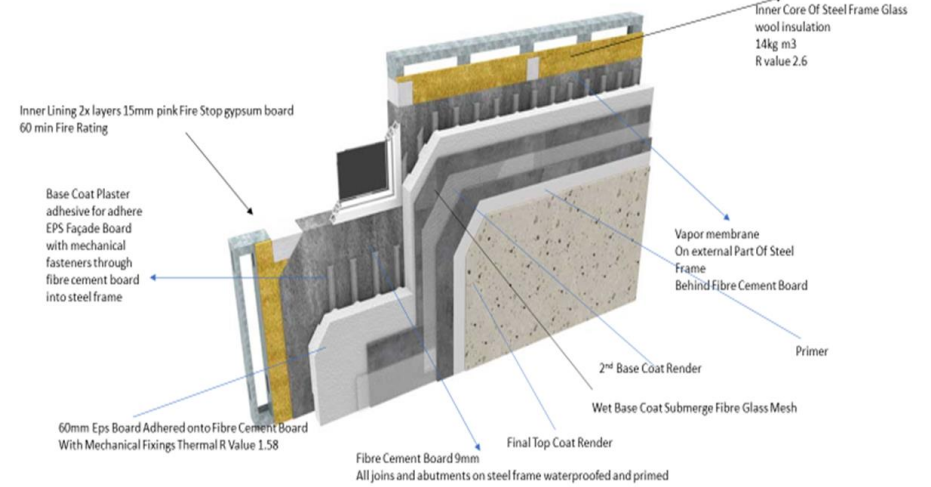
## Skills Training

## Central Services

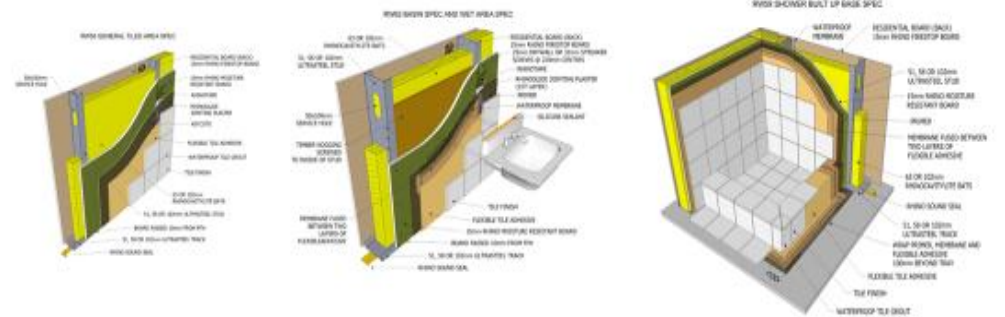
## Business Development

## Design Cost Contract Precure Supply Train Build

Thermal System R Value = 4  
