

NOTICE 435 OF 2009**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 2009, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE**Agrément Certificate No 2009/358****Name of product:** ITAS Modular Building System**Certificate holder:** I.T.A Security Co (Pty) Ltd**Description:**

The ITAS Modular Building System is a re-usable steel building structure. The foundation footings are 600 mm x 600 mm excavated to a depth of at least 600 mm or the depth specified by an engineer. A solid concrete plinth foundation is then cast up to the ground level. A 16 mm diameter treaded rod, for anchoring the building is encased in the concrete plinth. A 120 mm x 60 mm x 3 mm channel section is bolted onto the concrete plinth which then forms the formwork for the concrete floor. Onto the channel section an angle section (100 x 50 x 6 mm) is welded to which special folded steel plate columns are bolted at 1.2 m c/c spacing. The column has special slots so that it fits over the upstanding leg of the angle.

The external wall panels consists of folded 2 mm thick steel plate, stiffened by means of vertical top hat stiffeners (3 mm thick), fixed to the columns by means of a wedge system. On the inside the walls are lined with 15 mm gypsum board. The wall sections together with the columns form torsionally stiff walls around the perimeter of the structure.

All the internal partitioning walls are 15 mm thick "Rhinowall Dry Wall" and in secure areas these are lined with 2 mm thick mild steel sheets.

The roof is made up of tapered lipped channel beams (350 – 300 x 50), manufactured from 2 mm thick steel plate, as girder beams. These are bolted through their webs to the column so that the top of the girder is approximately purlin depth from the top of the column. Moment transfer capacity can be expected. On top of the girder beams, lipped channel (100 x 50 x 3 mm) purlins are connected to pre-positioned angles (1000 mm c/c) that are welded to the girder beams. The roof sheeting (0.8 mm IBR metal sheets) is then secured on the purlin. Ceilings, consisting of expanded metal panels with a frame are also fixed to the underside of the girder beams. For fire protection, a 15 mm gypsum board is then fixed to the underside of the expanded metal safety ceiling. In the client section, 15 mm gypsum board is used for ceiling. The roof sheeting together with the ceilings form a stiff diaphragm element.

The windows and doors are made of conventional aluminium frames clipped over columns and sealed externally with flexible silicone sealant. The floor is finished with rubber based interlocking tiles or similar.

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

Copies are obtainable from: The Manager
Agrément South Africa
P O Box 395
0001 PRETORIA