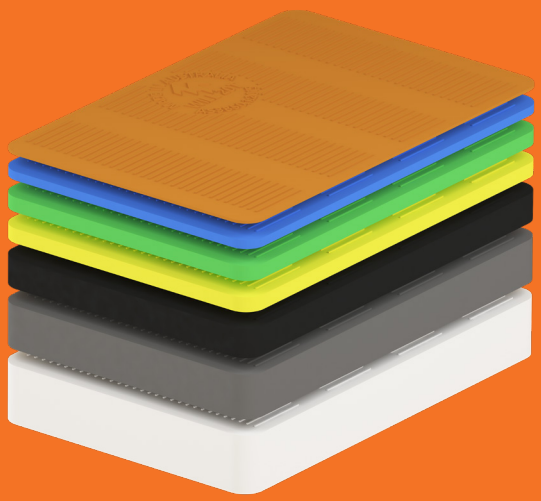
reid™

May | 2023 AU

Reid™ Panel Shims

Compliance Document



Reid™ Panel Shims comply with AS3850.1:2015 (+A1 2019)

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Reid™ Panel Shims

Reid™ Panel Shims have been independently tested & rated with a 20t Working Load Limit (WLL) as determined in accordance with AS3850.1:2015 (+A1 2019).

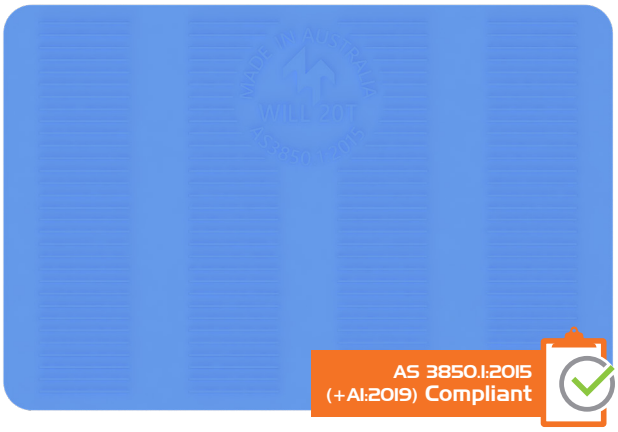
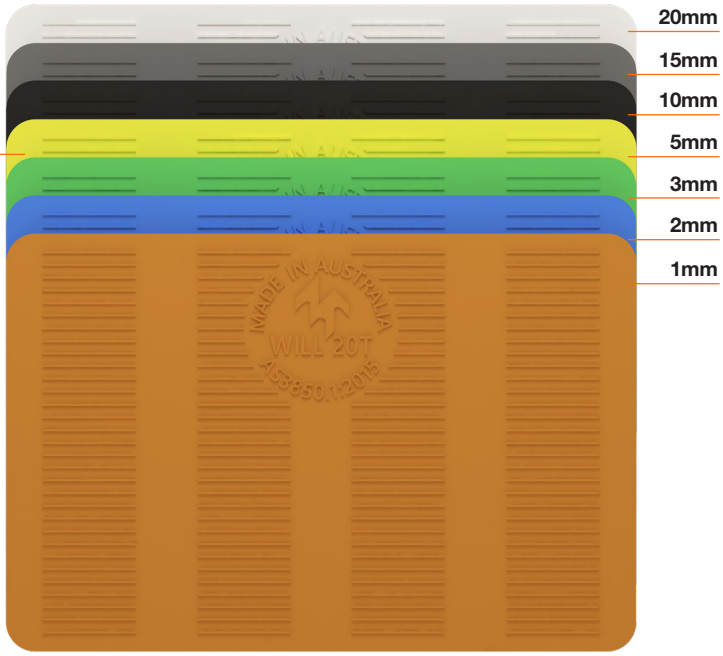


Figure 1: Blue Full Panel Shim (2mm)

Figure 2: Reid™ Panel Shim Range



Reid™ Panel Shims comply with AS3850.1:2015 (+A1 2019)

Reid™ Panel Shims Key Features:

- Reid Panel Shims have been designed for the temporary leveling & support of precast elements.
- They are manufactured in our ISO accredited Australian factory.
- Reid Panel Shims are colour coded by thickness, for easy identification.
- They are also permanently marked with the Reid logo & 20t WLL for easy identification.
- Reid Panel Shims have a minimum coeffient of friction of 0.3.

TESTED TO LOCAL CONDITIONS

Compliance Details

Table 1: AS3850.1:2015 (+A1 2019) 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	✓
2.8.1	Deform elastically at full load	✓
	Not continue to creep more than 5% up to 15 mins at full load;	✓
	Not continue to creep more than 3% after 15 mins at full load up to 48 hrs;	✓
	Resist corrosion stains, not be affected by cold weather, alkali, ground chemicals	✓
	Not oxidize or expand when exposed to moisture	✓
	Permanently marked with WLL & for traceability	✓
	WLL derived using statistical methods based on ultimate load determined from the onset of plastic deformation	✓
2.8.2	The Working Load Limit has been determined by testing in accordance with Clause 2.2 & the compressive strength of the material per Appendix A.	✓
A3	Testing and recording of results	✓
A4	A4 Statistical evaluation of test results, using formula A4, Xk=x(1-ksCOV). 4	✓
A5	Production Validation through testing to confirm compliance of critical speciation requirements (dimensions, material properties and load bearing capacity where appropriate).	✓ *see note on p5
A11.3	Shim specimen to be conditioned in accordance with ASTM D618, procedure A.	✓
A11.4	Compression test per ASTM D695	✓
A11.5	The compressive strength shall be expressed in MPa and Determined from the stress to deform or rupture the specimen.	✓
A11.6	Tested with WLL load X FoS per table 2.1 for 48 hrs @ 15-25° C.	✓
	Tested with WLL load for 12 hrs @ 40° C.	✓

