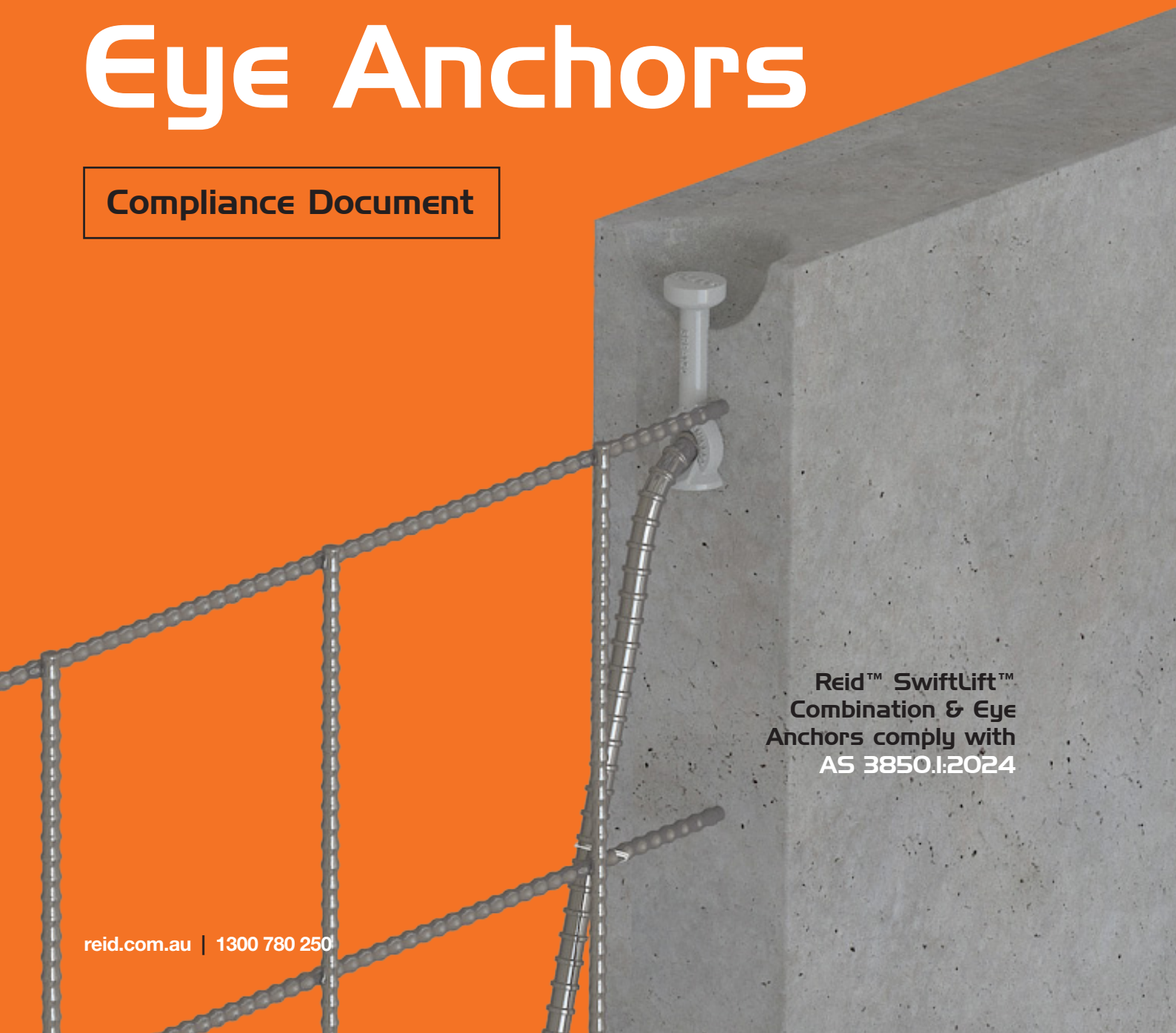
reid™

CHARTERED VERIFIED ENGINEER

June | 2026 AUS

Reid™ SwiftLift™ Combination & Eye Anchors

Compliance Document



Reid™ SwiftLift™ Combination & Eye Anchors comply with AS 3850.1:2024

SwiftLift™ Combination & Eye Anchors

Forged from steel bar with an enlargement formed at each end.

For maximum tensile capacities these anchors can be combined with additional reinforcement. Ideal for use in thin walled or low strength concrete applications, where foot anchors alone would not be able to develop an appropriate pullout cone.

