



# Presentation Dec 2012

LEAD SUPPLIER PROVIDING TOTAL TURNKEY REMOTE HOUSING SOLUTIONS





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## Executive Summary

AMC provides accommodation, facilities and support infrastructure solutions for the mining and resource industry.

The AMC experience, organization, systems and processes are designed as a solution orientated profile to provide a complete turnkey solution ensuring the optimum result for our client.

AMC is not representative of a single manufacturer or product. We have established a qualified range of supplying manufacturers with proven capability and capacity, providing a solution, as opposed to selling a product.



## Executive Summary (Cont)

Working with AMC means working in partnership – we take time to get to know our clients' requirements and have a culture of open communication, honesty and respect. By maintaining a single point of responsibility for project delivery, we take a collaborative approach to working with our clients, to achieve the best outcome.

We aim to make our clients' lives easier by providing a 'one stop shop' that caters to all their needs, from concept design through to project completion.



## Executive Summary (Cont)

At AMC, we believe true value for our clients lies in a fully utilized asset, which has been delivered at the optimum cost, in an efficient manner. Our vast experience in pre-construction services enables AMC to create innovative project solutions while ensuring trade-level 'buildability'. Our method of service to and beyond final completion ensures a smooth transition from construction to operation and maintenance.

Our unique business model is designed to provide true cost benefits to our clients. AMC has selected a range of independent businesses across all professional disciplines that are dedicated to AMC projects. This greatly reduces high fixed operational costs while providing the responsiveness that dedicated businesses provide.



# CERTAINTY



**FLEXIBILITY**



# SUSTAINABILITY





## Mission Statement

To be the leaders in providing a complete one-stop project management service in building healthy and robust communities in remote areas. This is achieved through the integration of high-quality affordable housing products built to Australian standards, delivered on time and on budget.



## AMC Value Statement

- The AMC vision is to be the company of choice in the field of camp accommodation, facilities and support infrastructure in the Australasian region.
- As we earn our clients loyalty and respect through advising on superior solutions, quality service and continuous improvement, driven by integrity, innovation and application.



## AMC Value Statement (Cont)

Our mission is to produce high-quality, low cost, easy to use products that incorporate high design and manufacturing values for the client.

We intend to provide products that are not intimidating for “non building industry purchasers.”, while exceeding the requirements of construction industry specialists. We wish to enhance and integrate our supplier diversity programs into all of our procurement practices and to sustain profitable growth by providing the best customer result.

This is a combination of the highest level of service, a selection of quality products at competitive prices. .



## AMC Value Statement (Cont)

Our core values include the following:

- Superior customer service
- Taking care of our people
- Giving back
- Doing the "right" thing
- Respect for all people
- Entrepreneurial spirit
- Building strong relationships



**BOARD OF DIRECTORS**





# Alan Marshall - CEO





## Tony McDowell - Director



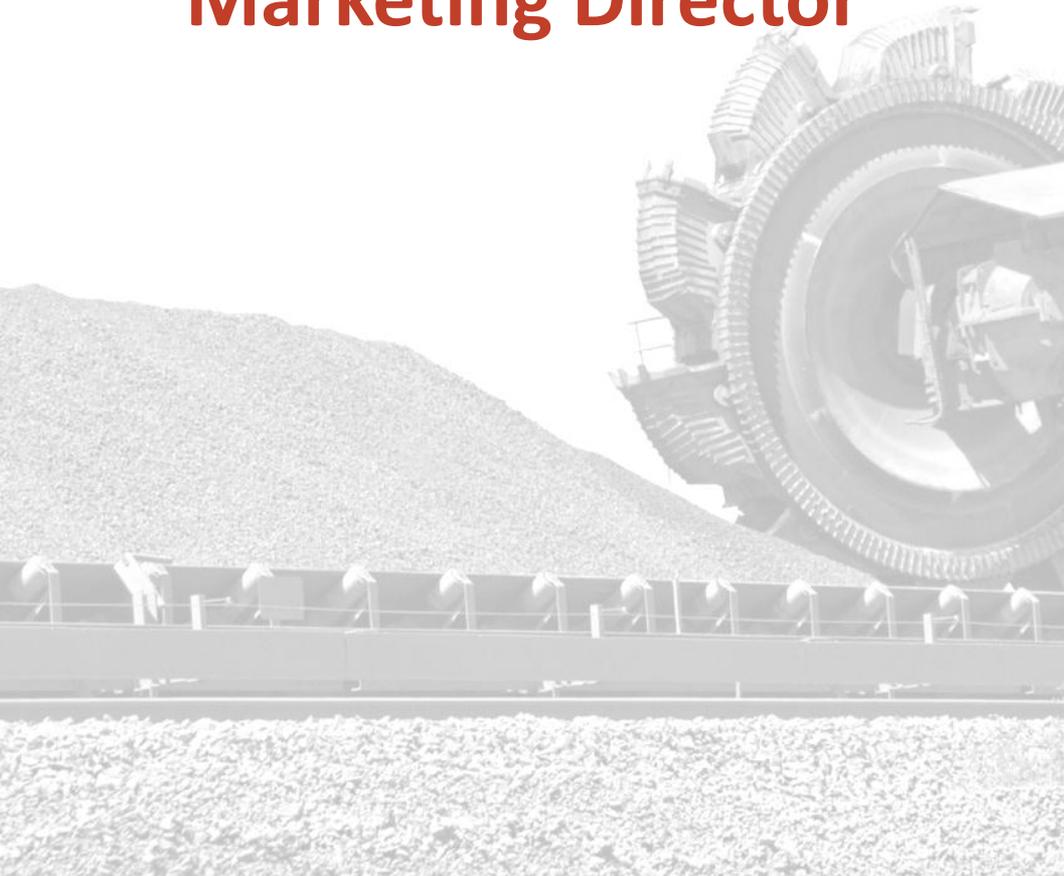


## Troy Figliomeni - Director





# Martin Purcell – Marketing Director





# Remote Housing Solutions

- Mining Villages
- Rural Communities
- Crisis Housing
- Affordable Housing
- Indigenous Communities





## Unique Offering

- A team of AMC dedicated partners across every discipline
- A range of Australian manufacturers dedicated to AMC
- Asian manufactured products that will exceed your expectation in both quality and construction time
- Capability to deliver with both certainty and quality
- Dedicated Tier 2 Construction project delivery team
- Proven Financial capacity to support major projects



## Key Attributes

- Project orientated solution
- Durable product, suitable for the region
- Effective design based upon PROJECT requirements
- Quality of manufactured product
- Proven supply capability
- Capable manufacturing base
- All manufacturing suppliers to have verifiable QA systems and quality control
- Manufacturers financially capable of consistent supply
- Efficient Logistical services to site



## Proven Capabilities

- AMC has the proven capability to procure the manufactured building (accommodation/facilities/support infrastructure) product in both Australia and internationally.
- Our strategy at all times is to ensure a “hands on” approach to the product manufacture, quality control, packing for shipping and management of the containerization process.



# Project Understanding & Management

- AMC has secured a skilled management team with solid hands on and management experience. In addition, our AMC team has extensive experience in rural and remote locations.
- AMC is highly experienced in product manufacturing processes, international trade, and shipping and Australian logistics planning and risk management procedures to deliver their component of this project.



## Strong Consultant & Supply Chain Partnering

This forms the basis of project delivery. A respect for designers and a solid understanding of the process expedites the concepts and the outcome. We carry out extensive liaison with all project stakeholders and inspire confidence in the process. For each project we provide our client with a quality delivery team.



# Delivery Capability

AMC has :

- The financial capacity to fund the projects
- The ability to reduce costs on the client's behalf
- Control of the production/delivery process
- Our business supports this process at an economical cost structure, and provides continual management and supervision of the procurement process
- AMC offers a variety of options for successful importing of Asian manufactured product, logistics and management processes



## Delivery Capability

- The key advantage that AMC provides is the removal of any “middle men” mark ups on cost, ensuring that our clients can purchase at “factory door” pricing.
- We work and act on our clients behalf in their best interests.
- Manufactured in Australia by Australians for Australian conditions
- Quality Overseas product built to Australian Standards



## Provision of Services:

- Flat pack portable buildings
- Modular style portable buildings
- Pod style accommodation units
- Modular housing
- FFE imported products. (furniture, seating, mattresses, steel storage)
- FFE Australian supplied products



## Provision of Services (Cont)

The AMC services comprise the presentation to our clients the options with regard to the sourcing, design and supply of cost-efficient modular buildings, suitable for offices, staff accommodation, medical facilities, commercial kitchen/mess hall through to the supply of furniture, seating and bedding products.

Our core skill is the sourcing and then adaptation and customizing of successfully manufactured product ranges from quality high volume manufacturers into products suitable to the Australian project market place.

AMC applies its highly experienced knowledge and expertise to minimize the risk for our clients when sourcing product.

AMC ensures that the client is purchasing at “factory door” pricing, ensuring that there are no “middle men” margins in the procurement process.



## Situation of Many Existing Villages

- Initial camps designed for a shorter lifespan.
- Camp requirements have undergone a significant evolution. Current old style donga accommodation both local and imported is sub standard and no longer acceptable.
- The creation of sustainable communities both from a human health perspective and an environmental perspective has become paramount.
- Quality and longevity have sometimes been sacrificed for haste, due to demand and time constraints. The negative impact of this is now being felt.
- Much of the early solutions simply do not fulfill the new village style requirements and transformation is needed.



## AMC Solution

Creating an overlay of the camp and redesigning the layout.

Biting the bullet and committing to fix the problem.



