



February | 2021 **AUS**

# Reid™ Lifting Plate

**Compliance Document**



**Reid™ Lifting Plate**  
SLP comply with  
AS 3850.1:2015  
(+A1:2019)

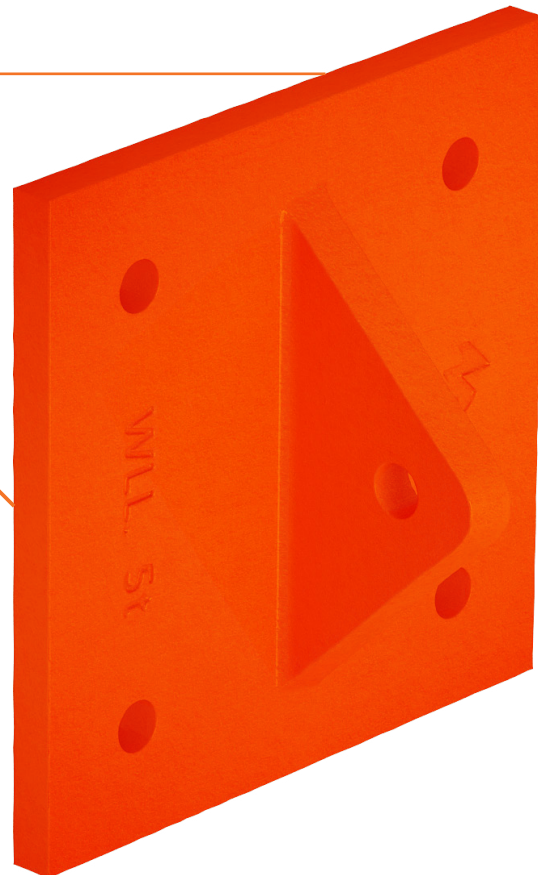
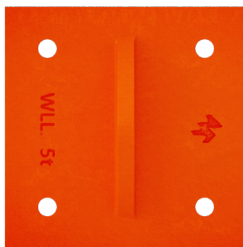
# Reid™ Lifting Plate



Reid Lifting Plates are typically used in instances where a lifting anchor has been overlooked or missing. It must be used where the load direction is aligned with the cleat and minimal side load is applied.



Figure 1:  
Reid™ Lifting Plate



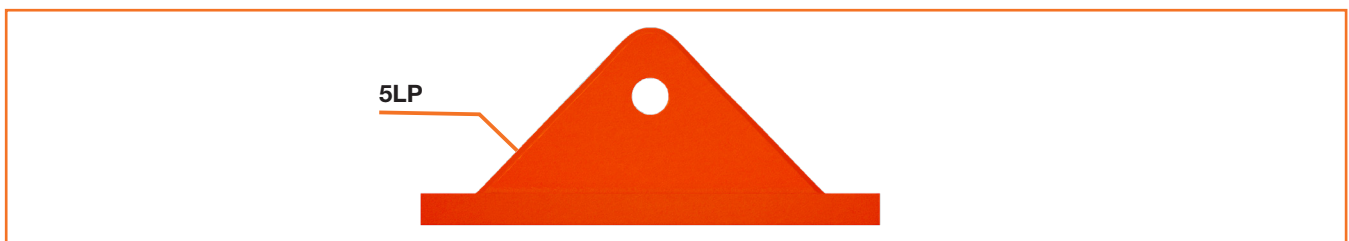
## Reid™ Lifting Plate Key Features:

- Designed for use where a lifting anchor has been omitted or installed incorrectly in a concrete panel.
- Suitable to for use with thicknesses of 150mm and above.
- 5 tonne WLL
- Manufactured in accordance with AS1554.3:2014
- Made in Australia
- NATA Proof Load Certificate

# Compliance Details

**Table I: AS 3850.1:2015 (+A1:2019) Compliance Details**

Clause	Requirement	Compliant
2.2	WLL derived from testing in accordance with Appendix A	✓
2.5	Ductile materials. Washer sized to transfer load across brace foot slot.	✓
2.10	Statement of intended use 'BraceSet bracing anchor is intended to secure either end of a precast concrete panel brace (as defined in AS 3850.1:2015 (+A1:2019) when installed in accordance with this information'.	✓
Appendix A	Product Validation through testing to confirm compliance of critical specification requirements (dimensions, material properties and load bearing capacity where appropriate).	✓
A3	Comprehensive test report produced according to A9.7	✓
A4	Statistical evaluation of test results	✓
A9.4.1	Torque tests assessed according to A9.5.2	✓
A9.4.2	Basic tension tests assessed according to A9.5.3	✓
A9.4.3	Cyclic slip tension tests assessed according to A9.5.4	✓
A9.4.4	Shear tests assessed according to A9.5.5	✓



