

DEPARTMENT OF PUBLIC WORKS

NO. 1173

03 NOVEMBER 2017

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

Notice is hereby given that Agrément South Africa has, with effect from 10 October 2016, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE
Agrément Certificate 2016/523

Subject: iGreen Building System

Certificate holder: The Legacy Trust

Description: iGreen Building System is a single-storey building that utilises factory produced wall panels. The foundations are conventional and always the responsibility of a registered competent engineer. Steel must always be pre-galvanised in accordance with **SANS/ISO 4998** and **SANS/ISO 3575**.

External wall panels (wall type 1) comprise 10 mm magnesium oxide board facings encapsulating 94 mm expanded polystyrene (EPS) core of 20 kg/m³ nominal density. The standard panel size is 2 400 mm or 3 000 mm high, 1 200 mm wide and 114 mm thick. Wall panels are joined vertically by a 63.5 mm x 50 mm x 0.8 mm galvanised H studs (back-to-back). Walls are secured at the bottom with a 65 mm x 50 mm x 0.8 mm galvanised steel (Z275) U-channel to foundation and a ring beam of the same specification at the top for roof anchoring.

Internal wall panels ¹(wall type 2) comprise 6 mm fibre cement boards on both sides of the face encapsulating 102 mm thick EPS of 20 kg/m³ with sound insulation of 38 dB. Internal wall panels (wall type 3) comprise of 6 mm magnesium oxide board on both sides of the face encapsulating 102 mm thick EPS core of 20 kg/m³ with sound insulation of 36 dB. Internal wall panels (wall type 4) comprise of 9 mm magnesium oxide board on both sides of the face encapsulating 102 mm thick EPS core of 20 kg/m³ with sound insulation of 39 dB.

Division separating wall panels² (wall type 5) comprise 12 mm Gypsum boards and 9 mm Magnesium oxide on both sides of the face encapsulating 102 mm thick EPS of 20 kg/m³ with sound insulation of 43 dB. Dividing wall panels (wall type 6) comprise of 15 mm Gypsum boards and 9 mm Magnesium oxide on both sides of the face encapsulating 102 mm thick EPS core of 20 kg/m³ with sound insulation of 45 dB.

The roof structure is constructed out of timber or light steel trusses with light- or heavy-weight cladding. Not allowed to be used with double wedges and wall plate.

Windows and doors openings are prefabricated. Aluminum, steel or timber frames are pre-installed to a special 'quick couple sub frame' which is fixed to walls with a Ratchet angle frame. Steel must be hot-dip galvanized in accordance with **SANS121/ISO 1461** and aluminum must be powder coated.

External wall substrate is primed with an Aquarista co-polymer acrylic waterproofing compound and finished with two coats of acrylic paint. Internal walls and ceiling receive primer and one coats acrylic paint.

Services are surface mounted onto the walls or along the floor with appropriate service tubing, 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)
Agrément South Africa, P O Box 395, **PRETORIA**, 0001