



March | 2025 AUS

# SwiftLift™ EdgeMaster™

Compliance Document

Reid™ SwiftLift™  
EdgeMaster™  
comply with  
AS 3850.1:2024



# SwiftLift™ EdgeMaster™



Consistent with the Reid™ commitment to local testing, SwiftLift™ EdgeMaster™ have been extensively tested in Australian concrete.

Analysis of the subsequent test data in accordance with AS 3850.1:2024 Appendix A results in EdgeMaster™ having Working Load Limit capacities that are far higher and more accurate than those simply calculated using the CCD method applicable for footed anchors.

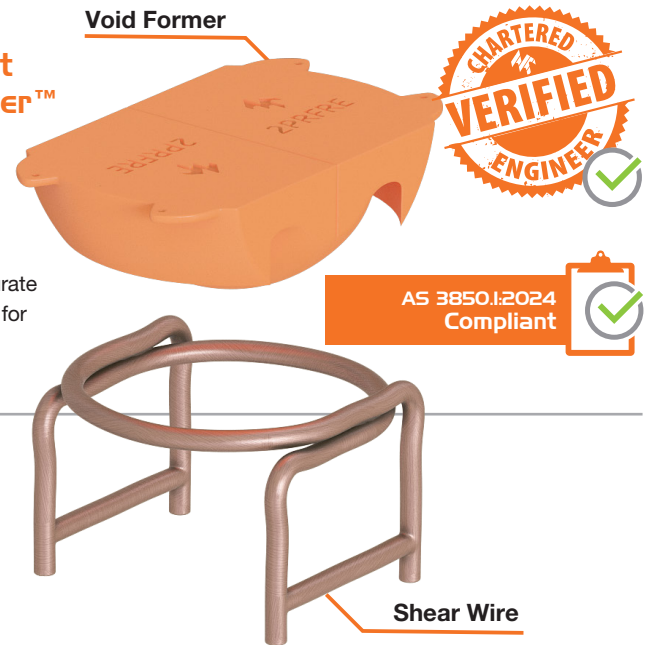


Figure 1:  
Reid™ SwiftLift™ EdgeMaster™



# Compliance Details

**Table I: AS 3850.1:2024 Compliance Details**

Clause	Requirement	Compliant
2.2	The Working Load Limit has been determined by testing in accordance with Appendix A, using a FOS per Table 2.1.	
2.5.1	Manufactured from ductile steel.	
2.5.2.1	WLL determine per clause 2.2	
	Manufactured from ductile steel which exhibits plastic deformation prior to failure at all service temperatures for which the insert is designed to be used.	
	When loaded to tensile failure, a ductile failure and plastic deformation is observed and the failure surface is fully fibrous with no cleavage fracture.	
	Insert assembly including void former shall be marked to ensure compatibility with other system components.	 Refer Figure 2
A2	Concrete for testing complies with AS 1379, tested per AS 1012.	
A3	Testing and recording of results.	
A4	Statistical evaluation of test results, using formula A4, $X_k = x(1 - k_s \text{COV})$ .	
A5	Production Validation through testing to confirm compliance of critical specification requirements (dimensions, material properties and load bearing capacity where appropriate).	
A6	Tension testing of the manufactured lifting insert.	
A7	Characteristic capacity determined from a comprehensive test program including individual and combined effects per Table A3.	

Reid™ SwiftLift™ EdgeMaster™  
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# Reid™ SwiftLift™ EdgeMaster™

The patented EdgeMaster™ System allows the use of 2LE SwiftLift™ Lifting Eye while protecting the element from concrete spalling.

**Table 2: Part Number & Pack Quantity's**

Part No.	Description	Anchor Length (mm)	Pack Qty
2EMFA170R	EdgeMaster	170	16
2EMFA170RSS*	EdgeMaster SS	170	16



