

Australian Standard[®]

**SOFT LEAD
SHEET AND STRIP**

The following government departments and scientific and industrial organizations were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australian Atomic Energy Commission
Australian Lead Development Association
Federated Master Plumbers of Australia
Housing Industry Association
Metropolitan Water, Sewerage & Drainage Board of N.S.W.
Royal Australian Institute of Architects
Telecom Australia

This standard, prepared by Committee MT/5, Lead and Lead Alloys, was approved by the Metals Standards Board on behalf of the Council of the Standards Association of Australia on 17 May 1976, and was published on 1 September 1976.

The specification is intended to include the technical provisions necessary for the supply of the material referred to, but does not purport to comprise all the necessary provisions of a contract.

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PREFACE

This standard was prepared by the Association's Committee on Lead and Lead Alloys, in response to a request from industry for the provision of an Australian standard for lead sheet and strip for building purposes. Attention was drawn to the fact that BS 1178, Milled Lead Sheet and Strip for Building Purposes, was no longer applicable to Australian industry for the following principal reasons:

- (a) The changing technology in methods for manufacturing lead sheet, namely continuous casting as against rolling as specified in BS 1178.
- (b) No provision was made for lead sheet in gauges lighter than 3 lb/ft², which therefore excluded lead sheet used for sound attenuation.

This standard covers soft lead sheet and strip, both milled and continuously cast, for use for chemical plants, roofs, flashings, weatherings, damp-proof courses, sound attenuation and other building work. Lead sheet for radiation shielding is not specified, since special tests are required to determine whether lead sheet to this standard is satisfactory for this application, but Appendix B provides guidelines for its purchase for shielding purposes.

In the initial stages of preparation of this standard, lead sheet was specified in terms of thickness as against the traditional method of mass per unit area, since it was felt this would provide an advantage by bringing lead sheet into line with other sheet metal. However, public comment indicated problems associated with the measurement of thickness of lead sheet, in particular continuously-cast material which, because of its method of manufacture, has a surface finish different from milled sheet, and the committee agreed that the mass per unit area concept should be retained.

The committee recommended that purchasing guidelines would be a useful addition to the standard, and Appendix A includes the information that should be supplied by the purchaser to the manufacturer at the time of enquiry or order. If the recommendations contained in this appendix are followed, misunderstandings should be avoided, with the result that purchasers will obtain satisfactory material and service.

Guidance in the selection of preferred metric sizes is given in Appendix C.

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

- AS 1842 Lead Ingot
- BS 3908 Methods for the Sampling and Analysis of Lead and Lead Alloys
- BS 3909 Specification for Ingot Lead for Radiation Shielding.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification
for
SOFT LEAD SHEET AND STRIP

1 SCOPE. This specification applies to soft lead sheet and strip intended for use in chemical plants, and for roofs, flashings, weatherings, damp-proof courses, sound attenuation and other uses.

NOTES:

1. Guidelines to purchasers on requirements that must be specified by the purchaser and those that must or may be agreed upon at the time of enquiry and/or order are given in Appendix A.
2. Information on the application of this material for radiation shielding is given in Appendix A.

2 DEFINITION. For the purpose of this specification the following definition applies:

Soft lead—lead which has a minimum purity of 99.8 per cent.

3 PROCESS OF MANUFACTURE. The lead sheet or strip shall be manufactured by milling or continuous casting from lead ingot complying with AS 1812*, or from such material at the option of the manufacturer as will meet the requirements of Table 1. The manufacturer shall be responsible for the performance of all inspection and tests required by this specification prior to shipment of material.

4 CHEMICAL COMPOSITION. The chemical composition of the sheet or strip shall be in accordance with the limits given in Table 1.

TABLE 1
CHEMICAL COMPOSITION

1	2	3	4	5	6	7
Product	Chemical composition — percent					
	Lead	Copper		Antimony	Zinc	Total all elements except lead not to exceed
	min.	min.	max.	max.	max.	max.
Milled sheet or strip	99.8	0.05	0.07	0.01	0.005	0.2
Continuously- cast sheet or strip	99.8	0.01	0.02	0.01	0.005	0.2

* AS 1812, Lead Ingot.

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