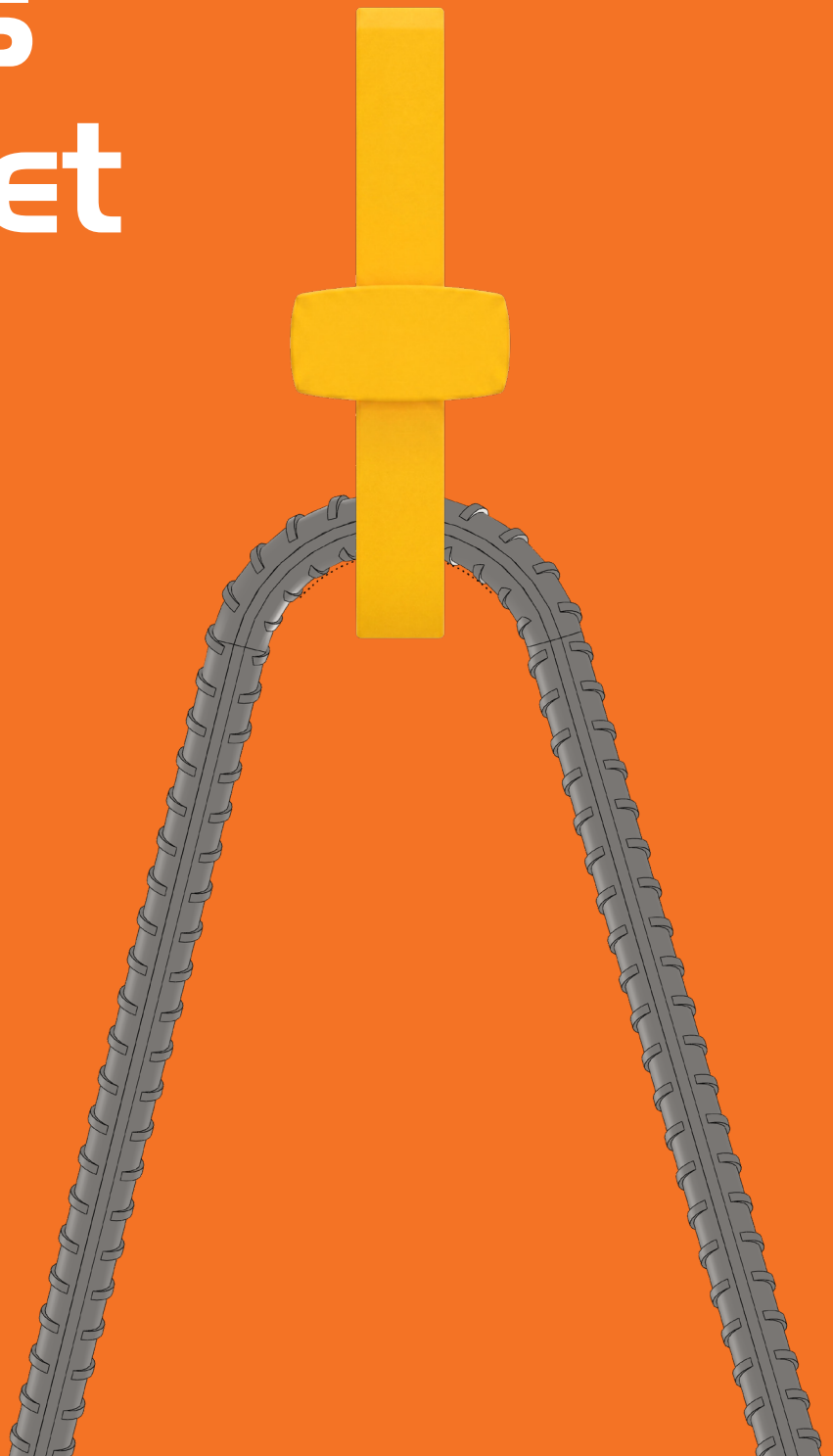


Edge Lift Anchors with Feet

Compliance Document

Reid™ Edge Lift
Anchors with Feet
comply with
NZ Good Practice
Guidelines: safe
work with precast
concrete 2018



