

DEPARTMENT OF PUBLIC WORKS

NO. 300

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 29 July 2015, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE
Agrément Certificate 2015/483

Name of product: Boen EcoSolutions Building System

Certificate holder: EcoSolutions (Pty) Ltd

Description: Boen EcoSolutions Building System is constructed with prefabricated components that are assembled on site.

Boen EcoSolutions Building System utilizes conventional concrete foundations and a 100 mm thick surface bed which are always the responsibility of a registered competent engineer.

The building structure is made up of a single layer of a light-weight galvanized steel frame with strip footings. The steel studs are manufactured from hot-dipped steel that complies with the requirements of **SANS/ISO 3575** or **SANS/ISO 4998**, and has a coating equivalent in corrosion resistance and robustness to galvanizing (Z275). The light-weight steel galvanized steel frame has minimum yield strength of 300 MPa. The side flashing edges are connected using self-tapping steel screws.

The exterior wall panels are 102 mm thick comprising an 82 mm thick flame-retardant honeycomb paper core (62 kg/m³) encapsulated by a 10 mm fibre cement board on either side. The interior wall panels are 64 mm thick comprising a 52 mm thick flame-retardant honeycomb paper core (62 kg/m³) encapsulated by a 6 mm fibre cement board on either side. All panel joints are reinforced with 1.5 mm thick galvanized U-channels. The U-channels are inserted between the joints and are fastened using countersunk self-tapping steel screws at 200 mm centres. Exterior and interior wall panels are plastered and painted with a waterproof coating.

Roofs are doubled pitched and comprise the same material as that of the wall panels. The roof is supported by the steel structure and is constructed with 102 mm thick panels, and covered by a first layer of polyethylene polypropylene fibre waterproofing followed by a second layer of 2.7 mm thick asphalt shingles. The roof structure consists of purlins and H-type aluminium steel sections into which the roof panels are slotted. The roof is fitted with PVC gutters and downpipes. Window and door frames are factory-fitted (PVC or Agrément approved) and are

purposely made to suit the design of the building system.

All plumbing and electrical conduits can be pre-fixed or surface mounted onto the composite panels. These services must be specified and installed in accordance with good building practice.

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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
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PRETORIA
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