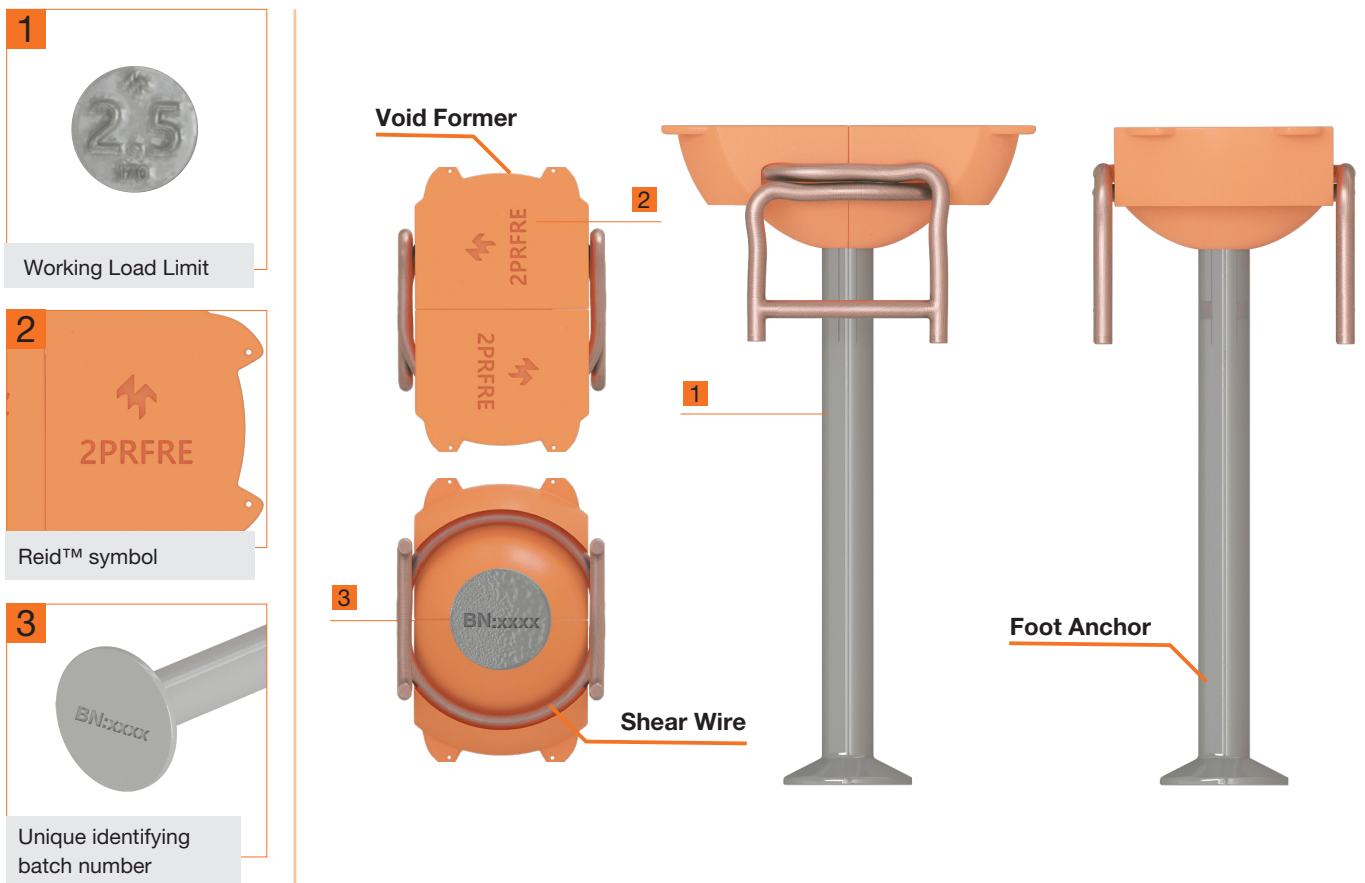
**Note:** Requires 2LE clutch.

\*SS EdgeMaster™ available upon request and subject to lead time.