Reid™ Edge Lift Anchors with Feet

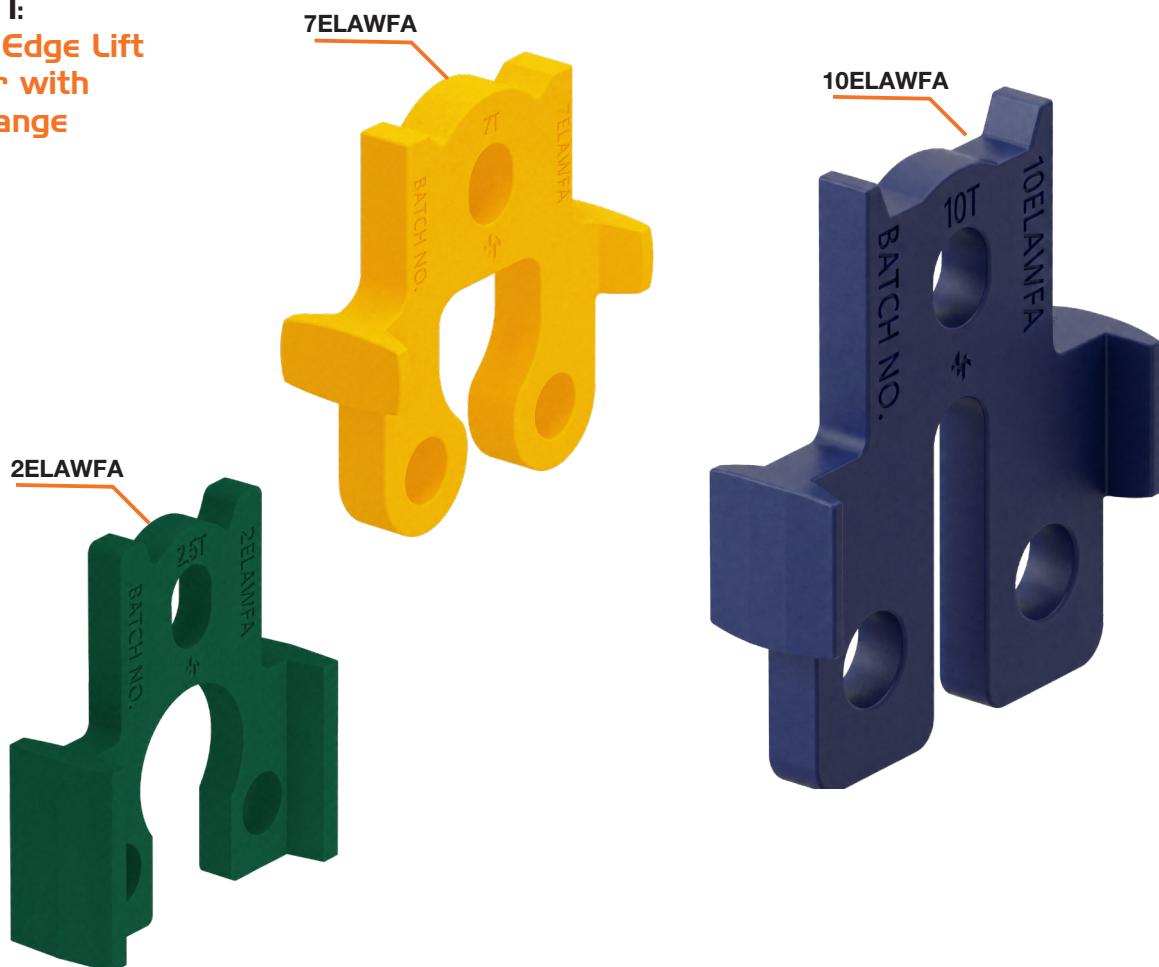


The Reid™ ELAWFA range of edge lifting anchors features a built-in shear foot which eliminates the requirement for separate shear reinforcement. The AnchorShield™ finish prevents galvanic reaction in concrete.

Specifically designed for edge lifting, these anchors are suitable for thin panels and low strength concrete lifts. The design incorporates a large slot enabling the use of one or two trimmer bars, minimising clashing with reinforcement during set-up. **This product meets the building code requirements for durability B2 Durability, B2.3.1**



