

TRANSPORT FOR NSW (TfNSW)

QA SPECIFICATION 3552

SUBSURFACE DRAINAGE PIPE (CORRUGATED PERFORATED AND NON-PERFORATED PLASTIC)

NOTICE

This document is a Transport for NSW QA Specification. It has been developed for use with roadworks and bridgeworks contracts let by Transport for NSW or by local councils in NSW. It is not suitable for any other purpose and must not be used for any other purpose or in any other context.

Copyright in this document belongs to Transport for NSW.

REVISION REGISTER

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 1		New specification.	GM, RNIC	13.03.97
Ed 2/Rev 0	“Notice” Spec Ref No Foreword Global Annexure C Annexure M	RTA PO Box and Fax numbers updated. Revision No added. Foreword added. Text revised to direct imperative style. “shall” replaced by “must”. Reformatting and minor editing. Clauses rearranged and renumbered. Schedule of Identified Records added. Reference documents updated.	GM, IC	27.04.09
Ed 3/Rev 0	 1 2.3 4 5	Specification title changed to include non-perforated plastic drainage pipe. Previous clause 3 “(Not Used)”, clause 5 “Physical Properties of Pipe” and clause 6 “Pipe Stiffness” deleted. Some clauses renumbered. Scope expanded to include corrugated non-perforated plastic drainage pipe. Pipe requirements relocated to clause 5. New clause titled “Frequency of Testing” added. New clause titled “Requirements” added, incorporating and updating pipe requirements in previous clause 1 “Scope”, clause 5 and clause 6. New clause titled “Testing” added, incorporating testing requirements in previous clause 5 “Physical Properties of Pipe” and clause 6 “Pipe Stiffness”.	GM, IC	08.04.11

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 3/Rev 0 (cont'd)	7 Annex C Annex L	Previous clause 8. 7(c) – Pipe classification requirement reworded to improve clarity. 7(g) – Note added on requirement for product identification. Clause reference updated. New annexure.		
Ed 3/Rev 1	Global	References to “Roads and Maritime Services” or “RMS” changed to “Transport for NSW” or “TfNSW” respectively.	DCS	22.06.20



SUBSURFACE DRAINAGE PIPE (CORRUGATED PERFORATED AND NON- PERFORATED PLASTIC)

Copyright – Transport for NSW
IC-QA-3552

VERSION FOR: DATE:

CONTENTS

CLAUSE	PAGE
FOREWORD	I
TfNSW Copyright and Use of this Document	i
Revisions to Previous Version	ii
Project Specific Changes	ii
1 SCOPE.....	1
2 STRUCTURE OF THE SPECIFICATION.....	1
2.1 (Not Used)	1
2.2 Schedule of Identified Records.....	1
2.3 Frequency of Testing.....	1
2.4 Referenced Documents and Definitions	1
3 SUPPLIER’S QUALITY MANAGEMENT SYSTEM	1
4 REQUIREMENTS.....	2
5 TESTING	2
6 PRODUCT CERTIFICATION	2
7 PRODUCT IDENTIFICATION.....	2
ANNEXURES 3552/A TO 3552/B - (NOT USED)	3
ANNEXURE 3552/C – SCHEDULE OF IDENTIFIED RECORDS	3
ANNEXURES 3552/D TO 3552/K – (NOT USED)	3
ANNEXURE 3552/L – MINIMUM FREQUENCY OF TESTING	3
ANNEXURE 3552/M – REFERENCED DOCUMENTS	4
LAST PAGE OF THIS DOCUMENT IS.....	4

FOREWORD

TFNSW COPYRIGHT AND USE OF THIS DOCUMENT

Copyright in this document belongs to Transport for NSW.

When this document forms part of a contract

This document should be read with all the documents forming the Contract.

When this document does not form part of a contract

This copy is not a controlled document. Observe the Notice that appears on the first page of the copy controlled by TfNSW. A full copy of the latest version of the document is available on the TfNSW

Internet website: <http://www.rms.nsw.gov.au/business-industry/partners-suppliers/specifications/index.html>

REVISIONS TO PREVIOUS VERSION

This document has been revised from Specification TfNSW 3552 Edition 3 Revision 0.

All revisions to the previous version (other than minor editorial and project specific changes) are indicated by a vertical line in the margin as shown here, except when it is a new edition and the text has been extensively rewritten.

