

DEPARTMENT OF PUBLIC WORKS

NO. 1181

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 07 December 2016, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE
Agrément Certificate 2016/531

Subject: Eezi Thermal Modular Building System

Certificate holder: EEZI Group Africa

Description: EEZI Thermal Modular Building System utilizes foundations and structural components which are always the responsibility of a registered competent engineer.

EEZI Thermal Modular Building System's structure is made up of isolated reinforced concrete bases which are set out on a 1.5 m grid. Bases are typically 500 mm diameter x 700 mm deep, with a tubular steel stub column cast into each base. Stub columns are made up of two cold-formed galvanised steel lipped channels (100 mm x 100 mm x 50 mm x 0.8 mm) connected toe to toe. The top 325 mm of the tubular stub column is pre-painted with a corrosion resistant paint.

External wall panels are 122 mm thick, manufactured from light-weight 90 mm x 50 mm x 0.8 mm cold-formed galvanised steel channel studs spaced at 600 mm centres with cross braced channels at the top and bottom of panels. The voids between the structural members are filled with 100 mm thick expanded polystyrene (EPS). The inside face of external walls is lined with 15 mm thick gypsum Firestop board. The internal face of wall panels is finished with gypsum skim plaster and the external face is finished with a 4 mm thick woven fibre glass mesh reinforced cementitious coating. The fibre glass fabric has a mass of 145 g/m² and a mesh size of 5 mm x 5 mm.

Internal wall panels are 127 mm thick, manufactured from light-weight 90 mm x 50 mm x 0.8 mm cold-formed galvanised steel channel studs spaced at 600 mm centres with cross braced channels at the top and bottom of panels. The voids between structural members are filled with 90 mm of EPS. Both faces of internal walls are lined with 15 mm thick gypsum Firestop board and finished with gypsum skim plaster.

EEZI Thermal Building System makes use of 128 mm thick panelised modular floors that are manufactured from light-weight cold-formed galvanised steel channel joists (90 mm x 50 mm x 0.8 mm) spaced at 600 mm centres with cross braced channels at the ends of panels. The void between joists is filled with 120 mm thick EPS. Panels are lined on the top and bottom face with a 4 mm thick woven fibre glass mesh reinforced cementitious coating. Typically, floor surfaces are finished with a 100 mm thick sand-cement un-bonded topping (20 MPa). Alternatively, fibre cement or magnesium oxide board may be used as a finish as directed by the registered competent person.

Roof panels are 100 mm thick and are manufactured from light-weight cold-formed galvanised steel channel rafters spaced at 600 mm centres with cross braced channels at the ends of panels. The void between channel rafters is filled with 100 mm thick EPS. Roof panels are supported on eaves walls, gable walls, internal walls, and where necessary on ridge beams. EPS roof tiles are glued to roof panels and dressed in a 3.5 mm thick fibre glass mesh reinforced cementitious coating. Once cured, the coating is finished with conventional roof paint.

All services are conventional and are either pre-fixed within the thickness of walls or surface mounted. These services must be specified and installed in accordance with good building practice.

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