

## DEPARTMENT OF PUBLIC WORKS

NO. 197

22 FEBRUARY 2019

AGRÉMENT SOUTH AFRICA  
(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 06 September 2018, issued an Agrément certificate, details of which appear in the schedule hereto.

**SCHEDULE**  
Agrément Certificate 2018/568

**Subject:** Archway Construction System

**Certificate holder:** Archway Technologies Africa (Pty) Ltd

**Description:** Archway Construction System consists of a cold rolled light gauge steel frame that is designed in accordance with **SANS 517**. The frames are usually 2400 mm high × 2700 mm wide with studs at 400 mm and 600 mm centres. The frame is manufactured from 0.8 mm thick galvanised steel lipped channel 90 mm x 37 mm x 7.5 mm profile.

The foundations and the floor slab are conventional and are always the responsibility of a registered competent person.

The external and internal wall frames are clad with 1 mm thick expanded metal grid with 3 mm × 6 mm grid openings which acts as plaster-key and 15 mm perm shutter plaster on both sides encapsulating the cellular concrete (Celcrete) core infill with a density of 800 kg/m<sup>3</sup> and concrete strength of 6-8 MPa. The overall thicknesses of the composite wall is 120 mm thick.

Doors and window frames can either be galvanised steel, aluminium or timber. The roof trusses are constructed from light gauge galvanised steel channel sections with light- or heavy-weight cladding.

All other services are conventional and conduit holes are pre-drilled in the frame. Wall Panel Building System is for single-storey buildings and utilises factory produced Wood Plastic Composite (WPC) extruded hollow core polymer panels (Luxwood panels) clad with Porex Board (calcium silicate board with fibres) on both sides. The overall thickness of the system is 118 mm. The foundations are conventional and always the responsibility of a competent professional engineer.

The Luxwood panels are manufactured to a standard width of 450 mm x 100 mm thickness with lengths varying from 2440 mm to 3000 mm. The panel is hollow with rib spacing of 150 mm. A 9 mm thick Porex board is cut to sheets of 1220 mm x 2440 mm for cladding on both sides of the panel. The panels have male and female interlocking ends and are screwed with a series of self-drilling Tek screws of 8 mm x 25 mm along a minimum **Z275** pre-galvanised channels in accordance with **ISO/SANS 4998** or **ISO/SANS 3575** which act as base rail and perimeter ring beam.

Conventional timber or light-weight steel roofing is designed by a competent professional engineer.

Window and door frames are installed into pre-cut openings. Services are surface mounted onto the walls or along the floor with appropriate trunking or conduit, or fitted into pre-drilled holes of the panels

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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