CHNICAL STANDARD
o. A. 35—1937

NOVEMBER
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AUSTRALIAN COMMONWEALTH ASSOCIATION OF SIMPLIFIED PRACTICE, FOUNDED 1927
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# STANDARDS ASSOCIATION OF AUSTRALIA

ESTABLISHED UNDER THE AEGIS OF THE COMMONWEALTH AND STATE GOVERNMENTS FOR THE PROMOTION OF STANDARDISATION AND SIMPLIFIED PRACTICE

Australian Standard Specification

for

# Concrete Drainage Pipes
## (Pre-Cast)

PRICE TWO SHILLINGS - POSTAGE TWOPENCE

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The following Government Departments and Scientific and Industrial Organisations were officially represented upon the Committees entrusted with the preparation of this Specification:

Australian State Road Authorities.
Commonwealth Department of Works and Railways.
Australian Tramway Systems.
State Public Works Departments.
Australian Chemical Institute.
Australian Cement Manufacturers' Association.
National Roads and Motorists' Association.
Institution of Engineers, Australia.
Associated Chambers of Manufacturers of Australia.
Australasian Railways Commissioners.
National Gas Association.
Australian Institute of Mining and Metallurgy.
Federal Council of Australian Motor Traders.
Bureau of Steel Manufacturers.
Associated Chambers of Commerce of Australia.
Australian Concrete Products Association.
Water, Sewerage and Drainage Authorities.
Master Plumbers and Sanitary Engineers' Associations.
Institute of Architects.
Local Government Authorities.
Concrete Pipe Manufacturers.
City Councils.
Universities.

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*This Specification, prepared by Joint Committees of the Roadmaking Materials Sectional Committee and the Pipes and Plumbing Sectional Committee, was approved on behalf of the Council on 27th September, 1937.*

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NOTES.

In order to keep abreast of progress in the industries concerned, the Publications of the Standards Association of Australia are subject to periodical revision. Suggestions for improvement, addressed to the Headquarters of the Association, will be welcomed at all times.

The Association desires to call attention to the fact that this Specification does not purport to include all the necessary provisions of a contract.

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TECHNICAL STANDARD
No. A. 35—1937

# STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard Specification

for

# Concrete Drainage Pipes
## (Pre-Cast)

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SCIENCE HOUSE, GLOUCESTER AND ESSEX STREETS, SYDNEY

NOVEMBER, 1937

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Superseded by A. 35-1957.
Appendix A. Pipe laying practice still current. To be revised & 3 issued as separate code.

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No. A. 35—1937

STANDARDS ASSOCIATION OF AUSTRALIA

# AUSTRALIAN STANDARD SPECIFICATION FOR CONCRETE DRAINAGE PIPES (PRE-CAST).

## GENERAL.

**1. SCOPE.** This Specification covers non-reinforced and reinforced concrete pipes intended to be used for the conveyance, not under internal pressure, of sewage, industrial waste, and storm water.

**2. CLASSES OF PIPE.** This Specification applies to the following classes of pre-cast concrete pipe :

Class C—Cement Concrete Pipes (unreinforced).
Class S—Standard Reinforced Concrete Pipes.
Class X—Extra Strength Reinforced Concrete Pipes.

**3. ACCEPTABILITY.** The acceptability of pipes shall be determined by the results of the tests hereinafter specified and by inspection and tests to determine whether the pipes comply with the Specification as to materials, dimensions, shape and freedom from external or internal defects.

## MATERIALS AND MANUFACTURE.

**4. CONCRETE.** Pipes shall be manufactured from Portland cement concrete, that is from a suitable mixture of Portland cement, aggregate and water.

**5. PORTLAND CEMENT.** Portland cement shall meet the requirements of Australian Standard Specification No. A. 2, " Portland Cement ".

**6. REINFORCING STEEL.**

(*a*) Reinforcement shall consist of structural steel bars, or cold drawn steel wire, or annealed steel wire, to be used as such or in fabricated form. It shall be clean and free from loose scale or loose rust.

Test specimens for tensile and cold bend tests shall be of the full section of the bar or wire.

(*b*) **Structural Steel Bars** shall conform with the requirements of Australian Standard Specification No. A. 1, " Structural Steel ", and in addition all sizes of bar must satisfy the tensile test for structural bars (other than rivet bars).

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