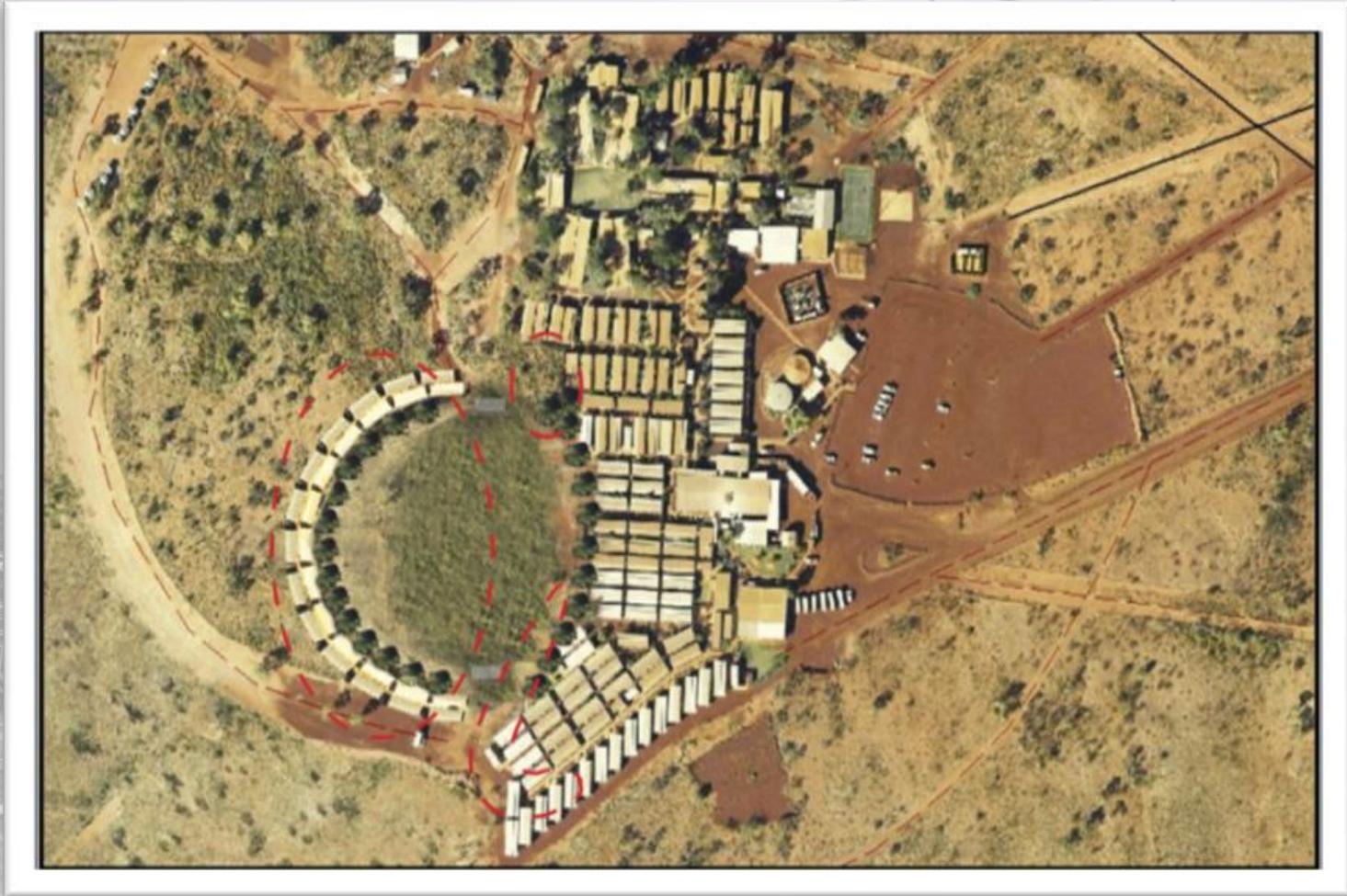


Introducing new quality accommodation in stages with access by covered walkways to enable services to be extended to the new accommodation units attached to the walkways, therefore causing minimum disturbance and minimum footprint.



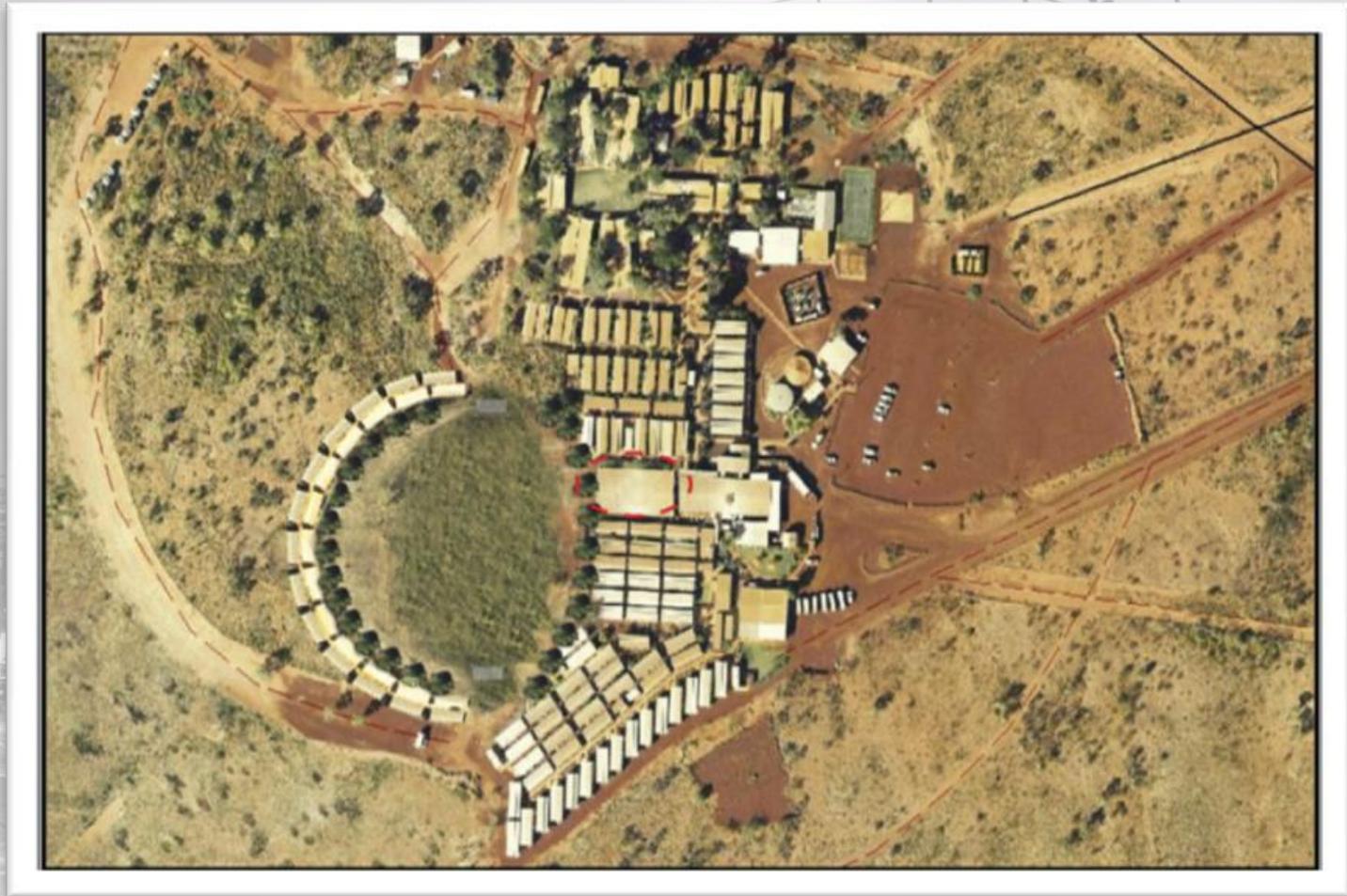


Stage one will be the extreme outskirts of the new village concept and will allow transfer of workers from ten accommodation units into ten new accommodation units





This will allow the removal and relocation of seven accommodation units immediately behind the mess hut by crane, to allow access to remove other deteriorated accommodation units and give access to expand the Mess / Kitchen in an orderly manner.





Three further deteriorated accommodation units can then be removed to allow access by crane to remove the rows of defunct accommodation units and return them to the lessor, thereby ceasing payment on unusable accommodation.





The Village can then be systematically redesigned with new quality accommodation and the old accommodation can be either discarded, sold to start up miners or station owners or moved to temporary locations but this last suggestion is not cost effective.





AMC can supply a Mobile Kitchen, Mess Accommodation, all of which is easily transportable and can be erected and inhabited within three days with very little footprint on the land.





## Some of AMC's Partners

- Abbotts Solutions
- Adagold Aviation
- Baileys Environmental
- Contrast Construction Builders
- DTS Group
- Enviroplus
- ETS Architects & Engineers
- Force 10
- HWL Ebsworth Lawyers
- Magnesium Oxide Board Corp Pty Ltd
- Modular Building Systems
- Modulex
- MPN Consulting
- PlanWest WA
- Polyline Industries
- Ranbury
- Reward
- Wood & Grieve Engineers



Magnesium Oxide  
BOARD CORPORATION



MgO Corp Boards making our world a safer and greener place to live





Magnesium Oxide Board Corporation is ISO9001 & 14001 compliant and certified for the manufacturer and supplier of the worlds greenest sheathing and panel board products.

All products of MgO Corp Board have been CodeMark audited, approved and registered through JAZ/ANZ and carry the appropriate certification registration code approval number and logos as issued by the governing authorities.



Australians and New Zealanders can now choose to build with confidence when selecting MgO Corp Board products.

MgO Corp Board products are used extensively in building and construction every day throughout Europe, the UK, the USA and Asia. Magnesium oxide board has been in the building industry for hundreds of years for use in residential and commercial buildings.

Now completely approved and available through Magnesium Oxide Corporation, Australia and New Zealand can finally enjoy the benefits of the world's greenest building products at affordable and competitive pricing.

