No. 143 **26 February 2015**

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 16 July 2014, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2014/457

Name of product: GHS Wall Technology Building System

Certificate holder: GHS GmbH

Description:

The GHS Wall Technology Building System utilizes conventional concrete foundations and surface bed at least 100 mm thick that are always the responsibility of the professional engineer.

The walls are made up of panels comprising UV-resistant Polyvinyl Chloride (PVC) modules filled with normal concrete. There are nine different profile types of UV-resistant PVC modules each of which has specific function. The basic module is the Módulo I 200/80 which is joined to form a wall panel using the Perfil Acope (S-588PRD10) module.

The wall is anchored to the concrete floor slab using vertical steel reinforcement bars (Y10) spaced at 800 mm c/c. Reinforcements are also placed at door and window openings and wall junctions. The wall to floor slab anchoring reinforcement bars are 650 mm long and 150 mm of which is embedded inside the foundation (anchorage length ≥ 10 x diameter) using chemical anchors (epoxy adhesive). Additional horizontal reinforcements are placed at the top and bottom of all openings as reinforcement for lintels. In all the cases the sizes, numbers and location of reinforcement bars must be specified and approved by professional competent engineer.

Occupancy dividing walls (walls dividing two dwellings) are 160 mm thick and comprise two 80 mm-thick walls. A reinforced concrete ring-beam 200 mm deep and which incorporates roof holding-down anchors is made all around the perimeter of the structure in the last top section of the wall panel.

Roofs are constructed of conventional light-weight steel or timber trusses, fixed on the reinforced concrete ring-beam with light-weight or heavy-weight roof cladding and insulation and ceiling are always installed. Window and door frames are conventional (wood, steel aluminium or Agrément approved) and are installed in openings on site, earliest 48 hours after filing the walls with concrete. Electrical wirings are installed via Módulo canaleta profile UV-resistant PVC sections. All other aspects of construction are conventional.

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)
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