



March | 2025 AUS

Reid™ Swiftlift™ Face Lifter -RFL Series

Compliance Document

Reid™ SwiftLift™ Face Lift
Anchors comply with
AS 3850.1:2024

Reid™ Swiftlift™ Face Lifter - RFL Series



Reid Swiftlift face lifters (RFL series) feature a unique integrated robust chair & void assembly to ensure performance under the harshest conditions.

Once installed the anchor will remain in place with the use of the floating bar clip; Ensuring the anchor remains in place and intact when trafficked. Refer fig 1.

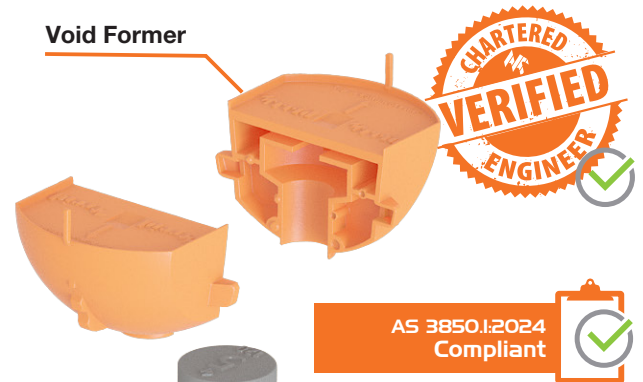
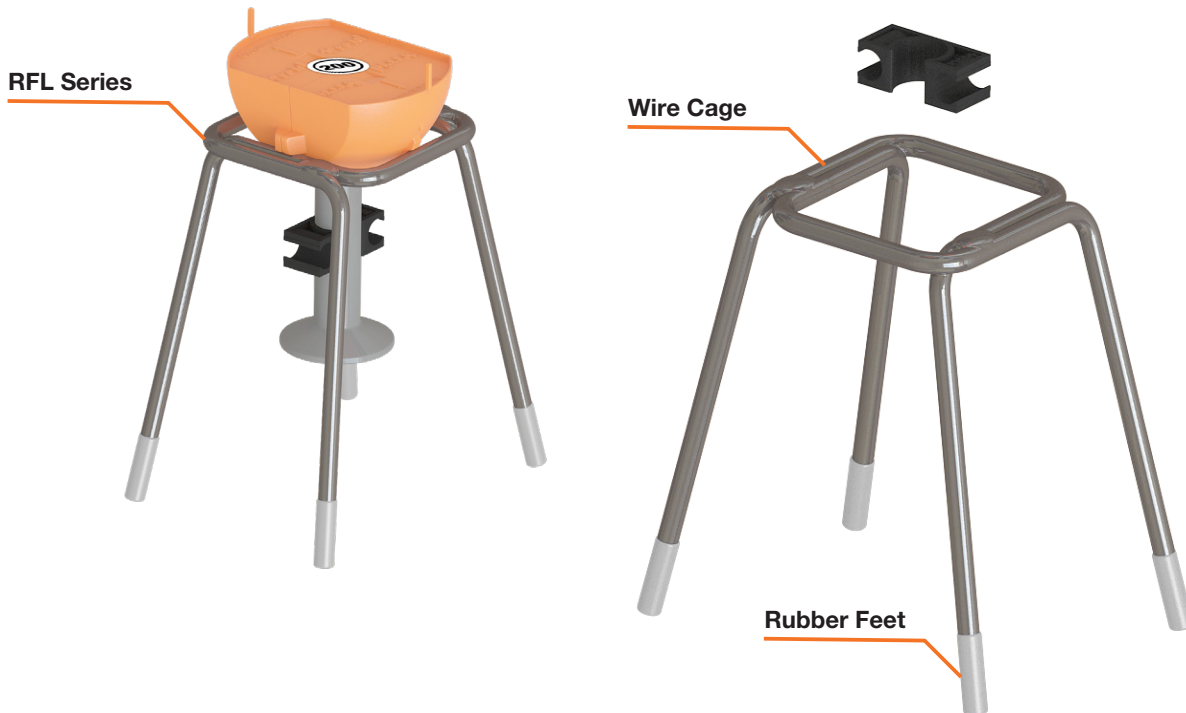


Figure 1:
Reid™ Swiftlift™ Face Lifter - RFL Series



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 and arrangement of the steel reinforcement, 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.	

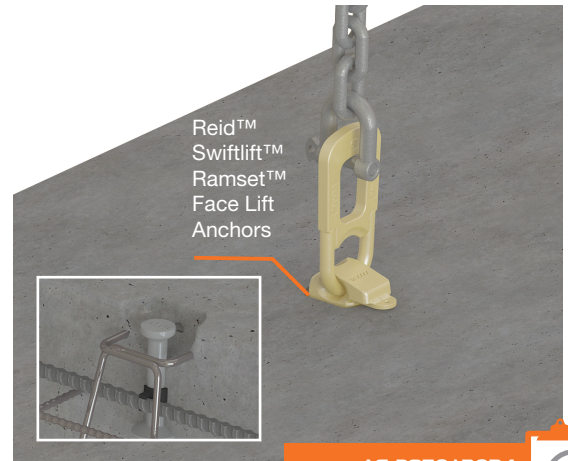
Reid™ Swiftlift™ Face Lifter - RFL Series
comply with **AS 3850.1:2024**



Swiftlift™ Anchor (RFL series)

RFL anchors are cast into concrete with integrated wire chair and void former. Once concrete has set, the void is removed & the lifting clutch (SLC) is attached to the head of the anchor.

