

## DEPARTMENT OF PUBLIC WORKS

NO. 185

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 29 November 2017, issued an Agrément certificate, details of which appear in the schedule hereto.

**SCHEDULE**  
Agrément Certificate 2017/553

- Subject:** GHS ClipPlus Wall Technology Building System
- Certificate holder:** GHS GmbH
- Description:** GHS ClipPlus Wall Technology Building System utilises conventional concrete foundations and a surface bed at least 100 mm thick that are always the responsibility of an approved competent person.
- The superstructure walls are constructed of interlocking UV-resistant Polyvinyl-chloride (PVC) modules incorporating vertical and horizontal cavities in which reinforcement steel, as specified by the engineer, are installed and filled with concrete of 15 to 20 Mpa. The PVC modules provide permanent shuttering. The modules are 80 mm wide for both external and internal walls. There are nine different profile types for walls, each with a specific function. The basic profile is the CP80 W300, which is connected to the CP80 H100 profile in order to form a wall.
- A continuous concrete ring-beam which incorporates roof holding-down anchors is cast at door or window height to support the roof structure.
- Walls are anchored to the concrete floor slab using vertical steel reinforcing starter bars (Y10) spaced at 800 mm centres. The starter bars are 650 mm long, with 150 mm embedded into the foundation (anchorage length  $\geq 10 \times$  diameter) using chemical anchors (epoxy adhesive). Reinforcement is also placed at window and door openings, and at wall junctions. In all instances, the sizes, numbers and location of reinforcing bars must be specified by an approved competent person. Occupancy dividing walls (walls dividing two dwellings) are 160 mm thick comprising two 80 mm thick walls.
- Roofs can either be constructed from light-weight steel or timber trusses, with light- or heavyweight roof cladding. Insulated ceilings are always installed.
- Window and door frames are conventional or Agrément approved and are purposely made to suit the design of the building. Window and door frames are installed in openings on site (from 48 hours after filling the walls with concrete).
- Plumbing and electrical conduits are installed using cable pipes and junction boxes pre-installed in the wall profiles during the manufacturing process. These 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)  
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