

Concrete Hangerz – Ultimate Load Capacities when Installed in Normal-Weight Concrete ^{1,2,3,4}

Anchor Size / Rod Diameter in.	Direction	Screw Size & Length	ANSI Drill Bit Diameter in.	Embed. Depth in.	Minimum Concrete Compressive Strength					
					2,000 psi		4,000 psi		6,000 psi	
					Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
1/4	Vertical	1/4"x 1-1/4"	1/4"	1-1/4	1,385	1,810	1,940	2,440	2,065	2,570
3/8	Vertical	1/4"x 1-1/2"	1/4"	1-1/2	1,755	2,580	2,585	2,640	2,765	2,700
1/2	Vertical	3/8"x 2-3/4"	3/8"	2-3/4	5,315	5,250	6,045	6,330	8,615	7,410

1. The values listed above are ultimate capacities which should be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.
2. Linear interpolation may be used to determine ultimate loads for intermediate compressive strength.
3. Consideration of safety factors of 20 or higher may be necessary depending on certain applications such as sustained tensile loading applications.
4. In some states design codes may accept lower allowable loads, please make sure to check your local codes to see what may apply.

Concrete Hangerz – Allowable Load Capacities when Installed in Normal-Weight Concrete ^{1,2,3,4}

Anchor Size / Rod Diameter in.	Direction	Screw Size & Length	ANSI Drill Bit Diameter in.	Embed. Depth in.	Minimum Concrete Compressive Strength					
					2,000 psi		4,000 psi		6,000 psi	
					Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
1/4	Vertical	1/4"x 1-1/4"	1/4"	1-1/4	345	450	485	610	515	640
3/8	Vertical	1/4"x 1-1/2"	1/4"	1-1/2	435	645	645	660	690	690
1/2	Vertical	3/8"x 2-3/4"	3/8"	2-3/4	1,328	1,312	1,510	1,580	2,150	1,850

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