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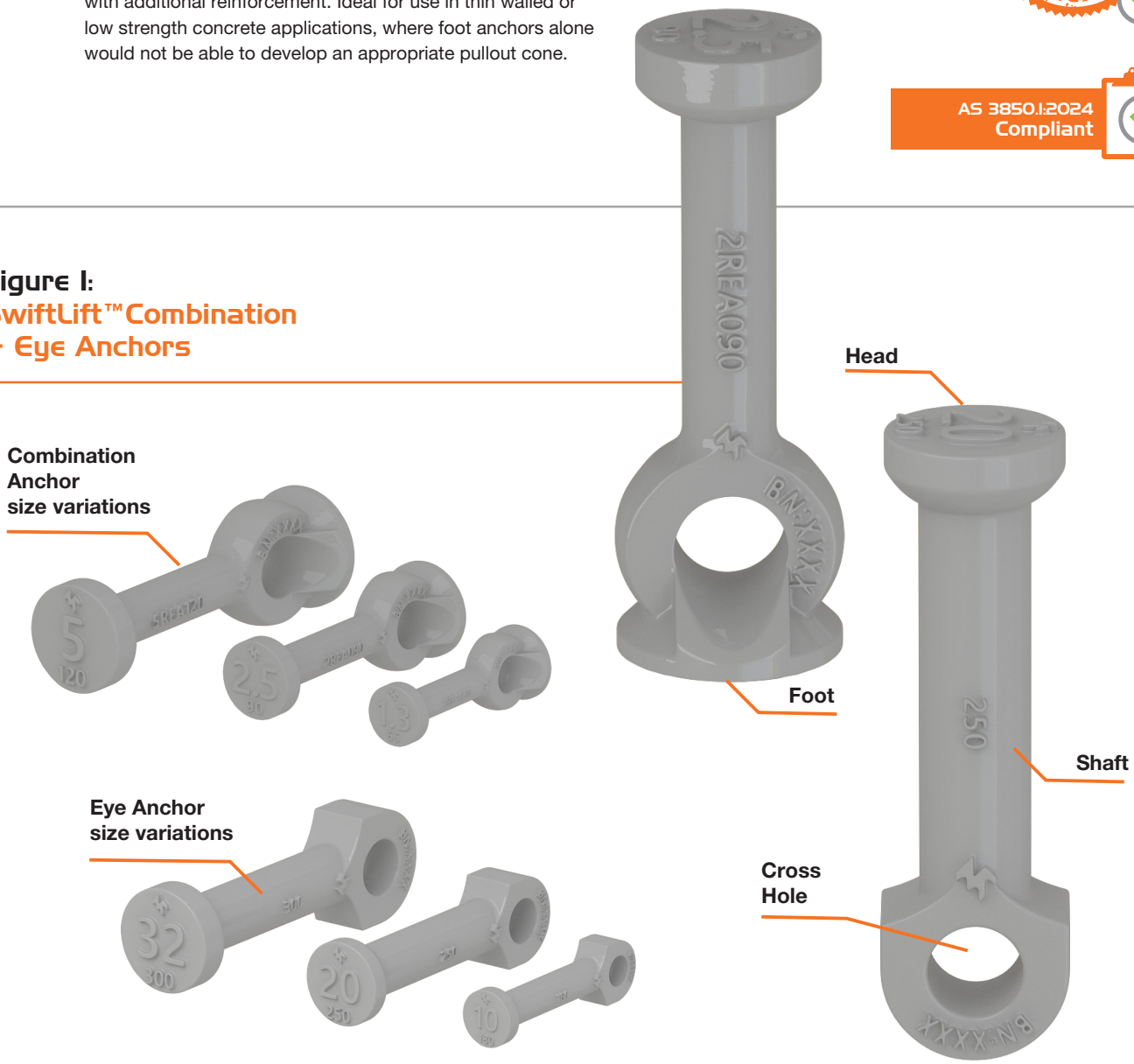
AS 3850.1:2024 Compliant

Figure 1:
SwiftLift™ Combination & Eye Anchors



Compliance Details

Table 1: 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.	✓
	Concrete for testing complies with AS 1379, tested per AS 1012.	✓
A5	Production Validation through testing to confirm compliance of critical speciation requirements (dimensions and arrangement of the steel reinforcement, material properties and load bearing capacity where appropriate).	✓
A6	Tension testing of the manufactured lifting insert.	✓

SwiftLift™Combination & Eye Anchors comply with AS 3850.1:2024 ✓

TESTED TO LOCAL CONDITIONS

Reid™ SwiftLift™ Combination & Eye Anchors

SwiftLift Combination Anchors

1.3t-5t anchors feature a combined foot and eye. When used with a reinforcing tension bar they are able to provide deeper anchorage and increased load capacity in thin wall or low strength concrete elements. The cutout foot and saddle-like moulded eye opening provide support for the reinforcing tension bar.

SwiftLift Eye Anchors

Are higher load anchors (10t-32t) which provide deeper anchorage and increased load capacity in thin wall or low strength concrete elements.

