



DESIGN CONSTRUCT
ideas

LUKE DODDS

Project Manager

M: 0408 003 185

luke@dcideas.com.au

SAM DODDS

Building Designer | B.BDes, Dip.Bus.

M: 0416 169 390

sam@dcideas.com.au

www.dcideas.com.au

Building projects from concept to creation!

Structural Insulated Panel System

Making good ideas happen

Structural Insulated Panel System Project Team

DC Ideas

- ▶ System Owner/Developer
- ▶ Local Commercial and Residential Builder
- ▶ Design Service - In House Building Designer
- ▶ Extensive Remote Area experience
- ▶ SIHIP Contractor (Nguju, Gumbalunya, Maningrida)

McGees Property

- ▶ Property Consultants
- ▶ Darwin Based
- ▶ Supporting DC Ideas to implement system due to its potential to lower remote housing costs, encourage economic development, employment and skill capacity in remote communities.

Reinforced Cementous Matrix boards - *Each face (in and out) has an insulated inner core...*

Panels can be installed by low skilled but trained workers, under appropriate supervision.

Panels are moisture/termite resistant, cyclone rated, impact resistant but lightweight, enabling faster construction.



- ▶ DCI Panels can be used as the interior and exterior wall system.
- ▶ Panels are pre-ducted for wiring and plumbing
- ▶ The surface can be rendered, plastered, painted, profiled or tiled.
- ▶ The bottom and top wall plates (track) and vertical stud closers are all fabricated from Fibre Reinforced Plastic (FRP).



- ▶ DCI Panels or sheets can be used as a flooring system.
- ▶ Floor surfaces include tiles, linoleum, timber paneling, vinyl planks, etc.



Why Have You Not Seen It? And System Benefits

- ▶ The DC Ideas Panel System is the only one suitable for NT/Tropical (but not limited to) climatic, social and economic conditions.
- ▶ The current system reflects several years of research and development costing hundreds of thousands of dollars.
- ▶ A deliberate commercial decision has been made to enter the market gradually to adjust and evolve the system to the changing individual requirements.
- ▶ A wide range of modular building/panels are available but none are constructed specifically for NT conditions and all have a range of issues associated with their application.
- ▶ These include the use of timber fibre or cold room panels which attracts termites and moisture and the corrosion of metal fixing screws.
- ▶ No other system is known to use fibre reinforced plastic rather than steel as structural members.
- ▶ The panel material and the absence of steel allows houses to be cleaned by washout without the fear of residual water encouraging corrosion.
- ▶ The panels are highly impact resistant and can be easily repaired with flushing compounds.
- ▶ All panels are structurally independent, have high insulative and acoustic properties.

Summary of Advantages for Products and Systems

- ▶ Corrosion avoidance/resistance
- ▶ Resistance to water damage
- ▶ Non-combustible insulation core and cladding
- ▶ Lower maintenance requirements
- ▶ Design flexibility
- ▶ Decreased building cost potential
- ▶ Reduced overall construction time
- ▶ Simplicity of installation
- ▶ Low reliance on skilled labour
- ▶ Fire, mould, & termite resistance
- ▶ Suitability for varying terrains
- ▶ Able to be used in all build zones including Cyclonic zones
- ▶ Effective thermal insulation
- ▶ High acoustic insulation capability

What's on Offer

- ▶ Opportunity for community engagement through employment, up skilling and training.
- ▶ Community consultation and input to designs.
- ▶ Full building service is available but it is understood that it may not be required.
- ▶ DC Ideas can design any shape/style of building required, not limited to housing.
- ▶ Supply all building panels and componentry.
- ▶ Train your staff.
- ▶ Supervise construction.
- ▶ Quality Control.
- ▶ Building certification.
- ▶ Warrant product.
- ▶ Service and product pricing available on request.