

## DEPARTMENT OF PUBLIC WORKS

NO. 297

18 MARCH 2016

## AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 06 August 2015, issued an Agrément certificate, details of which appear in the schedule hereto.

## SCHEDULE

Agrément Certificate 2008/347 (Amended August 2015)

**Name of product:** Ikhaya Future House Double – and Multi – Storey Building Systems

**Certificate holder:** Ikhaya Futurehouse Systems (Pty) Ltd

**Description:** The Ikhaya Future Double- and Multi- Storey Building System buildings are double- and multi-storey (up to ten storeys as infill panel design prepared by professional engineer) buildings where the manufacture of wall panels and erection of buildings are under the control of a professional engineer or approved competent person who will:

- ensure that wall panel manufacturing standards are maintained
- ensure the integrity of the entire building
- adhere to the requirements of this certificate

The Ikhaya Future House Double- and Multi-Storey Building System utilises factory produced wall panels, Future House expanded polystyrene (EPS) first floor slab and conventional timber roof construction.

Ground floor wall panels comprise two cores of 40 mm thick EPS with a density of 16 kg/m<sup>3</sup>, with a minimum spacing of 80 mm apart forming a cavity that is filled with (reinforced) concrete. The first floor slab is the Future House expanded polystyrene coffered flooring system to engineer's specification. Wall panels are corrugated and are 2.4 m high x 1.2 m wide. Galvanised weldmesh to both sides of the EPS is electro-welded to galvanised wire ties passing through the EPS core.

External corner and T-wall junctions are reinforced with Y6 drilled anchor reinforcing bars at 300 mm centres, passing through the EPS core with the legs on either side of the junction wall.

Internal wall junctions are reinforced with L-shaped strips of weldmesh tied to the wall panel weldmesh.

A reinforced concrete ring beam is cast at eaves level to all external eaves and gable walls.

Wall panels are finished with 35 mm thick spray applied (Gunitite) structural plaster at the valley deepest point (15 MPa) to both sides of the EPS core and 20 mm at the galvanised weldmesh (cement and fine aggregates comply with the relevant **SANS** specifications).

Foundations and surface bed are conventional and designed by a professional

engineer or approved competent person.

Roof construction is conventional timber or light-weight steel trusses with light- or heavy-weight roofing coverings. Insulated ceilings are always installed.

Windows, doors and services are conventional.

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)  
Agrément South Africa  
P O Box 395  
**PRETORIA**  
0001