#### Complies with the Building Code of Australia

- BCA Volume 2 Part 3.5.3.3, Fibre cement planks and weatherboard cladding
- BCA Volume 2 Part 3.5.3.4, Fibre cement sheet wall cladding
- BCA Volume 2 Part 3.5.3.5, Eaves and soffit linings
- BCA Volume 2 Part 3.7.1, Fire separation for FRL to **(-120/120)**
- BCA Volume 2 Part 3.8.6, Sound insulation to **> Rw 54**
- BCA Volume 1 Section C for FRL to **(-120/120)**



### Features & Advantages:

- MgO Corp Board significantly reduced installation costs. Depending on the application, MgO Corp Board offers savings of 50% to 200% over competing products. **EG: A Single 12mm MgO Corp Board CODEMARK APPROVED product offers -/120/120 fire protection. This example uses 200% less material!!**
- MgO Corp Boards are non-nutrient to mould or fungus and do not support insect life. Providing superior moisture resistance in high humidity areas and combats the growth of mould and mildew.
- MgO Corp Boards are resistant to water.
- The board will not disintegrate when immersed in water or exposed to freeze/thaw cycles for prolonged periods of time.
- MgO Corp Boards can be finished with any traditional drywall construction compounds, materials and finishes.
- MgO Corp Boards are manufactured from a combination of magnesium oxide and magnesium chloride. It includes non hazardous and environmentally friendly fibrous reinforcement.
- MgO Corp Boards come in light creamy white colour.
- Standard production material is very smooth one side and sand textured on the other.
- Either solvent based oil paint or water based latex paint can be used. If the panels are to be directly exposed to rain and weather, apply a prime coat of acrylic-siloxane waterproofing sealer, followed by oil based paint.
- Standard edges are square and tapered. Special edges and sizes are available.

### Interior / Exterior:

- Where MgO Corp Board is to be used as a mounting surface for ceramic tile, such as in a bath or shower enclosure, solvent mastic is recommended.
- Magnesium Oxide Board Corporation recommended assemblies consist of exterior wall, interior wall, shaft wall, steel column, staircase, ceiling, floor and roofing.

### Applications Include:

- Residential homes & Apartment Complexes
- Commercial & high rise buildings
- Schools & Hospitals
- Hotels & Restaurants
- Nightclubs
- Airports
- Sub way stations & tunnel projects

MgO Corp Board products do **NOT** contain asbestos, gypsum, lime, cement, formaldehyde and other harmful radioactive substances.





### Flooring Applications:

- MgO Corp Flooring Boards can be used with wood or light gauge steel framing.
- MgO Corp Flooring Board diaphragm stiffness allows distributed loads of over 240psf (117kg/m<sup>2</sup>) for L/360 when supported on 16" (406mm centres and 360psf (1758kg/m<sup>2</sup>) for L/240.
- Flexural strength is equivalent to concrete at approximately 3000psi (20,670kPa) in compression.
- MgO Corp Flooring Boards can be used in heavy commercial construction with the assembly consisting of I-beam construction and Type B corrugated decking in spans up to 5' (1.5m), thus eliminating costly and time consuming concrete pours.

### Performance Characters:

- Density: Approximate density of each thickness is 0.95-1.10g/cm<sup>3</sup>. Density can be adjusted in the production.
- Fireproof characteristic: A grade, not combustible
- Intensity of bending resistance when dry: 18Mpa
- Intensity of bending resistance when moisture-saturated condition: 22Mpa
- The rate of deformation when moisture is picked up: 0.26%
- The shrinking rate when heated: 1.0%
- Water permeability: There is no drop of water to emerge in the back of the board
- Impact resistant: No crack, strip and/or run through
- Thermal resistance: 1.14<sup>2</sup>k/w with R-values Starting above 1.5
- Sound insulation: BCA V2 3.8.6 >Rw54 & STC Double Sheet 9mm System of STC60
- Security: 100% free of asbestos, formaldehyde and benzene.

### Properties & Performance

- MgO Corp Boards are CODEMARK APPROVED and offer 30min, 60min, 90min & 120min fire resistant wall systems, providing an unprecedented degree of safety and security. **(technical data is available for review on fire protection configurations that offer 180 & 240min using MgO Corp Boards)**
- MgO Corp Boards have a flame spread and smoke propagation rating of 0 per ASTM E84. STC rating of 53 on a 2 hour UL assembly and 54 on a 3 hour UL assembly.
- MgO Corp Board panels may be fastened to supporting joists using non corrosive self drilling, self countersinking and or corrosion protected cement board screws.
- Fasteners should be spaced at 12" (305mm) intervals along edges. Spacing may be increased to 18" (457mm) at intermediate joists.
- MgO Corp Boards may be cut, trimmed or shaped using ordinary power or hand tools.
- MgO Corp Board products are the ideal alternative to clay materials, gypsum board, cement board, fyrchek and or the upgrading and transformation of aluminium composite panel products.





### Magnesium Oxide Board Corporation Sheathing Attributes Comparison

Attributes	Magnesium Oxide Board	Gypsum Board	Plywood/OSB	Cement Board
Fire Resistant & Non-Combustible	Yes	X	X	Yes
Water & Moisture Resistant	Yes	X	X	Yes
Mold & Mildew Free	Yes	X	X	Yes
Insect Resistant	Yes	X	X	Yes
Nail	Yes	Yes	Yes	Yes
Cut/Saw – No special tools	Yes	Yes	Yes	X
Wallpaper over	Yes	Yes	X	X
Tile Backer	Yes	X	X	Yes
Insulation Sound & Heat	Yes	X	X	Yes
Environmentally 'Green' & Non-Toxic	Yes	X	X	X
Strong & Durable	Yes	X	Yes	Yes
Light Weight	Yes	Yes	X	X
Recyclable	Yes	X	X	X

### Magnesium Oxide Board Corporations Board Physical Characteristics Comparison

Value	Magnesium oxide board	Gypsum plasterboard	Gypsum wallboard
Bending ultimate strength, MPa	27	5,3	3,5
Density, kg/m <sup>3</sup>	800-1300	1200	830
Thermal conductivity, W/m <sup>2</sup> °	0,32	0,22-0,36	0,18
Combustibility	Non combustible	Not easily combustible	Not easily combustible
Thermal linear expansion coefficient	0	0,5-1,5%	0,5-2%
Facial surface hardness, MPa	5,9 – 8,3	2,2	1,8
Surface moisture absorption	no more than 0,34%	no more than 3%	no more than 10%
Vapour permeability, mg/m <sup>2</sup> h*Pa	0,11-0,14	0,15	0,16





## Product Data Sheet: Magnesium Oxide (MgO) Board

Product of: Magnesium Oxide Board Corporation Pty Ltd  
ACN: 151 952 724

### (1) Description of Product:

MgO Board/ Fireproof/ Water Resistant / Impact & Acoustic Boards (Magnesium Oxide Board)

### (2) Places of applications:

Residential, Commercial and Industrial Building & Constructions, Partition Walls, Internal & External Sheeting, Flooring Systems, Common Finishes, Paper Coated, Laminated or Decorative Finishes, Suspended & Acoustic Ceilings, XPS/EPS Sandwich Panels, etc.

MgO Corps boards are lighter, flexible, pliable & more cost effective than traditional sheeting systems significantly reducing installation cost over a project at times offering savings of between 50% to 200% of that of competing products depending on the applied applications.

### Construction, Material Finishes

MgO Corp products are manufactured from mineral components that are fibrous reinforced to assure the bonding process is superior at all times. All products have been certified and registered under the AS/NZS Standards and the BCA Codes of Australia.

MgO Corp panels and boards are manufactured in natural beige to cream colour. The standard production finish is very smooth on one side and sand textured on the other with standard edges being square or tapered (special edges and size sheets are available subject to order quantities).

### (3) Ingredients:

- MgO (Magnesium Oxide)
- MgCl<sub>2</sub> (Magnesium Chloride)
- Perlite (SiO<sub>2</sub>)
- Alpha Cellulose Material
- Filer Glass fibre mesh and non-woven fabric

### (4) MgO Composition Ingredient:

- Magnesium Oxide (MgO)
- Magnesium Chloride Solution (MgCl<sub>2</sub>) (included NaCl≤1.5%, KCl≤0.7%)
- Phosphoric Acid (H<sub>3</sub>PO<sub>4</sub>)
- Iron Sulphate (FeSO<sub>4</sub>)
- Polyvinyl Alcohol Glue
- Aluminium Sulphate Water Solution (AlSO<sub>4</sub>)
- Magnesium Sulphate
- Alpha Cellulose Material
- Perlite
- Glass fibre mesh and non-woven fabric





### MgO Corp Board Standard Production Sheet Sizes

Thickness	Width (Cut to size available)	Length (Custom sizes available)
3mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
4mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
5mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
6mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
7mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
8mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
9mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
10mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
12mm	1100mm	2440mm, 2745mm, 3050mm
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14mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
15mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
16mm	1100mm	2440mm, 2745mm, 3050mm
	1220mm	2440mm, 2745mm, 3050mm
18mm	1100mm	2440mm, 2745mm, 3050mm
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24mm	1100mm	2440mm, 2745mm
	1220mm	2440mm, 2745mm
30mm	1100mm	2440mm, 2745mm
	1220mm	2440mm, 2745mm
38mm	1100mm	2440mm, 2745mm
	1220mm	2440mm, 2745mm
45mm	1100mm	2440mm, 2745mm
	1220mm	2440mm, 2745mm
50mm	1100mm	2440mm, 2745mm
	1220mm	2440mm, 2745mm





# CERTIFICATE OF CONFORMITY

This is to certify that

**Magnesium Oxide Board™ Corporation  
(MgO) Board™**



**Product description**

MgO Corp Magnesium oxide board is an environmentally friendly all natural magnesium oxide cold ceramic sheeting. Available in the following dimensions:  
Brand name : MgO Board™

- 3mm to 30mm thickness
- 1220X2440,
- 1200x2400.

**Product purpose or use**

MgO board is intended as an interior and exterior wall sheeting. Drop ceiling panels Fascia and Flooring.

