

SwiftLift™

Lifting Clutches



AS 3850.1:2015
COMPLIANT*

Figure 1: SwiftLift™ 2.5T Clutch



Reid SwiftLift™ Lifting Clutches, from 1.3t to 32t WLL comply with AS3850.1:2015. They are manufactured under strict quality requirements using the highest quality steel and manufacturing processes. All SwiftLift™ Clutches exceed the minimum requirements of AS 3850.1:2015 and are proof tested in Australia.

Table 1: Compliance Details

Clause number	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.	✓
2.6	WLL determined in accordance with clause 2.2.	✓
	Manufactured from ductile materials.	✓
	When loaded to ultimate failure, failure shall occur in a ductile manner away from any weld zones, with evidence of distortion and plastic deformation and all fracture faces shall exhibit ductile failure mechanisms.	✓
	All cast components shall be 100% florescent magnetic particle tested.	✓
	Each clutch shall be proof-tested, certified and uniquely identified.	✓
	Each clutch shall be permanently marked with a unique identifier (traceable to the proof tests), the manufacturers symbol or name and the WLL or compatible anchor identifier.	✓
A3	Testing and recording of results.	✓
A4	Statistical evaluation of test results, using formula A4, $X_k = x(1 - k_s COV)$.	✓
A5	Production Validation through testing to confirm compliance of critical speciation requirements (dimensions, material properties and load bearing capacity where appropriate).	✓ * See note on p3
A8	During design validation, clutches shall be tensile tested to determine R_y .	✓
	Each clutch shall be proof tested in accordance with clause 2.6.	✓
	Tensile testing shall be in accordance with A8.2.3.	✓

Figure 2: SwiftLift™ Lifting Clutch markings



Note: Clutch markings above are typical of 1,2 & 5t clutches. Markings on AS 3850.1:2015 compliant 10, 20 and 32t clutches may vary from above.

Figure 3: SwiftLift™ Lifting Clutches

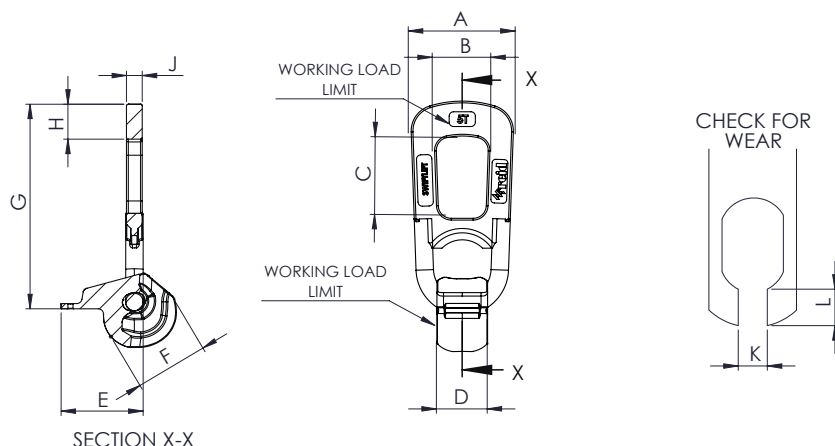


Table 2: Clutch Wear Limits (mm)

Size	K max	L min
1.3	13	5.5
2.5	18	5.5
5.0	25	8.0
10.0	46	18.0
32.0	58	24.0

Table 3: Clutch Dimensions (mm)

Working Load Limit (t)	Dimensions from Figure 3.								
	A	B	C	D	E	F	G	H	J
1.3	75	47.5	71	33	55	56	164	21	12
2.5	98	64	95	42	70	68	205	25	14
5.0	118	70	90	57	86	88	237	38	17
10.0	160	95	120	73	117.5	112	348	51	25
20.0	186	118	150	110	155	152	441	74	33
32.0	269	175	189	153	214	195	584	100	40

To reflect the progress of the industry and the new innovative uses of precast and tilt-up construction, Australian Standard AS 3850 was updated in 2015. This update included a change in title to AS 3850:2015 Prefabricated Concrete Elements, a widened scope to include all prefabricated elements in Building Construction and splitting of the document into two parts:

- Part 1, called 'General requirements' details the new performance and testing requirements for suppliers of componentry into the industry. These new requirements are significantly different to AS 3850:2003 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.

The new AS 3850:2015 is central for the safe, efficient and cost-effective manufacture, construction, transport and erection of prefabricated concrete elements.



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. ramsetreid™ undertake strict quality control processes to ensure performance specifications and metallurgical properties are maintained.

* ramsetreid™ are currently in discussions with Australian Standards and the BD-066 committee regarding the wording of Clause A5.3 and the associated cost implications to the Precast industry. ramsetreid™ manage production validation in compliance with our ISO 9001:2015 quality management system. It is expected that Clause A5.3 will be reviewed by the BD-066 committee.

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In the interests of product improvement, ramsetreid™ reserves the right to alter product specifications as required. Information included in this compliance document is correct at time of printing. It is the responsibility of the user to ensure product selected is appropriate for its intended use. For further technical information go to www.ramsetreid.com or contact ramsetreid™ on the numbers indicated. ITW Australia Pty. Ltd. ABN 63 004 235 063 trading as ramsetreid™ © Copyright 2017™ Trademarks of Cetram Pty. Ltd. used under license by ramsetreid™