Figure 1:
Reid™ Edge Lift
Anchor with
Feet range



Features and Compliance



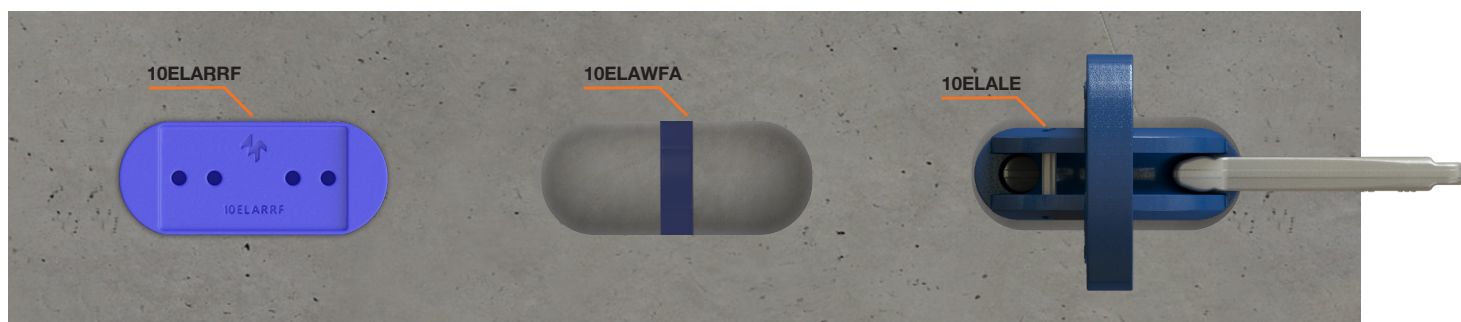
Edge Lift Anchor Features

- Designed for thin panels and low strength concrete lifts.
- Large slot for one or two trimmer bars, assisting the precaster during set up (2.5 & 7t only).
- Concealed anchorage so that the face of the panel has no patching or tilt covers.
- Special feet forged onto the side of the anchor removes the requirement of installing shear bars.
- Anchors manufactured from forged high strength steel for added strength and manufacturing accuracy.
- Hot dipped galvanised for corrosion protection, beneficial in thin panels where concrete cover is minimal. AnchorShield™ for protection against galvanic corrosion
- Epoxy coated to mitigate galvanic reactions in precast panel production, which can lead to poor quality finishes. Colour-coded for easy visual QA checks.
- Used in conjunction with Reid™ Edge Lifting Clutches and Recess Formers



Edge Lift Anchor Compliance

- Every individual item of lifting equipment should be clearly marked with its working load limit (WLL), the manufacturer's identifier, and a unique numbering system
- Lifting anchors that are used for lifting and handling during all stages of manufacture, delivery and installation should be designed to a minimum factor of 3.0.
- As with lifting clutches, lifting anchors should be manufactured and tested in accordance with a valid international standard or technical reference.
- Development, production, testing, inspection and application of lifting anchors and lifting anchor systems should meet acceptably high and consistent standards to ensure that they are fit for purpose.



NZ GPG 2018 Compliant



Table I: NZ GPG 2018 Compliance Details

Clause	Requirement	Compliant
6.6	The minimum FOS for general lifting needs to be 3.0 and for repetitive lifting needs to be 5.0.	✓
6.6	The design of the Lifting anchor shall include the ductile behavior and robustness of the anchor.	✓
10.11	Lifting clutches are to be made in accordance with a valid international standard or technical reference.	✓
10.11	Every item of lifting equipment should be clearly and permanently marked with its WLL. A unique numbering system to clearly identify individual items should be used.	✓
10.11	Lifting clutches are to be tested for loads in all directions and initially tested by the supplier to a factor of safety of 2.0	✓
10.11	Inspected at least every 12 months by a competent person, and a record kept of those inspections.	✓

Description and Markings

The Reid™ Edge Lift Anchor with Feet is a forged steel anchor for use with Reid™ Edge Lift clutches (ELALE) and designed for edge lifting precast concrete panels.