Fire Rating 60 Min

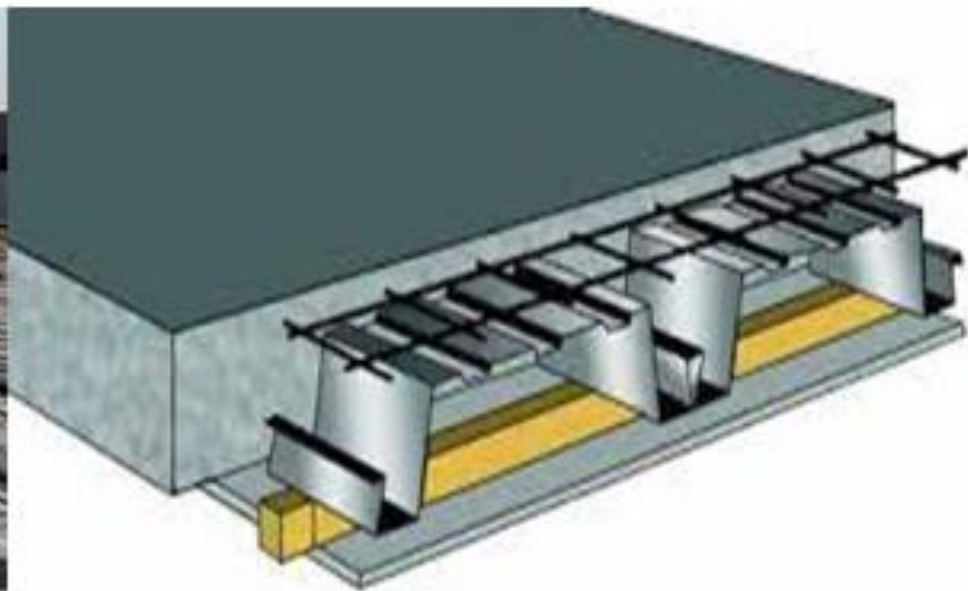


### Plumbing Detailing





## Light Weight Steel Frame | Void Coffers and Trough Systems



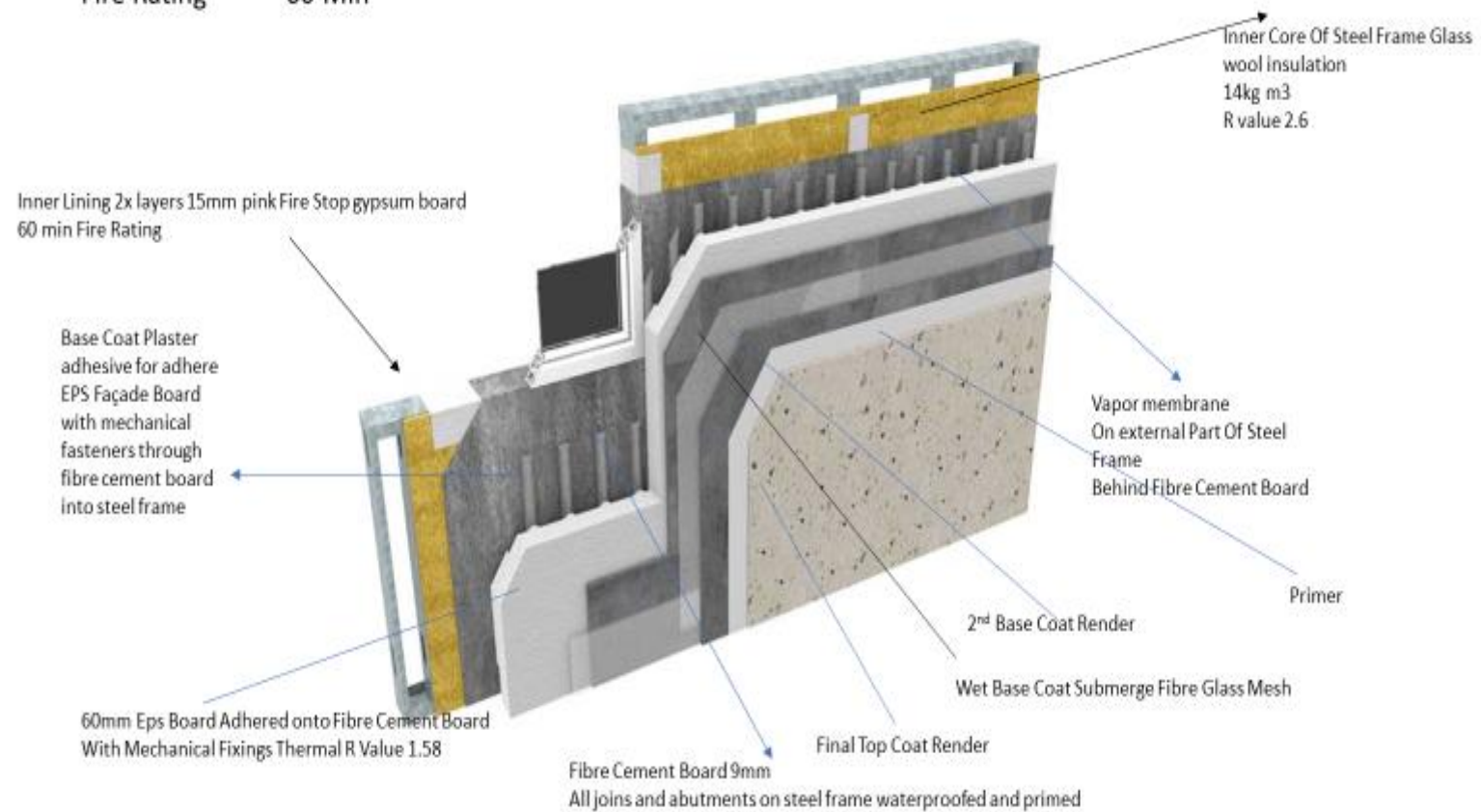