They are ideal for bridge beams and other heavy precast concrete elements.

AS 3850.1:2024 Compliant

Figure 2: Reid™ SwiftLift™ Combination & Eye Anchor Markings

1

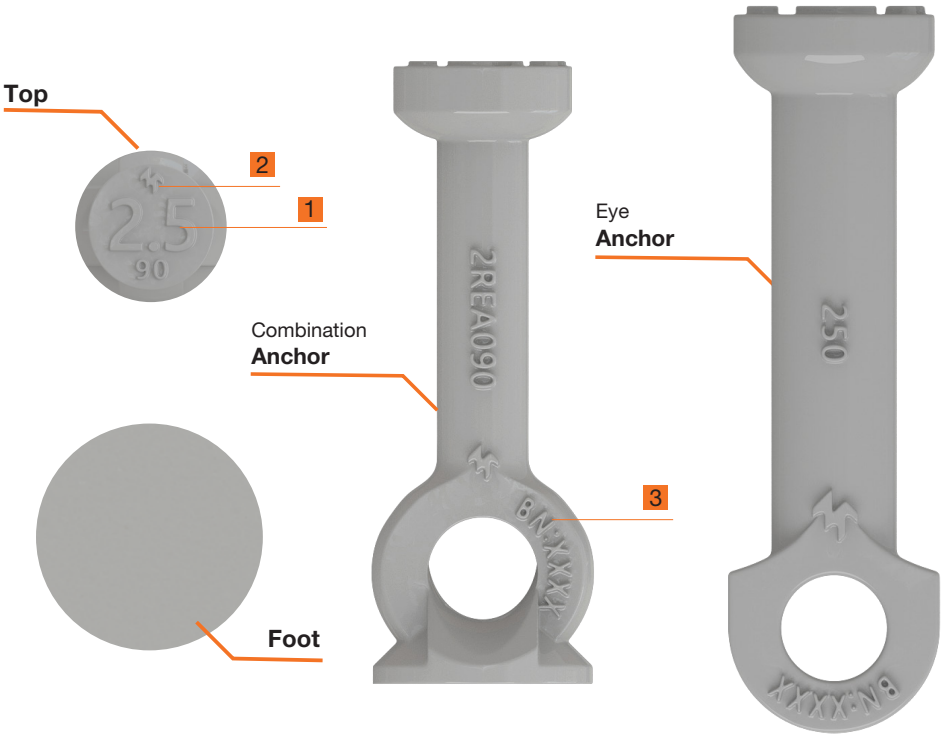
Working Load Limit

2

Reid™ symbol

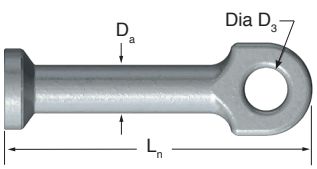
3

Unique identifying batch number



Product Specifications

Note: To achieve stated tensile capacities (Table 3) anchors require supplementary reinforcement. Combination and eye anchors are designed for tensile loads only. Additional reinforcement may be required for shear capacity; please contact your local Reid™ Engineer for further information.



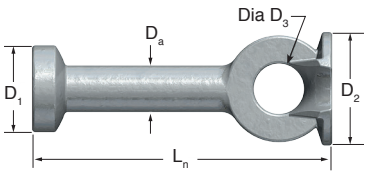


Table 2: Part Numbers & Anchor Dimensions (mm)

Load Group (t)	Shaft Diameter D_a (mm)	Head Diameter D_1 (mm)	Foot Diameter D_2 (mm)	Cross-hole Diameter D_3 (mm)	Length L_n (mm)	Recess Form Max Radius (mm)	Part No	Type
1.3	10	19	24	12	50	30	1REA050	Combination Anchor
1.3	10	19	24	12	65	30	1REA065	
2.5	14	26	31	15	90	37	2REA090	
5	20	36	41	20	90	47	5REA090	
5	20	36	41	20	120	47	5REA120	Eye Anchor
10	28	47	-	25	180	59	10EA180	
20	39	70	-	37	250	80	20EA250	
32	50	88	-	47	300	109	32EA300	

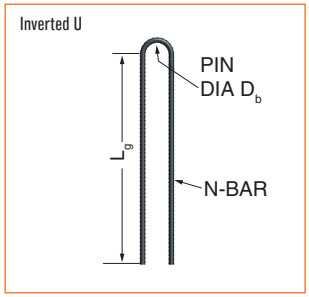
Table 3: AS 3850.1:2024 Tensile Performance Data (WLL), tonnes

