aerosmith®
fastening systems

Ultimate Load Capacities for Carbon Steel, Zinc Plated Strikes in Normal-Weight Concrete [1,2,3,4]

Anchor Diameter d in.	Minimum Embedment Depth h_v in.	Minimum Concrete Compressive Strength							
		2,000 psi		3,000 psi		4,000 psi		5,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/16	7/8	515	1,080	555	1,270	650	1,310	680	1,350
	1	535	1,230	615	1,725	770	1,860	785	1,860
	1-1/4	730	1,800	895	2,000	1,055	2,155	1,110	2,310
1/4	1	615	1,585	765	1,965	825	2,160	875	2,360
	1-1/4	815	1,815	1,090	2,020	1,200	2,220	1,310	2,585
3/8	1-3/4	1,775	3,645	2,115	4,480	2,620	5,025	2,865	5,075
1/2	2-1/2	3,205	5,345	3,615	8,460	4,000	10,320	4,400	10,860

1. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine the Allowable working loads.
2. Consideration of safety factor of 10 or higher may be necessary depending upon the application such as life safety or overhead use.
3. Load tables are anchors installed in normal weight concrete.
4. Concrete strength must be at the specific minimum at the time of installation.

Allowable Load Capacities for Carbon Steel, Zinc Plated Strikes in Normal-Weight Concrete [1,2,3,4]

Anchor Diameter d in.	Minimum Embedment Depth h_v in.	Minimum Concrete Compressive Strength							
		2,000 psi		3,000 psi		4,000 psi		5,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/16	7/8	125	270	135	320	155	330	165	340
	1	130	310	145	430	185	465	195	465
	1-1/4	190	450	215	500	255	540	275	580
1/4	1	153	395	185	490	205	540	215	590
	1-1/4	200	455	265	505	295	555	325	645
3/8	1-3/4	435	910	520	1,120	655	1,255	7215	1,270
1/2	2-1/2	800	1,335	900	2,115	1,000	2,580	1,100	2,715

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Ultimate Load Capacities for 316 Stainless Steel Strikes in Normal-Weight Concrete [1,2,3,4]

Anchor Diameter d in.	Minimum Embedment Depth h_v in.	Minimum Concrete Compressive Strength							
		2,000 psi		3,000 psi		4,000 psi		5,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/16	7/8	495	940	555	1,100	650	1,200	680	1,295
	1	500	1,195	615	1,550	770	1,800	785	1,860
	1-1/4	700	1,800	895	2,000	1,055	2,100	1,110	2,310
1/4	1	615	1,585	765	1,800	825	2,160	875	2,360
	1-1/4	785	1,711	1,090	1,900	1,200	2,200	1,310	2,585
3/8	1-3/4	1,575	3,200	2,115	3,950	2,620	4,000	2,865	4,900

1. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine the Allowable working loads.
2. Consideration of safety factor of 10 or higher may be necessary depending upon the application such as life safety or overhead use.
3. Load tables are anchors installed in normal weight concrete.
4. Concrete strength must be at the specific minimum at the time of installation.

Allowable Load Capacities for 316 Stainless Steel Strikes in Normal-Weight Concrete [1,2,3,4]

Anchor Diameter d in.	Minimum Embedment Depth h_v in.	Minimum Concrete Compressive Strength							
		2,000 psi		3,000 psi		4,000 psi		5,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/16	7/8	123	250	135	300	155	310	165	330
	1	125	300	145	415	185	450	195	460
	1-1/4	175	450	215	495	255	530	275	575
1/4	1	153	375	185	475	205	540	215	585
	1-1/4	196	450	265	490	295	550	325	600
3/8	1-3/4	373	850	520	1,000	655	1,100	7215	1,150

1. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine the Allowable working loads.
2. Consideration of safety factor of 10 or higher may be necessary depending upon the application such as life safety or overhead use.
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