PROJECT SPECIFIC CHANGES

Any project specific changes are indicated in the following manner:

- (a) Text which is additional to the base document and which is included in the Specification is shown in bold italics e.g. ***Additional Text***.
- (b) Text which has been deleted from the base document and which is not included in the Specification is shown struck out e.g. ~~Deleted Text~~.

TfNSW QA SPECIFICATION 3552

SUBSURFACE DRAINAGE PIPE (CORRUGATED PERFORATED AND NON-PERFORATED PLASTIC)

1 SCOPE

This Specification sets out the requirements for the supply of corrugated perforated and non-perforated plastic drainage pipe and associated fittings for use in subsurface drainage.

Corrugated non-perforated plastic drainage pipe must comply with the requirements of this specification except for perforations.

2 STRUCTURE OF THE SPECIFICATION

This Specification includes a series of annexures that detail additional requirements.

2.1 (NOT USED)

2.2 SCHEDULE OF IDENTIFIED RECORDS

The records listed in Annexure 3552/C are **Identified Records** for the purposes of Specification TfNSW Q Annexure Q/E.

2.3 FREQUENCY OF TESTING

The minimum frequency of testing is shown in Annexure 3552/L.

2.4 REFERENCED DOCUMENTS AND DEFINITIONS

Unless specified otherwise, the applicable issue of a referenced document, other than a TfNSW Specification, must be the issue current at the date one week before the closing date for tenders, or where no issue is current at that date, the most recent issue.

Standards, specifications and test methods are referred to in abbreviated form (e.g. AS 1234). For convenience, the full titles are given in Annexure 3552/M.

The term “the Supplier” means the supplier of the product covered by the scope of this Specification.

3 SUPPLIER’S QUALITY MANAGEMENT SYSTEM

The Supplier must establish and maintain a Quality Management System complying with AS/NZS ISO 9001 as a means of ensuring that the product conforms to this Specification.

Provide evidence verifying compliance with this Clause.

4 REQUIREMENTS

Corrugated perforated plastic drainage pipe and associated fittings must conform to the requirements of AS 2439.1. The pipes must be Type 1, Class SN20 pipe, except for 65 mm nominal diameter pipe placed in edge drains under kerbs and backfilled with no fines concrete which must be Type 1, Class SN8 pipe or higher.

5 TESTING

Carry out testing in accordance with the requirements of AS 2439.1, except for testing of pipe stiffness and perforation dimensions, which must be in accordance with Test Methods TfNSW T1505 and T1506.

6 PRODUCT CERTIFICATION

Provide a certificate of compliance verifying that the corrugated perforated drainage pipe complies with the requirements of this Specification together with test results reported on NATA endorsed test documents. The certificate is for tests not more than six (6) months old.

7 PRODUCT IDENTIFICATION

Clearly mark each pipe with the following information (on the pipe or adhesive label):

- (a) Manufacturer's name and/or trademark;
- (b) The nominal outside diameter of the pipe;
- (c) Pipe classification (type and stiffness);
- (d) The slot width range;
- (e) Length;
- (f) Date of manufacture;
- (g) Relevant Australian Standard.

ANNEXURES 3552/A TO 3552/B - (NOT USED)

ANNEXURE 3552/C – SCHEDULE OF IDENTIFIED RECORDS

Refer to Clause 2.2.

The records listed below are Identified Records for the purposes of TfNSW Q Annexure Q/E.

Clause	Description of Identified Record
6	Certificate of compliance

ANNEXURES 3552/D TO 3552/K – (NOT USED)

ANNEXURE 3552/L – MINIMUM FREQUENCY OF TESTING

Clause	Characteristics Tested	Test Method	Minimum Frequency of Testing
5	Perforation dimensions and area	TfNSW T1505	One per 2,000 m or part thereof
5	Pipe Stiffness	TfNSW T1506	One per 2,000 m or part thereof
5	Characteristics nominated in AS 2439.1 Table A1 (with the exception of Perforation dimensions and area and Pipe Stiffness)	As per AS 2439.1	As per AS 2439.1

ANNEXURE 3552/M – REFERENCED DOCUMENTS

Refer to Clause 2.4.

TfNSW Specifications

TfNSW Q Quality Management System

TfNSW Test Methods

TfNSW T1505 Physical dimensions of plastic drainage pipe perforations

TfNSW T1506 Stiffness properties of plastic drainage pipe

Australian Standards

AS 2439.1 Perforated plastics drainage and effluent pipe and fittings – Perforated drainage pipe and associated fittings

AS/NZS ISO 9001 Quality management systems – Requirements