

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 4871

24 May 2024

AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 26 March 2020, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2020/612

Subject: Modular Container Building System

Certificate holder: Innovative Modular Concepts (Pty) Ltd

Description: Modular Container Building System is made of standard shipping containers of 6 045 mm long x 2 790 mm high x 2 591 mm wide in accordance with **ISO 1496-1**. The external face of the steel container is clad with 11 mm Magnesium oxide (MgO) boards with 50 mm mineral wool insulation of 12 kg/m³ between the board and the 2 mm thick steel container. The MgO board is secured to the container using steel c studs at 400 mm centres. The internal faces of the external walls are lined similarly to the external face. The external walls are 124 mm thick.

Internal walls are 72 mm thick, consisting of 50 mm mineral wool insulation core, clad with 11 mm MgO boards on both sides. The MgO boards are secured to each other using steel c studs at 400 mm centres. The walls are secured to the container with counter sunk screws.

The floors of the container are insulated with 75 mm mineral wool, which is encapsulated by 22 mm and 31 mm marine plywood floor boards beneath and above respectively.

The roof of the Modular Container Building System consists of three layers. Internally, the roof has a 50 mm Expanded Polystyrene (EPS) core panel clad with 0.5 mm chromadeck on both sides, with a 100 mm roof airspace between the chromadeck EPS panel and steel container roof. Externally, the roof is lined with 100 mm mineral wool insulation, and an IBR or similar roof cladding sheets fixed to timber purlins.

Doors and window openings are pre-cut prior to conversion to receive frames once the walls have been insulated and covered with MgO Boards.

All services are conventional and electrical conduits are surface mounted into appropriate service conduits. Services must be specified and installed in accordance with good building practice.

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 72381, LYNNWOOD RIDGE, 0040