

1.25 Tonne EdgeLift Anchor

DESCRIPTION

Reid's 1.3 tonne EdgeLift Anchor is specifically designed for lifting in the edge of precast and tilt-up concrete panels.

FEATURES

- Precision die pressed for accuracy and performance.
- Designed to be used in thin panels.
- Easy to engage and disengage lifting clutch.
- Reduced panel damage due to consistent dimensional accuracy.
- Ability to develop a 1.25 tonne safe working load in tension with minimum concrete strength and panel thickness.
- Shear bar gives superior shear load performance to other systems, reducing spalling and remedial work.
- Easy to install, with minimal interference to panel reinforcing and trim bars.
- Simple to visually check correct installation procedures.
- Hot Dipped Galvanized to give greater durability with reduced concrete cover.

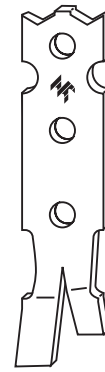
APPLICATIONS

- For lifting of concrete panels and other thin walled concrete structures.

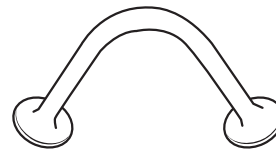
INSTALLATION

- The anchor must be orientated at right angles to the face of the panel. (as per Fig 1)
- Shear bars provide shear resistance when tilting and the hanger bar provides the restraint for the vertical lift. (ref. Fig 2)
- The specially designed Shear bar must be installed if shear loads are to be applied to the anchor. The feet of the Shear bar must be face away from the lift direction. (ref. Fig 1)
- If it is possible for shear load to be reversed, two Shear bars will be required, one on each side of the anchor.
- The Shear bar should be placed over the anchor and in contact with the anchor when concrete is placed.

WARNING – INCORRECT INSTALLATION CAN RESULT IN ANCHORS NOT PERFORMING TO SPECIFICATION.



1ELA
1.3t Edgelifit Anchor



1ELASB
Shear Bar



1ELAPRF
Recess Former

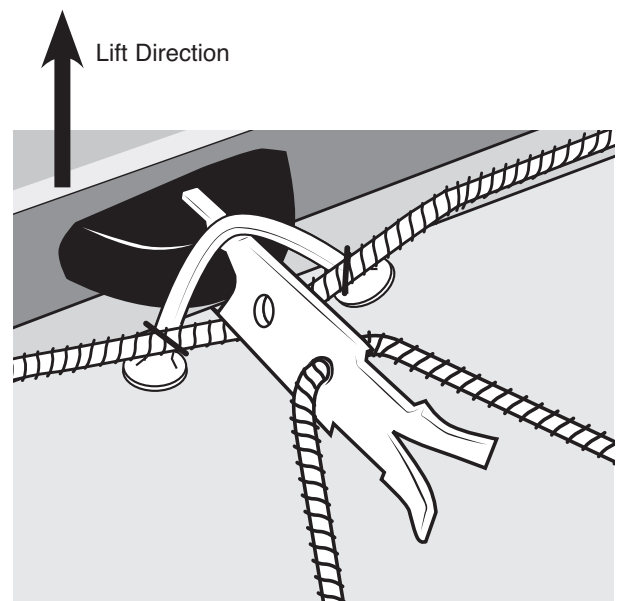


Fig 1.
Correct Installation of Shear Bar for single lift direction.

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INSTALLATION OF HANGER BARS

- Use one reinforcing bar (8mm) fitted through lower hole in the foot of the anchor.
- Hanger Bars must be bent at an included angle of 35° to 45°. (ref. Table 2 for length)

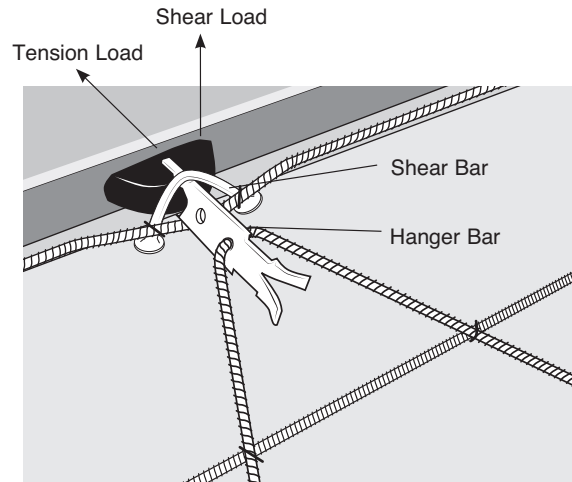


Fig 2. Hanger Bar Installation

Table 1.

Panel thickness	Safe Working Load (tonnes) WITHOUT Hanger bar (Tension)				Shear Load	
	Concrete Strength MPa				Without Shear Bar	With Shear Bar
	10 MPa	15 MPa	20 MPa	25 MPa		
100mm	0.48	0.63	0.77	0.89	0	0.5
120mm	0.58	0.76	0.92	1.06	0	0.5
140mm	0.72	0.94	1.14	1.25	0	0.5

SAFE WORKING LOAD IN TENSION WITH HANGER BAR = 1.25 TONNES (See Table 2 below)

LIMITATIONS OF ANCHOR

- Minimum Panel thickness 80mm.
- Shear bar required for tilt up operation.
- Shear bars operate in one direction only. If panel is flipped and can be tilted from either face then two Shear bars are required, placed in opposing directions.
- **Safe Working Load - Concrete strength may limit the capacity of the anchor to less than its full rating. (ref Table 1) Check with a suitably qualified person before proceeding.**

MATERIAL CHARACTERISTICS

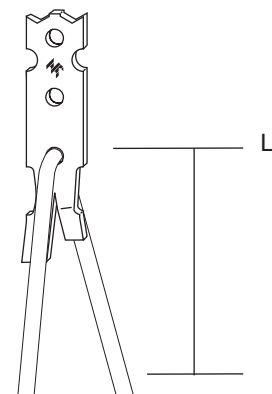
- Anchor – Die Pressed Mild Steel.
- Shear Bar – Mild Steel

LIFTING DEVICE

- Use Reid's Hair Pin Lifting Eye rated for the appropriate anchor capacity.

Table 2.

Hanger Bar length (L)	
Concrete MPa	L (m)
10	0.50
15	0.40
20	0.35
25	0.30



Hanger bar length - Refer to Table 2.



1ELALE Hair Pin Lifting Eye