

NEW BRACING AND PROPPING GUIDE FOR ENGINEERS, BUILDERS AND OTHERS INVOLVED WITH PRECAST CONSTRUCTION

With precast concrete construction classified as a high-risk construction activity, the correct bracing and propping of precast while in its temporary state – that is, until it is permanently

supported by, and incorporated into, the adjoining completed structure – is critical.

To promote safe and best practice, a new guide has been published by National Precast.

Temporary Bracing and Propping of Precast Concrete Elements provides guidance to engineers, builders and others involved with precast design and construction.

The guide details the requirements, specifications and use of bracing and propping and details the responsibilities for Erection Designers, In-service Designers, installers and head contractors.

National Precast's CEO Sarah Bachmann says the guide has been developed by four engineers who are all members of National Precast and come with extensive precast experience.

"We are incredibly grateful to John Woodside OAM, Simon Hughes, Geoff Fletcher and Andreas Boomkamp, for their many, many hours of work on this guide. These four

individuals are highly respected in the industry and come extremely well-placed to contribute to this important topic" she comments.

The new guide discusses issues such as:

- bracing and propping design;
- typical notes for drawings and erection documentation;
- types of braces and props;
- total precast structures;
- erecting precast on steel beams;
- erecting vertical precast elements on post-tensioned floors;
- durability of inserts and bracing components;
- critical safety considerations;
- connections for braces and props;
- the importance of grouting;
- inspection of torque-controlled expansion anchors;
- brace and prop removal.

It also provides a comprehensive list of references and further guidance.

The guide is available as a PDF or hard copy and can be purchased from National Precast's website, https://nationalprecast.com.au/portfolio_page/temporary-bracing-and-propping-of-precast-concrete-elements.



Temporary Bracing and Propping of Precast Concrete Elements

A guide for engineers and building contractors (and others involved with construction of precast concrete)



BRACING AND PROPPING EXPLAINED

Bracing is an engineering term for the structural components that resist and transfer lateral (horizontal) loads imposed on a structure. Typically, bracing applies to the securing of vertical elements, usually down to the footing system. Usual sources for these loads are wind, gravity induced/out-of-plumb forces, seismic effects and construction loads. Resistance of such loads is required in the temporary and permanent stages, and in the temporary stage, this is typically achieved using inclined braces.

Propping – in contracts – is an engineering term for the structural components that resist and transfer vertical loads (usually self-weight and construction loads), typically for horizontal elements. The term is usually applied in the case of temporary supports only. Any lateral loads that exist with horizontal elements would usually be resisted by bracing.

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TWO DAYS OF PRECAST BUSINESS & FUN

Anyone involved in precast specification, design, manufacture or construction is welcome to participate in the National Conference that is being run by the precast industry's peak body, National Precast, later this year.

The Conference runs over three days and is being held at the Crown Plaza in the beautiful Sydney beachside location of Coogee from Monday, 30th October to Wednesday, 1st November 2023.

National Precast's CEO Sarah Bachmann says that this conference will be bigger and better.

"With support from our Conference Partner Leviat, we will be bringing together leaders in the precast industry from around the country, providing a wonderful opportunity to catch up with friends old and new," Bachmann comments.

The October Conference sees the introduction of the Welcome Reception and Exhibition, showcasing new products from over 15 suppliers.

"The Welcome Reception and Exhibition will be Hawaiian-themed. There'll be plenty of time to see what's new, chat and enjoy the special entertainment we have planned."

The line-up of speakers for the full-day Conference is impressive, with some of the presentation topics including tough contracting (with success), meeting supply challenges in big projects, creating healthy working environments

and overcoming the new multi-employer bargaining provisions of the Fair Work Act.

The Conference Day will be followed by an underwater-themed Networking Dinner overlooking the water at Coogee's Ocean Room, with entertainment and prizes! And on the final day, for members, there'll be a visit to the Metro West tunnel segment factory.

"We're taking steps to ultimately create an event that is widely talked about and that draws anyone who manufactures, supplies, specifies or uses precast," says Bachmann.

"We want to make doing business, fun. Come along and see what our exhibitors have to offer, share information and learn."

Register at www.nationalprecast.com.au/events, or contact Shiva on 0451 475 724.

Tickets are limited, so make sure you get in FAST!



National Conference Sydney

Monday 30th October 2023

Board Meeting (Board Members only)
Board & Industry Partners Lunch (Board & Industry Partners only)
Welcome Reception & Exhibition (Sponsored by Reid Construction Systems)

Tuesday 31st October 2023

Conference
Networking Dinner (Sponsored by PSA & Progress Group)

Wednesday 1st November 2023

Factory Visit (Members only)

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www.nationalprecast.com.au/events