Reid™ Lifting Plate comply with **AS 3850.1:2015 (+A1:2019)**

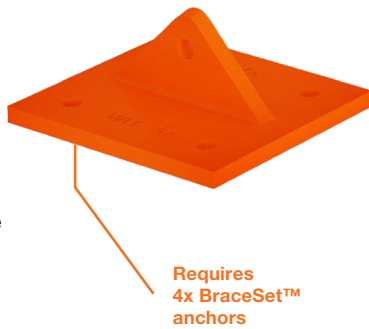


# Product Specification

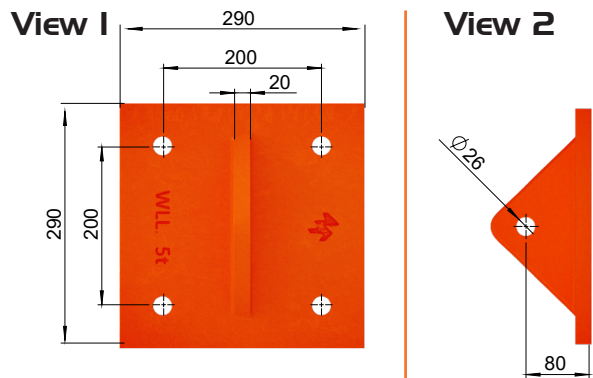


Reid Lifting Plates are typically used in instances where a lifting anchor has been overlooked or missing.

The Reid Lifting Plate must be used where the load direction is aligned with the cleat and minimal side load is applied.

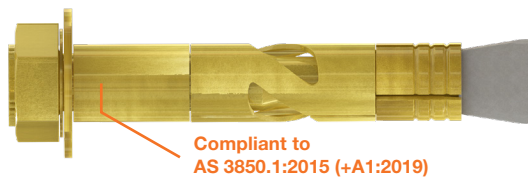


## Product Specification - Dimensions Of 5LP



## The Reid Lifting Plate requires 4x BraceSet™ anchors

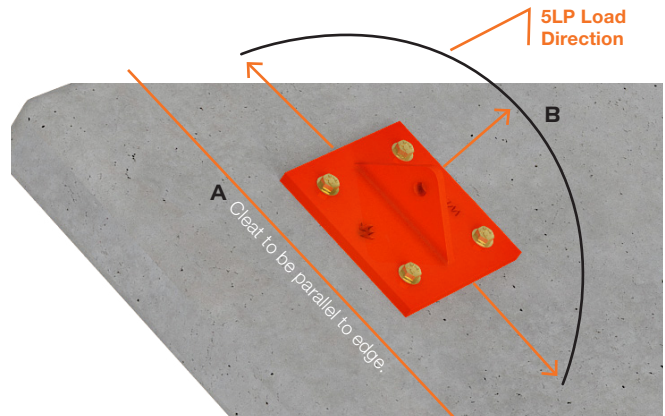
(Product Code: BA20115) for installation into concrete.



Compliant to AS 3850.1:2015 (+A1:2019)

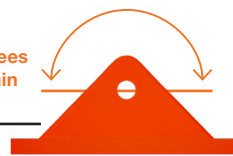
Go to [www.reid.com.au](http://www.reid.com.au) for a copy of the BraceSet AS3850.1:2015 (+A1:2019) compliance document.

## Product Specification - 5LP Cleat Position and Load Direction



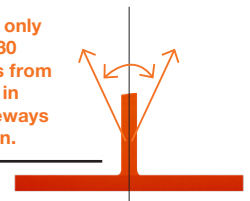
### Plane A

Lifting plate can be loaded in 180 degrees in the main direction



### Plane B

but can only have ± 30 degrees from vertical in the sideways direction.



## The Reid Lifting Plate is marked with its rated Working Load Limit – 5T.

The Working Load Limit of 5t @20 MPa (when positioned away from an edge) and when the lift design is certified by the ramsetreid™ Engineering department.)

### Please note:

- The Working Load Limit is for use in face lift type in-plane lifts where the plate has minimal side loads.
- 5LP is required to be proof loaded on an annual basis.



