Powers
FASTENING INNOVATIONS

Anchor Selection Chart

	Base Material										Anchor Diameter	Head Style								Working Load (Concrete)			Coating / Material									Approvals	Similar Anchoring Products
	Concrete	Lightweight Concrete	Hollow Core Plank	Grout-filled Concrete Masonry	Hollow Concrete Masonry	Solid Brick	Hollow Brick	Unreinforced Masonry	Steel	Drywall		Stud	Finished Hex Head	Round / Acorn Nut	Flat Head (countersunk)	Mushroom Head	Tie-Wire Head	Female / Rod Coupler	Flush Mount	Under 500 lbs.	500 lbs. to 5,00 lbs.	Over 5,000 lbs.	Zinc Plated Carbon Steel	Galvanized Steel	Type 303/304 Stainless Steel	Type 316 Stainless Steel	Type 410 Stainless Steel	Zamac Alloy	Perma-Seal Coated	Nylon / Plastic	Lead	1. ICC-ES 2. FM 3. UL 4. COLA 5. Miami-Dade 6. NSF 61	
ADHESIVE SYSTEMS																																	
PE1000+ 3-to-1 Cartridge - Epoxy Anchor	■	□	□	■	□	□	□	□			3/8" - 1-1/4" #3 - #10 Rebar	■								■	■	■	■	■	■	■						1, 4, 6	Hilti RE 500-SD / RE 500
AC100+ Gold 10-to-1 Cartridge - Vinylester Anchor	■	□	□	■	■	■	□				3/8" - 1-1/4" #3 - #10 Rebar	■								■	■	■	■	■	■	■						1, 6	Hilti HY 200/ HY 150 MAX Simpson AT - XP Red Head Epcon S7
Pure110+ 1-to-1 Cartridge - Epoxy Anchor	■	□	□	■	■	□	□	□			3/8" - 1-1/4" #3 - #10 Rebar	■								■	■	■	■	■	■	■						1, 6	Simpson SET-XP Red Head Epcon G5, C6+
Pure50+ 1-to-1 Cartridge - Epoxy Anchor	■	□	□	■	■	■	□	□			3/8" - 1-1/4" #3 - #10 Rebar	■								■	■	■	■	■	■	■						1, 6	Hilti HTE 50 Simpson SET, ET or EDOT Red Head Epcon C6
T308+ 1-to-1 Cartridge - Epoxy Anchor	■	□		■	■	■	□	■			3/8" - 7/8"	■								■	■	■	■	■	■	■						1, 6	Hilti HTE 50 Simpson SET, ET or EDOT Red Head Epcon C6
AC50 Silver 10-to-1 Cartridge - Vinylester Anchor	■	□	□	□	□	□	□				3/8" - 1" #3 - #8 Rebar	■								■	■	■	■	■	■	■							Simpson AT Red Head Epcon A7
Hammer-Capsule Glass Capsule - Hammer Type Anchor	■	□		□		□					3/8" - 1" #3 - #8 Rebar	■								■	■	■	■	■	■	■							Simpson VGC Capsule ITW Chemset Hammer Cpsl.
Chem-Stud Glass Capsule - Spin Type Anchor	■	□		□		□					3/8" - 1-1/4" #3 - #10 Rebar	■							■	■	■	■	■	■	■	■							Hilti HVU Capsule ITW Maxima 7 Spin Capsule
HEAVY DUTY																																	
Atomic+ Undercut Undercut Anchor	■	■									5/8" - 1-1/8" (nom 3/8" - 3/4")	■								■	■	■	■			■						1	Hilti HDA Undercut
Power-Bolt+ Heavy Duty Sleeve Anchor	■	■		■		□					1/4" - 3/4"		■							■	■	■	■									1	Hilti HSL-3
Power-Bolt Heavy Duty Sleeve Anchor	■	■	□	■	□	■	□				1/4" - 3/4" (CS) 1/4" - 1/2" (SS)		■		■					■	■	■	■		■							3	Hilti HSL
MEDIUM DUTY																																	
Power-Stud+ SD1 Expansion Anchor	■	■		■							1/4" - 1-1/4"	■					■			■	■	■	■									1,2,3, 4	Hilti Kwik Bolt 3 (KB3) Simpson Strong-Bolt 2 Red Head Trubolt
Power-Stud+ SD2 Expansion Anchor	■	■		■							3/8" - 3/4"	■								■	■	■	■									1,2,3, 4	Hilti Kwik Bolt TZ Simpson Strong-Bolt Red Head Trubolt+
Power-Stud+ SD4/SD6 Expansion Anchor	■	■		■							1/4" - 3/4"	■								■	■	■			■	■						1	Hilti Kwik Bolt 3 (KB3) / KB TZ SS Simpson Strong-Bolt 2 Red Head Trubolt
Power-Stud HD5 Expansion Anchor	■	■		■							1/2" - 5/8"	■								■	■	■		■									Hilti Kwik Bolt 3 (KB3) HDG Red Head Trubolt