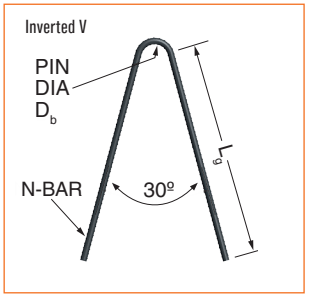
WLL (t)	T-bar Size	Bend Internal Diameter D_b (mm)	Tension Bar Leg Length L_g (mm)					
			Concrete Strength f_{cm} (MPa)					
			15	20	25	30	35	40
1.3	N10	40	400	320	300	300	300	300
2.5	N12	48	450	390	350	350	350	350
5	N16	64	600	540	480	460	460	460
10	N20	80	800	700	630	580	580	580
20	N28	112-168	1200	1050	950	850	800	800
32	N36	144-216	1700	1500	1300	1200	1100	1050

Note: Tension bar lengths are based on using Grade 500N deformed bar and assumes no transverse reinforcement.
To further optimise Tension Bar Lengths, please contact your local Reid™ Engineer.
Material properties of tension bar to be in accordance with AS/NZS 4671:2019 Grade 500N.

NOTE: Tension bars may be shaped as either a inverted U, or as an inverted V. If other Codes or Standards are applicable, ensure that the development length is adjusted for compliance, if necessary.

For load group 1.3t, an R10 round bar shaped as an inverted V with hook ends may be substituted for the N10 bar.





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SwiftLift™ Combination & Eye Anchors

Product Specifications (mm)

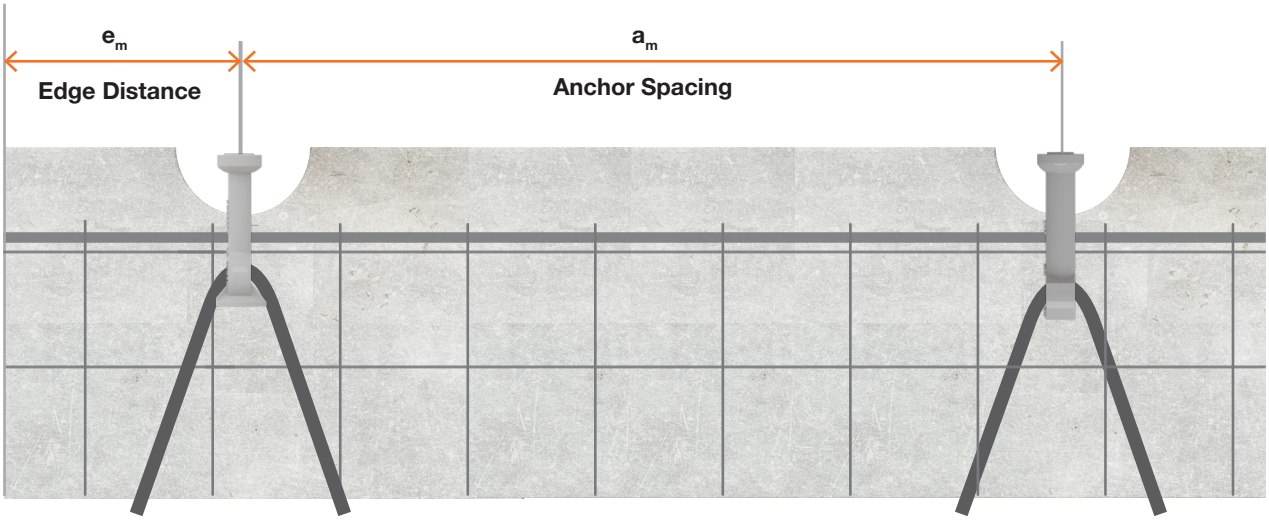
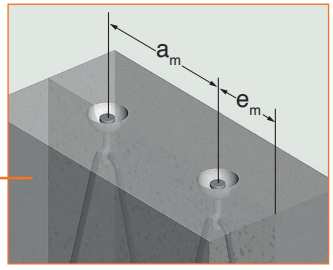


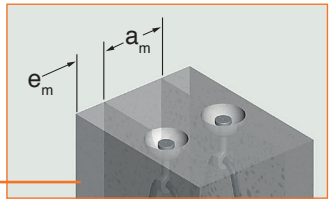
Table 4: Minimum edge and spacing distances required to achieve WLL

Load Group (t)	Parallel to Tension Bar Plane		Transverse to Tension Bar Plane	
	Min Spacing a_m (mm)	Min Edge Distance e_m (mm)	Min Spacing a_m (mm)	Min Edge Distance e_m (mm)
1.3	200	100	100	50
2.5	250	120	120	60
5	320	160	150	75
10	400	200	170	85
20	640	320	320	160
32	900	450	400	200

Minimum distance parallel to T-bar plane



Minimum distance transverse to T-bar plane



TESTED TO LOCAL CONDITIONS

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, Part 2 and Part 3 has recently been updated. 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.

Customer Service

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