Installation of UPVC pipe systems

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Department of Construction

Department of Local Government, Qld

Department of Public Works, N.S.W.

Engineering and Water Supply Department, S.A.

Federated Master Plumbers of Australia

Hunter District Water Board

Melbourne and Metropolitan Board of Works

Metropolitan Water, Sewerage and Drainage Board, N.S.W.

Plastics Institute of Australia Inc.

State Rivers and Water Supply Commission of Victoria

This standard, prepared by Committee PL/21, Rigid PVC Pipe, was approved on behalf of the Council of the Standards Association of Australia on 22 March 1977, and was published on 1 November 1977.

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This standard was issued in draft form for public review as Doc. 75074.

# Australian Standard®

## Code of practice for Installation of UPVC pipe systems

First published (as AS CA67) .	 1972
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AS 2032—1977

### **PREFACE**

This standard was prepared by the Association's Committee on Rigid PVC Pipe, under the authority of the Plastics Standards Board, as the revision of AS CA67—1972, which it accordingly supersedes. The work was initiated in recognition of the need to metricate AS CA67 and to take account of field practice associated with its use.

The revised standard still covers handling, transport and storage of UPVC pipe. It also states a number of the properties of UPVC pipe and gives indications of areas where the use of UPVC pipe is not recommended. It deals with the installation and jointing techniques applicable to UPVC pipe above or below ground.

In this revision, the above and below ground approach of the former standard has been abandoned in favour of separate sections on pipes for pressure applications; soil, waste and vent (SWV) pipes; sewer pipes; storm, sullage and surface water pipelines; and downpipe; covering both above and below ground installations as applicable. In addition, the installation of pipe as a pipeline liner is covered.

This standard may require reference to the following Australian standards:

AS 1254	Unplasticized PVC (UPVC) Pipes and Fittings for Storm or Surface Water Applications
AS 1260	Unplasticized PVC (UPVC) Pipes and Fittings for Sewerage Applications
AS 1273	Unplasticized PVC (UPVC) Downpipe and Fittings for Rainwater
AS 1415	Unplasticized PVC (UPVC) Pipes and Fittings for Soil, Waste and Vent (SWV) Applications
AS 1477	Unplasticized PVC (UPVC) Pipes and Fittings for Pressure Applications
AS 1529	Installation of Household Type Hot Water Supply Systems
AS 1646	Rubber Joint Rings for Water Supply, Sewerage and Drainage Purposes
AS 1697	SAA Gas Pipeline Code
AS 3000	Part 1—SAA Wiring Rules
AS CA68	Rules for Plastics Pipelaying Design
AS	Definitions of Terms for Water Supply and Sewerage*
AS	Solvent Cements for Use with Unplasticized PVC (UPVC) Pipe and Fittings*

<sup>\*</sup> In course of preparation.

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### CONTENTS

PART 1.	SCOPE, DE	EFINITIONS AND MATERIAL REQUIREMENTS	4
PART 2.		RECOMMENDATIONS FOR THE SELECTION AND USE OF DE AND FITTINGS	7
PART 3.	JOINTING 1	Methods	11
PART 4.	INSTALLA	TION OF UPVC PRESSURE PIPE	
Sect	tion 4.1	General Provisions	16
Sect	tion 4.2	Installation of Pressure Pipes Below Ground	18
Sect	tion 4.3	Installation of Pressure Pipes Above Ground	21
Sect	tion 4.4	Testing of Pressure Pipe Systems	24
PART 5.	INSTALLA	TION OF UPVC SEWER PIPES BELOW GROUND	
Sect	tion 5.1	General Provisions	26
Sect	tion 5.2	Installation of Sewer Pipes Below Ground	27
Sect	tion 5.3	Testing of Sewerage Pipelines	30
PART 6.		TION OF UPVC PIPE SYSTEMS FOR SOIL, WASTE AND LICATIONS	31
PART 7.	7. Installation of UPVC Storm, Sullage and Surface Water Pipelines Underground		39
PART 8.	INSTALLA	TION OF UPVC DOWNPIPE ABOVE GROUND	42
Part 9.	INSTALLA	TION OF UPVC PIPE AS A PIPE LINER	44
APPENDI	CES		
A	Recomme	nded Precautions in the Use of Solvent Cements	45
D	The Ches	ainal Danistanaa of HDVC	10

AS 2032—1977

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### STANDARDS ASSOCIATION OF AUSTRALIA

# Australian Standard CODE OF PRACTICE FOR INSTALLATION OF UPVC PIPE SYSTEMS

# PART 1. SCOPE, DEFINITIONS AND MATERIAL REQUIREMENTS

**1.1 SCOPE OF CODE.** This code sets out the recommended method of installing unplasticized PVC (UPVC) pipelines, above or below ground for pressure and non-pressure applications.

NOTE: Where UPVC pipelines are to be installed underground the safe installation depths are calculated by reference to AS CA68, Rules for Plastics Pipelaying Design.

- **1.2 APPLICATION.** This code is primarily intended for use in association with pipe and fittings complying with the following standards:
  - AS 1254 Unplasticized PVC (UPVC) Pipes and Fittings for Storm or Surface Water Applications
  - AS 1260 Unplasticized PVC (UPVC) Pipes and Fittings for Sewerage Applications
  - AS 1273 Unplasticized PVC (UPVC) Downpipe and Fittings for Rainwater
  - AS 1415 Unplasticized PVC (UPVC) Pipes and Fittings for Soil, Waste and Vent (SWV) Applications
  - AS 1477 Unplasticized PVC (UPVC) Pipes and Fittings for Pressure Applications.

The code may be used for the installation of other UPVC pipelines except on installations for the following applications:

- (a) Gas reticulation (which is covered by AS 1697\*).
- (b) Electrical installations (which are covered by AS 3000, Part 1†).
- **1.3 DEFINITIONS.** For the purpose of this code the following definitions apply:

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 support (see Fig. 1.1).

<sup>\*</sup> AS 1697, SAA Gas Pipeline Code.

<sup>†</sup> AS 3000, Part 1, SAA Wiring Rules.



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