

AUSTROADS TEST METHOD ATM 821

Laddering, Unravelling or Deweaving of a  
Seamless Knitted Tubular Filter Fabric from   
a Cut End

# Scope

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This test method sets out the procedure for determining the likelihood of a seamless tubular filter fabric, which has been pretreated in ultraviolet light, to ladder, unravel or deweave when placed over a mandrel.

# References

The following documents are referred to in this method: Nil.

# Equipment

1. A 500 mm long smooth round pipe with smooth ends, and with a diameter as follows:
2. 90 mm, if tubular filter fabric for use with 65 mm corrugated plastic subsoil pipe is to be tested
3. 115 mm, if tubular filter fabric for use with 100 mm corrugated plastic subsoil pipe is to be tested
4. 180 mm, if tubular filter fabric for use with 150 mm corrugated plastic subsoil pipe is to be tested.
5. A pair of sharp scissors
6. Ultra-violet light emission equipment.

# Sample Preparation

A 1.7 m sample length of filter fabric is to be pre-treated as follows:

1. The sample shall be exposed to ultraviolet light as follows:
2. Mount the sample on a turntable (minimum 500 diameter)
3. Positioned a 125 W ultra-violet lamp 135 mm from the axis of the turntable and 115 mm from the surface of the turntable
4. Rotate the turntable at 4 rpm and expose the samples to the lamp for 2 days.

# Procedure

1. From the pre-treated sample, cut a one metre sample length of the filter fabric with the scissors.
2. Pull the sample over the pipe by the end not specifically cut for testing and record whether any laddering, unravelling or deweaving of the fabric occurs from the cut end as it is drawn onto the pipe.
3. Repeat (b) three more times, using the same sample.

# Test Report

Report the condition of the sample, including any laddering, deweaving or unravelling for more than 5 mm from the cut end.

Amendment Record

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| **Amendment no.** | **Clauses amended** | Action | Date |
| - | New test method |  | November 2023 |
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| --- | --- |
| **Key** |  |
| Format | Change in format |
| Substitution | Old clause removed and replaced with new clause |
| New | Insertion of new clause |
| Removed | Old clauses removed |

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| **Acknowledgement** |

This Austroads Test Method is based on Transport for New South Wales Test Method: T1521 Laddering, unravelling or deweaving of a seamless knitted tubular filter fabric from a cut end.