



“OneSteel Reinforcing has the highest grade of reinforcing steel. We often get ONEMESH® sheets and REBAR cut to size before delivery. This greatly adds to efficiency and reduces labour.”

Kane McDonald - Managing Director, Penguin Concrete

“In addition to ONEMESH® and REBAR, all our bar chairs, poly and tie wire is supplied by OneSteel Reinforcing.”

Kane McDonald - Penguin Concrete

“They have the highest grade of reinforcing steel and their accessory products are simply the best quality.”

In total, 8808 square metres of Tilt-Up panels requiring 1400 cubic metres of concrete and 710 sheets of ONEMESH® were used on the project.

OneSteel Reinforcing co-ordinated delivery of the ONEMESH® and 500PLUS® REBAR with Penguin Concrete’s site managers, which reduced downtime for the form workers. This also added to construction efficiency and ease of site management and administration.

“The support we have received from OneSteel Reinforcing over the years has been excellent,” says Kane. “We’ve had the same customer service manager for 15 years. He really understands our business and what we need from a supplier.”

ONEMESH® is ideally suited for use in Precast and Tilt-Up panels. Being able to custom order sheet sizes is another advantage of dealing with OneSteel Reinforcing explained Kane.

“If we’re producing multiple panels of the same size, OneSteel Reinforcing cut the ONEMESH® sheets and REBAR to size prior to delivery. This adds to efficiency and reduces labour.”

On average each panel takes up to five days to cure with cement strength of 32MPa. When the concrete strength is increased to 50MPa the panel can cure and be lifted into place within two days. This greatly assists with adhering to building schedules.

Most Tilt-Up Panels by Penguin Concrete utilise SL82 ONEMESH® and 16mm REBAR. SL72 and SL92 ONEMESH® are used when required, depending on the final application of the panels.

“In addition to ONEMESH® and 500PLUS® REBAR, all bar chairs, polythene plastic sheeting and tie wire is supplied by OneSteel Reinforcing,” Kane said. “Not only are they quality products, but getting everything delivered to site ensured the project ran smoothly.”

Penguin Concrete Precast and Tilt-Up panels are used throughout South Queensland and Northern NSW in the construction of industrial warehouses factories and commercial buildings.

“Penguin Concrete is proud to have been associated with OneSteel Reinforcing since 1980 and we won’t be changing,” Kane said.



Project Solutions

Project: Yatala Business Park

Products: ONEMESH®
500PLUS® REBAR

ONEMESH® makes good business sense for business park development



Yatala Business Park is the latest development to take advantage of the ease and efficiency of Tilt-Up and Precast concrete panels, which have become a popular and economical building solution for commercial, industrial and residential developments.

Comprising 27 strata units that house multi-level office suites and storage centres, construction was completed in February 2009. Every Precast and Tilt-Up slab supplied by leading Queensland company, Penguin Concrete Construction Pty Ltd, has OneSteel Reinforcing’s ONEMESH® and 500PLUS® REBAR steel reinforcing.

The 300 panels needed for the project varied in thickness from 150mm using SL82 ONEMESH® to 170mm which used SL92 ONEMESH®, N16 500PLUS® REBAR were used to reinforce lift points and as surrounds for the window openings.

“OneSteel Reinforcing has supplied Penguin Concrete with all our reinforcing products since 1980,” said Kane McDonald, Managing Director and son of founder Ray McDonald.

Left and top: Preparing the on-site precast bays with ONEMESH®, REBAR and accessories at Yatala Business Park development, Queensland

Above: Pouring one of the 300 tilt-up panels required for the project.



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