Power-Stud (MG, SS) Expansion Anchor	■	■		□							1/2" - 1" (MG) 1/4" - 1" (SS)	■								■	■	■		■	■	■						3	Hilti Kwik Bolt 3 (KB3) Simpson Wedge-All
Lok-Bolt AS Sleeve Anchor	■	■	□	■	■	■	□				1/4" - 3/4" (CS) 1/4" - 5/8" (SS)	■		■	■		■	■		■	■		■		■								Hilti HLC Simpson Sleeve-All Red Head Dynabolt
Wedge-Bolt+ Screw Anchor	■	■	□	■	□	■					1/4" - 3/4" (CS) 3/8" - 3/4" (MG)		■							■	■	■	■	■								1,4	Hilti Kwik HUS / HUS-EZ Simpson Titen HD Red Head Large Dia. Tapcon (LDT)
Wedge-Bolt (SS) Screw Anchor	■	■		■		■					1/4" - 1/2"		■							■	■	■	■				■						No Similar Product
Snake+ Rod Hanger / Screw Anchor	■	■	□	□							1/4" - 1/2"								■	■	■		■									1,2, 4	No Similar Product
Vertigo+ (Concrete) Rod Hanger / Screw Anchor	■	■									1/4" - 1/2"							■		■	■		■									1,2	Hilti HUS-EZ I Simpson Titen HD Rod Hanger
Vertigo (Steel / Wood) Rod Hanger / Screw Anchor	■	■	■						■		1/4" - 1/2"							■		■	■		■									3	ITW Sammy
Bang-It / Wood-Knocker Speciality Cast-In-Place	■	■									1/4" - 3/4"							■	■	■	■		■							■		2,3	Hilti HCI-WF / HCI-MD Simpson Blue Banger
Smart DI+ Dropin Anchor	■	□									1/4" - 3/4"								■	■	■		■									2,3	Hilti HDI Drop-In Red Head RL Drop-In
Steel Dropin Dropin Anchor	■	■									1/4" - 3/4"								■	■	■		■		■	■						3	Hilti HDI Drop-In Red Head RL Drop-In
Mini Dropin Dropin Anchor	■	■	■	□							1/4" - 1/2"								■	■	■		■									2	Hilti HDI-P Short Drop-In Red Head RX Drop-In
Hollow- Set Dropin Dropin Anchor	■	■	■	■	■	■	□				1/4" - 5/8"								■	■	■		■		■			■				3	No Similar Product
Double Bolt/Shield Anchors	■	■		■	■	■					1/4" - 3/4"								■	■	■							■					
Single Bolt/Shield Anchors	■	□		□		□					1/4" - 5/8"								■	■								■					
LIGHT DUTY																																	
Tapper+ Screw Anchor	■	■	■	■	■	■	□				3/16" - 5/16"		■		■					■	■								■			1, 5	Hilti Kwik-Con II Simpson Titen / Titen HD Redhead Tapcon
Tapper (SS) Screw Anchor	■	■		■		■					3/16" - 1/4"		■		■					■					■		■					5	Hilti Kwik-Con II Simpson Titen ITW Tapcon
Safe-T+Pin Pin / Nail Anchors	■	■		■		■					8mm									■			■										No Similar Product
Spike Pin / Nail Anchors	■	■		■		□					3/16" - 1/2" (CS) 3/16" - 3/8" (SS)									■	■		■			■			■				Simpson Crimp Red Head Redi-Drive
Drive Pin / Nail Anchors	■	□		□		□					3/16" - 1/2"			■	■		■			■			■									3	Simpson MSD/CSD/DSD
Zamac Hammer Screw Pin / Nail Anchor	■	□	□	■	■	■	□				3/16" - 1/4"					■				■			■					■	■				No Similar Product
Zamac or Nylon Nailin Pin / Nail Anchors	■	□	□	■	■	■	□				3/16" - 1/4"				■	■				■			■		■			■		■			
Calk-In Bolt/Shield Anchors	■	□		■	□	■					#8-32 - 1/2"								■	■	■							■			■		
Toggle-Bolt Hollow Walll Anchor			□		■					■	1/8" - 1/2"		■		■	■	■			■			■										
Strap-Toggle Hollow Walll Anchor			□		■					■	3/16" - 1/2"								■	■			■							■			Hilti HTB Toggler Bolt
Zamac or Nylon Zip-It Drywall Anchor					■					■	#10, 6, 8 Screw								■	■								■		■			ITW EZ
Wall Dog Drywall Anchor	■	■		■	■	■	■			■	3/16"			■	■					■			■										No Similar Product

■: Suitable □: May Be Suitable ES Indicates a Code Listed Product

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