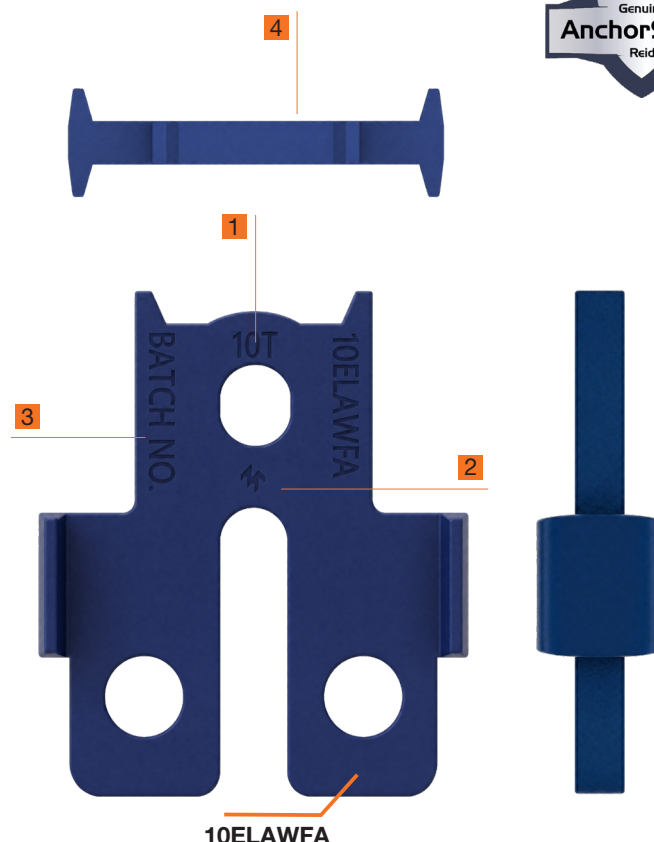
The edge lift anchors require hanger bars for tension loads. Use with Reid™ ELARRF series recess formers. Designed for thin panels, the ELAWFA anchors have integrated shear feet, a slot for a perimeter bar and are hot-dip galvanised to AS/NZS 4680 for corrosion resistance with additional AnchorShield™ coating to prevent galvanic corrosion in precast panels.

Part Number & Pack Quantities

Part No.	Capacity	Length (mm)	Pack Qty
2ELAWFA	2.5 tonne	100mm	25
7ELAWFA	7 tonne	114mm	10
10ELAWFA	10 tonne	161mm	5



Reid™ Edge Lift Anchor with Feet Markings



Reid™ Edge Lift Anchor with Feet

Product Specifications (mm)

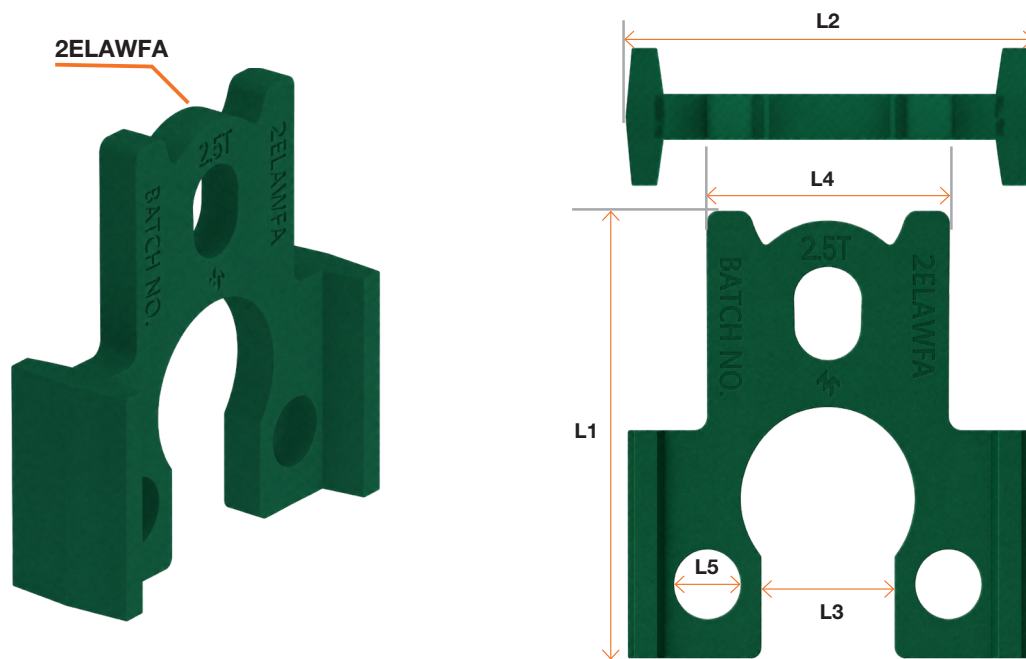


Table 2: ELAWFA Edge Lift Anchors with Feet - Product Dimensions

Load Group (t)	Nominal Dimensions (mm)				
	L1	L2	L3	L4	L5
2.5 	98	90	30	54	15
7.0 	114	110	20	72	15
10.0 	161	140	22	78	24

Note: Reid™ reserves the right to change the above specifications.

