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Australian Standard 1727–1975

TANK CONTAINERS (INTERNATIONAL SIZES)

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australian Chamber of Shipping
Australian Motor Vehicles Standards Committee
Australian National Line
Australian Road Transport Federation
Australian Steamship Owners Federation
Bureau of Roads
Department of Defence
Department of Manufacturing Industry
Department of Transport
Department of Motor Transport, N.S.W.
Federal Chamber of Automotive Industries
Institute of Materials Handling
Maritime Services Board
Metal Trades Industry Association of Australia
National Association of Australian State Road Authorities
National Materials Handling Bureau
Overseas Shipping Representatives Association
Railways of Australia Committee
Society of Automotive Engineers — Australasia

This standard, prepared under the direction of Committee PK/2, Large Freight Containers, was approved on behalf of the Council of the Standards Association on 7 March 1975 and was published on 29 August 1975.

In order to keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 73090.

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AUSTRALIAN STANDARD SPECIFICATION

TANK CONTAINERS
(INTERNATIONAL SIZES)

AS 1727 — 1975

First published 1975

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PREFACE

This standard was prepared by the Association's Committee on Large Freight Containers. It is the third in a series covering specifications for seven different types of freight container which are being issued as Australian standards following the guidelines put forward by the International Organization for Standardization Committee ISO/TC 104, Freight Containers. Australian standards issued to date concerned with international multimodal freight containers are:

AS 1563	General Purpose Freight containers (International Sizes)
AS 1564	Marking and Identification of Freight Containers
AS E44.5	Cargo Platforms
AS E45	Corner Fittings for Freight Containers.

ISO 1496, Series 1 Freight Containers—Specification and Testing, is being issued by the International Organization for Standardization in seven Parts, some of which have not yet been published. The seven Parts are as follows:

Part I*	General Cargo Containers
Part II	Thermal Containers
Part III*	Tank Containers for Liquids and Gases
Part IV	Bulk Containers
Part V	Platform Containers
Part VI	Collapsible Containers
Part VII*	Air Mode Containers

NOTE: The type code designation for each container grouping is set out in the relevant part. Reference may also be made to AS 1564.

This standard specifies dimensions, details of components, testing and marking of tank containers of nominal external lengths 6000 mm (20 ft) and 12 000 mm (40 ft), and maximum gross masses 20 320 kg (20 tons) and 30 480 kg (30 tons) respectively. It is based on ISO 1496/III and follows the external dimensions specified in AS 1563 which in turn was based on ISO 1496/1 and ISO 668, Freight Containers—External Dimensions and Ratings.

It covers containers to be used for the carriage of both hazardous and non-hazardous fluids under most conditions. Attention has been drawn to the carriage of certain low temperature fluids (cryogenics). Under such circumstances special consideration should be given to the design requirements of AS 1210, Rules for Unfired Pressure Vessels, for these vessels.

Attention is drawn to the carriage by road of the Series 1 containers covered by this standard. In certain cases special permits will be required where the load or dimensions exceed the requirements specified by State road authorities.

This standard recommends that containers be lifted from the top by means of the corner fittings provided. Although containers may be

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designed for lifting from the bottom corners, this is not preferred. Attention is drawn to the elimination of fork lift pockets in these containers because of the difficulty of ensuring a stable load.

Provision is made for handling by grappler arms if required, the required dimensions being given in Appendix B.

The standard also covers the inspection of containers after manufacture. It is recommended that a warning should be given to intending users of containers that regular inspection should be carried out. As a result, it has been suggested that, prior to loading, every container should be externally inspected for defects likely to affect the container during use. In the event of the inspection disclosing any defect, the container should be withdrawn and repaired prior to being used.

It does not give specific details of construction, but includes requirements for the stamping and marking of containers for identification purposes.

This standard requires reference to the following Australian and British standards:

AS 1210	Rules for Unfired Pressure Vessels
AS 1271	Valves, Water Gauges and Other Fittings for Boilers and Unfired Pressure Vessels
AS 1563	General Purpose Freight Containers (International Sizes)
AS 1564	Marking and Identification of Freight Containers
AS 1657	SAA Code for Fixed Platforms, Walkways, Stairways and Ladders
AS CB15	SAA Pipe Welding Code
AS E45	Corner Fittings for Freight Containers
BS 2869	Petroleum Fuels for Oil Engines and Burners.

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