

Attn :	Jack Bright	From :	Mehdi Ayati
Company :	Envirocon	Reid Construction Systems (A division of ITW	Australia Pty Ltd)
Date :	11/02/2025	ABN :	63 004 235 063

SAFE LIFTING GUIDE AND CERTIFICATION (PRECAST LIFTING)

Compliant with AS3850, AS3600, AS1170 and the National Code of Practice for "Precast, Tilt-up and Concrete Elements in Building Construction" and if applicable, QLD Code of Practice 2003 "Tilt-up and Precast Construction" and QLD TMR regulations

RE: Project Name: Interbloc
 Project Address: Melbourne, VIC
 As attached and stamped with Reid Job Number : **REQ-1895**
 This document includes the following attachments:

RR-SLD Standard Lifter Details

DESIGN CRITERIA - Unless noted otherwise

The designs in the above-mentioned drawings are based on the following information:

LOAD FACTORS applied

(In accordance with AS3850 and AS1170 and information provided by customer)

- Smooth oiled steel casting bed suction factor **1.2**
- Dynamic load factor for Hydraulic crane in stationary position **1.2**

CONCRETE STRENGTH (Provided by customer and confirmed by **Reid** Design engineer)

- Unless noted otherwise, at the time of de-moulding, minimum **15** MPa
- Unless noted otherwise, at the time of placement, minimum **25** MPa

SPECIFIED PRODUCTS - Unless noted otherwise

LIFTING SYSTEMS

2FA120	2.5 tonne Reid Swiftlift foot anchor x 120mm long for in-yard & onsite placement. Clutch Part Number 2LE.
FE20095	M20 Reid Elephant Foot Ferrule x 95mm long (For Strongback connection to panel)
Strongbacks	Please refer to detailed comments in above-mentioned drawings.
Clutches	Genuine Reid Lifting Clutches. Type and part No. as provided in above-mentioned anchor type.
Use of Anchors - Multiple Lifts	Please be advised that there is no restriction to the number of times an element, which has a designed and approved lifting certification issued by Reid, can be lifted if there are no signs of corrosion or damage to the anchor and that the surrounding concrete is sound with no cracks or other visible damage. Lifting conditions laid out in the Reid design certification must be strictly adhered to so the lifting anchors are not loaded beyond their working load limit or in any way other than that approved by Reid. This advice does not relate to elements required to be lifted continuously during their service life (such as temporary barriers) unless specifically stated in the lifting certification.

SAFETY NOTES

PRE-POUR (For Panel Manufacturers)

- 1 Anchors and additional reinforcement (shear and tension bars) detailed in above-mentioned drawings must be installed as per *Reid Safe Lifting for Precast/Tilt-Up Concrete Panels & Elements guide*.
- 2 Edge lifting anchors must be centrally placed within edges. Install double (each face) shear bars if panels require to be flipped over.
- 3 Any kind of Welding to the Lifting anchors is STRICTLY PROHIBITED.
- 4 Strongback Inserts/anchors must be located at 200mm edge distances and equally spaced, unless noted otherwise on above-mentioned drawings.
- 5 It is the responsibility of the Panel manufacturer/Builder to ensure that the specified cast-in inserts are positioned correctly (including but not limited to Lifters, Ferrules, Cast-in plates).

LIFTING (Off Pre-Cast Bed and Onto Transportation Method)

- 1 All welds for strongbacks/legs must comply with *Australian Standards*
- 2 Please refer to comments in above-mentioned drawings for strongback stripping information.

RIGGING ARRANGEMENT (In-yard and Onsite)

- 1 All panels **MUST** be lifted using genuine **Reid** Lifting Clutches. These clutches will always bear the **Reid** logo. The use of other branded lifting clutches will void all certifications for lifting and is STRICTLY PROHIBITED.
- 2 It is the responsibility of the End users to ensure only genuine **Reid** Lifting Clutches are used and clutches are load tested, tagged, and visually inspected.
- 3 Certification is based on a maximum sling angle of 60 degrees at hook, unless specified otherwise in above-mentioned drawings. If a greater angle is required, please contact **Reid**.
- 4 Riggings are to be done as per attached standard rigging page or specific details on each shop drawing.
- 5 It is the responsibility of the Panel manufacturer/Builder to ensure panels are lifted with correct sling angle & sling length. Minimum sling lengths for panels are as per *AS3850.1: 2015 section 2.5.2*. Short or incorrect sling lengths will overstress panels. Please refer to attached rigging diagrams for details.
- 6 All lifting points are designed for equally distributed loads unless stated otherwise on above-mentioned drawings. Please ensure all anchors are equally loaded with the use of equalizing beams, equalising sheaves, etc.
- 7 Panel may not be set down until it has reached its final orientation. Unapproved support conditions may lead to overstressing and cracking.

IMPORTANT NOTES

- a Comments on the above-mentioned drawings in regards to the lifting anchor locations and types, strongback inserts and/or general panel handling must be addressed prior to panels manufacturing.
- b The designs are based on the panel geometry, weight and hardware detailed in the drawings submitted to engineering portal for this job, or in attached drawings with the design. This certification will be invalid should changes be made without **Reid's** written approval and in this case **Reid** will accept no liability in the event of an incident.
- c End users are responsible for seeking clarification and guidance from **Reid** on any issues regarding the use and interpretation of the design and any practical matters on the installation and maintenance. Advice from any other source will invalidate this certification.
- d **Reid** Engineering Design Services charges will apply if **Reid** nominated products in above-mentioned drawings are not used for this project. Any redesign work will incur a charge.
- e It is the responsibility of the Panel manufacturer to ensure engineers and builders onsite receive this certification and above-mentioned drawings. These documents provide thorough and complete information about how each panel will be lifted to provide a safe working environment onsite.
- f Factor of safety of **Reid** lifting products comply with above mentioned standards and Code of Practice

Mehdi Ayati

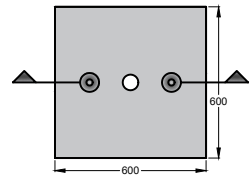
B.Eng (Civil)(Hons), MIEAust No. 3676399, CPEng, NER, RPEQ

Senior Structural Engineer - Precast

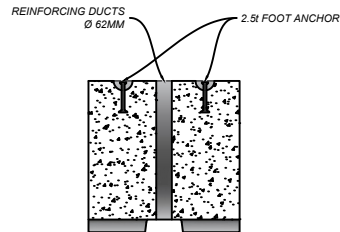
Reid Construction Systems

600 FLAT TOP BLOCK

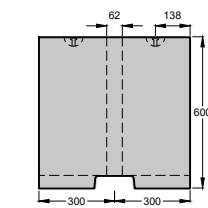
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• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.206 m ³
• Weight (±)	500 kg