Reid™ Edge Lift Anchor with Feet

Product Specifications (mm)

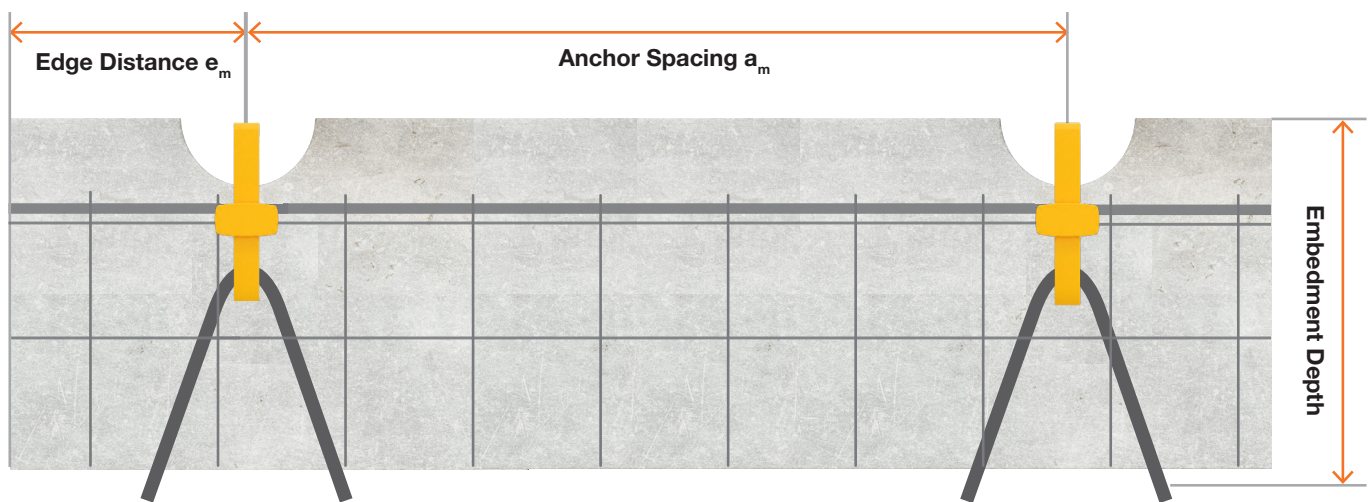


Table 3:
Minimum edge and spacing distances required to achieve performances in Table 4.

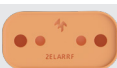
Minimum Edge and Spacing Limits				
Anchor Part Number		Minimum Edge Distance e_m (mm)	Minimum Anchor Spacing a_m (mm)	Embedment Depth (mm)
2ELAWFA		300	700	**
7ELAWFA		420	840	**
10ELAWFA		450	900	**

Embedment depth is the effective depth of the whole system (recess former, edge lift anchor and the tension bars).

Note: Reid™ reserves the right to change the above specifications.

The ELAWFA System

2.5 Tonne Edge Lift Anchor with Feet System:

Part	Part No.	NZ GPG 2018 Compliant
Anchor	 2ELAWFA	
Lifting Clutch	 2ELALE	
Void Former	 2ELARRF	

7 Tonne Edge Lift Anchor with Feet System:

Part	Part No.	NZ GPG 2018 Compliant
Anchor	 7ELAWFA	
Lifting Clutch	 7ELALE	
	 3DX7NLC	
Void Former	 7ELARRF	

10 Tonne Edge Lift Anchor with Feet System:

Part	Part No.	NZ GPG 2018 Compliant
Anchor	 10ELAWFA	
Lifting Clutch	 10ELALE	
Void Former	 10ELARRF	

note: Required supplementary reinforcement not shown. Refer table 4 for further information.

