

Australian Standard™

Steel water bore casing

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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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Steel water bore casing

Originated as AS 1396—1979.
Second edition 1990.
Third edition 2000.

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Published by Standards Australia International Ltd
PO Box 1055, Strathfield, NSW 2135, Australia

ISBN 0 7337 3347 6

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 steel

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.