

**No. 154****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 21 October 2014, issued an Agrément certificate, details of which appear in the schedule hereto.

**SCHEDULE**

Agrément Certificate 2014/467

**Name of product:** JK Structure Building System**Certificate holder:** GIB Developments (Pty) Ltd

**Description:** JK Structure Building System is a cast in-situ reinforced, light-weight concrete system for use in the erection of single-storey buildings. The system makes use of permanent formwork/shuttering made up of a three-dimensional metal lath or cage to which the chicken mesh is tied. The lath is made up of 1.6 mm galvanised steel sheet which together with additional reinforcement acts as structural reinforcement. During the casting process a small amount of cement grout from the placed concrete seeps through apertures in the metal lath and chicken mesh. The density of the light-weight concrete (polystyrene bead) ensures hydrostatic pressures are relatively low limiting the amount of grout seeped through the “shutters”. The grout is trowelled smooth against the “shutters” and in the process encapsulates the lath and mesh in cement paste.

The light-weight concrete (polystyrene bead) used for infill in walls has a minimum density of 900 kg/m<sup>3</sup>. The external walls are typically 120 mm thick, while the internal walls are 100 mm thick. All external walls are finished in a nominal 20 mm-thick conventional sand-cement plaster on both sides while the internal walls are finished with 10 mm-thick plaster on both sides.

Foundations are typically raft foundations constructed of surface beds that are thickened under walls which are always be the responsibility of a professional engineer. Conventional concrete is used in foundations. Roofs are conventional timber roof trusses with light-weight or heavy-weight cladding. Services are conventional and installed in wall formwork prior to casting of concrete. All other components of the system 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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