Figure 2:
2ELAWFA
Clutch, Anchor
& Void Former



Figure 3:
7ELAWFA
Clutch, Anchor
& Void Former

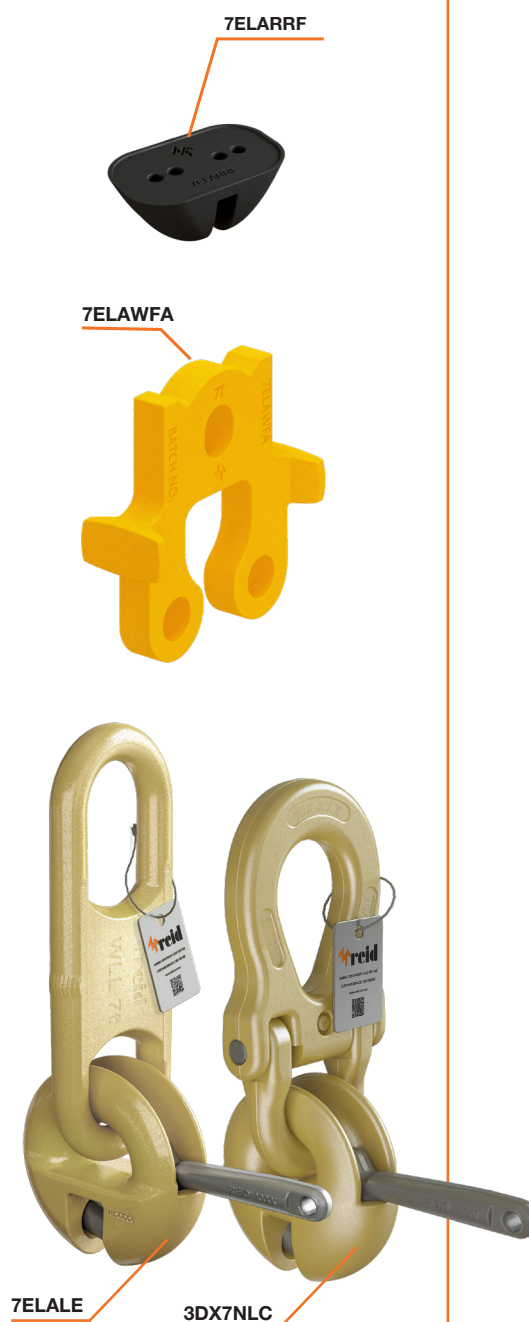


Figure 4:
10ELAWFA
Clutch, Anchor
& Void Former



note: Required supplementary reinforcement not shown. Refer table 4 for further information.

NZ GPG 2018
Compliant



Performance Data

Table 4: Performance Data

Panel Thickness (mm)	Part #	Max WLL (tonnes)	Stripping (WLL, in t)		Placement (WLL, in t)			Tension bar overall length L (mm)	Minimum Precast Panel Reinforcement***
			15 MPa	20 MPa	25 MPa	30 MPa	40 MPa		
			Tensile/Shear*	Tensile/Shear*	Tension	Tension	Tension		
100	2ELAWFA	2.5	2.50/0.92	2.50/1.06	2.50	2.50	2.50	2xHD12x550	HD12 @ 250 CTS central
120			2.50/1.92	2.50/2.22					Minimal Reinforcement***
150			2.50/2.44	2.50/2.82					HD12 @ 250 CTS central
150	7ELAWFA	7.0	7.00/2.60	7.00/3.00	7.00	7.00	7.00	2xHD12x1380	Minimal Reinforcement***
175			7.00/3.25	7.00/3.76					HD16 @ 300 CTS 2 layer
200			7.00/3.88	7.00/4.48					HD16 @ 300 CTS 2 layer
175	10ELAWFA	10.0	10.00/4.11	10.00/4.74	10.00	10.00	10.00	2xHD16x1500	HD16 @ 300 CTS 2 layer
200			10.00/3.57	10.00/4.12					Minimal Reinforcement***
			10.00/4.40	10.00/5.08					HD16 @ 300 CTS 2 layer
			250	10.00/5.28					10.00/6.09

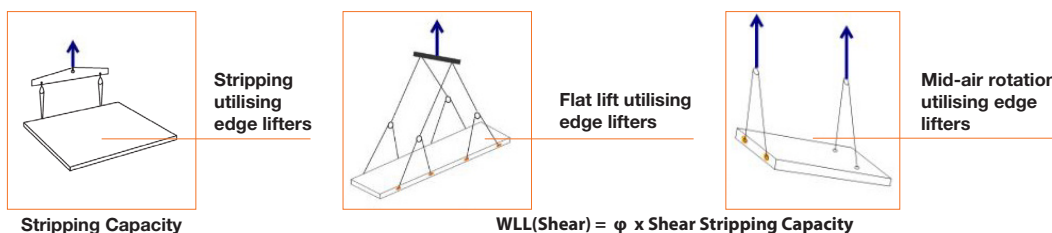
Notes: Data is based on concrete panel with vertical reinforcement detail as noted in table and satisfies the minimum requirement stipulated in clause 11.4.4.2 of NZS3101 2006 (A3) for 500E grade. If reinforcement detail is less, contact your local Reid™ representative for advice.

* Shear data is based on avoiding hairline cracking around lifter during the stripping process. This process assumes one edge of the panel is still on the bed whilst tilting it up until vertical. If the panel were to be flat lifted after stripping or tilted up in mid-air rotation, all shear capacities need to be multiplied by a capacity reduction factor of $\phi = 0.47$ for WLL - refer to figure 5 for detail.