- RFL anchors are supplied pre-assembled to match common panel thicknesses, with the void resting 5-8mm below the concrete surface, allowing for easy finishing.
- The system is able to be placed in areas with tight reinforcement. The anchor, prior to placement of concrete, can be attached to the reinforcing mesh via the integral bar clip, ensuring they remain in the correct position and orientation during pour & finish even when trafficked as the floating bar clip allows the surrounding reinforcement to move while the anchor remains in place.




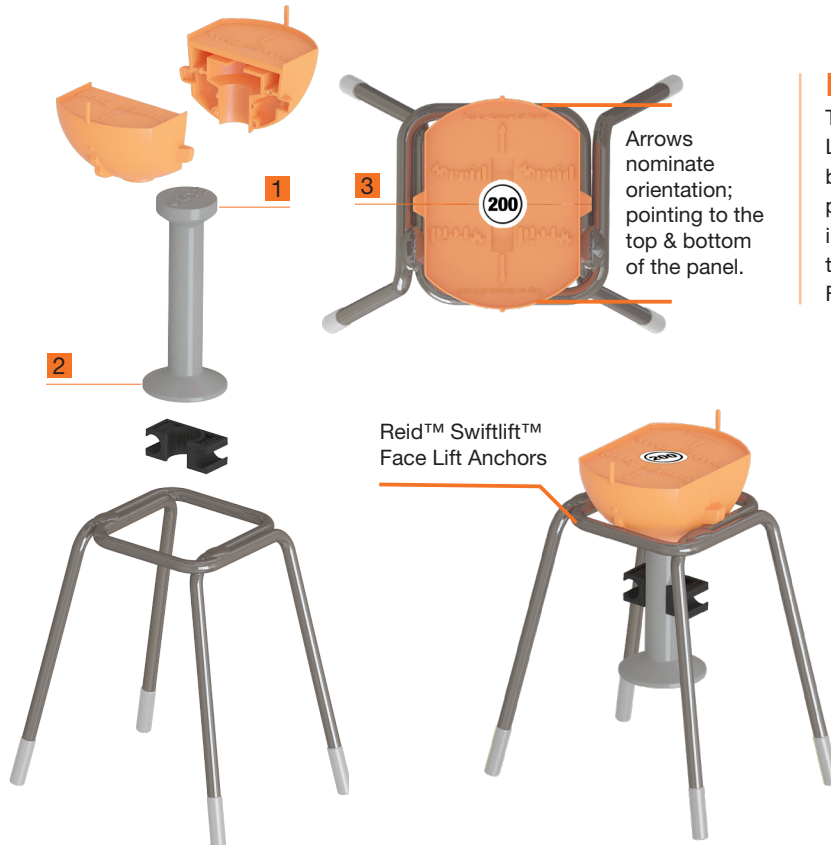
AS 3850.1:2024 Compliant 

Figure 2: Reid™ Swiftlift™ Face Lift Anchors



NOTE:
The Reid™ Face Lift Anchor must be placed as per the arrow indicators on the top of the Void Former.

Product Specifications

Table 2: AS 3850.1:2024 Performance Data (WLL)

Part No.	Panel Thickness (mm)	Working Load Limit (Tonne)				
		Concrete Strength f_{cm} (MPa)				
		15MPa	20MPa	25MPa	32MPa	40MPa
RFL125	125	3.2	3.7	4.1	4.7	5.0
RFL150	150	4.2	4.8	5.0	5.0	5.0
RFL175	175	4.2	4.8	5.0	5.0	5.0
RFL200	200	5.0	5.0	5.0	5.0	5.0

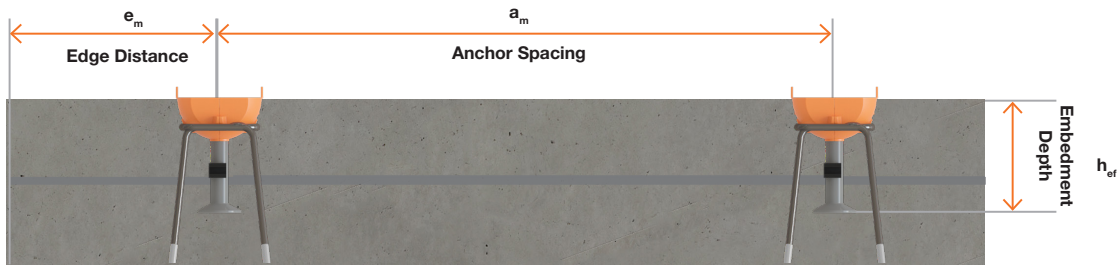


Table 3: Minimum edge and spacing distances required to achieve tensile performances in Table 2

Part Number	RFL125	RFL150	RFL175	RFL200
Embedment Depth h_{ef} (mm)	105	130	130	180
Limiting Edge Distance e_m (mm)	157	195	195	270
Limiting Spacing a_m (mm)	315	390	390	540

Table 4: Minimum edge and spacing distances required to achieve WLL in Shear towards an edge.

	Concrete Strength.	5 Tonne Capacity
	Minimum Edge Distance e_m (mm)*	15MPa 25MPa
Minimum Spacing a_m (mm)	15MPa 25MPa	980 830

*Note: Limiting Edge Distance and Spacing is based on unreinforced concrete and a Minimum substrate thickness (b_m) of $1.5 \times$ Limiting Edge Distance [$b_m = 1.5e_m$]. If conditions are outside these parameters, please contact Reid™ Engineer.

Table 5: Part numbers & suitability

Product Code	To suit panel thickness	Capacity in Tonne (WLL)	Clutch
RFL125	125 – 130	5	5 tonne SwiftLift™ Lifting Clutch 5LE
RFL150	150 - 155	5	
RFL175	175 - 180	5	
RFL200	200 – 205	5	



Quality and Compliance

AS 3850.1:2024
Compliant



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, constructions 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.







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