

BRIDGE TECHNICAL DIRECTION BTD2011/07

RTA INTERIM CODE FOR CONCRETE DESIGN

This Bridge Technical Direction applies only to projects where AS 5100:2004 is adopted. Refer to BTD2017/02.

Information

The latest edition of AS 3600-2009 introduced several changes to the design of concrete structures including an increase in the maximum characteristic compressive strength of concrete at 28 days to 100 MPa.

The current edition of the concrete design part of the Bridge Design Code (AS 5100.5-2004) was based on AS 3600-2001.

RTA has prepared an interim edition of AS 5100.5 that adopts most of the changes in AS 3600-2009 to enable the improvements in concrete technology reflected in that document to be utilised whilst the new edition of AS 5100.5 is being prepared. The interim edition also incorporates the contents of RTA Bridge Technical Directions BTD 2007/10 and BTD 2007/11 and the cement composition requirements of RTA B80.

However, at this stage the maximum characteristic compressive strength of concrete used in RTA bridge works at 28 days will not be increased above 65 MPa.

Bridge Technical Direction

The characteristic compressive strength of concrete at 28 days for RTA bridges, and those bridges that will become the property of RTA, shall be within the range from 25 to 65 MPa.

Until further notice, the design of concrete bridge members shall be in accordance with the interim concrete bridge design code AS/RTA 5100.5 April 2011-Interim. The interim document is available on the RTA's Internet site and can be accessed at the URL:

http://www.rms.nsw.gov.au/business-industry/partners-suppliers/engineering-policies/825701x/as_rms_5100-5_may2015_interim.pdf

References: BTD 2007/10, BTD 2007/11, RTA QA Specification B80

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Note: The interim code has been revised in May 2015 and is published at the updated URL given above.

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