



BRIDGE TECHNICAL DIRECTION BTD2008/11

LISTS OF RTA APPROVED BRIDGE COMPONENTS AND SYSTEMS

Background

The Major Infrastructure and Network Management Directorates of RTA have provided funding to RTA Bridge Engineering over a number of years to evaluate and provide advice on proprietary bridge components, namely bridge expansion joints, bearings and deck waterproofing membranes, specified for use on RTA bridges.

Infrastructure Contracts Branch of RTA has also provided funding for the assessment and approval of proprietary post-tensioning and grouting systems, and of ground anchor systems, for which details of approved systems can currently be found in the annexures of RTA QA specifications RTA B113 *Post-tensioning of Concrete* and RTA B114 *Ground Anchors (Lump Sum)*.

The assessment of the performance and durability of some proprietary skid-resistant coatings for steelwork has also recently been carried out.

Information

The aim of this work has been to produce lists of RTA approved bridge components, prestressing and other systems based on defined assessment procedures, to achieve significant cost savings for RTA over the bridge lifecycle and to ensure the safety of personnel involved in installing, using and maintaining such components and systems. This results from predictable and reliable performance of approved components and systems, and from the use of uniform practices for design and installation.

The lists of RTA approved proprietary products eliminates the need to specify components by name on new bridge design drawings, which increases competition between suppliers and reduces RTA's costs.

Lists of RTA approved bridge bearings, deck joints, waterproofing membranes, skid-resistant coatings for steelwork, and post-tensioning, grouting, ground anchor and other bridge related systems have been compiled in a document readily accessible from RTA's Intranet and RTA's Internet pages. This document will be updated as and when new products are approved or RTA approval of a product is withdrawn.

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Circular Number:	BPC2008/11

Bridge Technical Direction

Only the approved bridge components and systems listed on RTA document: *Lists of RTA Approved Bridge Components and Systems* at:

<http://www.rms.nsw.gov.au/business-industry/partners-suppliers/documents/tenders-contracts/listofapprovedbridgecomponentssystems.pdf>

shall be used on RTA bridges and those that will become property of RTA, except as follows:

- 1) For expansion joints where the required range of movements or skews cannot be satisfied by one of the approved products, any joint accepted for installation shall fully comply with the requirements of AS 5100.4 *Bridge design – Bearings and deck joints*, and relevant RTA specifications;
- 2) For bearings where the range of loads or movements cannot be satisfied by one of the approved products, any bearing accepted for installation shall fully comply with the requirements of AS 5100.4 *Bridge design – Bearings and deck joints*, and relevant RTA specifications;
- 3) For bridge waterproofing membranes, membranes fully complying with the requirements of CBE 2003/02 will also be considered for approval for RTA use;
- 4) For post-tensioning and ground anchor systems, submissions for the use of new systems must be in accordance with RTA BI 19 *Approval of post-tensioning systems*;
- 5) For new grouting systems, submit full details and test results in accordance with RTA BI 13;
- 6) For new skid-resistant coatings and other types of bridge components and systems, submit full details, specifications, test reports and any other evidence of satisfactory performance for review and assessment to:

Senior Bridge Engineer (Policy & Specifications)
RTA Bridge Engineering
PO Box 3035
Parramatta NSW 2124
DX 28343 Parramatta

This Circular supersedes BPC 2005/02 which is now cancelled.

References: BPC 2005/02

Effective date: 05/05/2008

Note: Above URL is updated to be current.

Approved: Wije Ariyaratne
Principal Bridge Engineer

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All registered holders of controlled copies of Bridge Engineering Standard Drawing sets
All holders of controlled copies of the Bridge Technical Direction Manual
Corporate Document Registrar (Hard Copy and Electronic)
Manager, Asset Management Technology (Electronic)
Manager, Project Management Office (Hard Copy and Electronic)

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