

A CASE STUDY

IN THE USE OF MEGABOARD™ FOR SACRIFICIAL FORMWORK

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As Australia continues to move from a medium to high density residential market, developers, contractors and suppliers are always on the lookout to find for more affordable solutions to assist in driving down construction costs.

Requirements in the National Construction Code requires Torrens Titles developments to have separated slabs on a multi-tenancy site where house slabs abutting each other are required to have a bond breaker. South Australia's largest concrete slab contractor recently trialled a new board called **MEGABOARD™** to use as sacrificial formwork and bond breaker between multiple slabs as per the requirements of the NCC.

Traditionally concrete contractors have poured separate slabs missing the between slabs and then going back to pour the in between slabs later to provide a separation break between the slabs when pouring a multi-tenancy group of residencies on a Torrens Title. This has required the setting up of formwork in the deep boundary footing (over 800mm in some cases) between the properties and steel fixing work completed only on the slabs being poured on every second dwellings and pouring them.



MEGABOARD™ being tested at University of South Australia materials testing lab under UDL to determine span strength and rigidity.

This type of construction methodology requires the entire steel fixing crew to come back the next day to steel fix the in between slabs prior to pouring them. If there were 4 continuous slabs, slab 1 and slab 3 would be poured on one day and slabs 2 and 4 poured the subsequent days.

MEGABOARD™ supplied by AR Building Solutions is a magnesia based cement board. Due to its properties and strength it has reduced the pour time considerably and thus accumulated costs have been reduced.

MEGABOARD[™] is used as a bond breaking sacrificial formwork between the slabs allowing the contractor to steel fix and pour the entire multiple tenancy site in one day instead of over several days.

Kevin Prior Operations Manager of Theo Angelis recently realised MEGABOARD™ had properties that were ideal to use as sacrificial formwork in his application.

Kevin realised that this board could alleviate the need to do multiple pours on separate days and tested the boards on a small 2 dwelling Torrens Title. This enabled the company to significantly reduce costs, improve productivity on the installation of Torrens Titles developments, allowing his company to pass on reduced costs for their clients.

All the sacrificial bond breaking formwork **MEGABOARD™** was placed in the adjoining boundary footing just prior to the concrete pour.

Theo Agelis is now using the **MEGABOARD™** on all Torrens Title multi-tenancy pours where 2 or more slabs are being poured consecutively.

ADVANTAGES IN USING MEGABOARD™

TRADITIONAL METHOD

Using traditional formwork on every second title to maintain a straight line on each block.

Steel fixing is done on the blocks being poured with fixers having to come back to complete the next pours.

Concrete pours done over multiple days.

Traffic management is required over multiple days.

High risk of labour and scheduling blowouts due to inclement weather.

Extra labour to put and remove marine ply formwork.

Extra wear of marine ply Form Work boards.



MEGABOARD™ is used in the adjoin boundary footings instead of setting traditional formwork and pouring over multiple days.



A boom pump is brought in to do multiple dwellings once.



Cement is screeded to ensure the straightness of the boards in relation to the string.



manner as normal except there are multiple slabs being poured at the same time.

USING MEGABOARD™

No formwork is required and MEGABOARD[™] is placed in situ creating the separation break.

All steel fixing can be done for the entire job reducing labour costs.

Pours are completed in one day.

Traffic management is needed only on the day of the pour.

Minimised risk of weather interrupting pours due to single pour operations.

MEGABOARD[™] is placed in situ on the day of the pour for all slabs.

Standard formwork is not required.





Placing concrete evenly on both sides of the MEGABOARD™ systematically allows the concreters to maintain straight separation lines between slabs.

The pour takes place in the same



The day after the pour. Any excess board height above slab is easily snapped off at concrete level for a smooth finish.

Standard MEGABOARD™

Product Code	MM	ММ	ММ	Weight/ pce kgs	Pieces/ pallet	Weight/ pallet/ kgs	Price/ Im incl GST	Price/ sheet incl GST	Price/ pallet incl GST
G-04-305-60-2-50-642-S	4	2400	600	6.05	300	1815	\$4.76	\$11.42	\$3,426.00
G-08-240-120-2-50-642-S	8	2400	1200	24.19	90	2177	\$12.68	\$30.43	\$2,738.88
G-08-272-120-2-50-642-S	8	2720	1200	27.42	90	2468	\$12.68	\$34.49	\$3,104.06
G-08-305-120-2-50-642-C2	8	3050	1200	30.74	90	2767	\$12.68	\$38.67	\$3,480.66

APPLICATIONS

Fire Walls	Wall Partitions				
Structural Sheathing for Wood or Metal Studs	Shower Stall or Tile Backer Board				
Facings for Structural Panels	Shaft Liners				
Ceilings	Soffits				
Fascia	Substrates for Coatings and Insulated Systems (such as Direct-Applied Finish Systems, EIFS and Stucco)				
Kitchen Systems	Flooring				
Skirtings and Architraves	Garage Patio Lining				
High Traffic and Impact Areas	Wet Areas				



If you need more information on our Products and Services please feel free to contact us either by phone, fax or email.

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