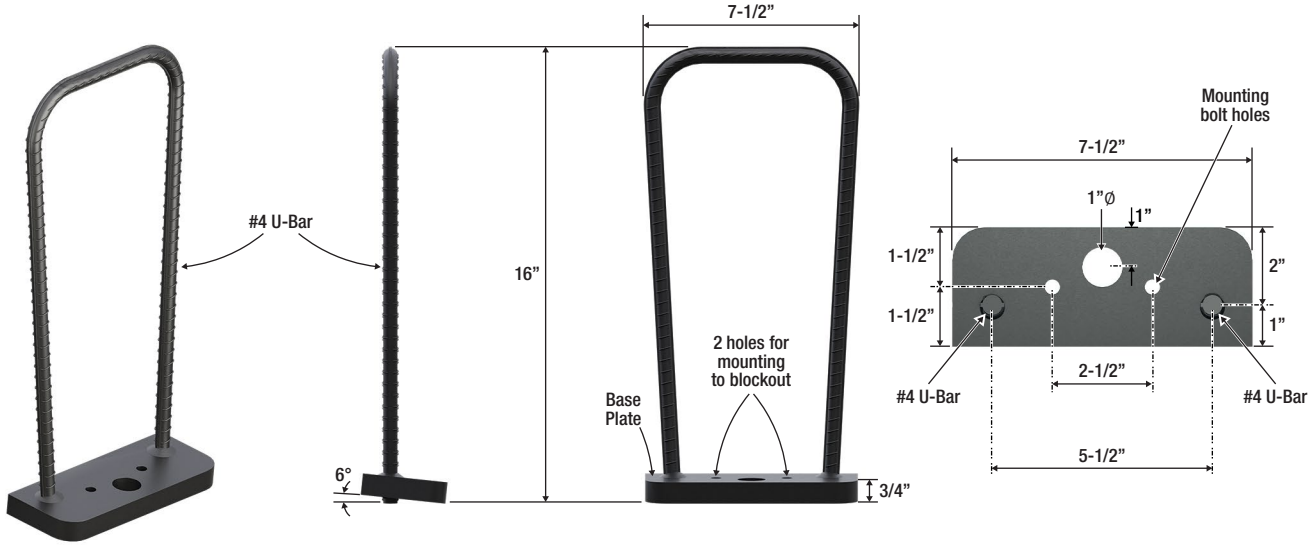
QUIK CONNECTOR™

ALP® QUIK CONNECTOR™ (FLUSH) - FOR FOUNDATION APPLICATIONS

Designed to connect wall panels to cast-in-place foundations. Quik Connectors should be cast so U-Bar is parallel to concrete surface. After the panels are erected, a 3/4" ϕ hole is drilled into the foundation through the 1" ϕ hole in the base plate. A 3/4" ϕ anchor bolt is then screwed into the hole to secure the panel to the foundation. **Standard finish is plain. Patent pending.**



DIMENSIONS AND CAPACITIES

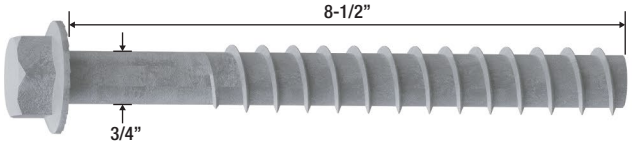
Part #	Country of Origin	Ult. Mechanical in Tension	Ult. Mechanical in Shear (3/4" Gap*)	Ult. Mechanical in Shear (1-1/2" Gap*)	Weight
QKD34APDF	USA	20,900	22,120	18,881	6.94
QK34APDF	China	20,900	22,120	18,881	6.94

*Refers to the space in between the foundation and wall panel

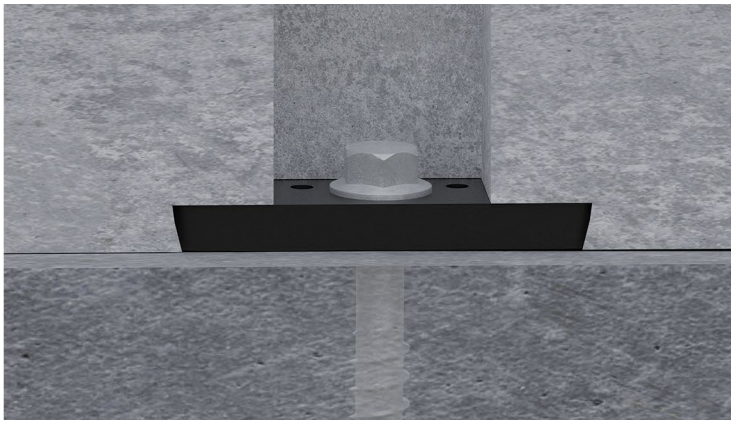
- Designed for use with a 3/4" ϕ Simpson Strong Tie Titen HD Screw Anchor
- Mechanical capacity in shear governed by ultimate capacity of the Simpson Screw Anchor
- Mechanical capacity in tension governed by ultimate capacity of U-Bar