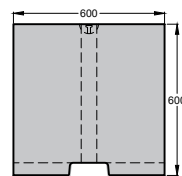
PLAN



CROSS SECTION



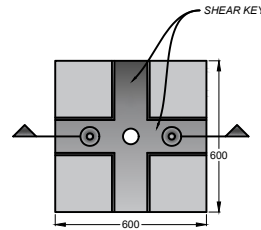
FRONT ELEVATION



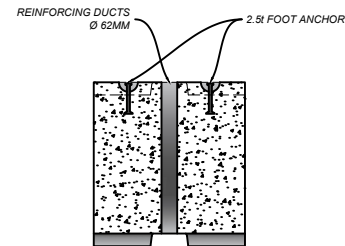
SIDE ELEVATIONS

600 STANDARD BLOCK

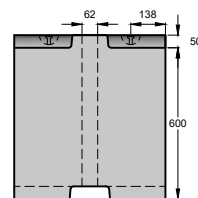
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• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.214 m ³
• Weight (±)	500 kg



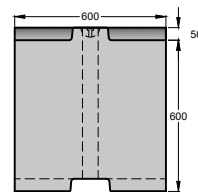
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CROSS SECTION



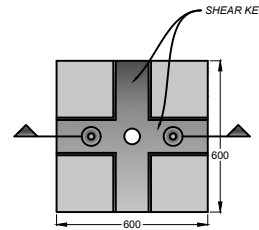
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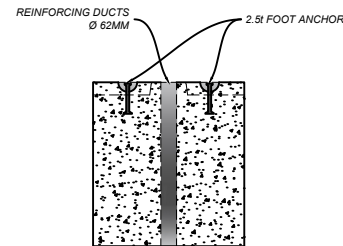
SIDE ELEVATIONS

600 FLAT BOTTOM BLOCK

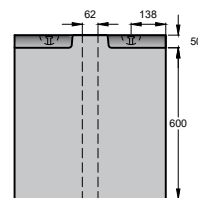
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• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.221 m ³
• Weight (±)	500 kg



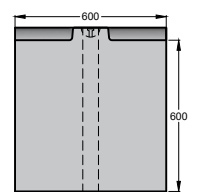
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CROSS SECTION



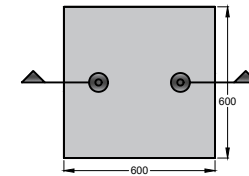
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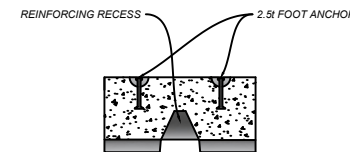
SIDE ELEVATIONS

600 CAPPER

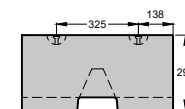
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• Height	297 mm
• Depth	600 mm
• Face Area	0.18 m ²
• Volume (±)	0.096 m ³
• Weight (±)	220 kg



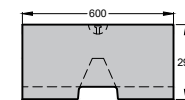
PLAN



CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

GENERAL NOTES:

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The user assumes full responsibility for verifying the accuracy and proper application of the details provided in this document.

Density Standards for Weight and Volume Calculations:

Concrete densities typically range from 2200 to 2500 kg/m³ in accordance with standard construction practices. It is important to note that variations in dimensions of 1 to 3 mm may result in different volume calculations, which can subsequently affect the estimated weight. These values are provided as estimates, as actual weights may vary based on the specific concrete mix used, any additives, and adherence to relevant Australia standards and policies.

Concrete Type:

Interbloc is primarily manufactured using high quality, certified, excess concrete. 100% of blocks are 20MPa or greater, and 50% of blocks are 30MPa or greater. Concrete is tracked from source and each block carries a unique barcode for tracking. You can find out more information about this in our articles on excess concrete, and quality.

Foot Anchor:

2.5t x 120mm SwiftLift™ Foot Anchor
1.3t x 120mm SwiftLift™ Foot Anchor
Compliance: AS 3850.1:2015 (+A1:2019)
System: Fully engineered with cast-in lifting anchors, recess formers, and lifting clutches
Working Load Limit (WLL): 2.5 or 1.3 tons
Factor of Safety (FoS): 4 for high tensile steel.

TITLE: INTERBLOC® Product Specification and Reference Sheet

• Drawn by	Sam Salari
• Checked by	
• Approved by	
• Scale @ A3	1:300
• Date	11/11/2024
• Sheet	IB-01

ENVIROCON
CAPTURING CONCRETE EXCESS
ENVIROBUILD INTERBLOC

www.envirocon.net.au
www.envirobuild.pro
Address: Ground Floor, Pacific Tower, 737
Burwood Road, Hawthorn, Victoria, 3122
Phone: 1800 834486

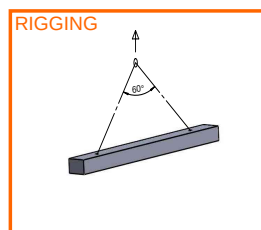
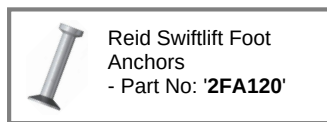
**APPROVED FOR**

☒ LIFTING ☐ BRACING

- Refer to Reid Certification letter for the specified lifting anchors, bracing Inserts and bracing types, handling and rigging arrangement.

Certification is invalid if specified hardware and systems are substituted.

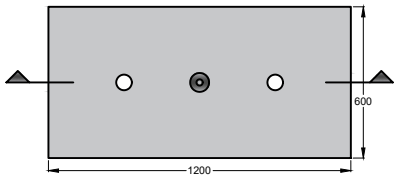
ENGINEER: M.A. 10/02/2025 REQ-1895



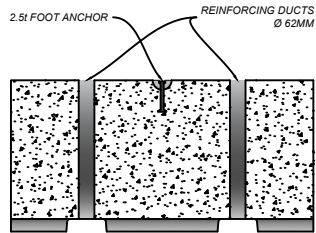
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1200 FLAT TOP BLOCK

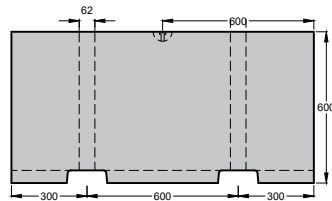
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• Height	600 mm
• Depth	600 mm
• Face Area	0.72 m ²
• Volume (±)	0.413 m ³
• Weight (±)	1.00 TN



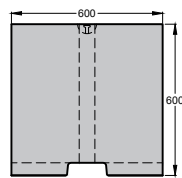
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CROSS SECTION



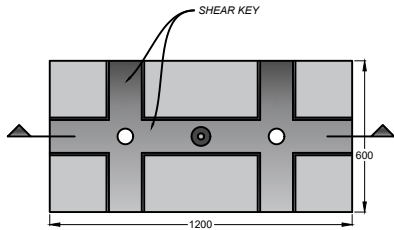
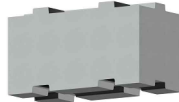
FRONT ELEVATION



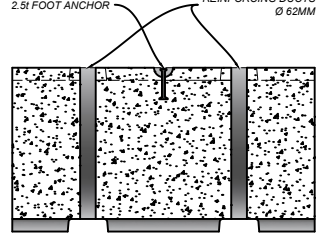
SIDE ELEVATIONS

1200 STANDARD BLOCK

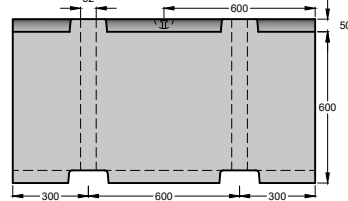
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• Height	600 mm
• Depth	600 mm
• Face Area	0.72 m ²
• Volume (±)	0.428m ³
• Weight (±)	1.00 TN



