



STRUCTURAL ANCHOR SELECTION GUIDE

ANCHORS & FASTENERS



ADHESIVE ANCHORS

		Anchor Diameter	ICC-ES Evaluation Service Reports (ESR's)								UL Listing	FM Approval	Relative Capacity	Relative Cost	Hilti Similar	Simpson Similar
																
ADHESIVE ANCHORS			Concrete	Cracked Concrete	Seismic	Post-Installed Rebar	Concrete-filled Metal Deck	Grouted Masonry	Ungouted Masonry	Unreinforced Masonry						
Pure220+™ 1-to-1 Cartridge Epoxy Anchor		3/8" - 1-1/4" #3 - #11 Rebar	 ICC ESR-5144	 ICC ESR-5144	 ICC ESR-5144	 ICC ESR-5144							 lbs. lbs. lbs. lbs.	 \$ \$ \$ \$	RE 500 V3	SET-3G™
Pure110+® 1-to-1 Cartridge Epoxy Anchor		3/8" - 1-1/4" #3 - #11 Rebar	 ICC ESR-3298	 ICC ESR-3298	 ICC ESR-3298	 ICC ESR-3298							 lbs. lbs. lbs.	 \$ \$ \$ \$	RE 500 V3 RE 100	SET-3G™ SET-XP
Pure50+™ 1-to-1 Cartridge Epoxy Anchor		3/8" - 1-1/4" #3 - #10 Rebar	 ICC ESR-3576	 ICC ESR-3576	 ICC ESR-3576								 lbs. lbs.	 \$ \$	RE 100	SET-XP® and ET-HP®
AC200+™ 10-to-1 Cartridge Acrylic Anchor		3/8" - 1-1/4" #3 - #10 Rebar	 ICC ESR-4027	 ICC ESR-4027	 ICC ESR-4027	 ICC ESR-4027							 lbs. lbs. lbs. lbs.	 \$ \$ \$ \$ \$	HY 200	AT-3G AT-XP®
AC100+ Gold® 10-to-1 Cartridge Acrylic Anchor		3/8" - 1-1/4" #3 - #10 Rebar	 ICC ESR-2582	 ICC ESR-2582	 ICC ESR-2582			 ICC ESR-3200	 ICC ESR-3200	 ICC ESR-4105			 lbs. lbs. lbs.	 \$ \$	HY 100 HY 270	AT-XP®

EXPANSION ANCHORS

Power-Stud®+ SD1	Carbon Steel Wedge-Anchor	1/4" - 1-1/4"	ICC ESR-2818	ICC ESR-2818	ICC ESR-2818		ICC ESR-2818	ICC ESR-2966			UL File No. EX1289	FM APPROVED FM Approval Guide	lbs. lbs. lbs.	\$	Kwik Bolt 1 and Kwik TZ2	Strong-Bolt® 2
Power-Stud®+ SD2	High Performance Carbon Steel Wedge-Anchor	3/8" - 3/4"	ICC ESR-2502	ICC ESR-2502	ICC ESR-2502		ICC ESR-2502				UL File No. EX1289	FM APPROVED FM Approval Guide	lbs. lbs. lbs.	\$ \$	Kwik Bolt 1 and Kwik Bolt TZ2	Strong-Bolt® 2
Power-Stud®+ SD4	304 Stainless Steel Wedge-Anchor	1/4" - 3/4"	ICC ESR-2502	ICC ESR-2502	ICC ESR-2502								lbs. lbs. lbs.	\$ \$ \$ \$	Kwik Bolt 3 and Kwik Bolt TZ2	Strong-Bolt® 2
Power-Stud®+ SD6	316 Stainless Steel Wedge-Anchor	1/4" - 3/4"	ICC ESR-2502	ICC ESR-2502	ICC ESR-2502								lbs. lbs. lbs.	\$ \$ \$ \$ \$	Kwik Bolt 3 and Kwik Bolt TZ2	Strong-Bolt® 2

SCREW ANCHORS

Screw-Bolt+™ Hex Head	High Performance Screw Anchor	1/4" - 3/4"	ICC ESR-3889	ICC ESR-3889	ICC ESR-3889		ICC ESR-3889	ICC ESR-4042					lbs. lbs. lbs.	\$ \$	KH-EZ / KWIK HUS	Titen HD®
Screw-Bolt+™ Flat Head	High Performance Screw Anchor	1/4" - 1/2"	ICC ESR-3889	ICC ESR-3889	ICC ESR-3889		ICC ESR-3889	ICC ESR-4042					lbs. lbs. lbs.	\$ \$	KH-EZ C	Titen HD®
UltraCon+®	Concrete Screw Anchor	3/16" - 1/4"	ICC ESR-3068					ICC ESR-3068					lbs.	\$	Kwik-Con II+	Titen Turbo™

SPECIALITY ANCHORS

CCU+™	Heavy Duty Undercut Anchor	3/8" - 3/4"	ICC ESR-4810	ICC ESR-4810	ICC ESR-4810								lbs. lbs. lbs. lbs.	\$ \$ \$ \$ \$	HDA Undercut	TCA
Power-Bolt®+	Heavy Duty Sleeve Anchor	1/4" - 3/4"	ICC ESR-3260	ICC ESR-3260	ICC ESR-3260								lbs. lbs. lbs.	\$ \$ \$ \$	HSL-3 and HSL-4	N/A

ICC ESR Indicates a Code Listed Product Hilti is a registered trademark of Hilti Corp. Simpson is a registered trademark of Simpson Strong-Tie Company, Inc.

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