SIMPSON STRONG TIE TITEN HD SCREW ANCHOR

Designed for demanding conditions, this high-performance screw anchor can be used in cracked or uncracked concrete. It provides strong, reliable fastening with low installation torque, making it ideal for connecting wall panels to foundations with the ALP Quik Connector.



Screw Anchor



SCREW ANCHOR DIMENSIONS

Part #	Bolt Diameter	Boltor Length	Drill Bit Diameter	Wrench Size	Qty/Box	Qty/Ctn
THD75812HMG	3/4"	8-1/2"	3/4"	1-1/8"	5	10

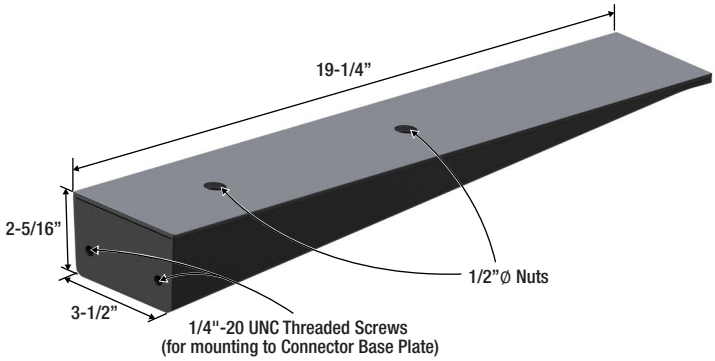
Drilled hole depth must be 3/4" greater than the screw anchor depth in the concrete.

Follow the Simpson Strong Tie Screw Anchor recommended installation instructions to ensure the required capacities are met.

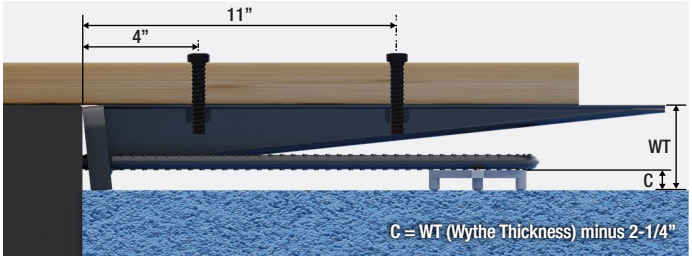
Refer to ICC-ES ESR-2713 for Simpson Strong Tie Titen HD Screw Anchors for required capacities based on concrete strength, edge distance and embedment depth.

ALP® QUIK CONNECTOR BLOCKOUT™ (FLUSH) - FOR FOUNDATION APPLICATIONS

ALP® Quik Connector Blockouts™ create the required void for the ALP® Quik Connector™ foundation connector. The Disposable Blockout is manufactured from wood for single-use applications and secures to the Quik Connector with two wood screws. The Reusable Blockout is manufactured from steel for repeated use and secures with (2) 1/4"-20 × 1-1/2" UNC countersunk head threaded screws. The steel blockout also includes (2) 1/2" nuts on top to help hold the Quik Connector in place during fabrication.



An ALP Blockout should be used to achieve the listed capacities.
ALP Disposable and Reuseable Blockouts are dimensionally identical.



DIMENSIONS

Part #	Country of Origin	Blockout Use	Blockout Material	Nut Type	Weight
QKD34BDFW	USA	Drilled to Secure to Quik Connector	Wood	None	1.37
QK34BDFW	China	Drilled to Secure to Quik Connector	Wood	None	1.37
QKD34BDFSN	USA	Drilled to secure to Quik Connector	Steel	1/2" Ø UNC	6.17
QK34BDFSN	China	Drilled to secure to Quik Connector	Steel	1/2" Ø UNC	6.17

