

AGREEMENT
SOUTH AFRICA

CONSTRUCTION
PRODUCTS
APPROVALS

AGREEMENT **97/259**
CERTIFICATE

Title:

M2 Emmedue Building System

Certificate holder:

Sannon Technologies South Africa (Pty) Ltd
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Valid until further notice (see third paragraph of Preamble on page 1)

COMPLIANCE WITH THE NATIONAL BUILDING REGULATIONS:

The following Regulations are deemed to be satisfied:

A13(1)(a) *Materials*

B1(1) and B1(2) *Structural design*

K1, K2, K3 and K4 *Walls*

L1 and L2 *Roofs*

T1(1)(b), T1(1)(c) and T1(1)(d) *Fire*



Subject

The Emmedue Building System is based on factory-produced internal and external wall panels and roof panels consisting of a core of polystyrene with a layer of steel weldmesh wire secured to both sides of the polystyrene. The weldmesh is fabricated from galvanised steel wire secured to both sides of the polystyrene with steel wire passing through the polystyrene and electro-welded to the weldmesh.

Corner and internal wall junctions are reinforced with an additional strip of weldmesh bent in an L-shape and secured to the wall panels. The roof structure is the same material as the wall panels, supported initially with timber props. The roof panels are secured to the walls with similar reinforcing mesh as is used for the wall junctions.

Both sides of the wall panels are finished with two layers of fine aggregate sprayed concrete and a final finishing coat of conventional plaster. Total sprayed concrete finish is approximately 35 mm per side.

The roof topping is 50 mm thick concrete worked to a smooth finish and waterproofed. On removal of the props, the ceiling is sprayed with concrete.

The surface bed is conventional with thickened edge beams in which reinforcing bars are cast to anchor the wall panels. Windows, doors and services are conventional.

Use

The certificate covers the use of the building system for the erection of single storey, detached dwellings and related out-buildings (H4) in all areas of Southern Africa.

Agreement South Africa

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SUMMARY OF AGREEMENT ASSESSMENTS

Aspects of performance	Opinion of Agrément South Africa	For greater detail see Part I, Section
Fire	All walls are classified FR with a 30 minute fire-resistance rating (non-combustible)	4.3.6
Thermal performance	Remains within the upper and lower limits of Agrément criteria in all climatic zones	4.4.1
Durability	Given adequate and regular maintenance the buildings erected with this system will be durable	4.5
Acoustic performance	Assessed airborne sound insulation is 35 dB ($D_{nT,w}$)	4.6.1
Condensation	Buildings constructed with external walls as described in the certificate will be acceptable in all climatic zones	4.6.2
Quality management	The quality scheme is based on recommendations contained in SABS ISO 9001 and will ensure that the design and manufacture and erection of buildings will be consistently satisfactory	4.8
Structural performance	The structural performance is satisfactory provided the buildings are within the dimensional limitations set, or if designed by a suitable competent person	5.2.1
Weathertightness	Meets the Agrément criteria for buildings in all climatic zones of Southern Africa	4.7

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