

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 4917

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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 March 2024, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2022/637 (Amended March 2024)

Subject: Monl Frames Solid Wall Building System

Certificate holder: Monl Frames Steel (Pty) Ltd

Description: Monl Frames Solid Wall Building System consists of cold rolled light gauge steel frames that are designed in accordance with **SANS 517**. The frames are usually between 2600 mm to 2800 mm high with studs at 600 mm centres and 1 200 mm centres noggings or as determined by the design engineer. The frame is manufactured from a galvanised steel-lipped channel profile with a size of 89 mm x 41 mm x 11 mm x 0.8 mm thick. The steel frame members have a minimum yield strength of 550 MPa with a Z275 coating.

The foundations and the floor slab are conventional raft foundations with thickened-edged beams and are always the responsibility of a registered competent person.

The external wall frames are clad with a 1 mm thick expanded metal grid with 3 mm x 6 mm openings to each face, which acts as a plaster key. The cladding encapsulates Cellulose Light-weight Concrete (CLC) fibre core infill of 89 mm thick with a density of 600 kg/m³ and a concrete strength of 6 MPa. The overall thickness of the external composite wall is 121 mm.

The internal walls are constructed similarly to the external walls with both faces of walls finished with 15 mm thick Cellulose Light-weight Concrete (CLC) plaster applied to the expanded metal grid. The overall thickness of the internal composite wall is 121 mm thick.

Composition of External Walls	
121 mm	15 mm thick CLC Plaster + 1mm thick Expanded Metal Lath + 89 mm thick CLC Core (600 kg/m ³ density) + 1mm thick Expanded Metal Lath + 15 mm thick CLC Plaster.
Composition of Internal Walls	
121 mm - Wall type 1	15 mm thick CLC Plaster + 1 mm thick Expanded Metal Lath + 89 mm thick CLC Core 600kg/m ³ density + 1 mm thick Expanded Metal Lath + 15 mm thick CLC-Plaster.
210 mm - Wall type 2 (Dividing wall)	15 mm CLC-Plaster + 1mm thick Expanded Metal Lath + 178 mm thick CLC Core (900kg/m ³ density) + 1mm thick Expanded Metal Lath + 15 mm CLC-Plaster.

Doors and window frames can either be galvanised steel, aluminium, or timber. The roof trusses are constructed from light gauge galvanised steel channel sections with light- or heavy-weight cladding.

All other services are conventional and conduit holes are pre-drilled in the frame.

NB: The design and supervision of load-bearing external and internal walls of multi-story (up to three storeys) buildings as load-bearing walls as well as non-load-bearing internal division, occupancy, and tenancy separating walls with no service penetrations or terminations affecting the insulation of the Monl Frames Solid Wall Building System shall be carried out by a competent person.

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)

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