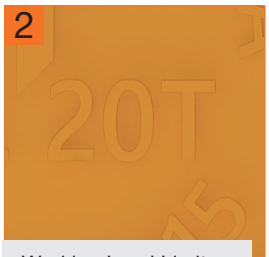
Product Specifications

Table 2: Full Panel Shim Product Codes

Product Codes	Shim Thickness (mm)	Dimensions (mm)	Working Load Limit (WLL)	Colour	Pack Qty
SHIM01	1	150 x 100	20t	Brown	100
SHIM02	2	150 x 100	20t	Blue	200
SHIM03	3	150 x 100	20t	Green	100
SHIM05	5	150 x 100	20t	Yellow	100
SHIM10	10	150 x 100	20t	Black	40
SHIM15	15	150 x 100	20t	Grey	40
SHIM20	20	150 x 100	20t	White	30

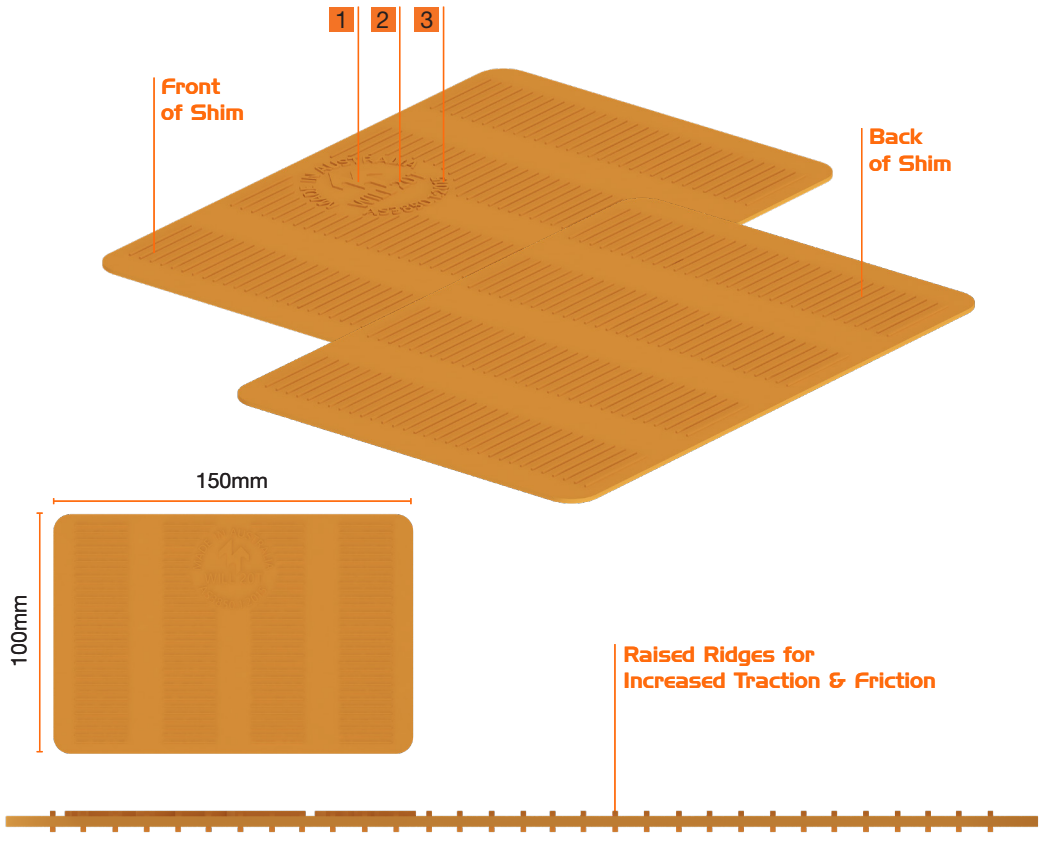
Reid™ Full Panel Shim Features & Markings

Reid™ Logo



Working Load Limit

Compliance Number



Testing & Verification

Reid™ Panel Shim packaging contains our reid logo, WLL & batch number for traceability

AS 3850.1:2015 (+A1:2019) Compliant

In addition to batch testing, our Panel Shims have also been independently tested by an accredited NATA laboratory.

NATA Independant Testing Scenarios

Figure 3: Compression Test

Figure 4: Test setup used for elevated temperature compression test

Terms and Conditions

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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 progress of the industry and the new innovative uses of precast and tilt-up construction, Australian Standard AS 3850 was updated in 2015 and amended in 2019.. 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 3850.1:2015 (Incorporating Amendment 1 - 2019) is central for the safe, efficient and cost-effective manufacture, construction, transport and erection of prefabricated concrete elements.

customer service

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