



Housing, Profiled Modular Roofing Systems and Controlled Environments



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# Introduction

Intastor is a leading provider of innovative green building systems used in a wide range of applications including the residential, education, medical, farming and commercial facilities.

We manufacture and install insulated panel roofs and top structures as immediate solutions that are extremely cost-effective whilst being simple and quick to erect. Our products are energy efficient in that our structures remain significantly cooler in summer and warmer in winter which contributes to dramatically reducing energy consumption levels and carbon footprint.

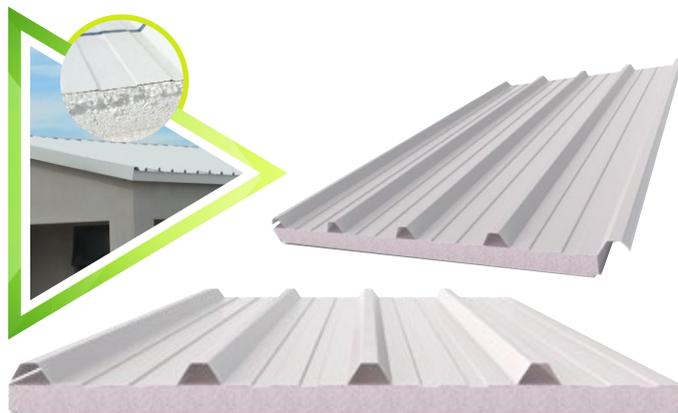


# Profiled Modular Roofing

Intastor's NHBRC-approved insulated roofing panel system provides significant benefits in terms of its structural strength, insulation properties, ease of installation and aesthetics. The insulated roofing panel represents a fast-track integrated roof and ceiling solution without the need for extensive supporting trusses and beams.

The sandwich design of our inverted box rib roofing panels allows a 125mm roof panel to span an impressive 8 metres without using any support beams, producing a clean uncluttered look. The tongue and groove joint systems facilitates easy installation by joining panels together on the underside with a normal lap joint. Our products are made from pre-painted corrosion protected mild steel suitable for all South African weather conditions and range in thickness from 50 to 150mm and have a cover width of 1100mm.

A full range of accessories is used to complete our roofing system including receiver channels, cappings, barge boards and brackets, gutters, etc.

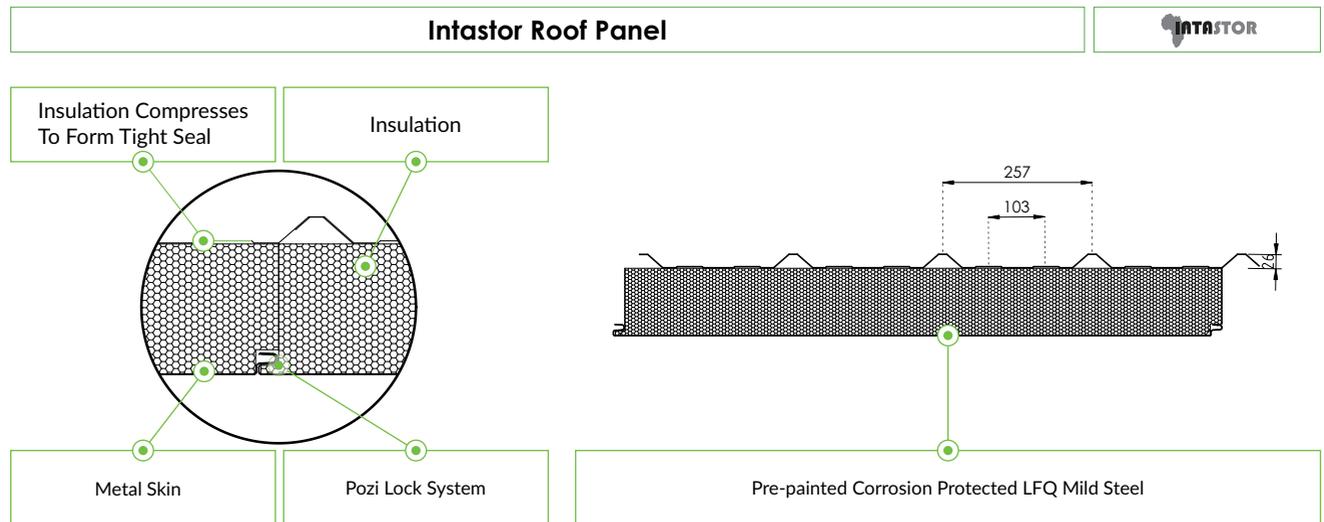


R' Values	75mm thick	100mm thick	125mm thick	150mm thick
Heat flow up*	2.28	3.00	3.71	4.43
Heat flow down*	2.34	3.05	3.77	4.48

Approximate Unsupported Max Span Length				
Non-Walk on	6000	8000	9000	10 000
Walk-on (130 kg)	5000	7000	8000	9000
Walk-on (180 kg)	4750	6000	6750	7500

Approximate Panel mass/m2 using pre-painted corrosion protected LFQ mild steel on both sides				
15D EPS Core – 0.5 mm skin	9.2	9.6	10.0	10.3

\* R' Values for roof panels using 15D polystyrene (m2/K/W)  
EPS is Flame Retardant SD grade as specified by EPSASA



# Modular Panels

Our insulated modular panels are manufactured by means of a continuous automated panel lamination line. During this process rolled steel is laminated onto a 15-density fire retardant polystyrene core with profiled interlocking joints and panels are cut to the required length.

