

ENVIROCON® INTERBLOC® LIFTING

LIFTING GUIDELINES

**ANCHORS, CLUTCHES, RIGGING AND STATE
REQUIREMENTS FOR INTERBLOC® BLOCKS**

Envirocon Australia Pty Ltd · October 2026



ABOUT THIS GUIDE

Interbloc® blocks are lifted using cast-in Reid SwiftLift foot anchors and genuine Reid SwiftLift lifting eye clutches. The lifting system is designed and certified by Reid Construction Systems for Australian use.

This guide summarises the Reid certification and the general rules for lifting our blocks safely. The Reid documents listed at the end are attached to this guide. If anything in this summary differs from those documents, the Reid documents apply.

IMPORTANT

This guide isn't a lift plan. Every lift needs to be planned by the person or company doing it, in line with AS 3850 and the work health and safety rules in your state. If you have any questions, please talk to your Envirocon® representative before you lift.

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01 THE LIFTING SYSTEM

REID SWIFTLIFT CERTIFICATION REQ-1895 · FEBRUARY 2025

Reid has certified the Interbloc® lifting system under certification REQ-1895 (February 2025). The certification covers compliance with AS 3850, AS 3600, AS 1170, the National Code of Practice for Precast, Tilt-up and Concrete Elements in Building Construction, and where applicable the Queensland Tilt-up and Pre-cast Construction Code of Practice 2003.

1.1 ANCHORS, CLUTCHES AND RIGGING BY BLOCK

BLOCKS	ANCHORS	CLUTCHES	RIGGING
600 series Standard, Flat Top, Flat Bottom and Flat Top Recess	2 × 2.5 t SwiftLift foot anchor, 120 mm (2FA120)	2 × Reid 2LE	Two-leg sling, 60° maximum at the hook
600 Capper and 600 Taper	1 × 1.3 t SwiftLift foot anchor, 120 mm	Reid 1LE	Single point, straight vertical lift
1200 series Standard, Flat Top, Flat Bottom and Flat Top Recess	1 × 2.5 t SwiftLift foot anchor, 120 mm (2FA120)	Reid 2LE	Single point, straight vertical lift
1200 Foundation	2 × 2.5 t SwiftLift foot anchor, 120 mm (2FA120)	2 × Reid 2LE	Two-leg sling, 60° maximum at the hook
1200 Capper	1 × 1.3 t SwiftLift foot anchor, 120 mm	Reid 1LE	Single point, straight vertical lift
1800 series Standard, Flat Top, Flat Bottom and Flat Top Recess	2 × 2.5 t SwiftLift foot anchor, 120 mm (2FA120)	2 × Reid 2LE	Two-leg sling, 60° maximum at the hook

NOTE · BLOCK NAMES ON REID DRAWINGS

Some block names differ on the Reid drawings. The 1200 Foundation is shown as the 1200 Base Block, the 1200 Capper as the 1200 Top Block, and the 600 Capper as the 600 Top Block.

01 THE LIFTING SYSTEM

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1.2 WHAT THE CERTIFICATION IS BASED ON

ITEM	BASIS
Suction factor (smooth oiled steel mould)	1.2
Dynamic factor (hydraulic crane, stationary)	1.2
Minimum concrete strength at de-moulding	15 MPa (25 MPa for cappers and taper blocks)
Minimum concrete strength at placement	25 MPa
Anchor factor of safety	4

1.3 CONDITIONS OF THE CERTIFICATION

- **Genuine Reid clutches only.** Every block must be lifted with genuine Reid lifting clutches, which always carry the Reid logo. Using any other brand of clutch voids the certification.
- **New clutches with every order.** Envirocon® always prices brand new Reid lifting clutches with an order. If you're using second-hand or previously used clutches, they must be tested, tagged and inspected, and that is the responsibility of whoever is doing the lift.
- **Sling angle.** The certification is based on a maximum included angle of 60 degrees at the hook. Talk to us before using a wider angle.
- **Equal loading.** Where a block has two anchors, both must take an equal share of the load.
- **Single-anchor blocks.** The 1200 series blocks and the cappers have one anchor and can tilt or swing during the lift. Lift straight up, never side-load the anchor, and use taglines to control the block.
- **No welding to lifting anchors, ever.**
- **No changes.** Any change to the block, anchor or lifting hardware without Reid's written approval voids the certification.
- **Repeat lifts.** There's no limit on how many times a block can be lifted, as long as the anchor shows no corrosion or damage and the concrete around it is sound and free of cracks.

