
GOVERNMENT NOTICES

DEPARTMENT OF PUBLIC WORKS

No. 142**26 February 2015****AGRÉMENT SOUTH AFRICA****(Approval of innovative construction products and systems)**

Notice is hereby given that Agrément South Africa has, with effect from 16 July 2014, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE**Agrément Certificate 2009/368 (Amended July 2014)**

Name of product: Alternative Steel Frame Building System

Certificate holder: Tower Technologies (Pty) Ltd

Description:

The Alternative Steel Frame Building System consists of galvanised light gauge steel structural components to both wall panels and roof trusses. All light weight steel work is galvanized as per **SANS 3575 & 4998**. The design concept is based on steel frame technology conforming to **SANS 517**. Foundations are conventional concrete strip footings or concrete rafts with thickened edge beams which are always the responsibility of professional competent engineer.

External and internal wall panels are precast. Frames are generally 2.4 m high and 600 mm or 1200 mm wide and manufactured from 0.6 mm thick galvanised light-gauge steel channels 90 mm x 30 mm x 10 mm. The 1200 mm wide panel is divided into two with central back-to-back lipped channels.

92 mm x 30 mm, 0.8 mm thick light gauge galvanised steel bottom track is anchored to the raft foundation at 600 mm centres with expansion bolts, or chemical anchors. The wall panels are positioned in the bottom track and secured both sides with tek self-tapping screws at 300 mm centres.

The junctions between vertical frames are sealed with single pack polyurethane moisture cured mastic. A galvanised channel ring beam/capping is fixed over the tops of all panels and secured to the wall panel frame.

In order to eliminate plaster cracking along the steel frame, the entire building is wrapped on all exterior wall surfaces with an alkali resistant glass fibre crinnette (5 mm aperture). In addition, a fabric is attached to all the exterior surface of the steel by use of a flexible acrylic sealer. It acts as a lip layer that separates the steel from the plaster. The surface is primed with a blend of Portland cement and acrylic or synthetic latex and before it dries, 4 -6 mm thick plaster is applied by hand or sprayed and floated to a smooth finish or textured.

Where the Alternative Steel Frame Building System is to be used in the Coastal areas or aggressive environment special treatment of steel is required.

Roof trusses are conventional and are constructed from light gauge galvanised steel channel sections. Trusses are secured to external wall ring beams with galvanised steel straps secured to both sides of the truss tie-beam and the side face of the ring beam with tek self-tapping screws.

Roof cladding can be light or heavy weight and ceilings are mandatory and insulation optional, although recommended. Services are conventional and are incorporated in the wall panels before casting.

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: Chief Executive Officer (CEO)
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