# Installation

## (with post-installation QA check)

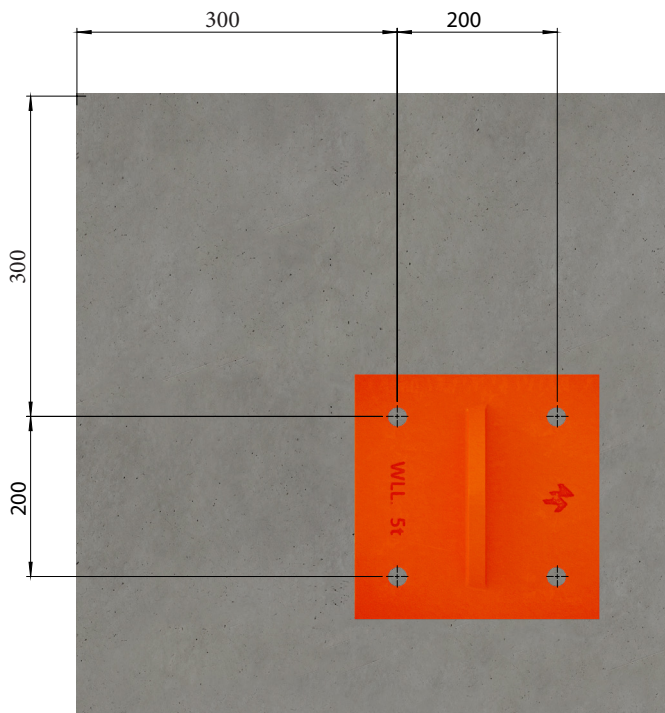
**Table 2: Lifting Plate Product Code**

Product Code	Description	Capacity
5LP	5 tonne Reid Lifting Plates	5 Tonne

**Please note:**

Requires 4x BraceSet™ anchors (Product Code: BA20115) installed as per the BraceSet Technical Data Sheet

**Product Specification -**  
**Minimum edge distances**



**Please note:**

It is critical that there is 300mm minimum edge distances for the 5LP.

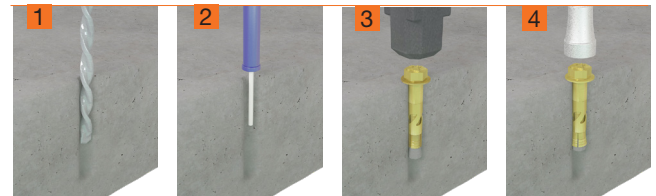
**Installation Specification**

Anchor	Part No.	Drill Hole Diameter (mm)	Hole Depth (mm)	Set up Torque (Nm)	Min. Edge Distance (mm)	Min. Distance to Another Plate (mm)	Min. Concrete Strength (MPa)
BraceSet	BA20115	20	114	150	300	750*	>20**

\*750mm or as specified by ramsetreid™ engineer.

\*\*Ensure that the minimum concrete strength achieved is more than 20MPa

**1. Centralize the 5LP at proposed lifting point with lifting eye parallel to lifting direction, with specified minimum distances from concrete edge and another plate.**



- 2. Drill one hole for each corner with nominated diameter and depth.**
- 3. Blow/Vacuum dust from the hole.**
- 4. Position and drive the anchor with mash hammer into hole until it makes contact with the lifting plate.**
- 5. Tighten the anchor bolts with a calibrated torque wrench to the nominated assembly torque\*.**

\*Use calibrated torque wrench only, in accordance with AS3850.2:2015 (+A1:2018), clause 5.1.2.

**Note:** If reinforcing is struck and the required depth cannot be achieved, relocate the lifting plate 50mm from the original position (maintaining the minimum edge distances) and re-drill the holes.



# 5LP Post - Installation QA Check:

1. Brace inserts should be verified at least weekly and after major weather events to ensure they are secure, in accordance with AS3850.2:2015 (+A1:2018)
2. Check if a bolt head can be turned by hand and if it turns, report it immediately to the responsible authority on site.
3. After installation of brace inserts with nominated assembly torque, put an alignment reference marks on the bolt head and the surrounding surface.



**A** - No Movement



**B** - Up to 45°



**C** - Up to 90°



**D** - Greater than 90°  
Report to authority on site.

4. Using a calibrated torque wrench, apply 100Nm torque in a clockwise direction.
5. If any anchor bolt turns more than 90° from the reference mark, then report this immediately to the responsible authority on site.
6. Total accumulated rotation of any bolt head should not exceed 180° from the first reference mark and if it does, report immediately to the responsible authority on site.
7. ramsetreid™ does not recommend retorquing to the initial installation torque of 150Nm.

# 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. ramsetreid™ 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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Customer Service Centre

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#### Reid™ Construction Systems (RCS) 1 Ramset Drive, Chirmside Park 3116

Information in this document is correct at the time of printing. Readers should contact RCS or consult RCS detailed technical information to ensure product is suitable for intended use prior to purchase.

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