AS 3850.1:2024 Compliant



**Figure 2: Reid™ EdgeMaster™ and Foot Anchor Markings**



# Reid™ SwiftLift™ EdgeMaster™

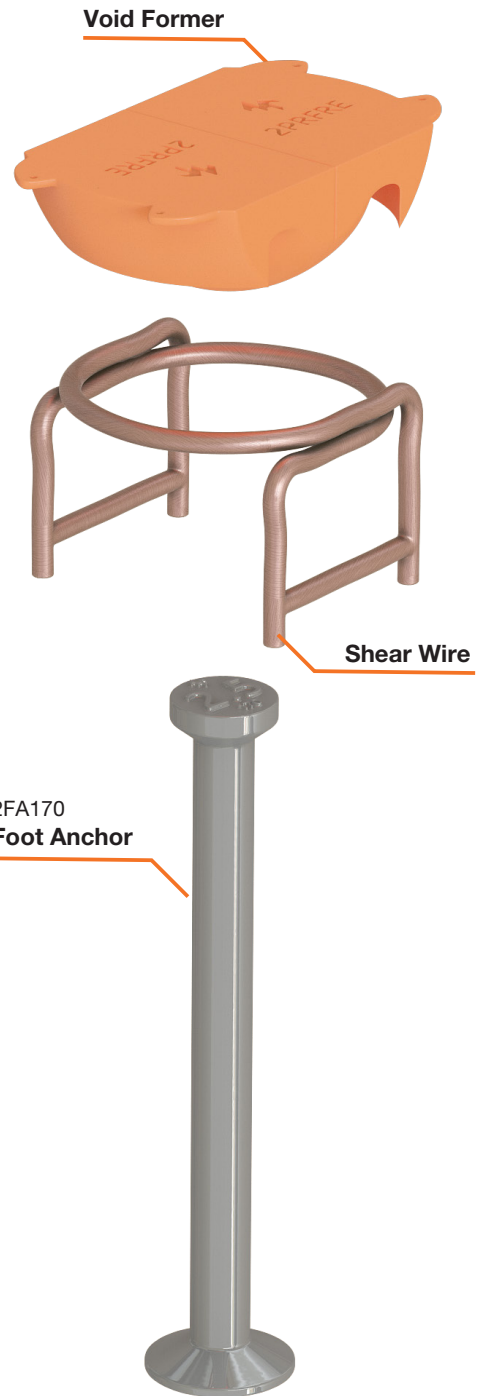
## Product Specifications

**Table 3: SwiftLift™ EdgeMaster™ Components**

Part Description	Qty
Plastic Recess Former	1
Shear Wire	1
SwiftLift Foot Anchor (2.5t)	1

**Note:** Figure 2 shows the important markings to look for on the SwiftLift™ EdgeMaster™ anchors and typical SwiftLift™ Foot Anchor system markings.

**Figure 3:**  
Reid™ EdgeMaster™  
Insitu Isometric View



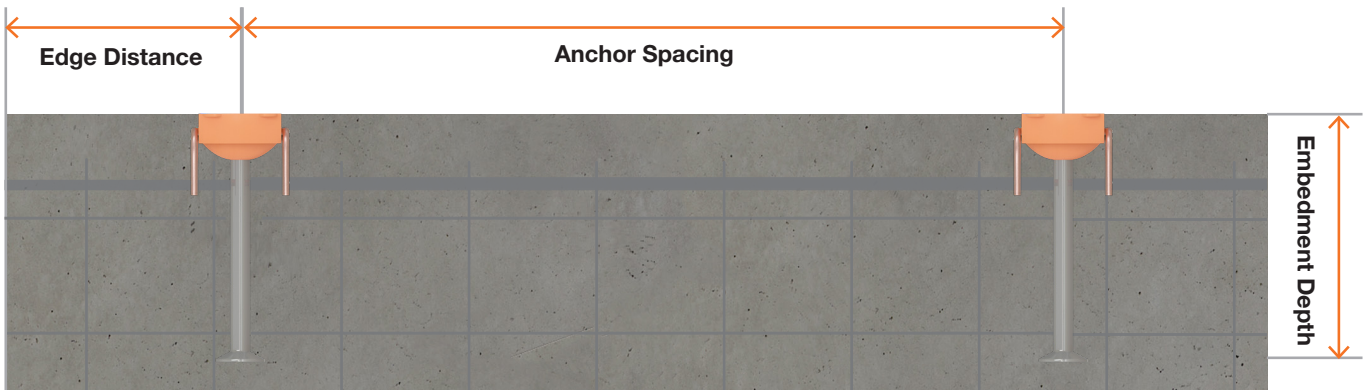
# Reid™ SwiftLift™ EdgeMaster

## Product Specifications

**Table 4: Performance Data, WLL in tonnes**

Panel Thickness (mm)	Part #	Max WLL (tonne)	Stripping	Placement			Precast Panel Reinforcement
			25 MPa	25 MPa	32 MPa	40 MPa	
			Tensile/Shear	Tension	Tension	Tension	
125	2EMFA170R	2.5	1.9/1.2	1.9	2.2	2.5	SL82 mesh with N16 perimeter bars
150			2.3./1.3	2.3	2.5	2.5	

