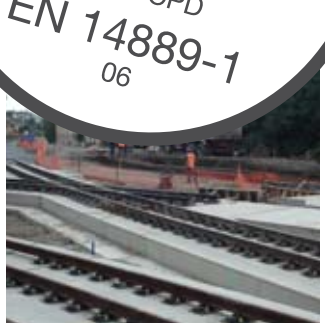
Dramix
RIGHT ONTRACK

CE 0749-CPD EN 14889-1 06

QUALITY.

SOLUTIONS.



EXCELLENCE.

Dramix manufactured to EN14889-1, CE Class 1 steel fibres for structural use

SLAB TRACK CONSTRUCTION AT ONTRACKS DART 1 PROJECT IN NEWMARKET MADE EASY WITH COMBINED TRADITIONAL REINFORCING AND HIGH PERFORMANCE DRAMIX© STEEL FIBRE REINFORCED CONCRETE

Rebuilding the Newmarket track junction is a critical part of project DART and the successful construction of the Dramix© steel fibre reinforced concrete (SFRC) slab track during the Christmas shutdown period of the rail network was a key element of this construction phase.

The original slab track design included heavy top and bottom reinforcing. Dramix© has CE marking Class 1 Steel Fibres for Structural Use and by introducing 40kg/m3 of Dramix© RC-80/60-BN grade 40MPa FL 5.5/4.5 (NZS3101: 2006 clause C5.A) it was possible to remove the top layer of reinforcing; simplifying construction, improving crack control and reducing cost. In addition to this fibres reinforce the full section of concrete reducing the risk of spalling typical in cover regions of reinforced concrete.

When concrete cracks, Dramix© steel fibres have the ability to provide tensile capacity across the crack, absorbing some of the energy released when cracking occurs and hence allowing for tighter crack control. To illustrate this point; assume a concrete tensile strength of 3MPa and a post crack tensile strength provided by Dramix© SFRC of 1MPa, only 2/3 of the full crack load has to be considered for the design of the main crack control reinforcement when taking into account the contribution from the fibres. This has a strong effect on the quantity of reinforcing required and can provide controlled multiple fine cracking providing the concrete with longer life and low maintenance.

Dramix© steel fibre reinforced concrete in combination with traditional reinforcing can significantly reduce crack width and or the required amount of reinforcement in addition to improving the quality of the finished product.

REALISE GREATER ENGINEERING EFFICIENCY WITHOUT COMPROMISING QUALITY ON YOUR NEXT PROJECT. TALK TO
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