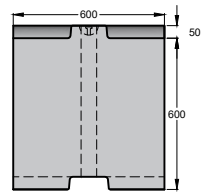
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CROSS SECTION



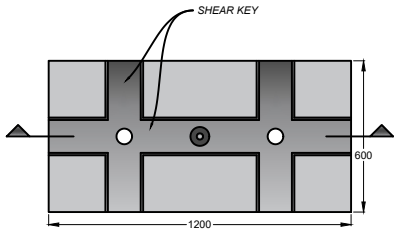
FRONT ELEVATION



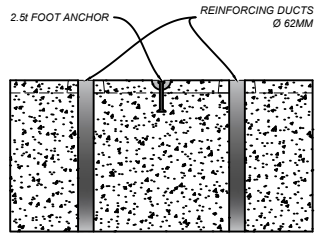
SIDE ELEVATIONS

1200 FLAT BOTTOM BLOCK

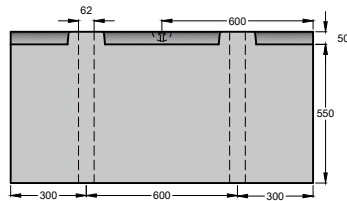
DESCRIPTION	METRIC
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• Height	600 mm
• Depth	600 mm
• Face Area	0.72 m ²
• Volume (±)	0.443 m ³
• Weight (±)	1.00 TN



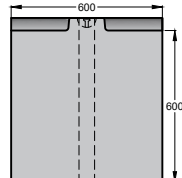
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CROSS SECTION



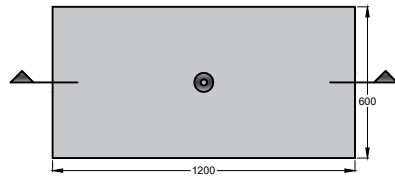
FRONT ELEVATION



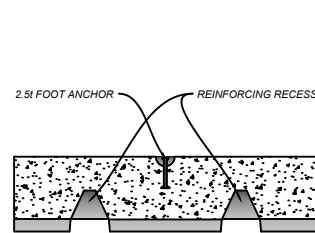
SIDE ELEVATIONS

1200 CAPPER

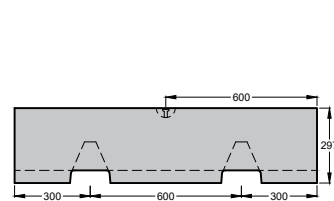
DESCRIPTION	METRIC
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• Height	297 mm
• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.192 m ³
• Weight (±)	440 kg



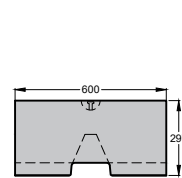
PLAN



CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

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Density Standards for Weight and Volume Calculations:

Concrete densities typically range from 2200 to 2500 kg/m³ in accordance with standard construction practices. It is important to note that variations in dimensions of 1 to 3 mm may result in different volume calculations, which can subsequently affect the estimated weight. These values are provided as estimates, as actual weights may vary based on the specific concrete mix used, any additives, and adherence to relevant Australia standards and policies.

Concrete Type:

Interbloc is primarily manufactured using high quality, certified, excess concrete. 100% of blocks are 20MPa or greater, and 50% of blocks are 30MPa or greater. Concrete is tracked from source and each block carries a unique barcode for tracking. You can find out more information about this in our articles on excess concrete, and quality.

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1.3t x 120mm SwiftLift™ Foot Anchor
Compliance: AS 3850.1:2015 (+A1:2019)
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Working Load Limit (WLL): 2.5 or 1.3 tons
Factor of Safety (FoS): 4 for high tensile steel.

TITLE:
INTERBLOC® Product Specification and Reference Sheet

• Drawn by	Sam Salari
• Checked by	
• Approved by	
• Scale @ A3	1:300
• Date	11/11/2024
• Sheet	IB-02

ENVIROCON
CAPTURING CONCRETE EXCESS
ENVIROBUILD INTERBLOC

www.envirocon.net.au
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Address: Ground Floor, Pacific Tower, 737
Burwood Road, Hawthorn, Victoria, 3122
Phone: 1800 834486

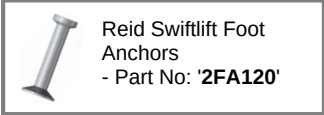
**APPROVED FOR**

☒ **LIFTING** ☐ **BRACING**

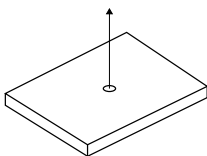
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ENGINEER: M.A. 10/02/2025 REQ-1895



Placement

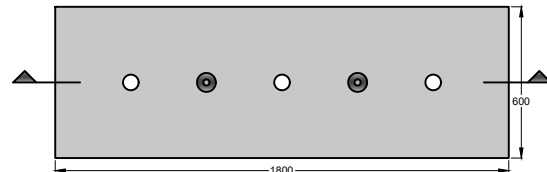


Rigging and anchor size apply to all type in this page. Handle with care as block have only one anchors and may getting unbalanced during lifting

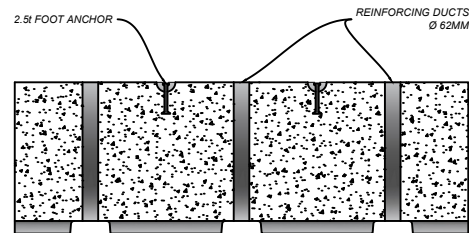
1800 FLAT TOP BLOCK

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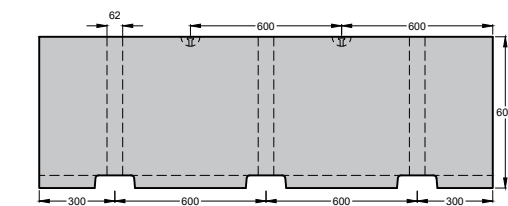
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- Height 600 mm
- Depth 600 mm
- Face Area 1.08 m²
- Volume (±) 0.620 m³
- Weight (±) 1.50 TN



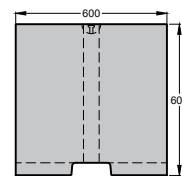
PLAN



CROSS SECTION



FRONT ELEVATION

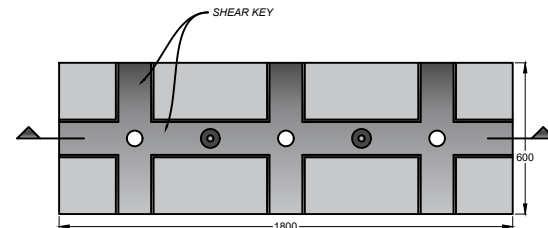


SIDE ELEVATIONS

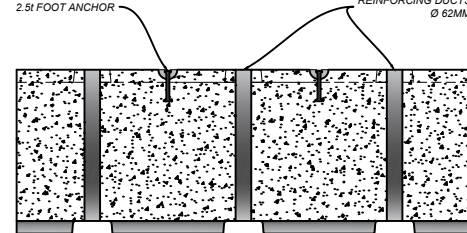
1800 STANDARD BLOCK

DESCRIPTION METRIC

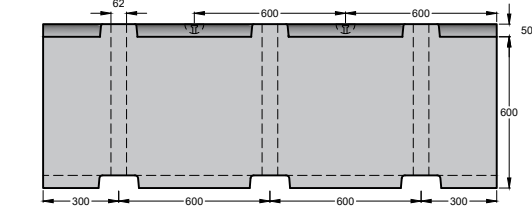
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- Depth 600 mm
- Face Area 1.08 m²
- Volume (±) 0.642 m³
- Weight (±) 1.50 TN