**Table 5:**  
Minimum edge and spacing distances required to achieve performances in Table 4.

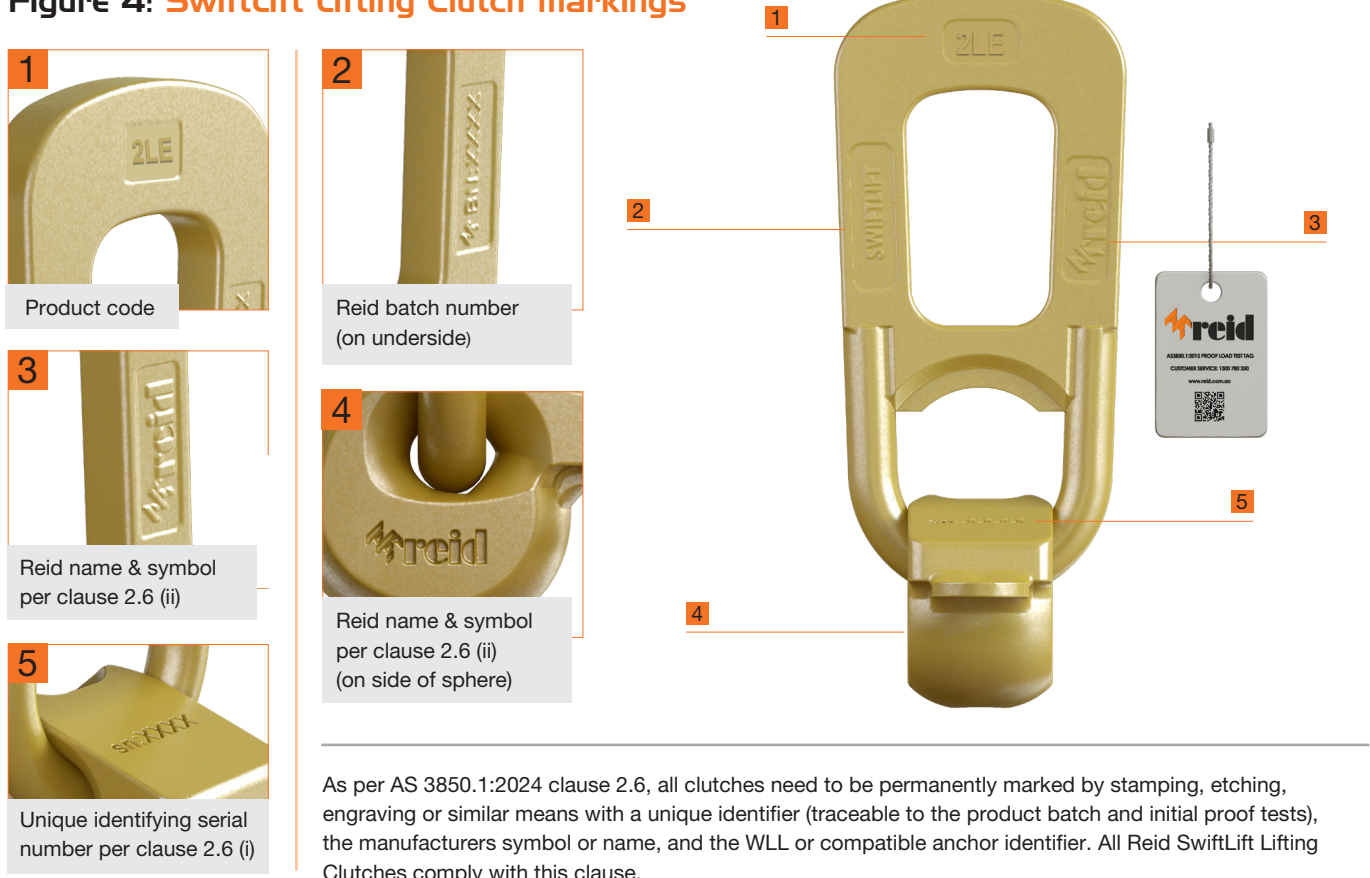


Minimum Edge and Spacing Limits			
Anchor Type	Edge Distance (mm)	Anchor Spacing (mm)	Embedment Depth (mm)
2EMFA170R	270	540	**180

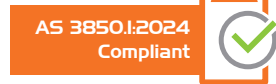
**Note:** Minimum concrete strength required is 25MPa. \*\* Embedment depth should be equal to 180mm.