Our manufacturing capacity is 50 000m<sup>2</sup> of panel each month and we offer a variety of profiles and colour options.

The installation process is fast and simple and typically involves our project managers and skilled employees training and upskilling local community members from inception to conclusion. This process facilitates the transfer of skills, sustainable employment opportunities and community pride through participation in the building process.



We use our panel solutions in a variety of products which includes but is not limited to:



Insulated Panel Solutions (such as cold rooms)



Permanent Housing



Temporary Residential Accommodation (TRAs) and Emergency Housing



Education Structures



Student Accommodation



Mine Camps

## Insulated Panel Solutions



Intastor provides insulated panel structures which serve a large number of industries and applications:



Temperature controlled rooms



Controlled atmosphere rooms



Distribution centres



Roof sheeting and ceiling insulation



Re-cladding of old buildings



Airlocks



Preparation rooms



Loading areas



Smoking tunnels



Pre-cooler tunnels



Packing stores



Plate and blast freezers



Abattoirs



Chicken houses



# Modular Panels

## Permanent Housing

Intastor has used its expertise in the insulated panel industry to develop and engineer houses in order to bring relief to the national housing crisis. We offer a solution which is cost-effective, well insulated, safe and easily installed. Each project is designed to fit the requirements of the individual project to ensure maximum utility for each unit. We make use of local communities in the installation of our projects to make an even bigger difference beyond that of our housing.



Our homes are safer from the threat of fires, due to our panels being fire-resistant, and offer more comfort and security for occupants due to the insulated properties keeping the home cool in summer and warm in winter, as well as being able to lock up their home to protect their belongings.

## FLISP - Finance Linked Individual Subsidy Programme

By making use of the FLISP model, prospective first-time home-owners earning between R3 501 and R22 000 per month can obtain a government subsidy between R27 960 and R121 626, depending on their income. This opens the market for those individuals who are excluded from mortgage finance due to their lower income and earn too much to qualify for a government 'free-house' subsidy scheme.



# Modular Panels

## Temporary Residential Accommodation (TRAs) And Emergency Housing

Due to our ability to fast-track the design and manufacture of our panelled homes, we provide emergency or temporary housing on short notice, which prevents the displacement of people who have lost their homes due to disasters such as fires and floods.



## TRA+

In order to improve the standard of living for those who occupy TRAs, Intastor has developed the TRA+, an upgraded version which provides more space, comfort and luxury. By combining the standard TRA with a loft design, a large amount of space is freed up for living area.

In addition to this, additional extras may be added in the form of solar-powered LED lighting, propane heated water and a rain collection system to be used for washing, providing a more eco-friendly solution to assist current electricity constraints by taking these homes off of the grid, and also providing the homeowner with a platform to save costs into perpetuity.



## Education Structures

Many schooling institutions in South Africa lack infrastructure, with young learners being taught without proper facilities. Intastor has identified this need and has developed prefabricated modular buildings which are selected for clients based on their intended use, prevailing climate conditions and their budget needs. Sizes and layouts are adaptable and thus can be customised to meet the requirements of the project.

We offer a holistic solution that makes use of our network of professional erection teams and experienced labour crews throughout South Africa and most neighbouring countries.

 We have successfully implemented our system in the construction of:

-  Early Childhood Development (ECD) Centers
-  Classrooms
-  Hostels
-  Schools
-  Colleges
-  Ablutions
-  Clinics

# Modular Panels

## Student Accommodation

Students enrolled at tertiary education institutions find that their available accommodation options are either too expensive or there is insufficient availability to cater for the demand. For rural and outlying institutions, our innovative student accommodation provides a far more cost-effective solution than traditional building systems, while ensuring that students have a comfortable space in which to live, study and socialise.



## Ecoboard

A reliable and economical alternative to gypsum or plaster board, Ecoboard is a paper-wrapped, water-resistant ceiling or dry wall board. Ecoboard provides thermal and sound insulation and a high strength to weight ratio which leads to fewer breakages.

Made from a fireproof mix sandwiched between two outer layers of custom-made paper results in a board which, at 9mm thickness are fire stop. Ecoboard is fire rated as per SANS 10177-Part 2 test protocol and holds a 30-minute fire rating.

### Applications include:

-  Ceilings where a superior smooth finish is required after skimming.
-  Drywalling with the water resistance having added benefits.
-  Drop-in ceiling tiles due to moisture not affecting the shape of the board.
-  External use where a quality primer is used.
-  Sandwich panels are available where boards are laminated on a sheet of expanded polystyrene for use as a partition or office divider.



# ISO-LAM

ISO-LAM panels are ideal for insulating roofs, ceilings and walls as they provide the unique advantage of a permanent maintenance-free internal surface. ISO-LAM panels consist of fire-retardant EPS sheets laminated on one face with a PVC skin.

ISO-LAM panels have a minimal environmental impact as they can be recycled in many ways. The panels are non-toxic and washable, making them hygienic and suitable for use in food production environments.



## Accreditations



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