

Australian Standard[®]

Hand hammers

**Part 2: Specific requirements for
heavy hammers**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Small Tools. It is one of a series of three Standards for hand hammers. The other Standards in the series deal with general requirements for hand hammers and specific requirements for light hammers.

In the preparation of this Standard consideration was given to BS 876, *Hand hammers*, and ANSI B173.3, *Safety requirements for heavy striking tools*, and acknowledgment is made of the assistance therefrom.

An appendix to the Standard sets out recommendations for safety requirements and limitations on the use of heavy hand hammers.

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STANDARDS AUSTRALIA

Australian Standard
Hand hammers

Part 2: Specific requirements for heavy hammers

1 SCOPE This Standard specifies requirements for the design, construction, and testing of heavy hand hammers intended for heavy striking of wood, metal, concrete, masonry, or stone and for double-handed use.

General requirements for hand hammers are specified in AS 3797.1.

Designs and nomenclature of heavy hand hammers are shown in Appendix A.

NOTE: Recommendations for the safe use of heavy hand hammers are given in Appendix B.

2 APPLICATION Heavy hand hammers shall comply with the applicable requirements of AS 3797.1 and the particular requirements of this Standard.

NOTE: Heavy hand hammers of types not specifically defined herein should comply with the applicable requirements of this Standard and AS 3797.1.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1337 Eye protectors for industrial applications

3797 Hand hammers

3797.1 Part 1: General requirements

4 DEFINITIONS For the purpose of this Standard, the definition given in AS 3797.1 apply.

5 CLASSIFICATION OF DOUBLE-FACED SLEDGE HAMMERS Double-faced sledge-hammers shall be classified by hardness of striking faces. (See Clause 7.2.3.)

6 MATERIALS Materials for heavy hand hammers shall comply with AS 3797.1.

7 MANUFACTURING REQUIREMENTS AND HEAT TREATMENT

7.1 Design and construction The design and construction of heavy hand hammers shall comply with AS 3797.1.

7.2 Heat treatment

7.2.1 General The heat treatment of heavy hand hammers shall comply with AS 3797.1 and with the requirements of Clause 7.2.2.

7.2.2 Hardness of fullering surfaces and scoring edges The hardened zone of the peens of stone sledge-hammers and blacksmith cross-peen sledge-hammers, and similar hammers, when measured from the fullering surface or scoring edge shall extend to a minimum depth of 12 mm at which depth the hardness shall not be less than 460 HV 30 (46HRC) and not more than that at the surface.

7.2.3 Hardness of double faced sledge-hammers The hardness of double-faced sledge-hammers shall be as follows:

(a) *General type*

(i) Striking faces 480 HV 30 to 640 HV 30 (48 HRC to 58 HRC)

(ii) Core 460 HV 30 (46 HRC)

(b) *Temper A*

(i) Striking faces 450 HV 30 to 510 HV 30 (45 HRC to 50 HRC)

(ii) Core 450 HV 30 (42 HRC)

(c) *Temper B*

(i) Striking faces 590 HV 30 to 680 HV 30 (55 HRC to 60 HRC)

(ii) Core 510 HV 30 (50 HRC)

8 FINISH The finish of heavy hand hammers shall comply with the requirements of AS 3797.1.

9 PERFORMANCE REQUIREMENTS

9.1 General Heavy hand hammers shall comply with the requirements of AS 3797.1 and the requirement of Clause 9.2.