

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 3845

1 September 2023



AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 08 December 2022, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2022/637

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 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 graded strength of 550 MPa minimum yield strength 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 4 mm x 8 mm openings to each face which acts as a plaster key. The wall frames are then finished with the first layer of a 15 mm thick plaster and followed by a 20 mm thick plaster on the outer face and a 24 mm thick Cellulose Light-weight Concrete (CLC) plaster on the inner faces. The cladding encapsulates Cellulose Light-weight Concrete (CLC) fibre core infill of 89 mm thick with a density of 900 kg/m³ and a concrete strength of 6 Mpa. The overall thickness of the external composite wall is 150 mm thick.

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

Composition of External Walls	
150 mm	20 mm thick CLC Plaster+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 + 24 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 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.

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 72381, LYNNWOOD RIDGE, 0040