**Certificate holder**

Magnesium Oxide Board Corporation Pty Ltd  
Shop 8/175 Ocean Drive  
Twin Waters Qld 4564  
ABN 47 151 952 742

**CodeMark certification body**

Bio Technology Australasia  
(ACN 111 217 568 ) Trading as "CertMark Australasia"  
JAS-ANZ Accreditation No. 24450210AK  
Address: PO Box 7144, Sippy Downs, QLD, 4556  
Website: www.certmark.com.au

**Complies with the Building Code of Australia:**

- BCA Volume 2 Part 3.5.3.3, Fibre cement planks and weatherboard cladding
- BCA Volume 2 Part 3.5.3.4, Fibre cement sheet wall cladding
- BCA Volume 2 Part 3.5.3.5, Eaves and soffit linings
- BCA Volume 2 Part 3.7.1, Fire separation for FRL to (-120/120)
- BCA Volume 2 Part 3.8.6, Sound insulation to Rw 53
- BCA Volume 1 Section C for FRL to (-120/120)

**Subject to the following conditions and limitations:**

1. Must be installed in accordance with the approved MgO board™ general installation manual (GIM- edition 1- 2011) or fire installation manual (FIM edition 1-2011)
2. Must be installed by a qualified tradesman or builder
3. Must only be used in situations applicable for the products use as detailed in the relevant sections of the installation manual ( GIM edition 1-2011 ) or fire installation manual (FIM edition 1-2011)
4. When used in fire separation wall must be installed in accordance with the MgO Corp. fire wall installation manual and only in non load bearing walls for FRL (-120/120)

*John Thorpe*  
**John Thorpe**  
Director  
CertMark Australasia

*K. Denison*  
**Kevin Denison M.Sc**  
Unrestricted  
Building Certifier

13/08/2011  
Date of issue

13/08/2014  
Date of expiry

CM-11-A0007  
Certificate Number



• This Certificate of Conformity is issued by an accredited certification body under arrangement with JAS-ANZ. The ABCB does not in any way warrant, guarantee or represent that the Product the subject of this Certificate of Conformity conforms to the BCA, nor accepts any liability arising out of the use of the Product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate.

• It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the ABCB website, [www.abcb.gov.au](http://www.abcb.gov.au).



# Registration Certificate

The Certification Body of CertMark Australasia Pty Ltd

Herby certify that:

**Magnesium Oxide Board Corporation**

Shop 8, 175 Ocean Drive Twin Waters Queensland 4564

Has implemented a Quality Management System in accordance with:

**ISO 9001:2008**

The scope of the quality management system includes:

- A Quality management system of the importation and sale of Magnesium Oxide Board sheeting.

Certificates expiry date: 1/01/13

Certificate Registration Number: QA-2-1112

Effective date: 1/01/12

Signed:

*John Thorpe*





# Registration Certificate



The Certification Body of CertMark Australasia Pty Ltd

Herby certify that:

**Magnesium Oxide Board Corp**

Shop 8, 175 Ocean Drive, Twin Waters Qld 4564

Has implemented an Environmental Management System in accordance with:

**ISO 14001: 2004**

The scope of the environmental management system includes: The implementation of an environmental management procedural system relevant to the importation and sale of magnesium oxide board sheeting.

Certificates expiry date: 10/01/13

Certificate Registration Number: EMS-1-0112

Effective date: 10/01/12

Signed: *John Thorpe*































# FLAT PACK BUILDING SYSTEM



Remote

Comfortable

Mining

Affordable

Educational

Versatile

Style

Reliable

Modern

Unique

Durable

Simple



**GAL. STEEL BEARERS AND G500 ZINCALUME JOISTS  
SUPABOARD MAGNESIUM T&G 16MM, 3X1 STRIPS**



## WALL SYSTEM

- POLYURETHANE INJECTED PANELS DELIVER R VALUE UP TO **3.6**
  - PANELS ARE MECHANICALLY FIXED
  - PVC CONDUITS FOR SERVICES ACCESS
  - INTERNAL / EXTERNAL CLADDING is 6mm FC READY TO FINISH
- STANDARD PANEL HEIGHTS OF:
- 2.4 – 2.7 – 3.0 - 4.2 MTR**  
**1.0 AND 2.0 METRE WIDE**





# ROOF SYSTEM

**SECTIONS NEST TOGETHER**

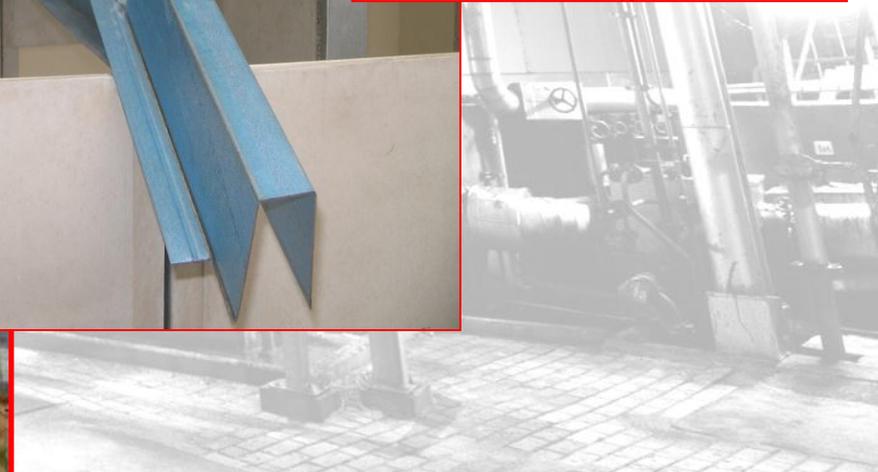
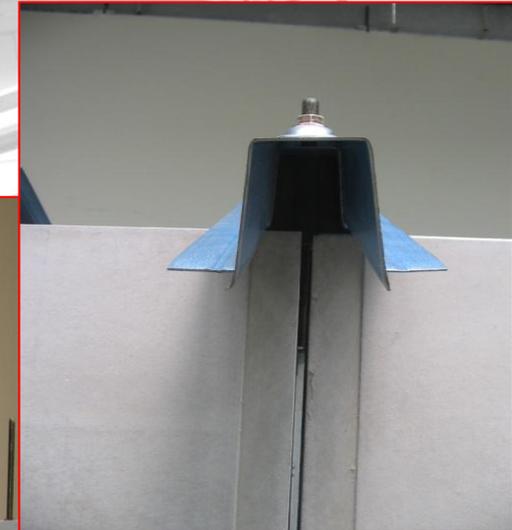
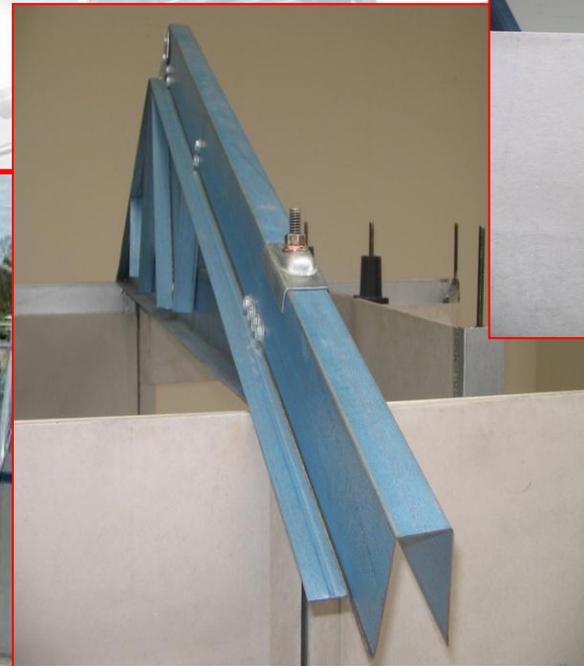
**- EFFECTIVE MECHANICAL JOINTING**

