Concrete strength at first lift to be min. 20 MPa.
EPOXY 25MM ROD INSTALLATION INTO EXISTING CONCRETE FOOTING.
Precast Concrete Australia

18 Sandmere Road

PINKENBA, QLD, 4009

Attention: Mr Manny Sanabria

21048 T C002

26 February 2018

WL / TK

Brisbane Office

Manny

RE: Concrete Lego Blocks Lifting Certificate

Project: Concrete Lego Blocks Lifting Certificate

Customer Drg. No’s: SK002, SK003 & SK004

(3 panel in total)

REF: Package 2

As requested, please refer to the following pages for details on lifting point locations for the above mentioned panel(s), which comply with Australian Standards: AS3850, AS3600, AS1170, and the National Code of Practice for “Precast, Tilt-up and Concrete Elements in Building Construction”

General Notes:

- It is the responsibility of the contractor to ensure that the specified cast-in inserts are positioned correctly.

- The panel dimensions were adopted from the supplied drawings, if the dimensions of the constructed panels are different then the design will be invalid.

- ANY KIND OF WELDING TO THE LIFTING ANCHORS IS STRICTLY PROHIBITED.

- Weight of the panels as per the attached certified drawings.

- Note any comments made on the drawings in regards to the placement of lifters, stripping lifters, strongbacks, bracing inserts and braces as well as general panel handling. Any comments and amendments must be addressed prior to panel manufacturing.
**Applied Load Factors in accordance with AS3850-2015**

- 1.2 when calculating insert loads and panel bending moments at the point of panel lift-off from a steel casting bed.
- 1.2 when calculating insert loads and panel bending moments when lifted with an overhead gantry crane, tower crane or stationary crane on outriggers.
- 1.7 when calculating travelling with a with a suspended load on a prepared even surface with tracked mobile lifting equipment
- 2.0 when calculating travelling with a with a suspended load on a prepared even surface with non-tracked mobile lifting equipment
- 1.4 when calculating stresses during transportation.

**Lifting Anchors and Rigging Arrangement**

- Unless noted otherwise, min. concrete strength to be 15MPa in yard and 25MPa on-site at placement.
- Use Reid, Reid Part No: ‘#2FA120’ (2.5t WLL) SwiftLift Foot Anchor.
- Install location of Foot anchors may be adjusted ±100mm to avoid clash with other fittings and fixings.
- Anchors, shear and tension bars installed as per Reid Safe Lifting for Precast/Tilt-Up Concrete Panels & Elements.

Should you have any queries regarding the above, please do not hesitate in contacting me at any time.

The designs are based on the panel geometry and hardware as detailed. Certification for lifting will be invalid should changes be made without our written approval. If changes are made without authority from ADG, ADG will accept no liability in the event of an incident. ADG engineering services charges will apply if no nominated products (lifting and bracings) noted in this certificate are used for this project. Any redesign work will incur a charge.

Yours sincerely

ADG ENGINEERS (AUST) PTY LTD

Tomas Krenek CPEng RPEQ 13825
Senior Construction Services Engineer
Precast Concrete Australia
18 Sandmere Road
PINKENBA, QLD, 4009

Attention: Mr Manny Sanabria

21048 T C001

WL / TK
Brisbane Office

Manny

RE: Concrete Lego Blocks Lifting Certificate
Project: Concrete Lego Blocks Lifting Certificate
Customer Drg. No’s: SK001
(1 panel in total)
REF: Package 1

As requested, please refer to the following pages for details on lifting point locations for the above mentioned panel(s), which comply with Australian Standards: AS3850, AS3600, AS1170, and the National Code of Practice for “Precast, Tilt-up and Concrete Elements in Building Construction”

General Notes:

› It is the responsibility of the contractor to ensure that the specified cast-in inserts are positioned correctly.

› The panel dimensions were adopted from the supplied drawings, if the dimensions of the constructed panels are different then the design will be invalid.

› ANY KIND OF WELDING TO THE LIFTING ANCHORS IS STRICTLY PROHIBITED.

› Weight of the panels as per the attached certified drawings.

› Note any comments made on the drawings in regards to the placement of lifters, stripping lifters, strongbacks, bracing inserts and braces as well as general panel handling. Any comments and amendments must be addressed prior to panel manufacturing.
1.2 when calculating insert loads and panel bending moments at the point of panel lift-off from a steel casting bed.

1.2 when calculating insert loads and panel bending moments when lifted with an overhead gantry crane, tower crane or stationary crane on outriggers.

1.7 when calculating travelling with a with a suspended load on a prepared even surface with tracked mobile lifting equipment

2.0 when calculating travelling with a with a suspended load on a prepared even surface with non-tracked mobile lifting equipment

1.4 when calculating stresses during transportation.

**Lifting Anchors and Rigging Arrangement**

- Unless noted otherwise, min. concrete strength to be 15MPa in yard and 25MPa on-site at placement.

- Use **Reid**, Reid Part No: ‘#2FA120’ (2.5t WLL) SwiftLift Foot Anchor.

- Install location of Foot anchors may be adjusted ±100mm to avoid clash with other fittings and fixings.

- Anchors, shear and tension bars installed as per Reid Safe Lifting for Precast/Tilt-Up Concrete Panels & Elements.

Should you have any queries regarding the above, please do not hesitate in contacting me at any time.

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Yours sincerely

**ADG ENGINEERS (AUST) PTY LTD**

**Tomas Krenek** CPEng RPEQ 13825

**Senior Construction Services Engineer**
Panel geometry shown has been used for lifting purposes only and may differ slightly to that of the workshop drawings. Refer to panel workshop drawings for fabrication details.

ADG Engineers (Aust) Pty Ltd accepts no liability or loss for any panels manufactured to incorrect geometry and tolerances.

Lift strength $f'c = 15\text{MPa}$ min.

Reid SwiftLift Foot Anchor 2.5t (WLL) Product #2FA120

PRECAST BLOCKS
Panel geometry shown has been used for lifting purposes only and may differ slightly to that of the workshop drawings. Refer to panel workshop drawings for fabrication details.

ADG Engineers (Aust) Pty Ltd accepts no liability or loss for any panels manufactured to incorrect geometry and tolerances.
Panel Geometry Shown has been used for lifting purposes only and may differ slightly to that of the Workshop Drawings. Refer to Panel Workshop Drawings for fabrication details.

ADG Engineers (Aust) Pty Ltd accepts no liability or loss for any panels manufactured to incorrect geometry and tolerances.
PANEL GEOMETRY SHOWN HAS BEEN USED FOR LIFTING PURPOSES ONLY AND MAY DIFFER SLIGHTLY TO THAT OF THE WORKSHOP DRAWINGS. REFER TO PANEL WORKSHOP DRAWINGS FOR FABRICATION DETAILS.

ADG ENGINEERS (AUST) PTY LTD ACCEPTS NO LIABILITY OR LOSS FOR ANY PANELS MANUFACTURED TO INCORRECT GEOMETRY AND TOLERANCES.