

PT/562/0126-AS (February 2026)

**Assessment Schedule for the SPR<sup>®</sup>TF lining system for gravity pipe renovation as manufactured by SEKISUI Rib Loc Australia Pty Ltd.**



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## 1. SCOPE

This schedule specifies the requirements for the SPR<sup>®</sup>TF technology, incorporating spirally wound system by RIB LOC<sup>®</sup>, as manufactured by SEKISUI Rib Loc Australia Pty Ltd.

It is applicable to the renovation of both fully and partially deteriorated circular gravity pipes with diameters 1,050 mm to 1,800 mm.

This schedule does not cover:

- Watertightness of end seals; or
- Reconnection of laterals.

## 2. PRODUCT DESCRIPTION

### 2.1 Introduction

The SPR<sup>®</sup>TF lining system is a spirally wound pipe lining system. There are two profiles (91-32ROS and 91-37RO) which can include steel reinforcement if required.

The system comprises a continuous profiled strip of PVC-U plastic. The profiled strip is formed into a tubular liner configuration by a winding machine that travels along the host pipe, interlocking the strip into a tubular configuration against the host pipe as it goes.

### 2.2 Applicable standards

**Performance:** the following standards were identified:

- ASTM F1741-25<sup>(1)</sup>.
- ASTM F1697-24<sup>(2)</sup>.
- BS EN ISO 11296-7:2019<sup>(3)</sup>.

**Materials:** Materials used shall comply with:

- ASTM D1784-20<sup>(4)</sup>.
- AS/NZS 1595:1998<sup>(5)</sup>.

### 2.3 Approval History

This is the first WRC Approved certification for the SPR<sup>®</sup>TF lining system.

## 3. REQUIREMENTS AND TESTING

### 3.1 General

**Materials requirements:** PVC-U shall be manufactured to cell classification 13354 in accordance with ASTM D1784-20.

Steel shall be CA3SN-G to AS/NZS 1595.

**Dimensions:** Profiled strip shall be manufactured in accordance with ASTM F1697-24.

**Mechanical resistance:** Mechanical resistance shall be verified by type testing and calculation in accordance with ASTM F1741-25 for fully or partially deteriorated pipes.

Alternatively, as the long-term leaktightness of the helical interlock has been demonstrated the SPR<sup>®</sup>TF lining system can be designed in accordance with the WRC Sewerage Rehabilitation Manual<sup>(6)</sup> (SRM) Type II structural design.

**Appearance:** The internal surface of the liner shall be smooth, clean, and free from scoring, cavities and other surface defects.

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### 3.2 Type Testing

Testing as stated in BS EN ISO 11296-7:2019 shall meet the following requirements:

- Ring stiffness shall be not less than 0.5 kPa.
- Creep ratio shall be not greater than 2.5.

**Watertightness:** The SPR<sup>®</sup>TF lining system shall comply with the internal pressure and vacuum requirements of ASTM F1741-25.

The long-term leaktightness of the helical interlock shall be demonstrated in accordance with WRc requirements.

### 4. Manufacture

To ensure the quality and performance of the SPR<sup>®</sup>TF lining system, the manufacturing process shall include appropriate systems for the:

- Specification of component materials;
- Verification component materials received are to specification;
- Handling and storage of all component materials and finished units;
- Detailed drawing / schedule for profile manufacture;
- Manufacture / assembly of the SPR<sup>®</sup>TF lining system, and;
- Fabrication and quality control of workmanship.

The production of the SPR<sup>®</sup>TF lining system and related quality control

procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

### 5. Installation

When installed in accordance with the installation documentation<sup>(7)</sup>, the SPR<sup>®</sup>TF lining system shall be reasonably expected to perform as described.

### 6. APPROVAL

The SPR<sup>®</sup>TF lining system has been audited and successfully met all the requirements stated within this assessment schedule

Signed:

A handwritten signature in black ink, appearing to be 'G.L.' followed by a horizontal line.

Valid until 20<sup>th</sup> January 2031.

### 7. REFERENCES

1. ASTM F1741 - 25 Standard Practice for Installation of Machine Spiral Wound Poly (Vinyl Chloride) (PVC) Liner Pipe for Rehabilitation of Existing Sewers and Conduits.
2. ASTM F1697-24 Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Strip for Machine Spiral-Wound Liner Pipe Rehabilitation of Existing Sewers and Conduit.
3. BS EN ISO 11296-7:2019 Plastics piping systems for renovation of

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underground non-pressure  
drainage and sewerage networks  
Part 7: Lining with spirally wound  
pipes.

4. ASTM D1784 - 20 Standard Classification System and Basis for Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
5. AS/NZS 1595:1998 Cold-rolled, unalloyed, steel sheet and strip.
6. WRc Sewerage Rehabilitation Manual, 7th Edition, 2025.
7. SPR<sup>®</sup>TF Installation method, Issue 1, 07/10/2025.