

# TRANSPORT FOR NSW (TfNSW)

## QA SPECIFICATION 3553

### SEAMLESS TUBULAR FILTER FABRIC

#### NOTICE

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#### REVISION REGISTER

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 1		New specification.	GM, RNIC (W Ho)	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	 2.3 4 6  Annex C Annex L	Previous clause 3 “(Not Used)” deleted. Some clauses renumbered. New clause titled “Frequency of Testing” added. Previously clause 5. Placement requirement deleted. Previously clause 7. Alternative packaging requirement added. Clause reference updated. New annexure.	GM, IC	08.04.11
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





# SEAMLESS TUBULAR FILTER FABRIC

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VERSION FOR: DATE:
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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 3553 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 3553

## SEAMLESS TUBULAR FILTER FABRIC

### 1 SCOPE

This Specification covers the supply of seamless knitted tubular filter fabric for use with 65 mm or 100 mm nominal diameter corrugated perforated plastic drainage pipe.

### 2 STRUCTURE OF THE SPECIFICATION

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

#### 2.1 (NOT USED)

#### 2.2 SCHEDULE IDENTIFIED RECORDS

The records listed in Annexure 3553/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 3553/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 3553/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 MATERIAL

The material from which the filter fabric is produced must be either polypropylene or polyester. It must not contain imperfections in the weave or yarn.

The filter fabric must conform to this Specification and be suitable for installation by fitting over the appropriate perforated corrugated plastic drainage pipe.

## 5 PROPERTIES

The filter fabric must comply with the following:

(a) **Opening Size**

When tested in conformity with Test Method TfNSW T1524, the representative large opening size (DR) must comply with the following:

200 microns < DR < 500 microns

and, the Opening Index (I) must be greater than or equal to 136.

(b) **Laddering, Unravelling or Deweaving from Cut End**

When tested in conformity with Test Method TfNSW T1521, the fabric must not ladder, deweave or unravel for more than 5 mm from the cut end.

(c) **Abrasion Resistance**

When tested in conformity with Test Method TfNSW T1522, the fabric must not form holes, unravel, deweave or ladder.

(d) **Weave Stability**

When tested in conformity with Test Method TfNSW T1523, the fabric must not unravel, deweave, tear or ladder to more than 5 mm from the cut end.

## 6 PACKAGING AND IDENTIFICATION

The filter fabric must be supplied in continuous rolls of between 1 kg and 2.5 kg mass and packed in opaque plastic bags. Clearly label the bags showing the diameter of drainage pipe for which it is manufactured, the mass of fabric enclosed and the batch identification number.

Alternatively, the filter fabric may be supplied by fitting it to the appropriate perforated corrugated plastic drainage pipe.

## 7 PRODUCT CERTIFICATION

Provide a certificate of compliance verifying that the seamless tubular filter fabric complies with all the requirements of this Specification, together with test results reported on NATA endorsed test documents. The certificate must be for tests not more than six (6) months old.



**ANNEXURES 3553/A TO 3553/B – (NOT USED)****ANNEXURE 3553/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.

<b>Clause</b>	<b>Description of Identified Record</b>
7	Certificate of compliance

**ANNEXURES 3553/D TO 3553/K – (NOT USED)****ANNEXURE 3553/L – MINIMUM FREQUENCY OF TESTING**

<b>Clause</b>	<b>Characteristics Tested</b>	<b>Test Method</b>	<b>Minimum Frequency of Testing</b>
5	Laddering, Unravelling or Deweaving of Seamless Tubular Filter Fabric	TfNSW T1521	One per 2,000 m or part thereof
	Abrasion Resistance of Seamless Tubular Filter Fabric	TfNSW T1522	One per 2,000 m or part thereof
	Weave Stability of Seamless Tubular Filter Fabric	TfNSW T1523	One per 2,000 m or part thereof
	Determination of Opening Size of Seamless Tubular Filter Fabric	TfNSW T1524	One per 2,000 m or part thereof

## ANNEXURE 3553/M – REFERENCED DOCUMENTS

Refer to Clause 2.4.

### **TfNSW Specifications**

TfNSW Q            Quality Management System

### **TfNSW Test Methods**

TfNSW T1521        Laddering, Unravelling or Deweaving of a Seamless Knitted Tubular Filter Fabric

TfNSW T1522        Abrasion Resistance of Seamless Knitted Tubular Filter Fabric

TfNSW T1523        Weave Stability of Seamless Knitted Tubular Filter Fabric

TfNSW T1524        Determination of Opening Size of Seamless Knitted Tubular Filter Fabric

### **Australian Standards**

AS/NZS ISO 9001    Quality management systems – Requirements