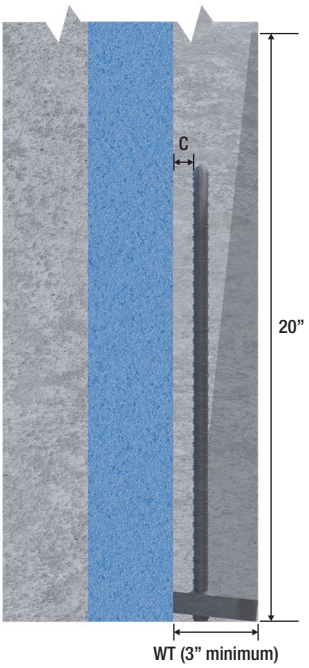
- Grease required on blockout to ensure removal from concrete
- For steel blockout, remove 1/4" Ø screws prior to removal from concrete
- For wood blockout, remove wood screws prior to removal from concrete

ALP QUIK CONNECTOR ASSEMBLY

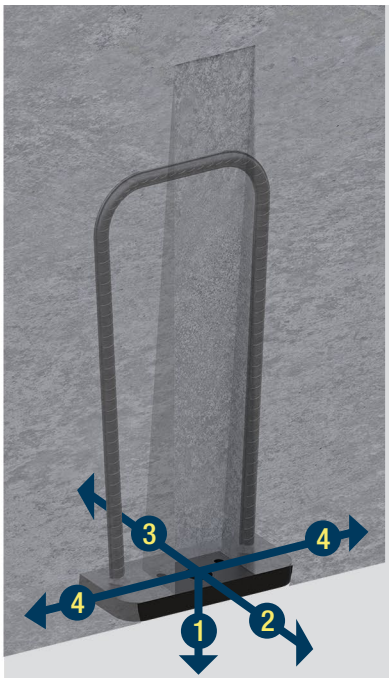
QKD34APDFAW (Domestic) | QK34APDFAW (Import)

ALP Quik Connector Panel to Foundation Connectors are available pre-assembled with Wood Blockouts.

ALP® QUIK CONNECTOR™ - FOR FOUNDATION APPLICATIONS



C = WT (Wythe Thickness) minus 2-1/4”



Loading Configurations

1. In-Plane Tension
2. Out-of-Plane Shear (towards Blockout top)
3. Out-of-Plane Shear (away from Blockout top)
4. In-Plane Shear

CAPACITIES

Load Config.	Bolt Gap* (in)	Min. Edge Distance	Ultimate Capacity in Concrete (lbs)							# of Tests	Std Dev. @ 4,000 psi
			Concrete Strength (psi)								
			4,000	4,500	5,000	5,500	6,000	6,500	7,000		
1	0”	≥ 36”	19,705	20,900	20,900	20,900	20,900	20,900	20,900	4	1,840
	0”	30”	18,063	19,158	20,195	20,900	20,900	20,900	20,900	4	1,840
	0”	24”	16,421	17,417	18,359	19,255	20,111	20,900	20,900	4	1,840
	0”	18”	14,779	15,675	16,523	17,329	18,100	18,839	19,550	4	1,840
	0”	12”	13,136	13,933	14,687	15,404	16,089	16,746	17,378	4	1,840
2	0”	≥ 13”	4,936	5,235	5,518	5,788	6,045	6,292	6,529	5	352
	1-1/2”	≥ 13”	4,649	4,931	5,198	5,451	5,694	5,926	6,150	3	663
3	0”	≥ 13”	5,646	5,988	6,312	6,620	6,914	7,197	7,468	1	N/A
	1-1/2”	≥ 13”	5,454	5,785	6,098	6,396	6,680	6,953	7,215	2	535
4	3/4”	≥ 24”	22,120	22,120	22,120	22,120	22,120	22,120	22,120	3	1,861
	1-1/2”	≥ 24”	18,881	18,881	18,881	18,881	18,881	18,881	18,881	3	559

*Refers to the space in between the foundation and wall panel Shaded area indicates the capacity in concrete is limited by the mechanical capacity of the anchor

Published values shown in this table represent the ultimate capacity of the anchor in the wall only. These values do not include limitations associated with foundation anchorage, anchor bolts or other connection components. The design capacity of the complete system shall be based on the lowest governing capacity of all components and applicable limit states. Design of the connection system is the responsibility of the engineer.

- For non-insulated components, a 5” minimum concrete thickness is required to achieve the above published capacities
- Load configuration for 1-4 were tested in 3” wythe on foam.
- Tests for load configuration 2-4 were done with a 3/4” Ø Simpson Strong Tie Titen HD Screw Anchor
- Published values based on unreinforced concrete, unless noted otherwise.
- If edge distance is less than minimum edge distance, capacity should be reduced by area reduction method.