Figure 4: SwiftLift Lifting Clutch markings



# Quality and Compliance



All Reid™ branded products and all products manufactured at our Melbourne manufacturing facility are designed, manufactured, tested and supplied in compliance with our Quality Management System which has been independently audited and certified by SAI Global to ISO 9001:2015. Reid™ undertake strict quality control processes to ensure performance specifications and metallurgical properties are maintained.

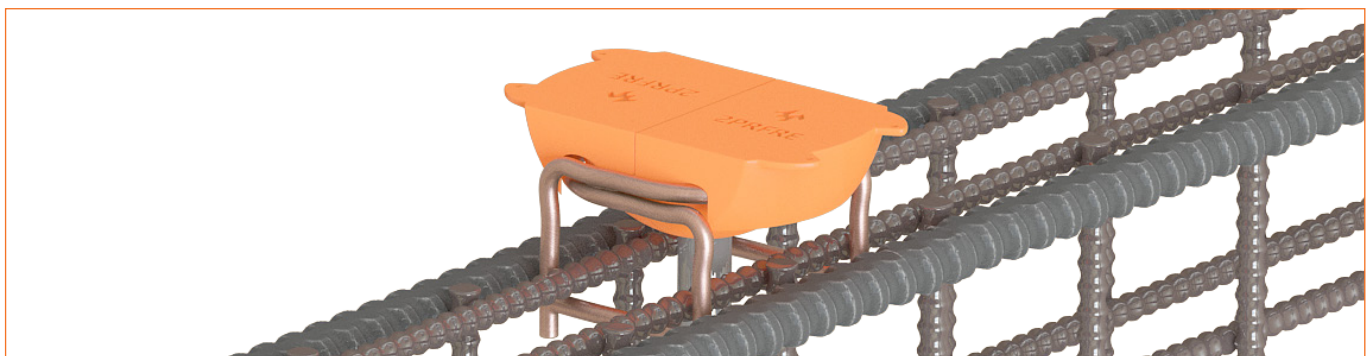
To reflect the continued progress of the industry and the new innovative uses of precast and tilt-up construction, Australian Standard AS 3850 Part 1 and Part 2 has recently been updated in 2024. AS 3850 Part 1, Part 2 and Part 3 are detailed below.

- Part 1, called 'General requirements' details the updated performance and testing requirements for suppliers of componentry into the industry. These requirements are significantly different to AS 3850:2015 and should enable the industry to have greater confidence in the products that they are specifying and using.
- Part 2, called 'Building construction', aligns with the 2008 National Code of Practice for Precast, Tilt-Up and Concrete Elements in Building Construction and focuses on the interrelation of the various stages of manufacture, construction, transport and erection. It is specifically for the construction design and documentation of prefabricated concrete elements in building construction and provides guidance for the Erection Designer and highlights the importance of the Erection Design and Documentation. It was updated to align with the changes in Part 1 and the content in Part 3.
- Part 3, called 'Civil construction' provides requirements impacting prefabricated concrete elements in civil, infrastructure and non-building construction. Similar to Part 2, it focuses on various stages of safety, planning, manufacturing, construction design, casting, transportation, erection and incorporation into the final structure.

The new AS 3850.1:2024 is central for the safe, efficient and cost-effective manufacture, construction, transport and erection of prefabricated concrete elements.



Quality and compliance are at the core of everything we do. Our commitment to ISO 9001:2015 certification ensures every Reid™ product meets the highest standards of safety, performance, and reliability.





## Customer Service

### Reid™ Australia

Tel: 1300 780 250  
Email: [sales@itwcsanz.com](mailto:sales@itwcsanz.com)  
Web: [www.reid.com.au](http://www.reid.com.au)

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### Reid™ New Zealand

Tel: 0800 88 22 12  
Email: [sales@ramsetreid.co.nz](mailto:sales@ramsetreid.co.nz)  
Web: [www.reids.co.nz](http://www.reids.co.nz)

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Reid™

AUS: 1 Ramset Drive, Chirside Park, Victoria, Australia, 3116

NZ: 23-29 Poland Road, Glenfield, Auckland 0632

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