** Min. precast panel reinforcement is required when ELAWFA anchors are loaded in out-of-plane shear, not when they are loaded in tension.

*** Shear testing was conducted in unreinforced concrete and capacities derived accordingly. It is strongly advised that the minimum panel reinforcement complies with NZS3101 2006 (A3).

Figure 5:



Installation Support Details

Installation Support Details

- The anchor must always be used with two HD grade reinforcing bars fitted through the eyes at the base of the anchor. This is to ensure that the anchor lifts to its ultimate strength
- The anchor must be orientated at right angles to the edge of the panel, and have the appropriate two reinforcing bars fitted through the pair of eyes at the base of the anchor.
- Details of Tension Bar size and overall length for 2ELAWFA, 7ELAWFA and 10ELAWFA can be found on Table 4

These bars must be bent down into the panel at an included angle of 35 - 45° and with a bend diameter of 5 bar diameters.

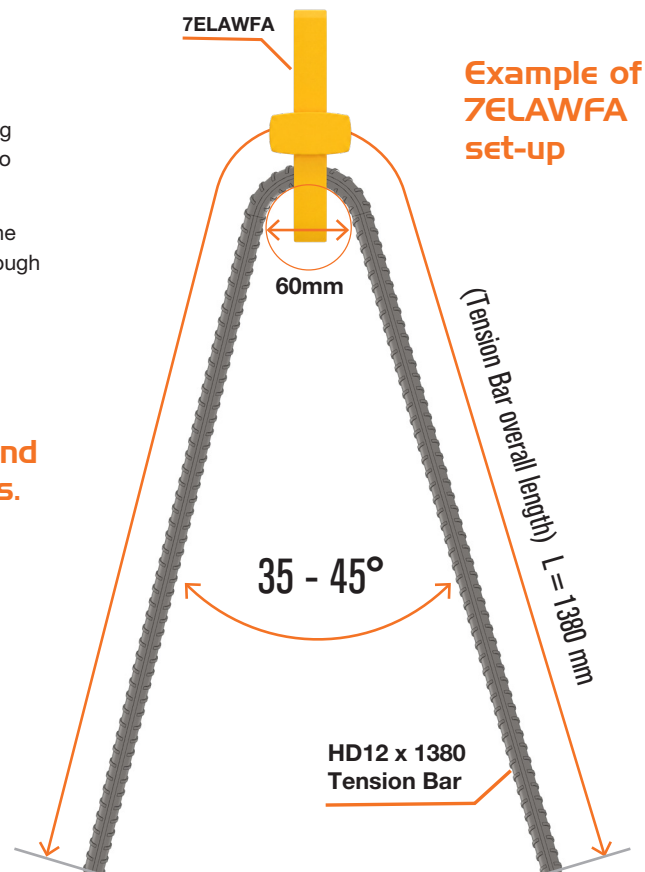
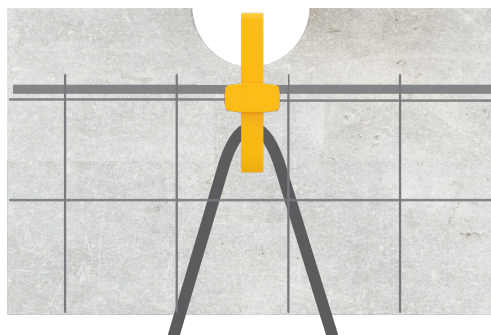
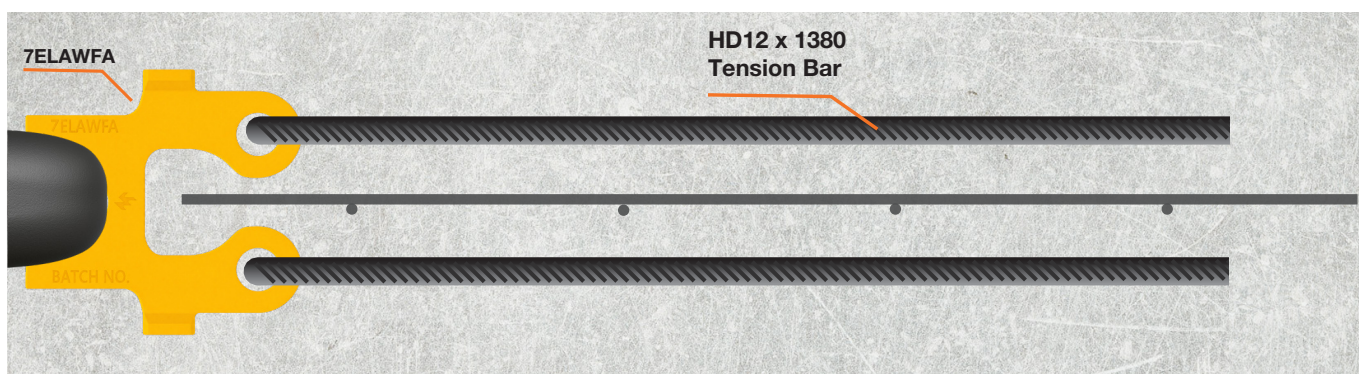


