

Project Spotlight



Mapletree, Candle Stage 3 Crestmead QLD, AUS

SFRC ground bearing ‘jointless’ floor slab

Twintec were specified with their AFT®+09/60HE fibre as an option by Tungsten Structures. Historically, Mapletree have been reluctant to use steel fibres in their warehouse floors but were convinced by the Builder and Engineer to use SFRC as a way to achieve 6 Star Green star rating. Twintec worked closely with Heidelberg and QR Concreting to provide a cost-effective fibre which produces a fibreless finish with the AFT®+09/60HE fibre.

Vaughan Constructions engaged QR Concreting to supply and install the slabs, who were fast, efficient, and achieved a good standard overall. The concrete was supplied by Heidelberg who purchased the Twintec fibres in the 10kg dissolvable bags for easy integration, eliminating the dreaded fibre balling issues associated with some fibre suppliers. The main advantages with using the Twintec fibres, is ease of placing and finishing for the concrete placer, which results in less fibres showing on the surface. Jointless FRC slabs increase productivity by speeding up construction, reduce the environmental impact compared to using steel mesh and eliminates saw cuts to 30m armoured joints only – providing better long-term maintenance outcome.



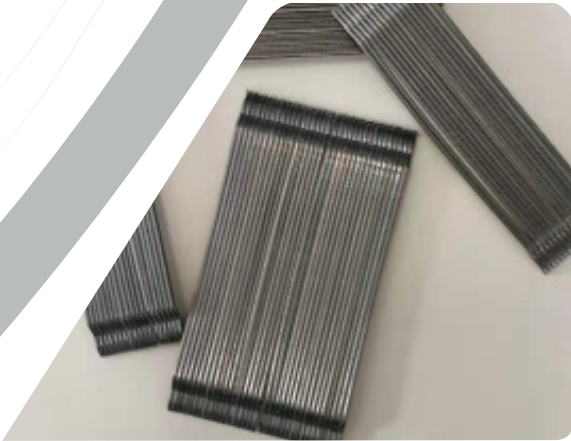
Project Data

Enduser:	Mapletree	Slab Depth:	160mm
Consultant:	Tungsten Structures	Fibre Type:	AFT®+0960HE
Main Contractor:	Vaughan Construction	Fibre Dosage:	23kg/m ³
Surface Area:	>30,000m ²	Pour Days:	25
		Completion:	Nov 2024

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Twintec is committed to delivering high-quality products, expert services, and value-engineered solutions to our clients worldwide. In Australia, our fibre offering reflects this same philosophy, selecting high-performance fibres that are easy to place and finish, provide excellent design flexibility for engineers, and deliver strong value for builders. The AFT®+09/60HE fibre has consistently met the expectations of our customers, with the floor layer producing visually fibre-free concrete floors with outstanding finish quality and durability.

This project marked Mapletree's first experience using steel fibres in Australia, an important milestone in their construction journey for low maintenance floor slabs contributing to lower life costs.



The AFT®+09/60HE steel fibres

Why choose Twintec Australia?

- ✓ Excellent workability with concrete mixes
- ✓ Reduced surface fibres and minimised balling
- ✓ Cleaner, smoother finishes for superior aesthetics
- ✓ Faster installation for contractors, helping reduce labour and project timelines
- ✓ Long-term durability with lower maintenance needs
- ✓ Fewer repairs and extended structural lifespan
- ✓ Optimised design that lowers overall costs without compromising quality

"The 10kg dissolvable bags make loading the fibres quick and simple, as well as minimising waste at the concrete plant, as there are no bags to dispose of."

Heidelberg
Concrete Supplier

"The AFT®+09/60HE worked really well, was easy to place and had few fibres showing on the surface."

QRC
Concrete Placer

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