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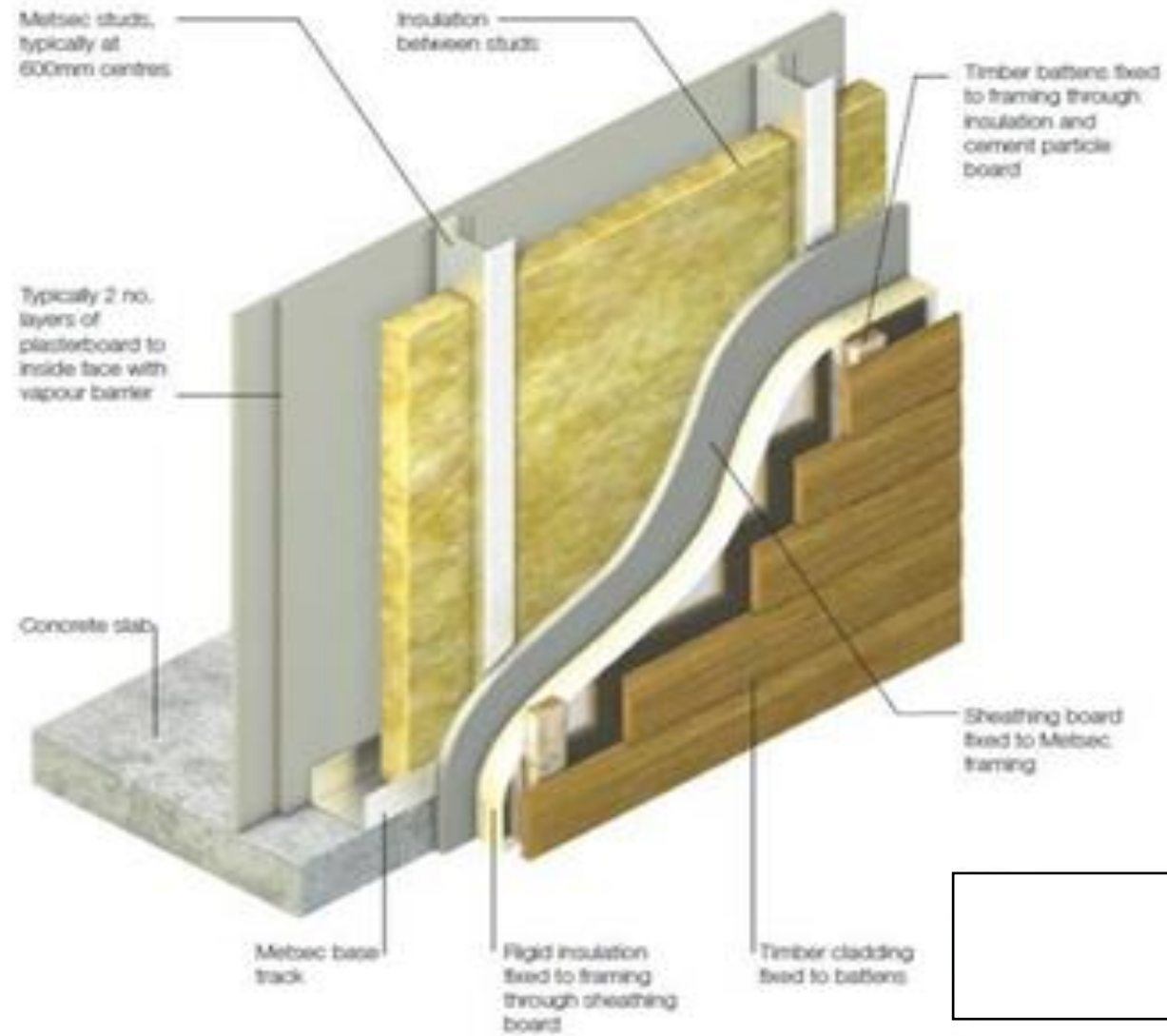
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Thermal System R Value = 4  
Fire Rating 60 Min