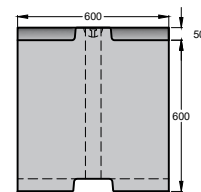
PLAN



CROSS SECTION



FRONT ELEVATION

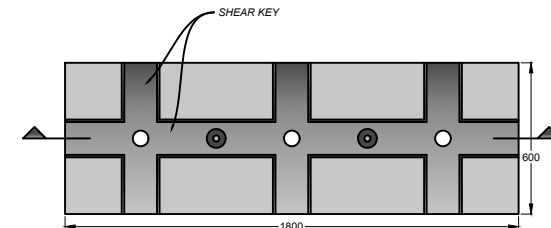


SIDE ELEVATIONS

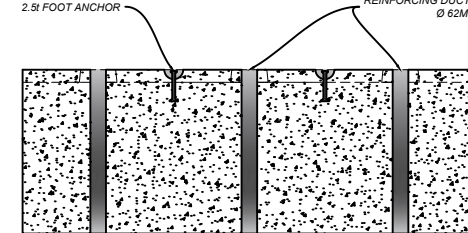
1800 FLAT BOTTOM BLOCK

DESCRIPTION METRIC

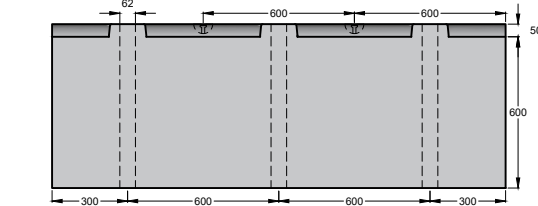
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- Height 600 mm
- Depth 600 mm
- Face Area 1.08 m²
- Volume (±) 0.665 m³
- Weight (±) 1.50 TN



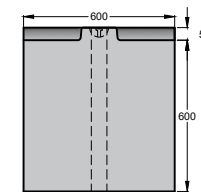
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CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

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1.3t x 120mm SwiftLift™ Foot Anchor
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Working Load Limit (WLL): 2.5 or 1.3 tons
Factor of Safety (FoS): 4 for high tensile steel.

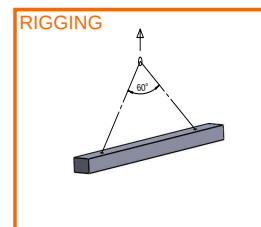
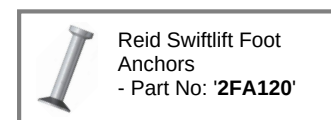
TITLE: INTERBLOC® Product Specification and Reference Sheet

- Drawn by Sam Salari
- Checked by
- Approved by
- Scale @ A3 1:300
- Date 11/11/2024
- Sheet IB-03

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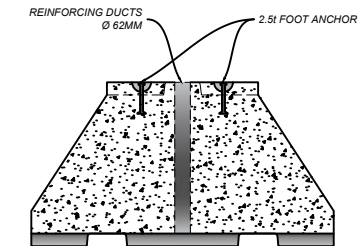
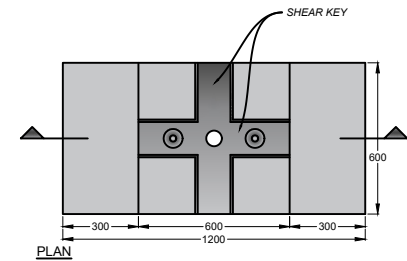
reid APPROVED FOR
☒ LIFTING ☐ BRACING
- Refer to Reid Certification letter for the specified lifting anchors, bracing Inserts and bracing types, handling and rigging arrangement.
Certification is invalid if specified hardware and systems are substituted.
ENGINEER: M.A. 10/02/2025 REQ-1895



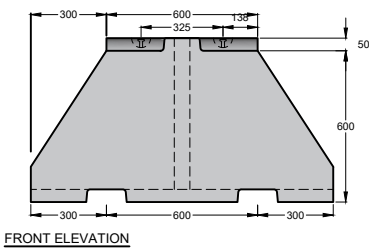
Rigging and anchor size apply to all type in this page.

1200 BASE BLOCK

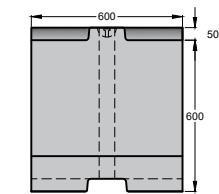
DESCRIPTION	METRIC
• Width	1200 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.58 m ²
• Volume (±)	0.339 m ³
• Weight (±)	780 kg



CROSS SECTION



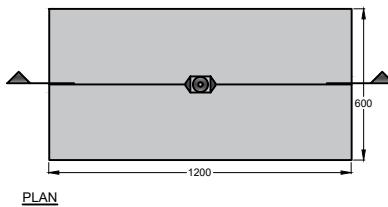
FRONT ELEVATION



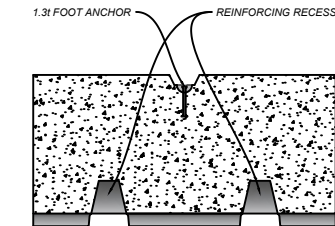
SIDE ELEVATIONS

1200 TOP BLOCK

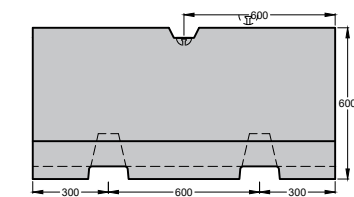
DESCRIPTION	METRIC
• Width	1200 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.72 m ²
• Volume (±)	0.254 m ³
• Weight (±)	585 kg



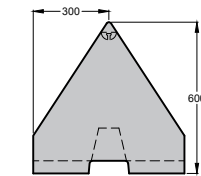
PLAN



CROSS SECTION



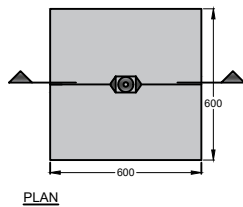
FRONT ELEVATION



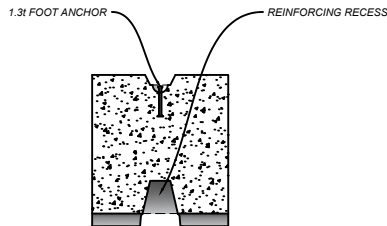
SIDE ELEVATIONS

600 TOP BLOCKS

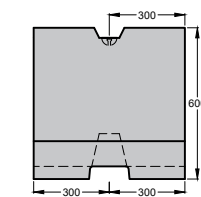
DESCRIPTION	METRIC
• Width	1200 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.127 m ³
• Weight (±)	290 kg



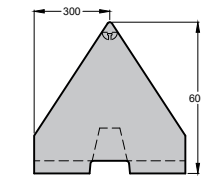
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CROSS SECTION