02 CLUTCHES

INSPECTION, TESTING AND DISCARD • AS 3850.1:2024

Reid SwiftLift lifting eye clutches from 1.3 t to 32 t comply with AS 3850.1:2024. Each clutch is proof tested before it leaves Reid and is permanently marked with a unique serial number, a batch number, the Reid name and its working load limit (WLL). Don't use a clutch if its markings can't be read.

2.1 REUSED CLUTCHES: WHEN THEY MUST BE TESTED

New clutches supplied with your order are ready to use. If you're reusing clutches, they must be proof tested:

- At least every 12 months in service, to $1.2 \times \text{WLL}$.
- Any time the clutch has been loaded above its WLL.
- Any time someone has doubts about its condition and wants a second opinion.

Testing should be done by a competent person at a facility accredited by NATA (or IANZ) to test to AS 3850.1, using a new matching anchor for each test. Keep a record of every test.

CLUTCH 1LE • WLL 1.3 T

16 kN

ANNUAL PROOF LOAD

CLUTCH 2LE • WLL 2.5 T

30 kN

ANNUAL PROOF LOAD

02 CLUTCHES

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2.2 CHECK BEFORE EVERY USE

New or used, take a clutch out of service straight away if it shows any of the following:

- **A handle bent more than 5 degrees.** Slight bending on site is common, but more than 5 degrees means it must be discarded.
- Cracks, bending, bruising, stretching or any other distortion.
- It won't fit onto a normal anchor properly.
- Any critical measurement outside the limits below.

2.3 CRITICAL MEASUREMENT LIMITS

CLUTCH	H • SLOT IN SPHERE MAX	M • LIP ON SPHERE MIN	D • HANDLE CROWN MIN	E • LOOP THROUGH SPHERE MIN
1LE	13 mm	5.5 mm	17 mm	11.5 mm
2LE	18 mm	5.5 mm	20 mm	13 mm

Limits apply to clutches made from 2019 onwards. For older clutches, contact Reid. The attached Reid discard criteria show where each measurement is taken.

2.4 DISCARDED CLUTCHES

Remove a discarded clutch from service, record the reason, and either destroy it so it can't be used again (for example by cutting through the sphere) or return it to Reid.

03 SLINGS AND RIGGING

60 DEGREES MAXIMUM AT THE HOOK

3.1 SLING ANGLES

The sling angle is the angle between the two legs, measured at the hook. As the angle gets wider, the load in each leg goes up, even though the block weighs the same.

INCLUDED ANGLE AT HOOK	LOAD IN EACH LEG	EXAMPLE • 1.5 T BLOCK
0° (legs vertical)	0.50 × block weight	0.75 t
60° INTERBLOC® LIMIT	0.58 × block weight	0.87 t
90°	0.71 × block weight	1.06 t
120° INDUSTRY LIMIT	1.00 × block weight	1.50 t

- **Interbloc® limit: 60 degrees.** This is the limit in the Reid certification. A simple check: at 60 degrees the two legs and the gap between the anchors form an equal-sided triangle, so each leg needs to be at least as long as the distance between the anchors.
- **Industry limit: 120 degrees.** No sling should ever be used above 120 degrees. Around 60 degrees is the preferred angle for any two-leg lift.
- **Short slings overload the anchors.** If the legs are too short to keep within 60 degrees, use longer legs or a lifting beam.
- **Multi-leg slings.** Australian Standards rate two, three and four leg slings on the basis that two legs carry most of the load. Don't assume the load splits evenly across every leg.

3.2 RIGGING STEPS

- 01 Position the hook directly over the block's centre of gravity.

02 Take up the slack slowly until every leg is in tension.

03 Check each clutch is fully engaged on its anchor.

04 Lift a short distance, stop and check the block is level and stable before lifting further.

3.3 CHAINS AND LIFTING GEAR

- **Grade.** Use Grade 80 (Grade T) or higher alloy chain slings made to AS 3775. Every component in the assembly, including master links, connectors and hooks, must be the same grade or higher.
- **Tag.** Every sling must carry a WLL tag showing the manufacturer, grade, size, test certificate number and WLL. If the tag is missing or can't be read, don't use the sling.
- **Rating.** The sling's WLL must be at least the load in each leg at the angle you're using, not just the block weight.
- **Before every use.** Check the full length of the chain and every fitting.
- **Periodic inspection.** A competent person should inspect slings on a schedule set by how often they're used. Keep the records. As a guide:

1-5 LIFTS / WEEK	6-25 LIFTS / WEEK	26-200 LIFTS / WEEK	200+ LIFTS / WEEK
YEARLY	6 MONTHLY	3 MONTHLY	MONTHLY

- **Discard** if wear exceeds 10% of the link diameter, there's any stretch in the links, or there are cracks, gouges, kinks, twists, pitting or signs of heat damage.
- **Never** knot, weld or heat a chain, point-load a hook, or make up fittings on site. Hooks should have working safety latches.
- **Repairs.** If any load-bearing part or the WLL tag is replaced, the sling must be retested before use.