## Fibre Cement Board Cladding Systems



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## Screen Facades - Shading Thermal + Building Enhancements

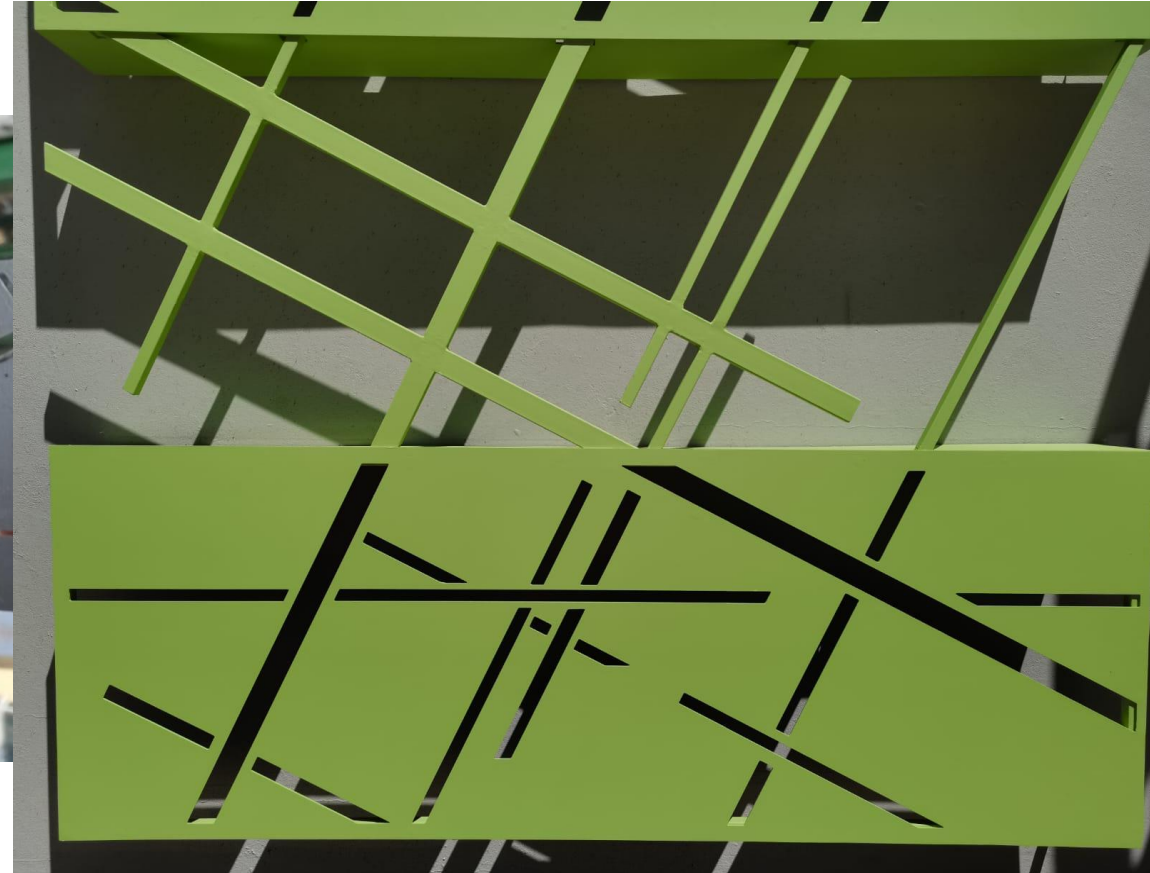
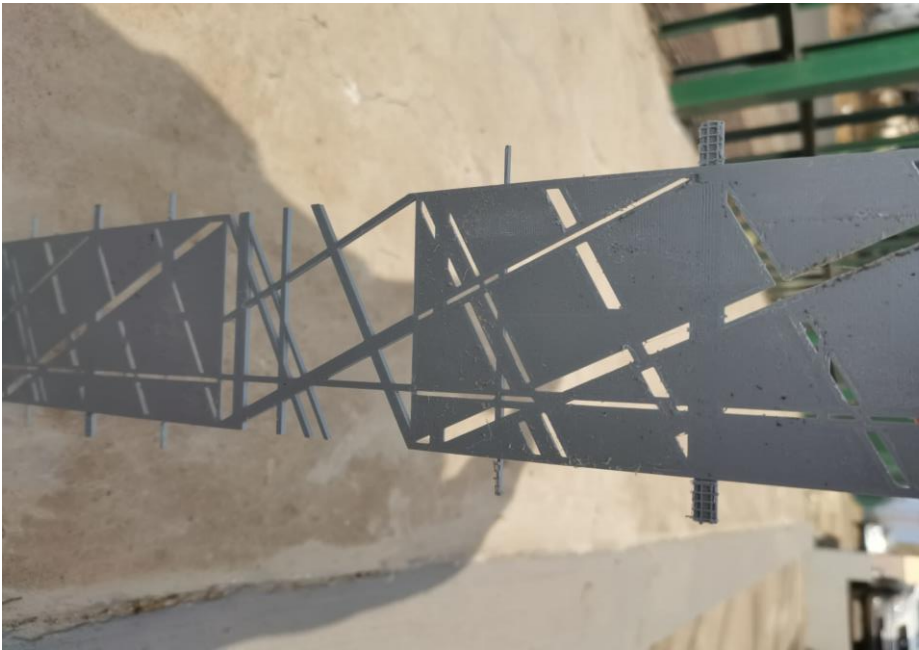