**NO SITE WELDING REQUIRED –**

**- PROTECTIVE COATINGS**

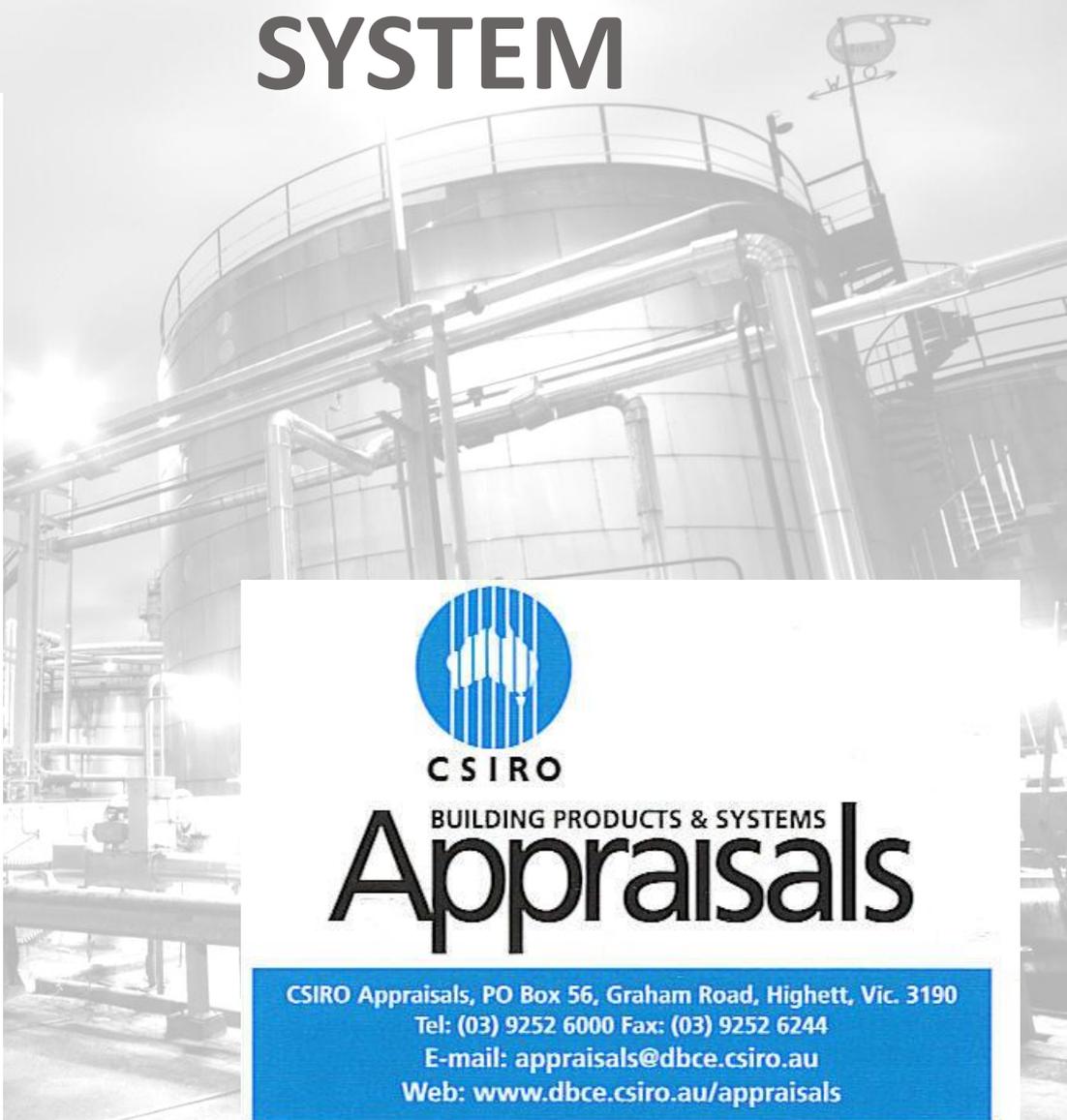
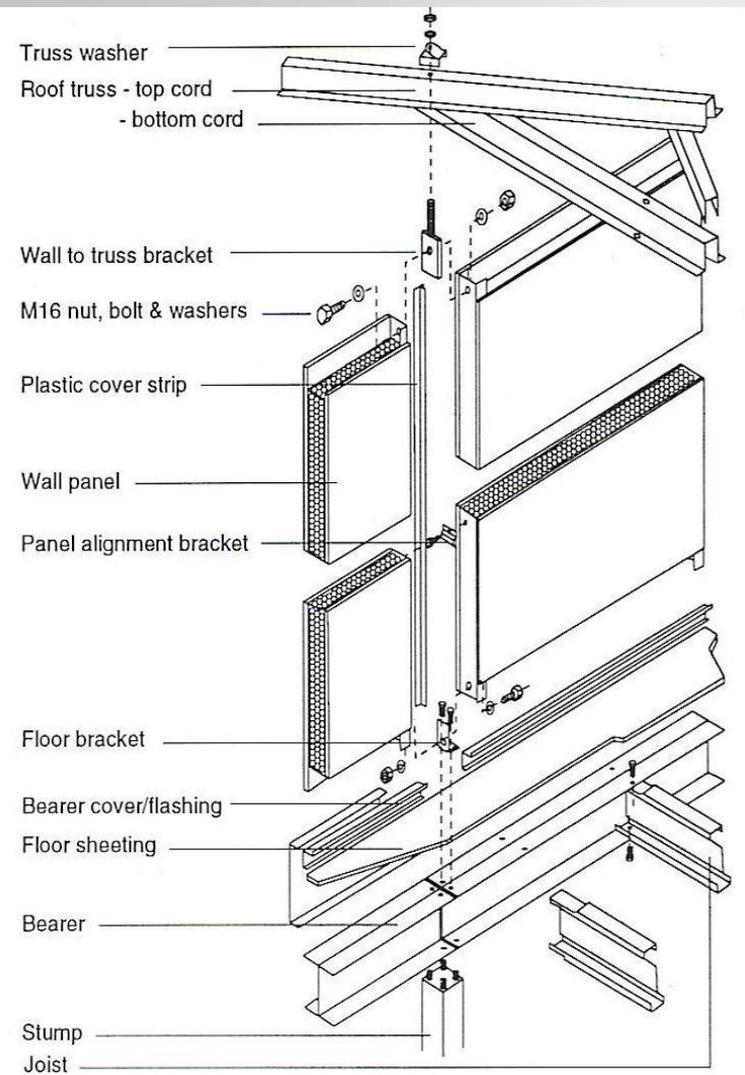
**REMAIN FULLY INTACT**

**STRONG, LIGHTWEIGHT, ZINCALUME**  
**G 500 HI – TENSILE STEEL SECTIONS**





# SYSTEM



**CSIRO**

BUILDING PRODUCTS & SYSTEMS

# Appraisals

CSIRO Appraisals, PO Box 56, Graham Road, Highett, Vic. 3190  
 Tel: (03) 9252 6000 Fax: (03) 9252 6244  
 E-mail: [appraisals@dbce.csiro.au](mailto:appraisals@dbce.csiro.au)  
 Web: [www.dbce.csiro.au/appraisals](http://www.dbce.csiro.au/appraisals)



# A BETTER WAY TO BUILD...

1. MODULAR BUILDING SYSTEM THAT DOES *NOT LOOK* LIKE A MODULAR BUILDING SYSTEM
2. ENGINEERED TO SAVE UP TO 50% TIME TO LOCK UP
3. EASE OF CONSTRUCTION - *MIN SKILLED LABOUR FORCE*
4. EXTREMELY TOUGH, DURABLE AND EASY TO TRANSPORT 'FLAT' REMOTE LOCATIONS – OUR SPECIALITY
5. DESIGNED TO WITHSTAND ALL OF NATURE'S ELEMENTS: CYCLONES, EARTHQUAKES, FIRE, WATER, TERMITES.
6. 25 YEAR DESIGN LIFE –NO MAINTENANCE LEGACY ISSUES



# SITE PREPARATION FOR SLAB



SLAB IS PREPARED



**FORCE 10 PANELS ARRIVE CRATED AND SOME CONTAINERS  
USED FOR SITE STORAGE AND SECURITY**



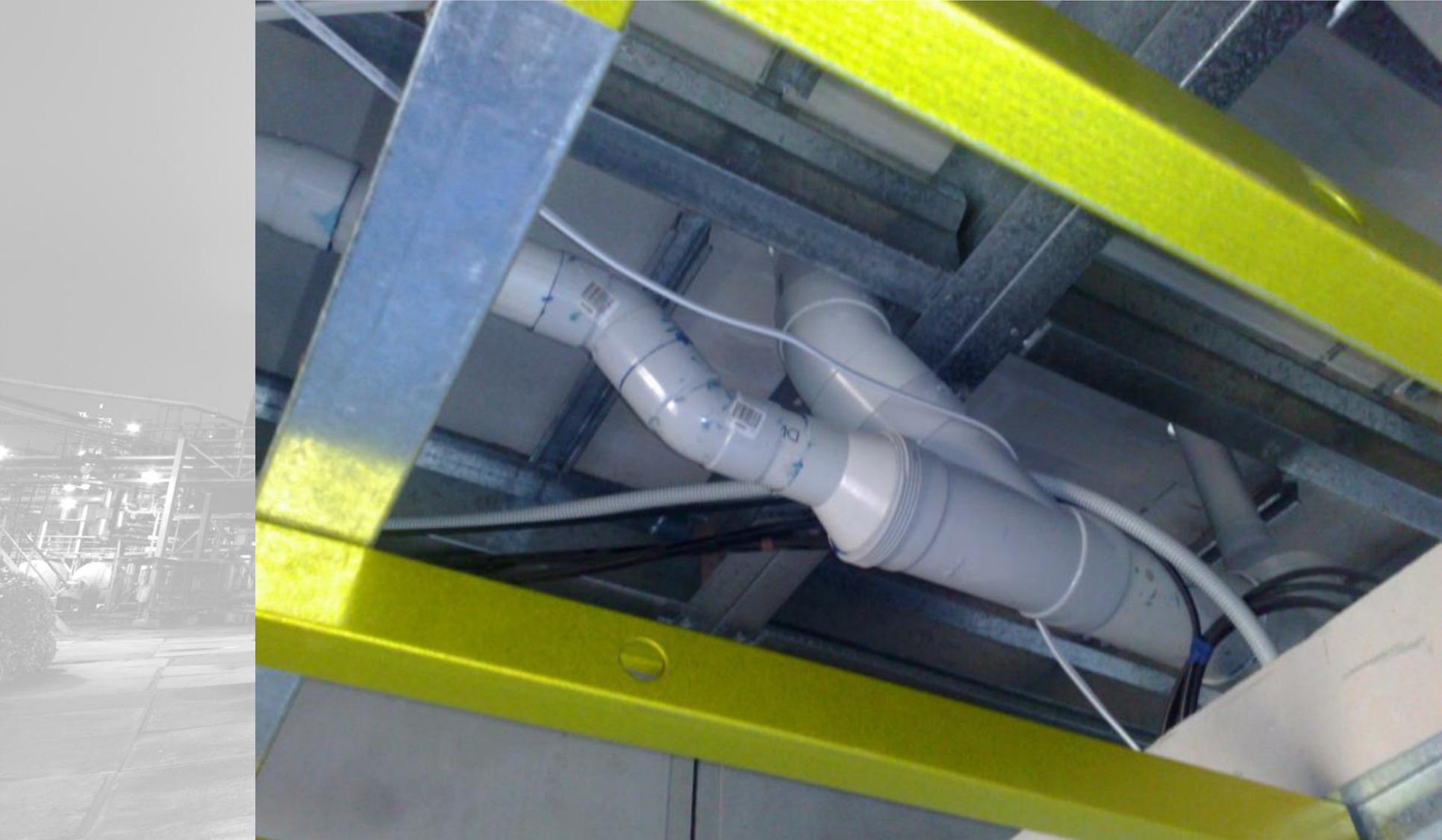
**CRATING PLAN DELIVERS SEQUENTIAL COMPONENTS TO  
CORRECT AREA TO ENSURE EFFICIENT BUILD**



**FORCE 10 PROGRESS IS RAPID....**



**FIRST FLOOR SYSTEM INSTALLED**





**RAPID PROGRESS**







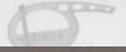
**MOBILE PLATFORM ADDS TO PRODUCTIVITY**