Figure 6: Hanger/Tension Bar Installation



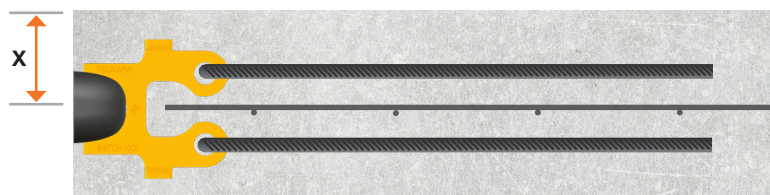
Anchor Tolerances

Allowable tolerance for Edge Lifters perpendicular to precast face

Anchor Type	Allowable Tolerance (X)
2ELAWFA	+ 5mm *
7ELAWFA	+ 5mm *
10ELAWFA	+ 5mm *

* for thicknesses less the 150mm allowable tolerance must be taken as + 2.5mm

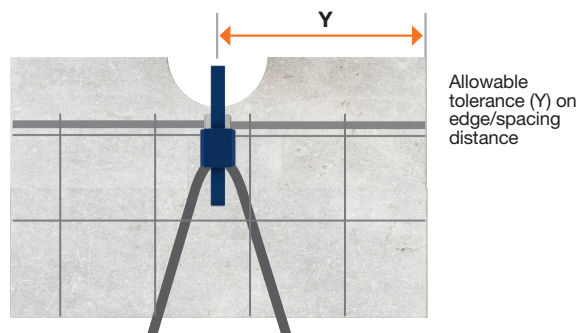
Allowable tolerance (X) on edge distance to precast face



Allowable tolerance for Edge Lifters parallel to precast face

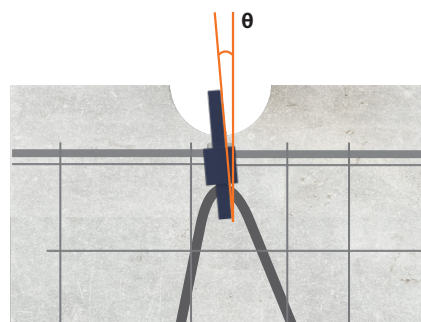
Anchor Type	Allowable Tolerance (Y)
2ELAWFA	+ 20mm
7ELAWFA	+ 20mm
10ELAWFA	+ 20mm

* edge and spacing distance must not go below minimum requirements stated in table 3



Allowable tolerance for Edge Lifter angle

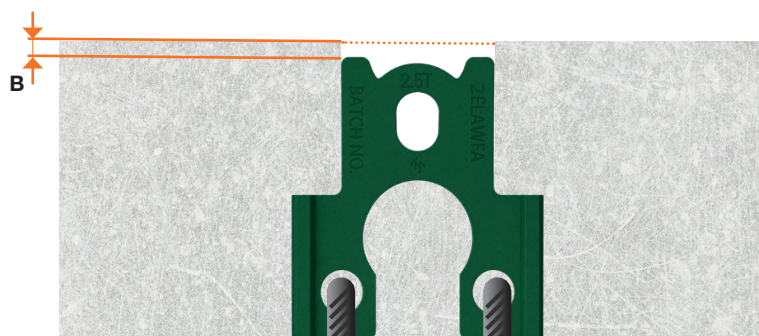
Anchor Type	Allowable Tolerance (θ)
2ELAWFA	+ 5 degrees
7ELAWFA	+ 5 degrees
10ELAWFA	+ 5 degrees



Minimum and maximum depth of Edge Lifters

Anchor Type	B Max (mm)	B Min (mm)
2ELAWFA	9.7	3.7
7ELAWFA	8.0	1.6
10ELAWFA	10.9	0

Note: Measurement should be taken at the highest point of lifting anchor head





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