

Sealed Local Roads Manual – Guidelines to good practice: design, construction, maintenance and rehabilitation of pavements
2005 Revised and expanded edition

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Manual Contents

The *Manual* addresses the main topics of construction, maintenance and rehabilitation of local sealed road pavements in the following seven parts:

A. General: introduces the scope of the *Manual*, describes the various road pavement components and the concept of pavement life cycle.

B. Management considerations: covers the initial pavement design, economic evaluations of alternative designs, the pavement management processes and risk management.

C. Materials and pavement designs: includes pavement surfacings and materials, drainage, pavement design processes, subgrade evaluation, traffic loading, drainage and design thickness procedures including a number of examples of granular and rigid pavements.

D. Construction of new pavements: includes the main stages in construction relating to construction methods, site preparation, drainage, environmental considerations, earthworks, subgrade preparation, pavement construction, equipment types and quality management systems.

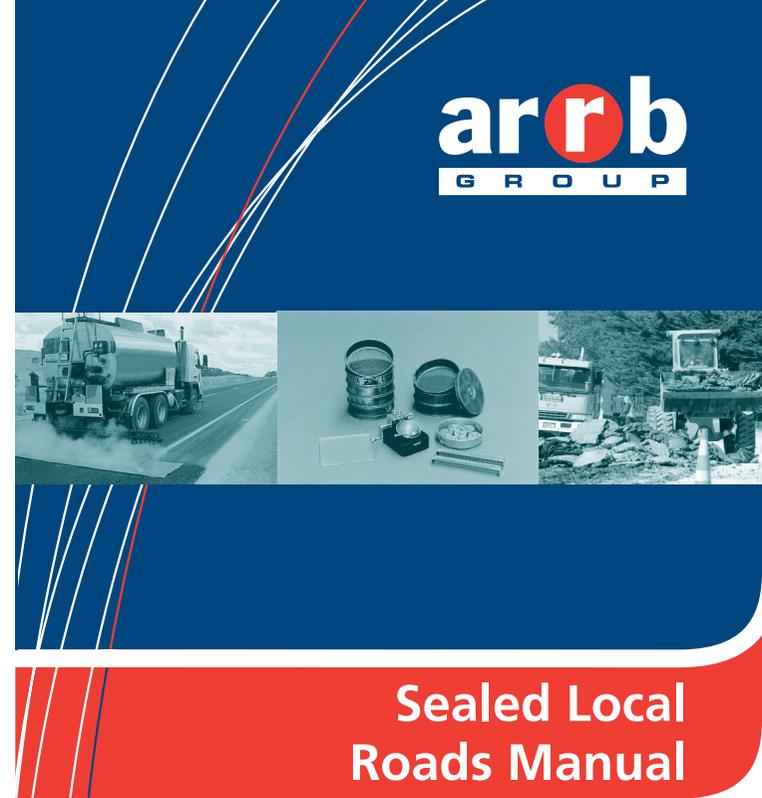
E. Maintenance operations: covers both routine and periodic maintenance activities, pavement assessments and treatments, provision for traffic, drainage, sign and roadside maintenance.

F. Pavement rehabilitation: describes pavement evaluation techniques to identify conditions, selection and design of alternative treatments, economic comparisons and specific design of overlays.

G. Miscellaneous infrastructure: includes additional areas of interest to local road practitioners such as footpaths, cycle ways, airfield pavements, hard standings, driveways and tennis courts.

Size A4, 280 pages, with colour photos and figures, forms and tables, ring-bound in an attractive hard cover.

CD version of the *Manual* included.



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Guidelines to good practice: design, construction, maintenance and rehabilitation of pavements

Revised and expanded edition
 July 2005

Incorporating Australian and New Zealand practice



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This revised edition of the *Manual* is recommended reading for practitioners in Local Government, State Road Authorities and other agencies responsible for the maintenance and management of sealed local roads. This edition includes the latest research and development findings, and improvements contributed by practitioners. It covers both Australian and New Zealand practices

New features

Many advances have been made in recent times in design procedures, materials and techniques used in the construction of sealed surfaces and pavement bases which have resulted in longer pavement life, better ride qualities and greater value from available road funding. The expanded edition includes:

- increased content in chapters reflecting comments made by many delegates who attended previous workshops held across Australasia on the better management of sealed local roads

- new procedures for pavement design that allow for various road materials, stabilisation and different wheel load configurations
- new developments and application of world best practice
- additional information on asset management, risk assessment and environmental considerations
- the establishment of innovative bituminous surfacings relating to polymer modified bitumen, slurry seals, foam bitumen and fibre reinforced bitumen treatments.

Purpose of the Manual

The purpose of this *Manual* is to provide the local roads practitioner with a practical and understandable guide for the better management of sealed local road pavements. This is achieved by consolidating in one document background knowledge of the latest methods in pavement design procedures, developments in road surfacing technology and road building practices for sealed local roads in urban, rural and remote areas around Australia and New Zealand.

Who the Manual is for

The intended reader of the *Manual* will generally be a junior engineer, asset management engineer, consulting engineer, works supervisor, field staff or contractor responsible for the construction, maintenance and rehabilitation of sealed local roads and associated sealed pavement uses like parking areas, footpaths and bicycle lanes. The *Manual* also serves as a useful guide to a senior engineer on the latest developments and a reminder of best practices.

What the Manual offers

The *Manual* provides a strong focus on the pavement management requirements relating to sealed local roads. It does not cover areas relating to road planning, geometric design, asset management, roadsides, asset valuations, bridges and culverts, as this information is readily available from other published material.

The *Manual* is based on a comprehensive literature search of Australian and overseas information on sealed local roads and a review by a broad range of experts in the field of local roads. In addition to providing general information and guidance, the *Manual* also serves as an excellent source document because of its comprehensive lists of references from which readers can obtain more detailed information to meet their particular needs.

ARRB intends to conduct numerous regional workshops during 2005 and 2006 across Australia and New Zealand as part of a technology transfer program for local road practitioners. Dates and locations will be advised as soon as available. For advice of when a workshop will be held in your locality, please tick the box at the bottom of the order form and mail or fax to ARRB Group, or visit our website at www.arrb.com.au or email training@arrb.com.au.

Any queries on the *Manual* should be directed to info@arrb.com.au.