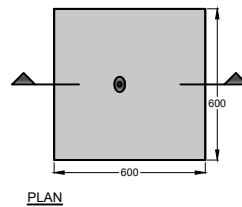
FRONT ELEVATION



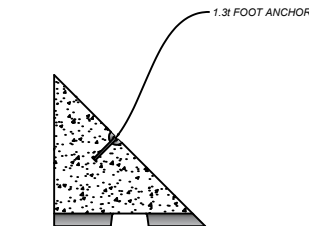
SIDE ELEVATIONS

600 TAPER BLOCK

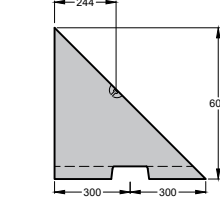
DESCRIPTION	METRIC
• Width	1200 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.18 m ²
• Volume (±)	0.100 m ³
• Weight (±)	230 kg



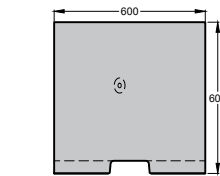
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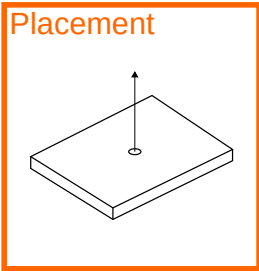
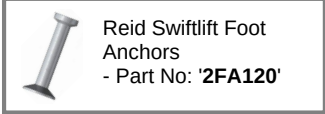
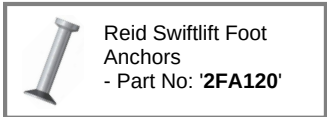
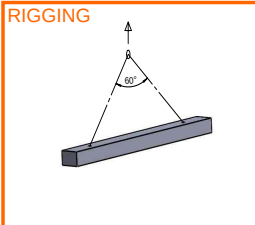
CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS



Stripping @ 25MPa Min.

Rigging and anchor size apply to three type blocks in this page (Three right drawings).

reid APPROVED FOR

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ENGINEER: M.A. 10/02/2025 REQ-1895

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- Drawn by Sam Salari
- Checked by
- Approved by
- Scale @ A3 1:300
- Date 11/11/2024
- Sheet IB-04

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600 FLAT TOP RECESS BLOCK

DESCRIPTION	METRIC
• Width	600 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.205 m ³
• Weight (±)	470 kg



600 CAPPER RECESS BLOCK

DESCRIPTION	METRIC
• Width	600 mm
• Height	297 mm
• Depth	600 mm
• Face Area	0.18 m ²
• Volume (±)	0.097 m ³
• Weight (±)	225 kg



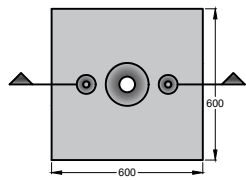
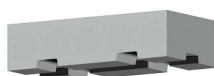
1200 FLAT TOP RECESS BLOCK

DESCRIPTION	METRIC
• Width	1200 mm
• Height	600 mm
• Depth	600 mm
• Face Area	0.72 m ²
• Volume (±)	410 m ³
• Weight (±)	0.94 TN

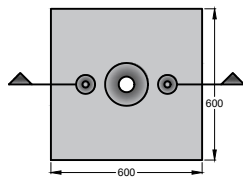


1200 CAPPER RECESS BLOCK

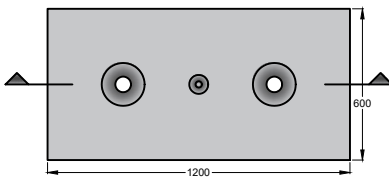
DESCRIPTION	METRIC
• Width	1200 mm
• Height	297 mm
• Depth	600 mm
• Face Area	0.36 m ²
• Volume (±)	0.192 m ³
• Weight (±)	440 kg



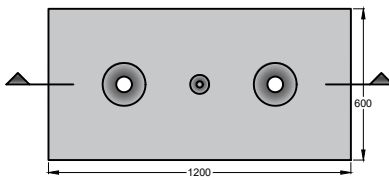
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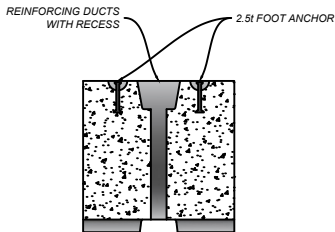
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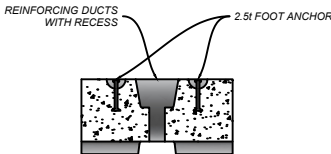
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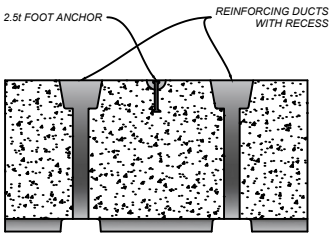
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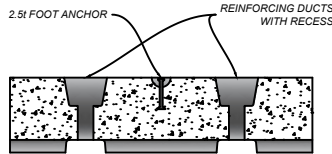
CROSS SECTION



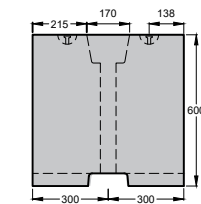
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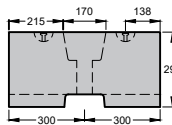
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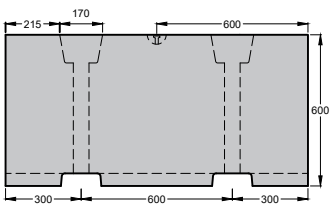
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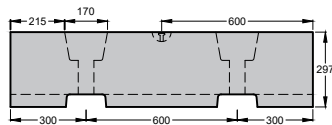
FRONT ELEVATION



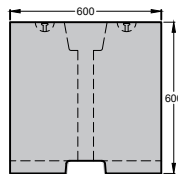
FRONT ELEVATION



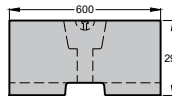
FRONT ELEVATION



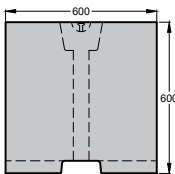
FRONT ELEVATION



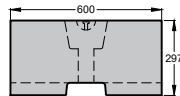
SIDE ELEVATIONS



SIDE ELEVATIONS



SIDE ELEVATIONS

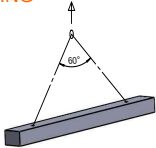


SIDE ELEVATIONS



Reid Swiftlift Foot
Anchors
- Part No: '2FA120'

RIGGING



Rigging and anchor size apply
to two type blocks in this page
(Two left drawings.)

reid **APPROVED FOR**

☒ **LIFTING** ☐ **BRACING**

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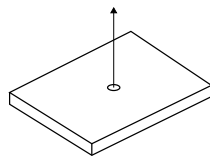
Certification Is Invalid If specified hardware and systems are substituted.

ENGINEER: M.A. 10/02/2025 REQ-1895



Reid Swiftlift Foot
Anchors
- Part No: '2FA120'

Placement



Rigging and anchor size apply
to two type blocks in this page
(Two right drawings.)

