

## Project Spotlight



### **BUNZL Warehouse** TradeCoast, Eagle Farm QLD – Australia

#### Bunzl Warehouse at TradeCoast Central. SFRC ground bearing Freeplan® 'jointless' floor slab

McNab has a long and successful history of delivering Industrial Warehouses in SEQ and meeting client's needs. Twintec were approached by McNab to assist in demonstrating to their Client (TradeCoast Central) that using SFRC would be suitable for their warehouse and provides long-term durability after a reasonable period of time in use. Twintec were able to show the client and McNab a Warehouse constructed nearly 10 years ago demonstrating the slabs were still in good condition after heavy use. This convinced the client to try a Twintec SFRC slab instead of steel mesh. Twintec were engaged to design the slab which was purchased by McNab together with our 7-year placement warranty for the client's piece of mind. Twintec were involved with all parts of the construction process, carrying out regular inspections with McNab to ensure the ground levels met design requirements and placing and finishing were to the required standard.

McNab engaged SETC (South-East Total Concrete) to install the slabs, who were fast, efficient, and achieved a good standard overall. The concrete was supplied by Neilsens Concrete who purchased the Twintec fibres in the 10kg dissolvable bags, for easy integration and eliminating the dreaded fibre balling issues associated

with some fibre suppliers. The main advantages with using the Twintec fibres, is ease of placing for the concrete placer, which virtually eliminated fibre balling resulting in more consistent finishing on the surface. Jointless SFRC slabs increase productivity by speeding up construction, compared to using steel mesh and eliminate saw cuts which are a long-term maintenance issue. The jointless slabs increased the joint spacings to 30m armoured joints only – better long-term maintenance outcome.

#### Project Data

|                 |                      |
|-----------------|----------------------|
| End User        | TradeCoast Central   |
| Main Contractor | McNab                |
| Consultant      | Twintec              |
| Fibre Type      | AFT+10/60HE          |
| Fibre Dosage    | 30kg/m <sup>3</sup>  |
| Floor Area      | 16,000m <sup>2</sup> |
| Slab Depth      | 150mm Jointless      |
| Pour Days       | 15 days              |
| Completion Date | March 2023           |

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No saw cuts to see. This panel (still showing the curing compound) shows how much larger these panels can be cast, compared to using mesh.

Using SFRC enable the racking to be installed earlier in the Build programme.



*"McNab partnered with Twintec on Lot 41 Bunzl to deliver the first Twintec SFRC floor at Tradecoast. McNab engaged Twintec to complete the design, site inspections for all internal pours and a 7 year warranty. Twintec were great to deal with throughout the duration of the project and were flexible with adding and modifying scope when needed. After witnessing a few internal slabs our client allowed us to complete our 3 x external hardstand crossovers in their external mix. Our main benefits of using SFRC on Lot 41 Bunzl was accelerated program durations and financial gains due to reduced slab thicknesses and overall concrete usage. We look forward to partnering with Twintec on future industrial projects."*

*Sam Noble - Project Manager, McNab*



TradeCoast Central, located on the former Brisbane Airport site adjacent to the Gateway Arterial Motorway, is a fully integrated master planned corporate office park and industrial community with special emphasis on sustainable development and first-class utility services.

McNab, were established in Toowoomba in 1996, are now one of the largest private construction companies in Australia. Specialising in Industrial Warehousing and Container Hardstands, they are a well-known and respected builder and contributor to the construction industry.

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