

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 3518

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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 March 2022, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2020/632

Subject: Living Home MgO SIP Building System

Certificate holder: Square Foot Developments CC

Description: The Living Home MgO SIP Building System utilises Structural Insulated Panels (SIP) as a building system for external and internal walls. The Structural Insulated Panels are factory produced and consist of 132 mm thick polystyrene middle layer sandwiched between two sheets of 9 mm thick Magnesium Oxide (MgO) board. This combination creates a 150 mm thick panel.

The structural wall panels are maximum 2.7 m in height, 1.2 m wide and 150 mm thick for external walls. For internal walls the panels are 100 mm thick. The primary studs are used as joint connectors between panels. The panels are transported to, erected on sites, and mechanically fastened to each other and to foundations metal rails. The foundation to panel rail joints are sealed with bitumen and/or silicone based sealants.

innovative construction product assessments

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Concrete foundations will be selected for specific soil conditions and should conform to the local standard codes and installed under the supervision of an engineer. The design of the foundation is the responsibility of a competent person.

The 200 mm roof panel consists of a 150 mm thick core of expanded polystyrene board sandwiched between an inner Magnesium Oxide fibre cement board and an outer IBR profile.

Window and door openings are cut into the SIP panels and the panels edges are sealed with metal flashing closures. SIP edges to frames will be sealed with silicone sealant. The building system will utilise the conventional and other Agrément approved windows and doors.

Light to medium weight fittings can be fixed on walls. The building system passed the heavy-weight fitting test and was able to carry a mass load of 132 kg.

Internal primary studs which are used as connection as connection pieces between panels, are manufactured with a minimum 70 mm spacing that allows for 50 mm wide ducting for electrical and other services.

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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