04 STATE REQUIREMENTS

VICTORIA • NEW SOUTH WALES • QUEENSLAND

The rules below apply across Victoria, New South Wales and Queensland. Check the regulator's website for the current version before you plan a lift.

4.1 LICENCES

- **Dogging.** A dogging high risk work licence is needed when slinging involves judgement about which lifting gear to use, its condition, or how to sling the load, or when someone directs a crane operator who can't see the load.
- **Crane and forklift operators** need the right high risk work licence for the machine. Holders of a vehicle loading crane (CV) or bridge and gantry crane (CB) licence can do the dogging for their own crane without a separate dogging licence.

4.2 PLANNING THE LIFT

- Work involving precast concrete elements is high risk construction work. A Safe Work Method Statement (SWMS) is needed before the work starts.
- Set an exclusion zone for every lift. No one stands or walks under a suspended load.
- Check for overhead power lines and keep the required clearances.

4.3 BY STATE

STATE	KEY REFERENCES
VICTORIA	Occupational Health and Safety Act 2004 and OHS Regulations 2017. WorkSafe Victoria industry standard: Precast and Tilt-up Concrete for Buildings. WorkSafe Victoria guidance on dogging and slinging techniques.
NEW SOUTH WALES	Work Health and Safety Act and Regulation. SafeWork NSW Dogging and Rigging Guide, which covers sling angles and the care and inspection of chain slings.

QUEENSLAND

Work Health and Safety Act and Regulation. Tilt-up and Pre-cast Construction Code of Practice 2003, currently being updated (see 4.4).

ALL STATES

AS 3850.1:2024 (prefabricated concrete elements, general requirements), AS 3850.2 (building construction), AS 3850.3 (civil construction), AS 3775 (chain slings), and the National Code of Practice for Precast, Tilt-up and Concrete Elements in Building Construction.

04 STATE REQUIREMENTS

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4.4 QUEENSLAND CHANGES

In December 2025, Workplace Health and Safety Queensland issued a safety alert after clutches failed or came off their anchors during precast lifts around Australia.

1.25 × H

DRAFT 2026 CODE OF PRACTICE

Exclusion zone of 1.25 times the height of the element, in front and behind.

Where that isn't possible, it expects:

- Locking lifting clutches with an engagement pin.
- Clutches visually inspected and proof tested to $1.2 \times \text{WLL}$ at least every 12 months.
- Snatch block sling assemblies inspected each year by an independent specialist.
- Installed lifting anchors inspected by the manufacturer.
- Familiarisation training for the riggers doing the lift.

These controls are written for precast panels, but they're good practice for any precast lift. Check the current Code before working in Queensland.

05 BEFORE EVERY LIFT

PRE-LIFT CHECKLIST

#	CHECK	CONFIRMED
01	The block type, weight and number of anchors confirmed against the table in 1.1	☐
02	Genuine Reid clutch, correct size for the anchor (2LE or 1LE), markings readable	☐
03	Clutch is new, or a reused clutch has been proof tested in the last 12 months, and it passed its visual check	☐
04	Chain sling tagged, Grade 80 or higher, inspected and rated for the leg load	☐
05	Sling angle no more than 60 degrees at the hook on two-anchor blocks	☐
06	Anchor and surrounding concrete free of damage, corrosion and cracks	☐
07	Operator and dogger hold the right licences	☐
08	SWMS in place and exclusion zone set	☐
09	Hook over the centre of gravity, slack taken up, clutches engaged	☐
10	Taglines ready for single-anchor blocks	☐

ATTACHED DOCUMENTS

- Reid Construction Systems, Safe Lifting Guide and Certification (Precast Lifting), Interbloc®, REQ-1895 R0, February 2025, with block drawings and standard lifter details.
- Reid SwiftLift Lifting Clutches Discard Criteria, Australia, August 2023.
- Reid SwiftLift Lifting Eye Clutches AS 3850.1:2024 Compliance Document, Australia, March 2025.

PLAN EVERY LIFT. CHECK EVERY TIME.

PLEASE NOTE

This guide is a summary for general information. It doesn't replace the Reid certification, the Australian Standards, or the law in your state. Whoever does a lift is responsible for planning it and for their duties under work health and safety law.

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CERTIFICATION Reid Construction Systems REQ-1895

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