

Australian Standard<sup>®</sup>

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**INDUSTRIAL AND COMMERCIAL  
STEEL SHELVING**

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Membership of the conference called to prepare this standard was drawn from the following scientific, industrial and governmental organizations and departments:

Associated Chambers of Manufactures of Australia  
Australian Metal Office Furniture and Storage Equipment  
Manufacturers Group  
Department of Construction  
Department of Defence (Army) Office, Defence Standardization  
Committee  
Department of Labour and Industry, N.S.W  
Department of Public Works, N.S.W  
Government Stores Department, N.S.W  
Metric Conversion Board  
Public Works Department, Victoria  
Telecom Australia  
University of Adelaide, Civil Engineering Department  
University of Melbourne, Department of Civil Engineering

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This standard, prepared following a conference called by SAA, was approved on behalf of the Council of the Standards Association of Australia on 29 November 1977, and was published on 1 May 1978.

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## PREFACE

This standard was prepared following the issue for public review of DR 74211, Draft Australian Standard Specification for Steel Shelving, and a subsequent conference held to consider comment. Submissions were later made by the Australian Metal Office Furniture and Storage Equipment Manufacturers Group, the Metric Conversion board and the Civil Engineering Department of the University of Adelaide. Account was also taken of BS 826, Adjustable Steel Shelving, and acknowledgement is made of the assistance received from this source.

This standard makes reference to the following Australian standards:

- AS 1170 SAA Loading Code  
Part 1—Dead and Live Loads
- AS 1214 Hot-dip Galvanized Coatings on Threaded Fasteners (ISO Metric Coarse Thread Series)
- AS 1250 SAA Steel Structures Code
- AS 1391 Methods for Tensile Testing of Metals
- AS 1397 Hot-dipped Zinc-coated or Aluminium/Zinc-coated Steel Sheet in Coil and Cut Lengths
- AS 1427 ISO Metric Machine Screws
- AS 1538 SAA Cold-formed Steel Structures Code
- AS 1594 Hot-rolled Unalloyed Low Carbon Steel Sheet and Strip
- AS 1595 Cold-rolled Unalloyed Low Carbon Steel Sheet and Strip
- AS 1790 Electroplated Coatings of Cadmium on Iron and Steel
- AS 1897 Electroplated Coatings on Threaded Components (Metric Coarse Thread Series)
- AS K132 Electroplated Coatings on Threaded Components

Account should be taken of any special requirements of local government authorities and Departments of Labour and Industry in relation to multi-tier stack installations, especially such things as headroom requirements, number and provision of stairways, maximum floor areas and the like. When ordering shelving, purchasers should state the purpose for which the shelving will be used.

It should be noted that while the industry is progressively converting to metric standards, it is not expected to complete conversion until mid-1979. This point should be clearly understood by purchasers when inviting tenders for the supply of shelving in accordance with this standard.

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STANDARDS ASSOCIATION OF AUSTRALIA

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**Australian Standard Specification**

**for**

**INDUSTRIAL AND COMMERCIAL STEEL SHELVING**

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**1 SCOPE.** This specification applies to the design and manufacture of industrial and commercial steel shelving and to its installation in the form of bays, stacks and multi-tier shelving.

**2 DEFINITIONS.** For the purpose of this specification the following definitions apply:

**2.1 Back sheet**—the enclosing sheet on the back of a bay of shelving. (See Fig. 3.)

**2.2 Bay**—the unit of steel shelving which may be either single, double-sided or straight-through. (See Figs 1, 2, 3 and 4.)

**Bay depth**—*see* Stack depth (Clause 2.23.)

**2.3 Bay width**—the overall horizontal dimension between centres of adjacent posts or uprights measured parallel to the face of the bay. (See Fig. 1.)

**2.4 Bin**—a compartment or pigeon hole which is fitted with a bin front or retaining lip. (See Fig. 3.)

**2.5 Closed-type shelving**—shelving in which the sides and back are enclosed with steel sheets which replace the means of providing rigidity referred to in Clause 2.14. (See Fig. 2.)

**2.6 Compartment**—the space between any two adjacent shelves in the same bay and the full width of the bay. (See Fig. 3.)

**2.7 Counter units and tops**—the horizontal top surface of a set of shelves or bay of shelves, used for the transaction of business.

**2.8 Divider**—a vertical member used to divide a compartment into pigeon-holes. (See Fig. 3.)

**2.9 Double-sided bay**—two single-sided bays joined back-to-back having a common back sheet or the means of providing rigidity referred to in Clause 2.14.

NOTES:

1. The assembly thus provides two sets of shelving each of which is accessible from its front face. (See Fig. 4.)
2. Double-sided bays are of the same height and widths as single-sided bays, but the depth may be any combination of the depths specified in Clause 3 for single-sided bays.