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- Drawn by Sam Salari
- Checked by
- Approved by
- Scale @ A3 1:300
- Date 11/11/2024
- Sheet IB-05

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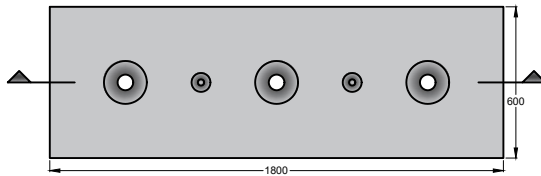
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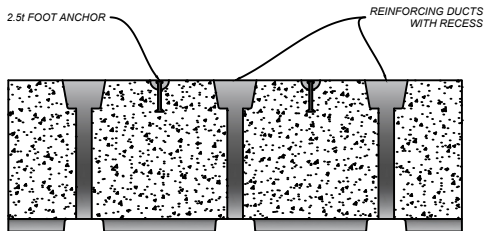
1800 FLAT TOP RECESS BLOCK

DESCRIPTION METRIC

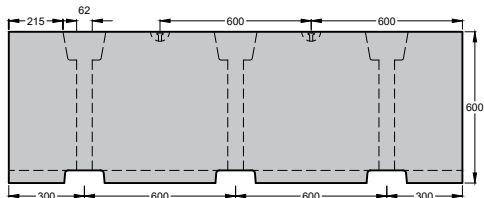
- Width 1800 mm
- Height 600 mm
- Depth 600 mm
- Face Area 1.08 m²
- Volume (±) 0.615 m³
- Weight (±) 1.415 TN



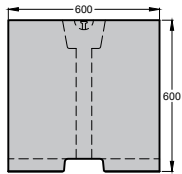
PLAN



CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

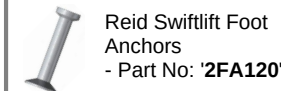
**APPROVED FOR**

☒ **LIFTING** ☐ **BRACING**

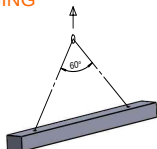
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RIGGING



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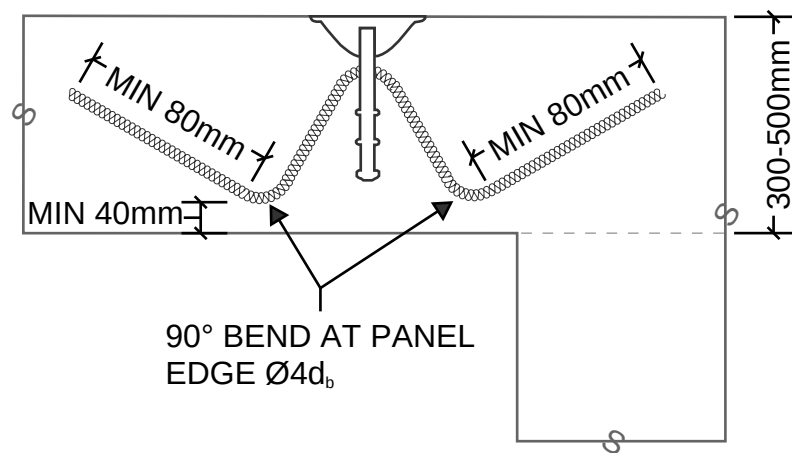
- Drawn by Sam Salari
- Checked by
- Approved by
- Scale @ A3 1:300
- Date 11/11/2024
- Sheet IB-06

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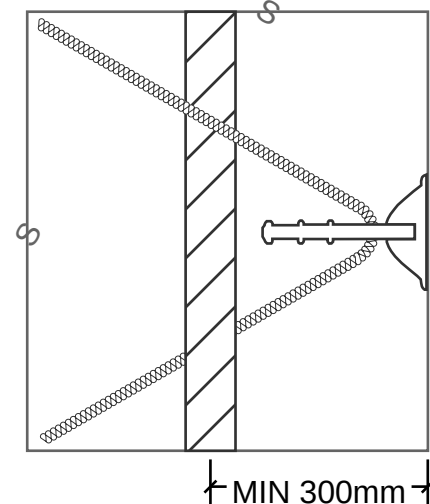
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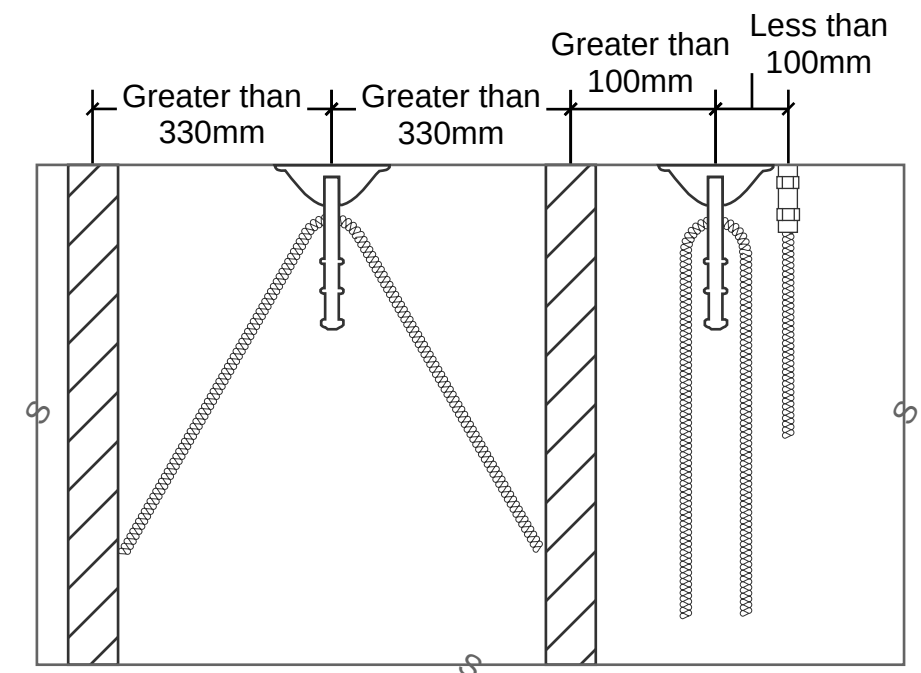
Bend Tension Bar Around Opening

- MIN cover below bar - 40mm
- All bends to comply with AS3600



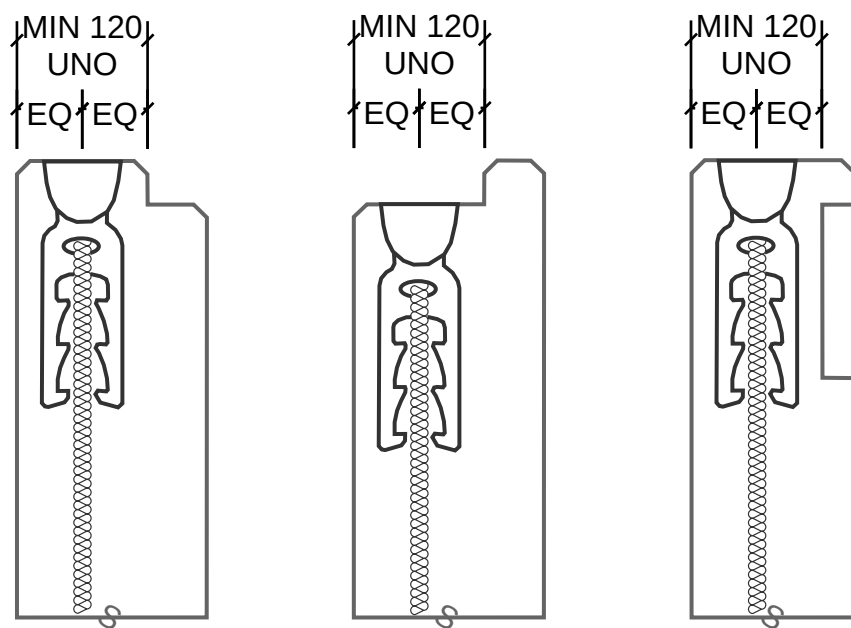
Tension Bar Close to Vertical Grout Tube

