



BAL COMPLIANCE (BUSHFIRE PERFORMANCE) TECHNICAL BULLETIN

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BAL-29 Bushfire Performance

Infinity I-Series | Tested decking system installation requirements

This bulletin defines the installation requirements for Infinity I-Series decking where the BAL 29 performance demonstrated by testing to AS 1530.8.1:2018 is being relied upon.

BAL 29 performance applies to the complete tested decking assembly. It is not a standalone rating for the decking board and must not be transferred to another board profile, fixing arrangement, support spacing or substructure unless supported by an appropriate fire-engineering assessment.

Tested configuration

AS 1530.8.1:2018 assesses the performance of external construction elements exposed to radiant heat, flame contact and burning embers or debris.

Infinity I-Series achieved BAL 29 performance in the system configuration below.

System element	Tested requirement	
Decking board	Infinity I-Series (STGJ02AE)	
Support span	450 mm maximum	
Board gap	2–3 mm clear gap between adjacent boards	
Fixing system	ST09D26 Clip – Double sided	
Screw	Countersunk timber screw M4.0 x 30 mm	Countersunk metal screw M4.0 x 30 mm
		
Substructure	Merbau timber joists	

Critical gap control. The 2–3 mm board gap is tighter than standard installation practice and directly influences ember ingress and flame penetration. Maintain it consistently across the deck; a wider gap is outside the tested configuration.

Required actions

Before installation:

1. Confirm that the specified decking profile is Infinity I-Series STGJ02AE.
2. Confirm that support spans do not exceed 450 mm.
3. Use the specified double-sided stainless-steel fixing system.
4. Maintain an approximately 2–3 mm clear gap between adjacent boards.
5. Confirm that the substructure is consistent with the tested assembly or has been approved as a substitution.
6. Obtain written approval from a competent fire engineer for any deviation from the tested configuration.

Limitations and substitutions

BAL 29 performance is based on the specific tested system configuration. Changes to the board profile, support spacing, board gap, fixing system or substructure may produce different fire-performance outcomes.

Substitutions are permitted only where they do not reduce the fire performance of the tested system. Any substitution must maintain the tested spacing, restraint and geometry and must be reviewed and approved in writing by a competent fire engineer before installation.

- **Substructure:** Aluminium or steel may be considered. Bushfire-resistant timber may be used where supported by the applicable assessment.
- **Clips:** Non-combustible metal clips may be considered where they maintain the approximately 2–3 mm board gap and provide equivalent restraint.
- **Fasteners:** Corrosion-resistant steel fasteners may be considered where they have equal or greater diameter and embedment.



Project confirmation required:

Confirm the project BAL classification, installation details and applicable approvals against AS 3959:2018 and the project-specific bushfire assessment. This bulletin does not replace project-specific certification or fire-engineering approval.

Related Documents and support

AS 1530.8.1:2018 – test method for the assessed decking system.

AS 3959:2018 and applicable amendments – bushfire construction requirements.

Step by step installation instructions for BAL CLIP

Follow the steps below to install Infinity I-Series decking using the ST09D26 Double sided clip. See the above details on specifications.

Before you begin

Confirm the correct Infinity I-Series boards, fixing clips and screws are being used. Ensure the joists are correctly spaced, and the substructure is level, secure and ready for installation. Follow the steps below, fastening each board or clip at every joist connection.

1. Position and fasten the first board



2. Insert the clip into the board groove



3. Fasten the clip



4. Insert the next board



5. Repeat the clip-fixing and board-installation sequence across the deck.



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