NEAT, SECURE, ORDERED SITE





**NOW 100 ROOMS AND NEW FACILITY BLENDS WELL INTO  
EXISTING UP AND RUNNING AHEAD OF SCHEDULE**



# FIRST BUILDING SYSTEM TO ACHIEVE CODEMARK IN AUSTRALIA



- NEW BUILDING PRODUCT CERTIFICATION
- 18 MONTHS RIGOROUS TESTING
- AUSTRALIAN AND NZ FEDERAL GOV VIA AUSTRALIAN BUILDING CODES BOARD

CODEMARK APPROVAL



# PANEL TESTED TO NATIONAL CONSTRUCTION CODE IMPORTANCE LEVEL 4 (IPL 4)

**UNIVERSITY OF TOWNSVILLE HURRICANE TESTING CENTRE, OCTOBER 10<sup>TH</sup>, 2011**

- WIND LOAD TESTING TO 108 MPS / 388 KPH
- IMPACT TESTING TO 42.7 MPS / 153 KPH
- RESULT: COMPLIES





**CERTIFIED CODEMARK ENGINEERED, MODULAR BUILDING SYSTEM**

**UP TO 9 + ★ ENERGY EFFICIENCY, CLEAN AND GREEN**

**UP TO 50% FASTER TO LOCK UP**

**FIRE, WATER, CYCLONE, EARTHQUAKE, TERMITE RESISTANT**

**FAST, EASY TO CONSTRUCT WITH A MINIMUM OF SKILLED LABOUR**

**FLAT PACKED EASY TRANSPORT X 10 : 60 M2 IN 6 METRE CONTAINER**

**EXTREMELY DURABLE - INNER WALLS IDENTICAL TO EXTERNAL**

**‘TAILOR- MADE’ FOR HIGH TRAFFIC, DURABLE STRUCTURES**





# SUPPLY SPECIFICATIONS

## 1. FLOOR SYSTEM (OPTIONAL)

- GALVANISED STEEL BEARERS AND G500 HI-TENSILE ZINCALUME JOISTS
- 76 X 76 X 2.5 DURAGAL SHS SUB FLOOR STUMPS 1250MM
- 16MM SUPA BOARD FLOORING TO ALL FLOOR AREAS
- STAINLESS STEEL AND GALVANISED FLOOR FLASHING

### WALL SYSTEM

- 2435 OR 2700MM OR 3000 MM HIGH TEXTURLINE SQUARE EDGE WALL PANELS
- EXTERNAL INSULATED WALL PANELS (R3) SHEETED WITH RE/RE BOARD
- INTERNAL INSULATED WALL PANELS (R3) SHEETED WITH RE/RE BOARD

WINDOWS: ALUMINIUM POWDER COATED SLIDING SINGLE / DBL. GLAZED

DOORS AND HARDWARE: EXTERNAL DOORS SOLID CORE, INTERNAL DOORS HOLLOW CORE

EXTERNAL / INTERNAL LOCKSET SELECTED FROM F 10 STANDARD RANGE

MOULDINGS X



# TYPICAL SUPPLY SPECIFICATIONS

## ROOF SYSTEM

- PREFABRICATED G500 HI-TENSILE ZINCALUME ROOF TRUSS
- G500 HI-TENSILE ZINCALUME ROOF BATTENS
- COLORBOND ROOF SHEETING X
- AIRCELL UNDER ROOF INSULATION (R2.5) PLUS CEILING INSULATION (R2.5)
- COLORBOND FASCIAS / COLORBOND 125MM QUAD GUTTERS X
- 90MM PVC OR COLOURBOND DOWNPIPES WITH STRAPS X
- BRACKETS, SCREWS AND BOLTS FOR SUPPLIED FORCE 10 COMPONENTS

## CEILING AND EAVES X

- 10MM GYPROCK "SUPACEIL" TO INTERNAL CEILINGS
- 10MM GYPROCK "MR" TO WET AREA CEILINGS
- 6MM FIBRE CEMENT BOARD TO ALL EXTERNAL CEILINGS & EAVES / TIMBER CORNICE



# OPTIONAL FLOOR SYSTEM

- **SLAB ON GROUND**



- **POSTS & BEAM**



- **MEGA ANCHOR**  
No Concrete Required





# 1,400 MAN CAMP PNG

## CASE STUDY: 1,400 MAN CAMP IN REMOTE PNG

### Force 10 - The ideal mining camp solution

The logistics of designing, manufacturing, delivering and partially building a 1,400 man camp in a remote area over a four month period are very complex, but that's exactly what Force 10 was able to achieve.

The highland areas of Papua New Guinea present special challenges but none more so than Tamadigi, Hides and Gobe – the remoteness of the area combined with the mountainous terrain and appalling roads meant that there was only one product and one building method for the job.

The fact that a 110 sqm building can be packed securely into a 12 meter container, transported 750 km over rough roads and emerge unscathed ready for building was the clinching factor for this \$20 million contract along with the product's inherent qualities:

- Ability to flat pack modular building components
- Ability to construct with relatively unskilled labour
- Extreme robustness particularly in this Earthquake prone zone

The project proved to be a great success and according to the Project Manager, Steve Curry, CEO NorthCorp Building and Construction:



# 1,400 MAN CAMP PNG

- Accommodation Units – Type 1. These are a 7 X 3 Meter unit comprising of 2 bedrooms both separately en- suited. These units are designed to be comfortable, secure, robust and re-locatable on steel skids. They are securely anchored in place using Mega Anchors and are a ‘plug and play’ solution with just 3 quick connections to be made on site. Water –In, Waste- Out and Power. The units also feature an exterior service deck to secure the Air- Con and Water Heater and are usually erected ‘front to front’ separated by a covered central walkway. Type 1 is optimally sized for the occupants and relocation around PNG’s narrow, twisty roads (see sample diagram Type 1 below)
- Kitchen/ Diners
- Recreation
- Gym
- Ablution blocks
- Laundry
- First Aid

All units were designed in manageable connectable modules, capable of being quickly erected with a minimum of skilled labour. Samples of typical structure floor plans are shown below. Extensive consultation took place with local tribal groups before

## Superior Project Execution

Variables are what invariably cause project delays and even failure. Force 10 works to minimise these by completing as much as possible in the controlled conditions of our Brisbane factory before the modular building arrives at the site. Our modular system is then unloaded and quickly assembled by Force 10 supervisors and semi-skilled local labour.

Our experience in remote areas has led us to develop a number of additional systems that ensure superior project execution as they are specifically designed for rapid construction of Mining camps in remote areas:

- Mega-anchors are a no concrete solution to anchor the building securely, efficiently and quickly with the minimum of cost. (see engineering diagram below)
- Force 10 Floor System with galvanised steel bearers and joists.
- SupaBoard, mineral based, extremely durable flooring – impervious to water and ideal for mining camps.





# 1,400 MAN CAMP PNG

- Force 10 Wall panels, steel frame sandwiched with 6mm fibre cement board and with inbuilt polyurethane insulation. These are extremely durable and provide excellent insulation with an R Value of 3.6

**The Force 10 Engineered Building System is an innovative modular building system that is particularly suited to Mining Camps and provides many advantages including:**

- Comprehensive floor, wall and roof system with all fixings and components
- Minimum components for maximum economy
- Ease and speed of assembly
- Ease/economy of shipment – all components can be ‘flat packed’
- Simplicity of connections.
- Maximum strength, durability and style
- Versatility and Aesthetic appeal
- Cyclone resistance
- Termite resistance
- Fire resistance
- Environmental focus
- Maximum insulation benefits
- Innovative and precision engineering
- Stability of foundations



# SIMPLICITY

## FORCE 10 CORE CAPABILITIES

CORE CAPABILITY	BENEFIT
ABILITY TO 'FLAT PACK' 110 M2 FORCE 10 STRUCTURE INTO A 12 METER CONTAINER	VERY SIGNIFICANT TRANSPORT AND LOGISTICS SAVINGS
VERSATILITY AND AESTHETIC APPEAL	ABILITY TO CONSTRUCT WIDE RANGE OF STRUCTURES INCLUDING 'PERMANENT' MOTEL RESORT STYLE CAMP
STRENGTH AND DURABILITY	F10 COMPONENTS ARE EXTREMELY DURABLE. IN 10 YEARS 'TEMPORARY' CAMP WILL BE ENTIRELY SERVICABLE AND EMINENTLY 'SALEABLE'



# 1,400 MAN CAMP PNG



INDIGENOUS LANDOWNER GROUP TRAINED BY FORCE 10 – WORKING ON FLOOR, WALL AND TRUSS MODULES



## PNG DELIVERY



IN SOME CASES FORCE 10 STRUCTURES WERE TRANSPORTED UP TO 750 KM ON POOR ROADS AND ALL ARRIVED IN PERFECT CONDITION  
(NOTE ROADS WERE SIGNIFICANTLY POORER THAN THAT SHOWN ABOVE)



**STEVE CURRY, CEO , NORTHCORP HAS BEEN TRAINED IN DISPUTE RESOLUTION AND HAD A PARTICULAR RAPPORT WITH THE LOCAL LAND OWNER CHIEFS AND GROUPS WITH WHICH THERE WAS EXTENSIVE PRE WORK CONSULTATION.**

