

Australian Standard[®]

Installation of ABS pipe systems

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Electricity Commission of New South Wales
Engineering and Water Supply Department, S.A.
Hunter District Water Board
Melbourne and Metropolitan Board of Works
Plastics Institute of Australia
Water Authority of Western Australia
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PREFACE

This Standard was prepared by the Standards Australia Committee on ABS Pipe Systems under the direction of the Plastics Standards Board.

The Standard specifies requirements, and sets out recommendations for ABS pipe systems, but does not detail specific steps to be taken to achieve satisfactory installation. Detailed design of a specific system should encompass manufacturers' recommendations and instructions.

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STANDARD AUSTRALIA

Australian Standard
Installation of ABS pipe Systems

SECTION 1. SCOPE DEFINITIONS AND
MATERIAL REQUIREMENTS

1.1 SCOPE. This Standard specifies requirements and sets out recommended methods for installing acrylonitrile butadiene styrene (ABS) pipelines, above or below ground, for both pressure and non-pressure applications. Information is included on the selection, storage and handling, of ABS pipes.

NOTE: The suitability of ABS for conveyance of a range of chemicals is tabulated in Appendix A.

1.2 APPLICATION. This Standard is primarily intended for use in association with pipe and fittings complying with AS 3518.1 and AS 3518.2.

The Standard does not apply to electrical installations, for which reference should be made to AS 3000.

1.3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS	
1349	Bourdon tube pressure and vacuum gauges
1529	Code of practice for installation of household type hot water supply systems
1722	Pipe threads of Whitworth form
1722.1	Part 1: Sealing pipe threads
2129	Flanges for pipes, valves and fittings
2566	Plastics pipelaying design
3000	SAA Wiring Rules
3518	Acrylonitrile butadiene styrene (A. S.) pipes and fittings for pressure applications
3518.1	Part 1: Pipes
3518.2	Part 2: Solvent cement fittings

3691 Solvent cements and priming (cleaning) fluids for use with ABS pipes and fittings

1.4 DEFINITIONS. For the purpose of this Standard the definitions below apply.

1.4.1 Backfill—material used for filling trenches and excavations after a pipeline has been laid underground. It is normally placed on top of pipe bedding material (see Figure 1.1).

1.4.2 Bedding material—material surrounding the pipe and bedding it in position. The bedding comprises three zones, viz. the pipe underlay, the pipe overlay, and the pipe side support (see Figure 1.1).

1.4.3 Design pressure—the maximum pressure, resulting from the combination of static and dynamic pressures that could possibly be imposed on the pipe or fitting during its operating life.

1.4.4 Maximum allowable working pressure—the maximum pressure that can be sustained with a factor of safety, by the type or class of pipe or fitting for its estimated useful life under the anticipated working conditions.

NOTE: Values are as set out in the relevant Australian Standard specifications.

1.4.5 Pipe overlay—the layer of bedding material between the pipe side-support material and the backfill, having the purpose of protecting the pipe from damage and of providing a means of distributing superimposed loads (see Figure 1.1).

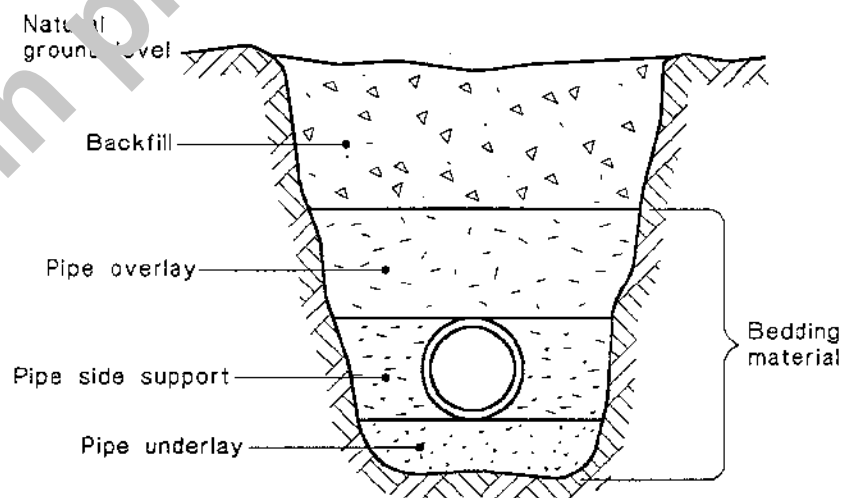


FIGURE 1.1 LAYERS IN A TRENCH INSTALLATION