

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 3851

1 September 2023



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

Notice is hereby given that Agrément South Africa has, with effect from 28 June 2023, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Interim Agrément Certificate 2023/642 (valid Until 31 December 2023)

Subject: Composite Recycled Plastic Brick Building System

Certificate holder: Ramtsilo Trading

Description: Composite Recycled Plastic Bricks are lightweight masonry bricks, comprising a mixture of thermo-softening plastic polymer, cement, water and additives. The density of Composite Recycled Plastic Bricks is 1 565 kg/m³ with an average compressive strength of 10.1 Mpa over a period of 28 days.

The dimensional tolerance of the bricks is per **SANS 1215: 2008 Concrete Masonry Units Table 1 – Tolerances on work sizes**. The bricks are available in the following dimension:

- stock bricks - 210 mm length × 110 mm width × 70 mm height

For internal walling, the bricks are laid in a single skin pattern and for external walling they are laid in double skin pattern.

The bricks are laid in English stretcher bond pattern and the conventional mortar used to bind them together is 10 mm thick for both bed and perpendicular joints. Brick force is placed after every three courses, horizontally at bed joints. The system uses conventional foundations which conform to **SANS 10400** and will be installed under the supervision of a competent person. The damp proof course (DPC) is installed at the top of the concrete floor slab 150 mm above the ground level.

Super structure walls are plastered on both sides with 12 mm thick standard mortar mix plaster.

Roof comprises light-weight steel or timber trusses with metal sheeting or concrete tiles and any other approved Agrément South Africa cladding.

Windows, door frames and windowsills are conventional and may be fixed as per good building practice.

The Agrément certificate contains detailed information on the system and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: Chief Executive Officer (CEO)
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innovative construction product assessments

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