

Australian Standard™

**Steel water bore casing**



**Standards Australia**

This Australian Standard was prepared by Committee CE/7, Bore Casing. It was approved on behalf of the Council of Standards Australia on 24 March 2000 and published on 20 April 2000.

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Australian Chamber of Commerce and Industry  
Department of Natural Resources (Qld)  
Department of Natural Resources (Vic.)  
Water and Rivers Commission  
National Minimum Bore Specifications Committee  
N.S.W. Department of Land and Water Conservation  
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Australian Standard™

## Steel water bore casing

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## PREFACE

This Standard was prepared by the Standards Australia Committee CE/7, on Bore Casing, to supersede AS 1396—1990.

The objective of this Standard is to set out the physical and chemical requirements for the materials used in the manufacture of tubes and couplings for water bore casing, together with dimensions of the tubes and couplings.

Joint details follow American practice and, except for 127 mm outside diameter, in accordance with the gauging practice and tolerances of the American national standard for pipe threads (ANSI B2.1). This thread would be interchangeable with line pipe in accordance with Specification 5L of the American Petroleum Institute, with a pitch of 3.175 mm (8 t.p.i.) and a taper of 1 in 16 on diameter, and taper applies to both tube end and coupling.

Tubes and couplings manufactured in Australia are produced by the electric resistance welding process, but seamless tube and couplings complying with the requirements of this Standard may be used if so desired.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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**STANDARDS AUSTRALIA****Australian Standard**  
**Steel water bore casing****1 SCOPE**

This Standard sets out material and dimensional requirements for welded steel tubing and couplings intended for use in water bore casing applications.

The Standard specifically applies to electric resistance welded steel tubing, threaded and coupled joints in sizes ranging from 101.6 mm OD to 219.1 mm OD, and bevelled and welded joints in sizes ranging from 101.6 mm OD to 457.0 mm OD.

NOTE: For purchasing guidelines, see Appendix A.

**2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

**AS**

1391 Methods for tensile testing of metals

1163 Structural steel hollow sections

**BS**

879 Water well casing

3894 Method for converting elongation values for steel

3894.1 Part 1: Carbon and low alloy steels

**ANSI/ASME**

B1.20.1 Pipe threads, general purposes (inch)

**ASTM**

A 53 Specification for pipe, steel, black and hot-dipped, zinc-coated welded and seamless

A 589 Specification for seamless and welded carbon steel waterwell pipe

**API**

5B Specification for threading, gauging and thread inspection of casing, tubing and line pipe threads

**3 DEFINITIONS**

For the purpose of this Standard, the definitions given in AS 1391 and those below apply.

**3.1 Casing**

A length of tube inserted from the surface of a bore, primarily to line the wall of the bore.

**3.2 Tube**

Where used without qualification, means one length of casing.

**3.3 Size**

Outside diameter (OD) of the casing, along the barrel and the wall thickness.