Bend tension bar above and below grout tube



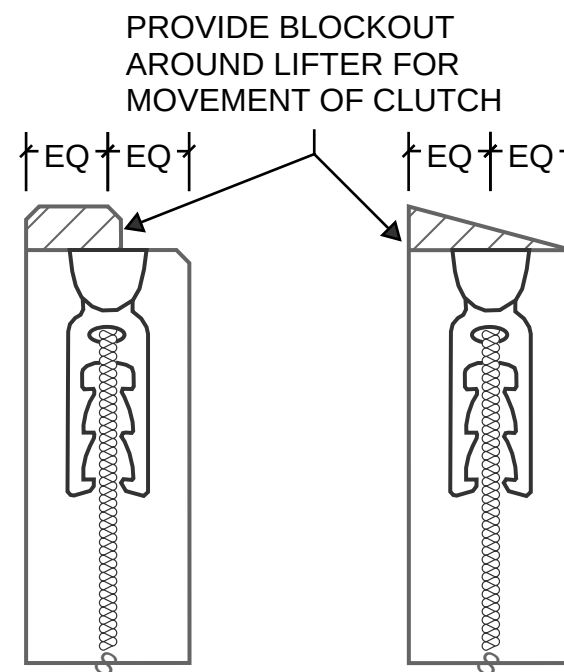
Edge Lifter Close to Grout Tube

- If grout tube is closer than 330mm, bend tension bar into U shape - DO NOT CUT.
- If grout tube is closer than 100mm, replace adjacent grout tube with coupler.



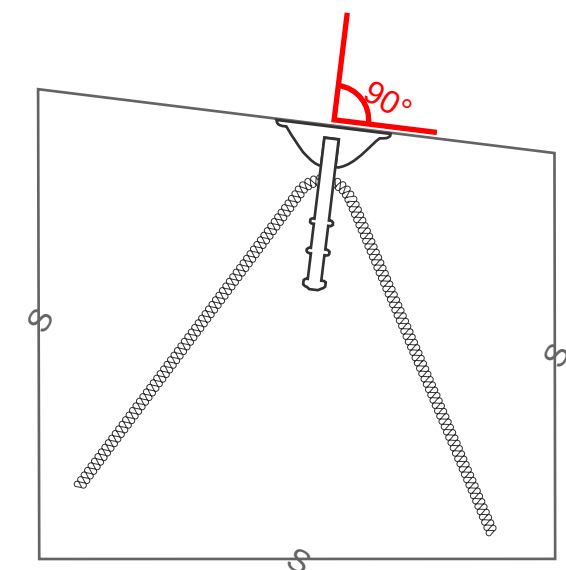
Edge Lifter in Stepped Edge or Recess

Install anchors central to remainder of panel cross section TYP



Edge Lifter in Edge Detail

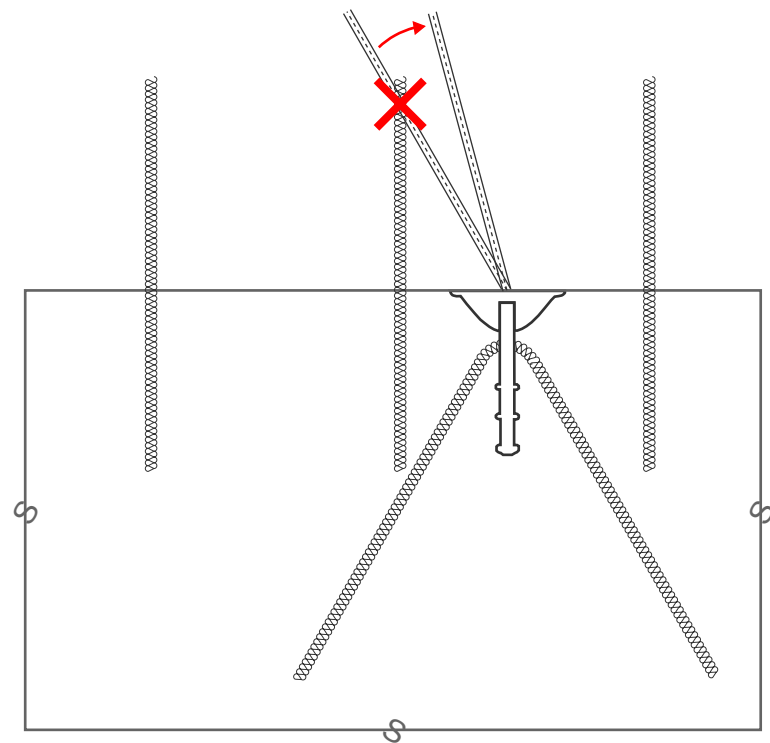
- Create recess pocket around edge lifter void to allow for clutch movement. Risk of spalling concrete.
- Anchor to be installed central in panel cross section TYP.



Edge Lifter on Sloped Surface

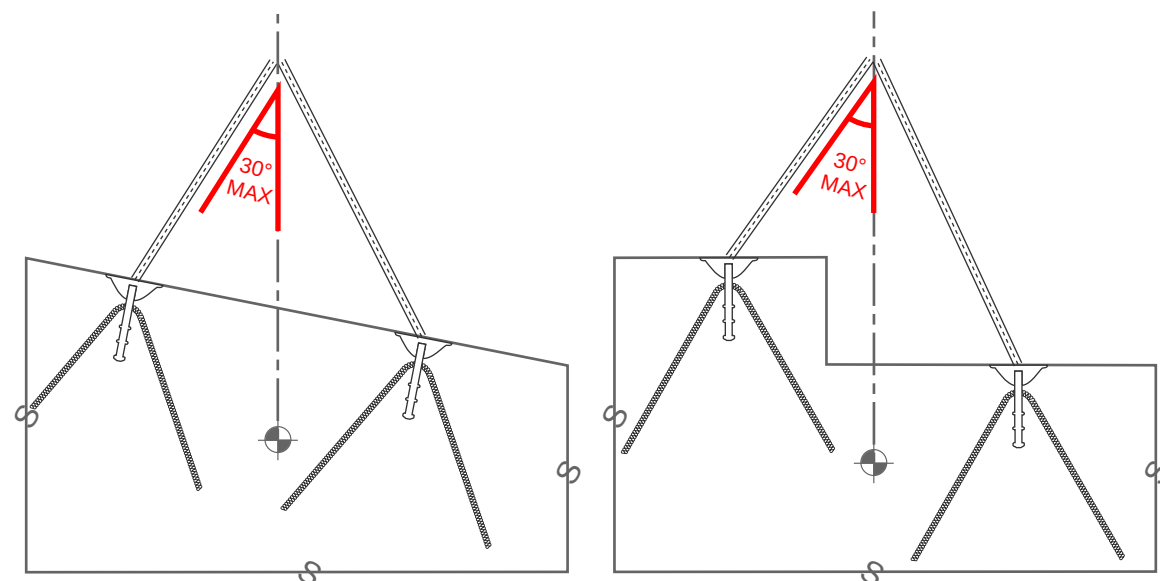
Anchor to be installed normal to sloped surface

