

DEPARTMENT OF PUBLIC WORKS

NO. 191

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 14 December 2017, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE
Agrément Certificate 2017/558

Subject: Greenlite Concrete Jumbo Blocks Building System

Certificate holder: Greenlite Blocks Pty Ltd

Description: Greenlite Concrete Jumbo Blocks are light-weight masonry concrete blocks, comprising a mixture of Expanded Polystyrene (EPS) beads, cement, water and additives. The blocks have a compressive strength of at least 3 Mpa and a dry density of 550 kg/m³. The blocks are produced in moulds in a factory to the following dimensions or sizes:

- 600 mm long x 300 mm high x 100 mm wide
- 600 mm long x 300 mm high x 140 mm wide
- 600 mm long x 300 mm high x 200 mm wide.

Filler blocks are of the same material with sizes 100 mm, (160 mm & 200 mm) long x 300 mm high x 100 mm (140 mm & 200 mm) wide.

Greenlite Concrete Jumbo Blocks are pre-grooved and are supplied with keys to interlock the blocks together in position and to interlock the next row above.

The blocks are laid in conventional stretcher bond pattern whereby the first course is laid on 50% porcelain tile adhesive and conventional mortar and the rest of the courses using the tile adhesive as mortar. Once the blocks are laid, the mortar joint must always be between 5 mm to 8 mm thick. Before plastering the walls, a standard slush mixture of cement, bonding agent, sand and water must be applied on the Greenlite Jumbo Block walls, which improves plaster adhesion. Then a final layer of a 12 mm to 15 mm thick plaster must be applied on both sides of the walls.

Foundations are conventional and are always the responsibility of an approved competent person.

When using the strip foundation a mixture of 50% porcelain tile adhesive and 50% conventional mortar must also be used on the foundation wall up to the plinth level.

Roof comprises light-weight steel or timber trusses with metal sheeting or concrete tiles or any Agrément South Africa approved cladding. Y10 horizontal bars are placed across the perimeter of the walls at the last two courses to assist in roof anchorage.

All services on a 200 mm thick blocks are conventional and are chased into the wall surface as one would do with conventional brick structures. The grooves are then filled using mortar which is then sanded down and plastered over. Services on the 100 mm and the 140 mm thick blocks must always be surface mounted. The 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 72381, LYNNWOOD RIDGE, 0040