

NOTICE 242 OF 2011**DEPARTMENT OF PUBLIC WORKS****AGRÉMENT SOUTH AFRICA**

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 24 November 2010, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2010/380

Name of product: Ikhaya Brick Building System

Certificate holder: Amakhaya Technologies (PTY) Ltd

Description:

The Ikhaya Brick Building System utilises soil - cement Blocks for the erection of the external and internal walls for a detached single storey buildings. Ikhaya Brick technology (IBT) portable machinery is used to produce the 7 Mpa Blocks. The blocks are 300 mm long x 150 mm wide x 100 mm high with two vertical cavities measuring 60 mm in diameter.

Foundations are concrete rafts with thickened edge beams designed by a Professional engineer. A liberal coat of good quality bituminous paint that complies with the requirements of **SANS 317** is applied to the concrete surface bed along the length and across the width of all proposed walls.

If strip foundations are used, the foundation wall must be built using conventional bricks up to damp proofing membrane level. The foundations and surface floor slab are cast in accordance with the plan of the building, using concrete with a minimum compressive strength of 20 MPa at 28 days. The surface is floated to a true and smooth finish.

In abnormal or problematic ground conditions, all foundations are designed by a professional engineer in accordance with the requirement of **SANS 10161** and constructed accordingly. The first levelling course of Ikhaya blocks is bedded on top of bituminous paint.

Where internal walls join with the external walls, an 8 mm Ø re-bar is used to tie walls together. The 8 mm Ø re-bar are used vertically and horizontally and concrete is poured into the cavities where reinforcement is positioned. In between each Ikhaya block the adhesive is applied on both the horizontal and vertical edges of the block.

A mixture of tile cement and sand is mixed to create a coloured mortar slurry effect. This mix is then used to grout in between all the horizontal and vertical V-Joints on the external wall.

I-Brick Seal is then sprayed onto the wall leaving it to dry for 3 hours before a second coat is applied. The sealant makes for a 100% waterproof seal whilst sealing in the grout and keeping out any pollutants. Roof structures are conventional and they are tied down to a 8 mm Ø reinforcing bar using a double strand 4 mm Ø galvanised wire.

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

Copies are obtainable from: The Manager

Agrément South Africa

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