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**Product Development**  
**Screen Façade 3 D Printed Prototype**  
**Actual Build**







## Drone Surveying Photography

- Inspect Roof Coverings
- Building Process Stages
- Hard To Get To Places
- Real Estate Coverage
- Solar Roof Panel Inspection
- Façade Inspection
- Larger Farm Environments Property Inspection

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Current Projects



Construction Building Partners







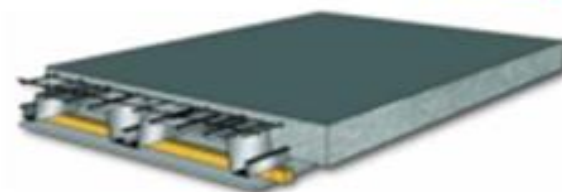
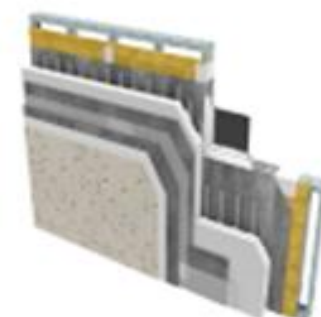
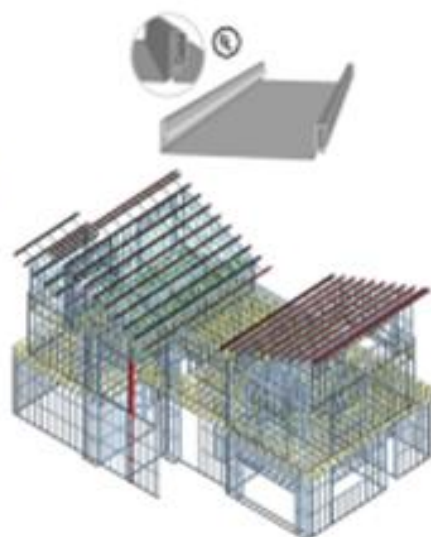
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Lightweight Steel Frame Building Solutions

Andre Schlunz

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Consultation | Plan | Manufacture | Steel Frame Structures | Roof + Wall Cladding | Insulation | Brackets Fasteners | Anchors | **Steel Frame Building Partners**

Building Solutions Fire Acoustics Thermal SANS 517 SASFA Code National Building Regulations 10400 XA Floor Systems Voidcon Engineer Rational Design