

ALP TECHNICAL ALERT – Quiklift Plate Anchors with Rebar Capacity

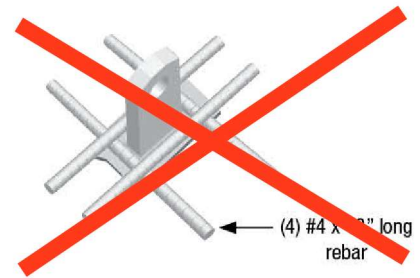
November 6, 2019

Re: Quiklift Plate Anchors with Rebar Detail – QL128G, QL846G, QL847G, QL044G, QL054G, QL042G

Effective immediately, ALP Supply no longer supports the published rebar detail showing reinforcement over the base plate of our Quiklift Plate Anchors for increased Tension and Shear Capacities. Although this has been a standard industry practice for many years, tests performed by ALP with rebar over base plates have shown that tested results are less than the currently published values.

Please see attached a modified ALP Supply Quiklift Plate Anchor data sheet as a replacement to page 53 in our 2018 Precast Accessories Catalog.

Do not design this anchor system with reinforcement over the base plate using the ALP 2018 Catalog load capacities as these values are no longer supported. However, no changes have been made to the previously published Quiklift Plate Anchor unreinforced tension and shear capacities where reinforcement is not added. The redacted Quiklift Plate Anchor information from the ALP 2018 Precast Accessories Catalog is shown for your reference.



Should you have any questions, please contact us at tech@alpsupply.com for alternative lifting recommendations.

Sincerely,



David Jablonsky, PE, FPCI
 ALP Supply, Executive Vice President
ALPSupply.com

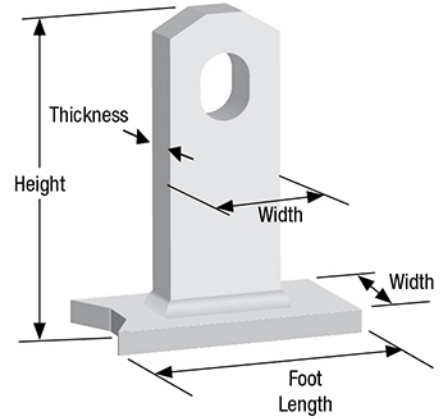
Reinforced Shear Load (lbs)	Reinforced Tension Load (lbs)
4,000	4,000
8,000	8,000
8,000	8,000
8,000	8,000
12,000	12,000
16,000	16,000

QUIKLIFT™ PLATE ANCHORS

The Plate Anchors are designed for back-stripping of panels from the form. The Plate Anchors are designed with a plate welded to the bottom to provide anchorage in a low profile anchor. Rebar reinforcement should not be added over the base plate of this Plate Anchor system.

Standard Finish: Hot-Dipped Galvanized

Impact resistant, even in freezing temperatures



8 TON



4 TON



2 TON

PLATE ANCHOR DIMENSIONS AND LOAD CHART

Part Number	Ton	Ring Clutch System	Width	Height	Anchor Head Thickness	Foot Length	Anchor Ultimate Mechanical Load in Tension (lbs)	Weight Per Piece (lbs)	Anchor Capacity in Concrete 4:1 SWL	
									Shear Load (lbs)	Tension Load (lbs)
QL128G	2T	2T-3T (QL001)	1-1/4"	2-1/4"	3/8"	3-3/4"	16,000	0.75	950	950
QL846G	4T	4T-6T (QL002)	1-1/2"	3"	5/8"	3"	32,000	1.25	3,570	3,570
QL847G	4T	4T-6T (QL002)	1-1/2"	3-1/2"	5/8"	3"	32,000	1.35	4,700	4,700
QL044G	4T	4T-6T (QL002)	1-1/2"	4-3/8"	5/8"	3-7/8"	32,000	1.95	4,730	4,730
QL054G	8T	8T-12T (QL003)	2-1/2"	6-1/4"	3/4"	5"	64,000	5.40	6,350	6,350
QL042G	8T	8T-12T (QL003)	2-1/2"	7-1/8"	3/4"	5"	64,000	5.90	10,000	10,000

- Tension values are based on a concrete compressive strength of 3,500 psi and 150 PCF concrete
- Above capacities are based upon mechanical testing and available industry data.
- Minimum edge distance of (3 x anchor height + anchor width) / 2
- Minimum of 3/4" concrete cover required below anchor

1) Shear loads should be perpendicular to the face of the anchor and center line of recess.



2) **Warning:** Spalling may occur when pulling in shear parallel to the face of the anchor. This may lead to overloading the anchor

