

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 7705

17 July 2026

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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 25 June 2026, issued an amended Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2019/600 (Amended June 2026)

Subject: Citra Building System

Certificate holder: Citra South Africa (Pty) Ltd

Description: The Citra Building System comprises prefabricated composite panels that are assembled on site to form the primary building envelope of the structure. The exterior panels are utilised in both wall and roof applications, creating an integrated shell-type structural system in which the walls and roof function as a continuous load-bearing envelope. This configuration promotes structural continuity, enhances overall stability, and contributes to the efficient distribution of imposed and environmental loads throughout the building system.

The Citra Panel consists of factory-manufactured, interlocking Expanded Polystyrene (EPS) core panels with a minimum thickness of 90 mm and a minimum density of 15 kg/m³. The EPS core is encapsulated between two layers of structural plaster, each with a minimum thickness of 25 mm and a characteristic compressive strength exceeding 50 MPa. The plaster skins are reinforced with alkali-resistant glass fibre mesh having a minimum mass of 156 g/m², providing enhanced tensile resistance, crack control, and long-term durability.

Where structural design requirements necessitate the resistance of higher loads or concentrated forces, additional steel reinforcement mesh is incorporated within the structural plaster skins. The specification, placement, and detailing of such reinforcement are determined through structural design calculations and must be approved by a suitably qualified and competent professional in accordance with applicable engineering standards and regulatory requirements.

The Expanded Polystyrene (EPS) panels are designed with an interlocking profile that facilitates the formation of a continuous and integrated building envelope. A non-combustible polyurethane adhesive is applied at all interlocking joints to ensure structural continuity and airtightness between adjacent panels.

Adjacent EPS panels are separated by a 10 mm thick mortar web. These webs comprise high-performance cementitious mortar with a characteristic compressive strength greater than 50 MPa and are reinforced with alkali-resistant glass fibre mesh to enhance tensile strength and crack resistance. The mortar webs are either bonded to the EPS core using the non-combustible

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Mr Richard Somanje (Agrément South Africa CEO)
 Board Members: Dr Bongani Mabizela, Ms Buhle Tonise, Dr Lindelani Matshidze, Ms Keletso Lefothane, Mr Andries du Plessis, Ms Zanele Nkosi, Mr Phumlani Maseko, Mr Paul Heeger, Dr Julia Petla

polyurethane adhesive or cast directly onto the EPS panels during manufacture. Similar to the EPS panels, the mortar webs incorporate an interlocking configuration to promote composite action and improve the overall structural integrity of the wall system.

At corners and T-junctions, panels are interconnected through the application of the non-combustible polyurethane adhesive at the interface between adjoining EPS panels, ensuring continuity of the building envelope and effective load transfer across panel connections.

The exterior structural Citra Panel consists of a 170 mm thick EPS core positioned between two 25 mm thick reinforced plaster skins, resulting in a minimum overall panel thickness of 220 mm. The interior non-structural panel comprises a 90 mm thick EPS core enclosed by two 25 mm thick reinforced plaster skins, providing a minimum overall panel thickness of 140 mm.

The foundation system for the Citra Building System is designed, specified, and approved by a suitably qualified and registered structural engineer in accordance with the project-specific loading conditions, geotechnical requirements, and applicable design standards. The prefabricated panels are secured to the concrete foundation using one of three approved connection methods.

The first method utilises a galvanised steel U-channel, the dimensions of which are selected based on the thickness of the EPS core panel. The U-channel is mechanically fixed to the concrete foundation using expansion anchor bolts with a minimum steel property class of 5.8, providing a durable and reliable connection between the wall panels and the supporting structure.

Alternatively, the panels may be connected to the foundation using Basalt Fibre Reinforced Polymer (BFRP) starter bars that are chemically anchored into the concrete foundation. This connection method provides effective load transfer between the wall panels and the foundation while offering enhanced corrosion resistance compared to conventional steel reinforcement.

Openings and recesses required for building services are formed within the EPS core prior to the application of the structural plaster skins. Penetrations for conventional services, such as water supply and drainage pipes, are created by removing sections of the EPS core as required by the service layout. For services installed within the wall cavity, such as electrical conduits and wiring, channels are formed by chasing the EPS using a controlled heat source or suitable cutting tool. The routing and installation of all services are undertaken in a manner that minimises disruption to the structural integrity and performance of the panel system.

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

Copies are obtainable from: Chief Executive Officer (CEO)

Agrément South Africa, P.O Box 1022, Garsfontein, 0042