

PRODUCT INFORMATION BULLETIN CUPOLEX® H350 DOME

TERRACE HOUSING INFILL APPLICATION

LOCATION / JOB DETAILS

Project: Terrace Housing Redevelopment.
Scope: Infill application.
Client: David Blyth Builders.
Product: CUPOLEX® H350 Domes.
Completion: April 2014.

ON-SITE REQUIREMENTS

- Rising damp and mould on the walls.
- Rotting timber floors.
- Leasing restrictions due to health and safety concerns of the building's current state.
- No on-site parking or space for trades and material storage.

PRODUCT REQUIREMENTS AND BENEFITS:

- Proven system with documented track record.
- Vented air cavity under the Cupolex domes keeping the sub base dry.
- Versatile floor coverings on the concrete slab.
- No traffic control required for delivery.
- Quick and easy installation.
- No waste.



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UWS SCIENCE BUILDING

4 STOREY, 6 STAR

LOCATION / JOB DETAILS

Project: University of Western Sydney Science Building.
Scope: Construction of a 4 Storey, 6 Star Building.
Client: AW Edwards Pty Ltd.
Product: CUPOLEX® H350 Domes.
Classification: Site Class M.
Slab Area: 1550 square metres.
Completion: July 2015.

ON-SITE REQUIREMENTS

- 20% recycled building material to meet star rating.
- Commercially competitive to other concrete void systems.
- Construction compliance.
- Site traffic compliance.
- WHS (fire) compliance.
- Site material (waste) management.

PRODUCT REQUIREMENTS AND BENEFITS

- Cupolex® is made from 100% recycled polypropylene which exceeds the star rating requirement.
- Cupolex® met all engineering requirements.
- The Cupolex® system was below slab construction budget.
- On-site labour used for void and steel installation.
- Slab constructed ahead of planned timeframe.
- One delivery and zero waste.



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TOWNHOUSE DEVELOPMENT

LOCATION / JOB DETAILS

Project: Townhouse Development.
Scope: Site redevelopment.
Client: Landbanc.
Builder: Bitabuild.
Product: CUPOLEX® H350 Domes.
Classification: Site Class P/E 100mm ys.
Slab Area: 1156 square metres.
Completion: May 2016.

ON-SITE REQUIREMENTS

- Provide a system suitable for a methane redevelopment site.
- Provide a system that is suitable for soil heave.
- Commercially attractive system given the costly footing excavation.
- Fast system to comply with a tight construction timeline.
- Provide a system that mitigates against future potential health risks.

PRODUCT REQUIREMENTS AND BENEFITS

- Cupolex® is made from 100% recycled polypropylene and creates a second vapour barrier.
- Cupolex® by design is able to disperse harmful gas outside of the building envelope.
- The Cupolex® system will improve air quality and reduce health risks.
- Cost effective and fast installation with zero waste.



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SOMA TOWNHOUSE DEVELOPMENT

LOCATION / JOB DETAILS

Project: Soma Townhouse Development. (ACT)
 Scope: High Density Residential Units.
 Builder: Nova Building.
 Product: CUPOLEX® H260 Domes.
 Classification: Site Class M.
 Slab Area: 6400m².
 Completion: July 2016.

ON-SITE REQUIREMENTS

- Site congestion being a major factor in the building of high density townhouses.
- Nova Building could not afford bulky material handling to interfere with their build process.
- Speed of slab construction needed to increase to meet hand over schedule.
- Flexibility in design to suit site conditions.

PRODUCT REQUIREMENTS AND BENEFITS

- Delivery that was timed to have Cupolex® on site the day of installation.
- Speed of installation was increased using the Cupolex® system.
- The Cupolex® system came in below slab construction budget.
- Structural detail was improved with the design of H260 domes
- Slab constructed ahead of planned time frame.
- Labour and waste disposal savings.



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PARKVILLE APARTMENTS 12 STOREY APARTMENT BUILDING

LOCATION / JOB DETAILS

Project: Parkville Apartments
Scope: Multi Storey Residential Units. Three Stages
Builder: Australand.
Product: CUPOLEX® H260 Domes.
Classification: Site Class M.
Slab Area: 1200m².
Completion: July 2013.

ON-SITE REQUIREMENTS

- Site congestion being a major factor in the building of multi storey building.
- Construction compliance.
- Safety compliance.
- Cost effective slab on ground solution.
- Achieve RL levels without importing and compacting fill.

PRODUCT REQUIREMENTS AND BENEFITS

- One delivery per stage.
- Speed of installation was increased using the Cupolex® system.
- The Cupolex® system came within slab construction budget.
- Reducing heavy machinery movements at civil stage.
- Slab constructed ahead of schedule
- Waste disposal saving.
- Labour saving.



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CUPOLEX® H350 DOME

RELOCATABLE HOMES

IN CONSULTATION WITH MELBOURNE UNIVERSITY

PURPOSE

- Develop relocatable housing on Lease Hold land

APPLICATIONS

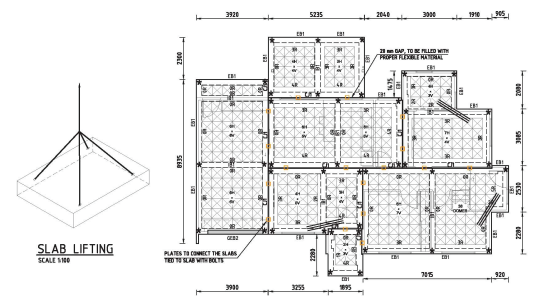
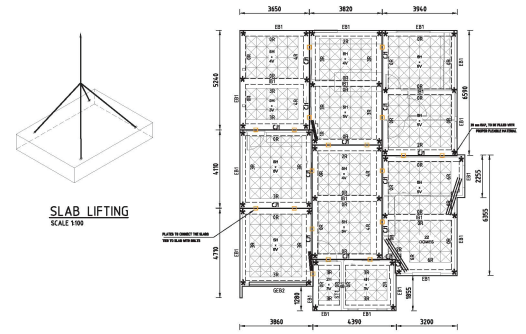
- Aged Care - Retirement Villages
- Mining Communities
- Short Term Housing

CRITERIA

- Design a modular concrete slab
- Transportable by road
- Sustainable building material and practices
- Cost effective
- Flexibility in design to suit varying site conditions.
- Flexibility in construction either on site or from a central location

CUPOLEX BENEFITS

- Cupolex void former reduced the weight of the slab for transport
- The Cupolex system required less steel, concrete and labour which made the slab cost effective
- Cupolex is made from 100% recycled material and is 100% recyclable with no waste which met the sustainable requirements
- Cupolex designs met all the engineering requirements for the different floor plans



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MCPHERSON DEVELOPMENTS Banksmeadow, NSW

LOCATION / JOB DETAILS

Project: Factory Units
Scope: Re: Development on a contaminated site.
Builder: McPherson Developments
Product: CUPOLEX® H260 Domes.
Classification: Site Class S.
Slab Area: 11 500m².
Completion: October 2019.

ON-SITE REQUIREMENTS

- Capture rising gases and disperse into open air
- Construction compliance.
- Safety compliance.
- Cost effective slab on ground solution. (60% better in cost to other mitigation systems quoted).
- Achieve RL levels without importing fill.
- Limited site access

PRODUCT REQUIREMENTS AND BENEFITS

- 100% Australian made using 100% recycled polypropylene.
- Speed of installation was increased using the Cupolex® system.
- The Cupolex® system came well within slab construction budget.
- Reducing heavy machinery movements at civil stage.
- Slab constructed ahead of schedule
- No waste.
- Labour saving.