## 300 Man Kitchen Mess





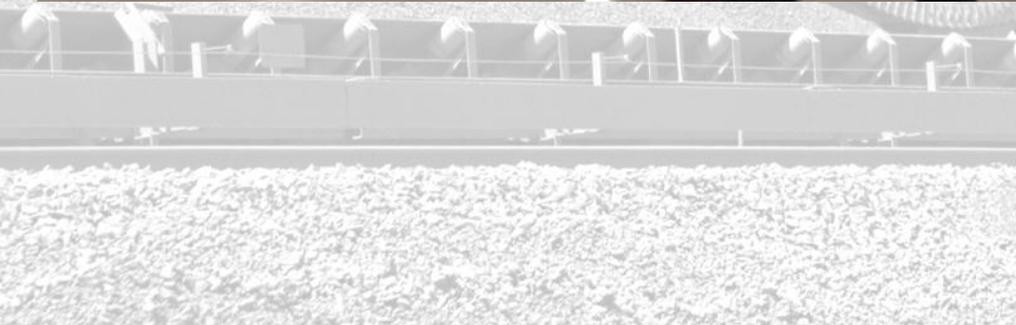






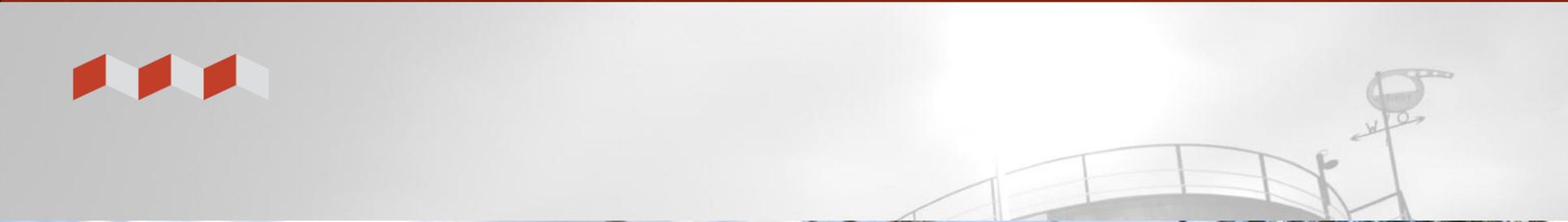




























# Environmentally sustainable communities with minimal footprint

- Recyclable cutlery made of 100 per cent corn starch.
- Compostable cups
- Low flow faucets
- Solar Passive Design
- Source Local Products
- Complete Waste Management Removal System
- Allow for more vegetation, native flora and vertical gardens, to reduce overall temperature at camp sites and reduce worker's anxiety.
- A vegetable garden would provide post-work activities to encourage participation, which decreases social isolation and depression.
- Public open spaces may reduce the effects of Sick Building Syndrome, which increases productivity of workers



# Waste Disposal and Recycling Examples

**THE PROBLEM**

**THE SOLUTION**



**GARBEX**  
AUSTRALIA  
a division of *enviroplus*

**THE PROBLEM**

**THE SOLUTION**



**GARBEX**  
AUSTRALIA  
a division of *enviroplus*

*Glass Crusher – Volume Reduction by **80%**  
Processes approx 7200 stubbies per hour*

*Cardboard Baler – Volume Reduction by **90%**  
Processes approx 14m3 cardboard per hour*

***SAVED 60million Stubbies or 1200 TONNES**  
of GLASS FROM MINING INDUSTRY GOING  
TO LANDFILL TO DATE THROUGH RECYCLING*

***SAVES 340 cubic metres or 12 TONNES**  
of CARDBOARD **A YEAR** FROM MINING INDUSTRY  
GOING TO LANDFILL THROUGH RECYCLING*



# Waste Disposal and Recycling Examples

## FROM THIS



## TO THIS

MOSTLY **FREE** FREIGHT OF RECYCLABLE MATERIAL BACK TO RECYCLING DEPOTS

ALL MONEY GENERATED BEING DONATED TO CHARITIES SUCH AS;



PRINCESS MARGARET HOSPITAL  
*foundation*



Royal Flying Doctor Service  
*The furthest corner. The finest care.*

Over \$750,000 Raised for charity to date



# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / Servery





# Mobile Mess / Kitchen / COOL ROOM





# Mobile Mess / Kitchen / COOL ROOM





# Mobile Mess / Kitchen / FREEZER





# Mobile Mess / Kitchen / FREEZER





# Mobile Mess / Kitchen / FREEZER





# Mobile LAUNDRY





# Mobile LAUNDRY





# Mobile LAUNDRY





# Rapid Automated Construction

- Mobile Mess/ Kitchen ready for operation in one day.  
(Dependent upon site conditions).
- Mobile Accommodation
- Mobile Bathrooms
- Mobile Waste Disposal





# Adagold Aviation



ABOUT | AIRCRAFT | JET-A-WAYS | BENEFITS | SERVICES | CONTACT US



ABOUT US

NEWS

OUR COMPANY

CAPABILITY  
STATEMENT

MISSION  
STATEMENT

ENVIRONMENTAL  
POLICY

WHAT WE DO  
HOW WE DO IT

Adagold Aviation Pty Ltd is a Global Aviation Specialist company proudly in operation since 1992.

We provide superior solutions for your domestic and international requirements including:

- ✓ Aviation Consultancy
- ✓ Mining & Resource Sectors
- ✓ Corporate
- ✓ VVIP & Diplomatic Services
- ✓ Urgent, Valuable, Outsized & Specialised Freight Movements
- ✓ Fly-In-Fly-Out FIFO Air Charter
- ✓ Contract Aircraft & Management
- ✓ VIP
- ✓ Specialised Government & Military Operations





# Adagold Aviation

## FIFO Management Module

- Integrated Air Transport & Logistics bolt on solution
- Partnered with Australia's largest Independent Aircraft solutions co.
- Unique Worker communications technology (FIFO Global tech)
- Aircraft inventory management system integrated into Camp management
- Aerodrome management



# Adagold Aviation

## FIFO Methodology

- Comprehensive Aircraft : Aerodrome options modeling over project lifecycle
- Options identification, tendering, engagement & management
- Guaranteed to meet min Rio Tinto safety & service standards
- Flexible contracting; all via us or direct if preferred
- Fully transparent costs plus % fee model



## Project Total Quality Management

- AMC will keep the client fully informed at all times and work closely with the client to achieve the desired outcomes on time and on budget.
- LEAD SUPPLIER TO TURNKEY FROM INITIAL DESIGN TO COMPLETION (Design-Management in conjunction with the client)
- ONE-STOP-SHOP TOTAL SERVICE SOLUTION for supply of Remote Housing and Components to Mining Village Communities.



- Constant quality control through our organisational structure and client dialogue will ensure that unforeseen project challenges will be overcome in a professional and timely manner.
- AMC is always mindful of having a minimum footprint on the land and providing design solutions that enable access for maintenance, expansion and eventual removal with minimal disturbance. For example the use of covered walkways to carry services and screw piles for temporary accommodation to avoid earthworks.
- A comprehensive waste management strategy covering all aspects of construction, building and operations will be implemented in each project.





# ITP Quality Control Checklist

Client:	
Job Number:	102286 #2055
Building Type:	LAUNDRY /LINEN STORE

ITP #	Description	Inspection Date	Contractors Name
ITP - 0001	Fabrication		
ITP - 0001A	Chassis Painting		
ITP - 0002	Flooring	5/3	MLB
ITP - 0003	Floor Covering		
ITP - 0004	Wall and Ceiling Lining		
ITP - 0005	Frame Installation		
ITP - 0006	Insulation		
ITP - 0007	Internal Fitout, Furniture and Equipment		
ITP - 0008	External Cladding and Finishes		
ITP - 0010	Electrical Rough In		
ITP - 0010A	Electrical Fit Out		
ITP - 0011	Plumbing		
ITP - 0012	Detailing & Cleaning		
ITP - 0013	Painting		
ITP - 0014	Wall and Ceiling Plastering		





## Project Status Report

<b>Client:</b>		<b>Job No:</b>	102286
<b>Project:</b>	LADY LORETTA	<b>Date:</b>	09/03/2012

Category	Comments
<b>Design</b>	<p>1) All M&amp;S Architectural, Electrical and Plumbing/Hydraulic drawings sent to Client.</p> <p>2) Admin. Mine Managers Office issued for purchasing and prefabrication.</p> <p>3) Administration Office Complex Chassis &amp; Floor frames issued for fabrication.</p> <p>4) Wet Mess Work packages issued for pre purchase of materials and pre fabrication.</p> <p>5) Section 'I' Reports received for the Kitchen/Mess, Wet/Mess and Administration Office Complex.</p> <p>6) Preliminary BCA Reports reviewed and sent for final Review and draft.</p> <p>7) Bathroom configuration revised, commenced preliminary frame details.</p>
<b>Construction</b>	<p><b>1) #2051 – Kitchen / Dining</b></p> <ul style="list-style-type: none"> <li>a. Electrical fit-out WIP</li> <li>b. Plumbing fit-out WIP</li> <li>c. Fire detection fit-out complete</li> <li>d. Insulation Complete</li> <li>e. Cladding WIP</li> </ul> <p><b>2) #2052 – 2054 – Communal Laundries</b></p> <ul style="list-style-type: none"> <li>a) Electrical Fit-out WIP</li> <li>b) Plumbing Fit-out WIP</li> <li>c) Sub floor plumbing complete</li> <li>d) Furniture / equipment fit-out WIP</li> <li>e) Cladding complete</li> <li>f) Windows fitted</li> <li>g) Wholly bins fitted</li> <li>h) Machine housing WIP</li> </ul>

## Project Status Report

<b>Client:</b>		<b>Job No:</b>	102286
<b>Project:</b>	LADY LORETTA	<b>Date:</b>	09/03/2012

<b>3) #2055 – Village Laundry / Linen</b>	<ul style="list-style-type: none"> <li>a) Vinyl complete</li> <li>b) Electrical rough in WIP</li> <li>c) Plumbing rough in WIP</li> <li>d) Insulation WIP</li> </ul>
<b>4) #2058 – 2059 – M-F Toilet</b>	<ul style="list-style-type: none"> <li>a) Electrical Fit-out WIP</li> <li>b) Plumbing Fit-out WIP</li> <li>c) Sub floor plumbing complete</li> <li>d) Furniture / equipment fit-out WIP</li> <li>e) Cladding complete</li> <li>f) Windows fitted</li> </ul>
<b>5) #2060 – M-F Toilet (Washout)</b>	<ul style="list-style-type: none"> <li>a) Electrical Fit-out WIP</li> <li>b) Plumbing Fit-out WIP</li> <li>c) Sub floor plumbing complete</li> <li>d) Furniture / equipment fit-out WIP</li> <li>e) Cladding complete</li> <li>f) Windows fitted</li> </ul>
<b>6) #2061 – Gymnasium</b>	<ul style="list-style-type: none"> <li>a) Frames erected</li> <li>b) Internal lining completed</li> <li>c) Flooring prepared for coverings</li> <li>d) Electrical rough in complete</li> <li>e) Plumbing rough in complete</li> <li>f) Insulation complete</li> <li>g) Cladding WIP</li> </ul>





# Project Management

## Project Strategy and Direction

- project scope analysis and definition
- feasibility studies
- business cases
- project due diligence
- value engineering
- peer reviews and gateway reviews

One of Ranbury's strengths is project strategy. We see project strategy as the key linkage between our client's business/corporate strategy and the specific project management process. Project strategy and direction is an essential prerequisite of effective project delivery as it incorporates an accurate understanding of the client's goals and targets (corporate, financial, operational, resources etc) and a sound appreciation of the key stakeholders and the environments (physical, organisational and social) around the project.

