

# Smart Fast Modular



abacus  
SPACE SOLUTIONS

[www.abacusspace.co.za](http://www.abacusspace.co.za)



We are  
**WACO**

Abacus Light Steel Frame (LSF) technology delivers stronger, safer, low-rise buildings that can be individually designed to the customer's unique floor plan. LSF is fast becoming the most feasible alternative building option.

The introduction of Light Steel Frame (LSF) building technology is still relatively new in South Africa. It offers build quality, speed of erection and cost comparability with conventional buildings.

Abacus LSF buildings consist of structural wall frames and roof trusses, manufactured from cold-formed light gauge galvanised steel sections on a concrete foundation slab. The frame is then roofed with galvanised or Chromadeck steel sheets. Suspended ceilings with Isotherm insulation are installed.

The high strength of steel results in a safer, wind resistant structure that requires less maintenance. Abacus build in accordance to Sans 517 and their LSF buildings carry a 1/2 hour fire rating. Up to 6% extra floor space is created due to reduced thickness of external walls compared with a double skin brick wall.

The steel frames are fabricated under controlled factory conditions before all the components are delivered and assembled on site.

Each structure is signed off by a structural engineer. Only quality certified materials are used.

Turkey School Projects

Change Rooms

Laboratories

Multi Offices

Offices

Recreation Facilities

Warehouses

Administration Blocks

Classrooms

Kitchens

Offices

Dormitories

Laundry

Clinics

Training

Canteens



## Top 5 Reasons to Use Light Steel Frame Space Solutions



Durable



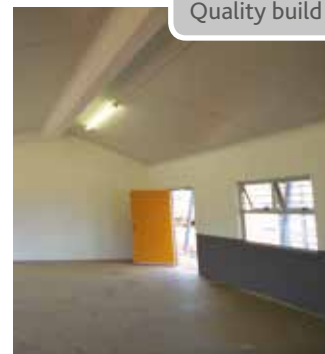
Cost effective



Moderately fast



Strength



Quality build



abacus  
SPACE SOLUTIONS



## Specifications

Foundation	Erected on a reinforced concrete raft foundation slab.
Superstructure Light Steel Frame	90mm engineered steel frame 0.8mm galvanized roll formed steel.
Walls	Tyvek building wrap. Thermal Break material. Insulating cavity batt. 12mm Firestop gypsum internally. 9mm fibre Cement board externally.
Roof & Ceiling	Chromadeck or galvanised metal roof sheets with Isotherm insulation.
Rain Water Management	Chromadeck gutters.
Windows	Aluminium window system. Glass instalments to be in accordance with SABS 0400 part N and SABS0137. 0.00sq.m – 0.75sq.m = 3mm thick. Optional burglar bars.
Doors	External doors – SABS hardwood, framed, solid doors. Internal doors – Masonite hollow core SABS approved, suitable for painting.
Electrical Installation	All internal electrical reticulation work and fittings will be to SABS standards. Electrical compliance certificates (COC) supplied with each building.
Air Conditioning	Available on request. Wall mounted or split units available.
Fittings and Plumbing	All plumbing reticulation work and fittings are included, will be SABS compliant and necessary certification will be provided.
Trims	Painted exterior walls.
Floor Layouts	Various standard floor layouts available. Bespoke designs on request. Detailed specifications are provided with all final proposals.



## Abacus Footprint

### Cape Town

Chilwan Crescent,  
Helderberg Business Park,  
Strand  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 60 996 5877

### Durban

Gourlay Drive, Ballito  
Service Park, Ballito  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 71 483 6922

### Isando

Gate 3, Tunney Road,  
Elandsfontein  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 82 464 9337

### Pomona (Head Office)

160 Main Street, Pomona  
AH, Kempton Park  
Tel: +27 (0) 11 397 8150

### Kathu

21 Frikkie Meyer Street,  
Kathu  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 79 886 9535

### Kendal

Plot 7, Heuwelsfontein,  
Balmoral Road R545,  
Kendal  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 82 465 0047

### Rustenburg

12 Coetzer Street, Industrial  
Area, Rustenburg  
Tel: +27 (0) 11 397 8150  
Cell: +27 (0) 71 360 0721

### Secunda

Greenfields Contractors  
Area, Greenfields Road,  
Secunda  
Tel: +27 (0) 17 004 0087  
Cell: +27 (0) 82 495 1762

### Witbank

Small Holding 62,  
Kromdraai, Witbank  
Tel: +27 (0) 13 650 9154/7  
Cell: +27 (0) 82 465 0047

### Botswana - Gaborone

Plot 68292, Phakalane  
Industrial, Gaborone,  
Botswana  
Cell: +27 (0) 72 225 2481

### Mozambique - Palma

EN 247, Destricto de Palma,  
Bairro de Ncalanga, Palma,  
Mozambique  
Cell: +27 (0) 72 225 2481

### Namibia - Windhoek

Plot 11, Brakwater Service  
Road, Brakwater, Windhoek,  
Namibia  
Tel: +27 (0) 11 397 8150  
Cell: +264 (0) 81 167 2353

### Zambia - Lusaka

Plot 397A/3/B, Kafue Road,  
Makeni, Lusaka, Zambia  
Tel: +26 (0) 968 491 061  
Cell: +26 (0) 968 192 627

