

Relining of sanitary plumbing and drainage pipework

Plumbing Advisory Note – revised October 2022

The aim of this Advisory Note is to clarify the requirements when relining sanitary plumbing and drainage pipework using the Cured in Place Pipe (CIPP) technique, to ensure compliance with the National Construction Code Volume Three (Plumbing Code of Australia).

Renovation Techniques

Cured in Place Pipe (CIPP)

CIPP renovation is the lining of a drain or plumbing pipe with a flexible tube impregnated with a thermosetting resin. CIPP produces a rigid pipe after the resin has cured.

Cured in place pipe liners are required to be WaterMarked to conform with WaterMark Technical Specification WMTS-518.

Other renovation techniques

Other renovation techniques are:

- lining with discrete pipes which are jointed to form a continuous pipe, one by one, during insertion
- lining with continuous pipes made prior to insertion where the diameter of the lining remains unchanged
- lining with close fit pipes, where the pipe is reduced to facilitate installation then expanded after installation to provide a close fit to the existing pipe
- lining with spirally-wound pipes, spirally wound to form a continuous pipe after installation.

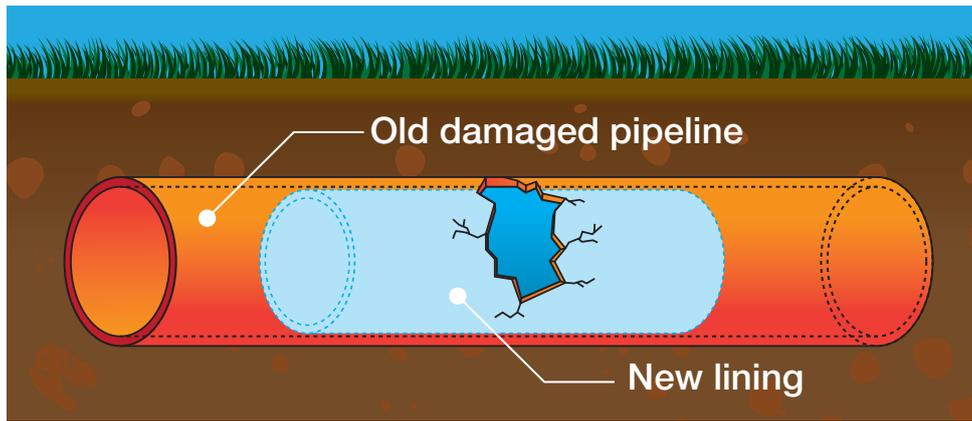
For further information, see AS/NZS 3500.2 Clause 3.16, Appendix F.

Legislative requirements

The **National Construction Code Series Volume Three, Plumbing Code of Australia - C2** specifies the requirements for designing, constructing, installing, replacing, repairing, altering and maintaining any part of a sanitary plumbing and drainage system.

The performance requirements for sanitary plumbing and drainage pipework installations are satisfied by compliance with **AS/NZS 3500.2:2018**.

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A new lining installed to seal a crack in a damaged pipeline.

Relining Procedure

1. Perform a CCTV inspection to identify if the pipework is suitable for renovation.
2. Clean the pipe with a high pressure jetter.
3. Roughen or mechanically etch the internal surface using sanding disks or wire brushes.
4. Flush to remove any debris.
5. Conduct a second CCTV inspection.
6. Install the liner.
7. Conduct a third CCTV inspection to ensure the liner is correctly installed.
8. Reinstall the laterals by opening to the full internal diameter of the lateral, alternatively install a one piece lateral junction liner.
9. Perform a fourth CCTV inspection to confirm the integrity of the renovation and satisfactory conditions of all laterals.
10. Perform hydrostatic testing of the renovation. This is particularly crucial for major or complete system renovations.

All renovations of plumbing and drainage pipework must be booked for auditing with the Office of the Technical Regulator (OTR). Additionally, an eCoC must be submitted to the OTR and the property owner within 7 days of completing the work.

Contact the Office of the Technical Regulator for more information

Online otr.sa.gov.au

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Phone 1300 760 311



**Government of
South Australia**