Our business cases, feasibility studies and due diligence studies are pursued and crafted in the context of this appreciation of the overall project strategy and direction. Similarly, gateway and peer reviews are focused on the capability of the project to achieve the client's overall objectives.

Ranbury has a track record of successfully providing project strategy advice to a wide range of public and private sector organisations across the industry sectors of rail, infrastructure and resources, property and building.



## Mining and Energy

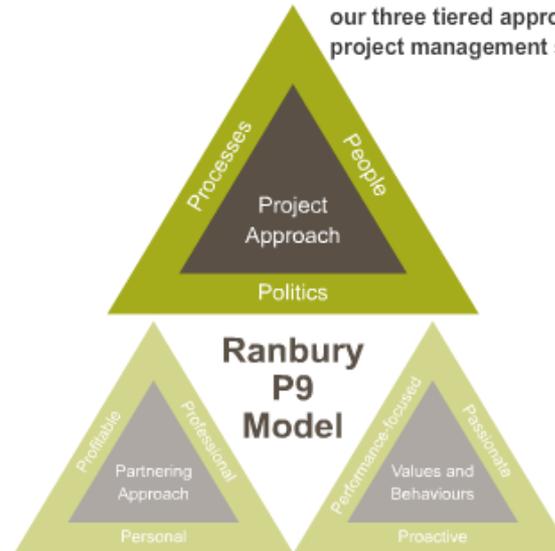
Mining and energy projects involve significant challenges of scale and complexity – in scope, time and cost. Many resource and energy companies have adopted the approach of segmenting project delivery into discrete packages, delivered by a network of service providers.

Ranbury has extensive experience in delivering specific capital works within an overall mining or energy project. In particular, we have focused on rail/mine and rail/port interfaces, conveyor design and construction and the property/building components of mining and energy projects. We are highly regarded within the sector as innovative and dependable project managers within these specific fields.



## Project Approach

Click on the model below to view our three tiered approach to delivering project management services.



### **Project** - People, Processes, Politics

The next level is the project approach Ranbury uses on every project. This illustrates that every project and situation is multi-dimensional, and the Ranbury team will purposefully manage each aspect appropriately to achieve project success.

Our project focus is ensuring all people are engaged and satisfied, the project is delivered through a diligent management process (Ranbury's Roadmap to Success) and the politics/stakeholder issues are exceedingly well managed.





## SURAT BASIN RAIL

PROJECT MANAGEMENT, ENGINEERING DESIGN MANAGEMENT, QUALITY AND SAFETY MANAGEMENT, PROCUREMENT STRATEGY, PROJECT CONTROLS

### FACTS

<b>Client</b>	AECOM	<b>Delivery Method</b>	Consultancy agreement
<b>Budget</b>	Confidential	<b>Status</b>	In progress

### PROJECT OVERVIEW

Often referred to as the 'Southern Missing Link', Surat Basin Rail is a 214 kilometre railway that will boost economic development of regional Queensland, enhance the existing coal rail network and unlock approximately 6.3 billion tonnes of coal reserves in the Surat Basin. Surat Basin Rail will support the continued growth of Australia's largest export industry and will connect to the future coal industry-owned Wiggins Island Coal Export Terminal, which will increase Queensland's long term coal export capacity.

The Surat Basin Rail Joint Venture is an Australian based Joint Venture comprising ATEC (Dawson Valley Railway) Pty Ltd, Xstrata Coal Surat Basin Rail Pty Ltd and QR Surat Basin Rail Pty Ltd.

The Joint Venture sought competitive proposals for the role of Principal's Engineer for the project. Ranbury is part of an AECOM-led consortium of companies providing the Principal Engineer's role for the project.

Ranbury's roles include leading the team in the key areas of:

- engineering design
- procurement strategy for the construction of the line
- quality management and controls
- safety management and systems for rail operations
- cost estimation and management
- project controls and reporting

The development of the Surat Basin Rail will increase access to large areas of thermal coal, petroleum, crude oil, natural and coal seam methane gas and has major increases in throughput of coal on rail and port capacity.





## MINERVA MINE – BALLOON LOOP & LOADOUT FACILITY

RAIL INFRASTRUCTURE, PROJECT MANAGEMENT AND DELIVERY SERVICES

### FACTS

<b>Client Budget</b>	Felix Resources	<b>Delivery method</b>	Project management
<b>Budget</b>	\$18m	<b>Completion</b>	2008

### PROJECT OVERVIEW

The Minerva coal rail project involved the design and construction of a 4km balloon loop at Wurba junction on the Springsure branch about 42km south of Emerald, and the upgrade of existing track and bridges between Burngrove and Springsure to accommodate 20 tonne axle load coal trains.

The project also included the design and construction of a coal spill pit and rail load out facility including loading / surge bins, conveyors and overhead wagon load bins.

GHD undertook the preliminary track and balloon loop design work and Felix in association with QR undertook the construction of the Springsure branch line upgrade.

Works were completed in 2008 as part of the \$18m Minerva coal development project.

Sandhurst Mining (now Minerva Mining Pty Ltd) appointed Ranbury as the civil works superintendent for the mine infrastructure project.

Ranbury assisted the client throughout the tender calling process and provided superintendent advice and management throughout the construction and commissioning stages.





## BOGGABRI EXPANSION PROJECT

### PROJECT MANAGEMENT

#### FACTS

<b>Client</b>	Idemitsu	<b>Delivery method</b>	<i>Dia</i>
<b>Budget</b>	\$150M	<b>Completion</b>	In progress

### PROJECT OVERVIEW

Ranbury was recently appointed by Idemitsu Australia Resources to provide a specialist project management service for their Boggabri Expansion Project. The Boggabri Expansion Project (BEP) involves a brownfield expansion of the existing 1.5 Mtpa Boggabri open cut mine to 4.3 Mtpa of production by mid 2013 with a Capital Budget of \$154.4M.

Our project management role is as part of Idemitsu's embedded project management team, covering all project management activities that Idemitsu is not currently resourced to undertake, including: overall project planning; engaging design and construct contractors to undertake the works via an ECI process and overseeing the fabrication, erection and commissioning of the works.

The project fits within a strategy of staged expansion to an ultimate production level of 6.5 to 7 Mtpa which is currently targeted for 2016.





## SPRINGSURE CREEK AND ARCTURUS AREA TO BAUHINIA BRANCH - CORRIDOR LINK

### STRATEGIC ADVISORY SERVICES

#### FACTS

Client Budget	Bandanna Energy Limited	Delivery method	Consultancy Agreement
Budget	X	Completion	X

#### PROJECT OVERVIEW

Ranbury have been commissioned to provide property advice acquisition services to deliver a rail and/or road corridor link options for the Springsure area. This link will deliver the identified coal deposits of the Southern Bowen Basin to the loading facility at Wiggins Island.

The consultancy includes for advisory services to assist with the feasibility stage and the project delivery stage of the project, particularly relating to the rail options development and rail spur line planning and construction.

The initial key requirements of the commission are:

- Evaluation of rail options to service the proposed Springsure Creek and Arcturus mines including expected total rail costs, and ownership and implementation issues.
- Negotiations with QR Network regarding rail access on the Blackwater system to Gladstone.

Subject to the outcomes of the feasibility study and the choice of rail solution, further requirements may include project managing the detailed engineering for the rail connection, undertaking negotiations with land-owners regarding route selection and acquisition, planning approvals etc, and construction management.






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## CAMP ACCOMMODATION STRATEGY

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### PROJECT MANAGEMENT

#### FACTS

<b>Client Budget</b>	QR National	<b>Delivery method</b>	Consultancy agreement
<b>Budget</b>	N/A	<b>Completion</b>	June 2012

#### PROJECT OVERVIEW

Ranbury were commissioned by QR National to develop a framework for the acquisition and management of camp and temporary accommodation to meet the following objectives for the client.

- Achieve greater cost effectiveness through a consistent approach
- Mitigate supply chain risk given the competition that exists from the resource sector
- Achieve greater flexibility to meet QR National's current and future capital and maintenance project needs
- Maximise productivity
- Provide a consistent and reasonable level of amenity
- Mitigate potential safety and or fatigue issues
- Optimise value for money





## Capacity and Fluidity

AMC has the capacity and team to deliver and will remain in constant dialog with the client to maintain project fluidity at all times.





# Product Flexibility

AMC is constantly looking for new products and ways to improve existing products. AMC welcomes input from the client in any area at all times.





# Questions & Answers

LEAD SUPPLIER PROVIDING TOTAL TURNKEY REMOTE HOUSING SOLUTIONS



**Let AMC help you with your  
Remote Housing Solutions today.**

**Alan Marshall**

**Chief Executive Officer**

**+61 (0) 418 910 100**

**alan@amcamps.com.au**

**Perth**

**PO Box 132**

**Claremont WA 6910**

**Queensland**

**GPO Box 2445**

**Brisbane Qld 4000**