REVISION	CHANGE DESCRIPTION		1 Ramset Drive, Chirnside Park, VIC 3116 Tel: (03) 9727 7722 email: design@reid.com.au Website: www.reid.com.au	DESCRIPTION: Standard edge lifter details	APPROVED: MA	DRAWING NUMBER: RR-SLD-0001	DATE: 07/06/2021
C	Cast-in plate detailing added.				CHECKED: MA		SCALE: N.T.S
D	Adjust slings for sloped edge detailing added.				DRAWN: CF, MA, SM		REV: F
E	Minor changes to commentary.						
F	Tension bar details updated. Working file created.						



Slings May Clash with Starter Bars

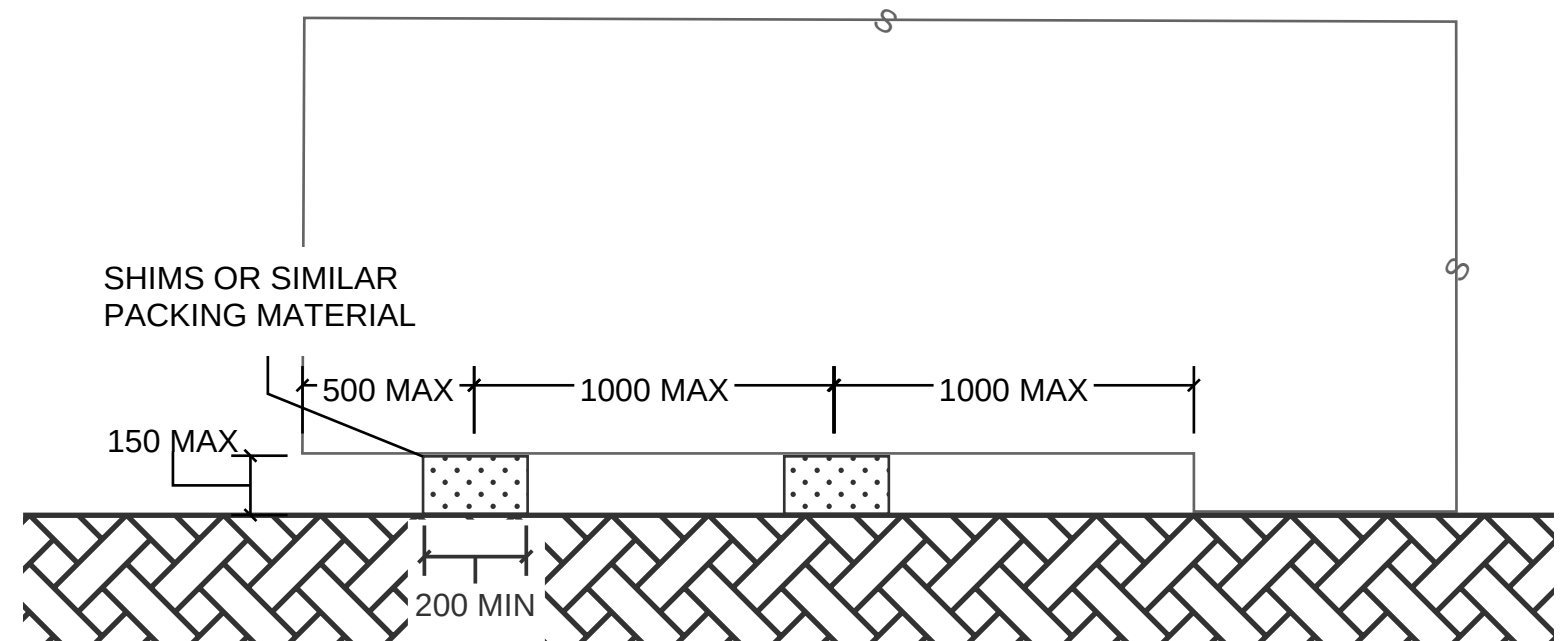
Ensure slings do not clash with protruding bars. Risk of spalling concrete. Decrease sling angle or use lifting beam.



Adjust Slings for Sloped Edge or Step Down

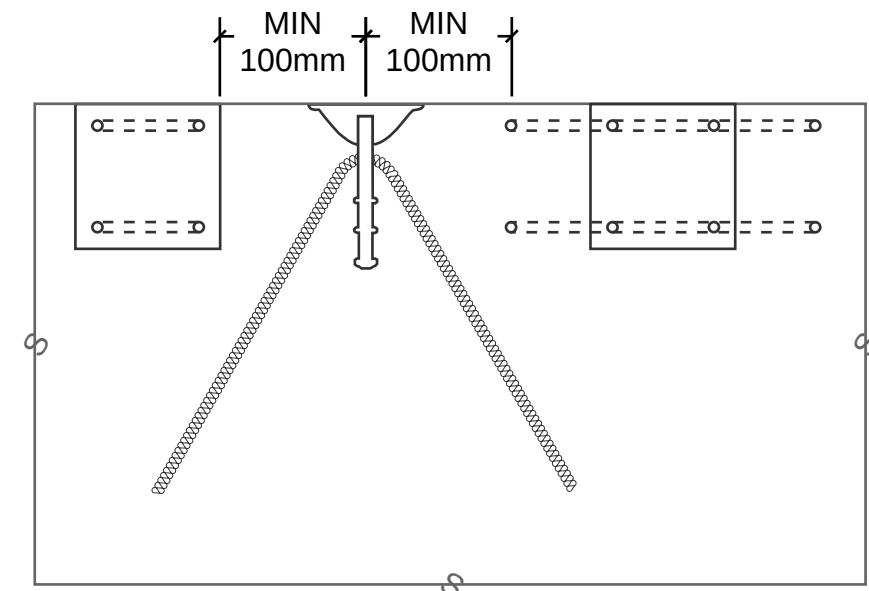
Rigging Procedure:

1. Position hook directly over panel CoG.
2. Take up slack in chains; ensure both chains are in tension.
3. Verify that clutches are correctly engaged.
4. Panel base must remain grounded until vertical.



Packing Gaps

Provide shims or pack gaps with a minimum width of 200mm for de-mould, storage, & transportation stages



Edge Lifter in Close Proximity to Cast-In Plate

Ensure lifters are at least 100mm away from cast-in plates and supplementary reinforcement. Do not cut reinforcement.

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C	Cast-in plate detailing added.				CHECKED: MA		SCALE: N.T.S
D	Adjust slings for sloped edge detailing added.				DRAWN: CF, MA, SM		REV: F
E	Minor changes to commentary.						
F	Tension bar details updated. Working file created.						