

Ultimate Load Capacities for Sure-Lag in Normal-Weight Concrete 1,2,3

Dad/Anabas	Minimoune								
Rod/Anchor Diameter	Minimum Embedment Depth	Minimum Concrete Compressive Strength							
		2,000 psi		4,000 psi		6,000 psi			
d in.	h_{ν} in.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.		
1/4 Short	1	195	790	275	1,005	365	1,005		
1/4 Long	1 1/2	295	790	335	1,005	415	1,005		
5/16 Short	1 1/4	305	995	505	1,115	655	1,115		
5/16 Long	1 3/4	365	995	540	1,115	560	1,115		
3/8 Short	1 3/4	585	1,175	845	1,450	900	1,450		
3/8 Long	2 1/2	735	1,175	1,070	1,450	1,285	1,450		
1/2 Short	2	790	1,335	1,185	1,600	1,255	1,600		
1/2 Long	3	1,450	1,335	2,100	1,600	2,360	1,600		
5/8 Short	2	850	2,000	1,220	2,250	1,345	2,250		

Allowable Load Capacities for Sure-Lag in Normal-Weight Concrete^{1,2,3}

Rod/Anchor Diameter	Minimum Embedment Depth	Minimum Concrete Compressive Strength							
		2,000 psi		4,000 psi		6,000 psi			
d in.	$\dot{m{h}}_{\!\scriptscriptstyle V}$ in.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.		
1/4 Short	1	45	200	65	250	85	250		
1/4 Long	1 1/2	70	200	75	250	100	250		
5/16 Short	1 1/4	75	245	125	275	155	275		
5/16 Long	1 3/4	85	245	125	275	135	275		
3/8 Short	1 3/4	135	290	205	360	220	360		
3/8 Long	2 1/2	175	290	265	360	315	360		
1/2 Short	2	195	330	295	400	315	400		
1/2 Long	3	355	330	515	400	585	400		
5/8 Short	2	205	500	300	560	325	560		

^{1.} Sure-Lags are not recommended for use in either life safety or overhead applications.

3. Concrete compressive strength must be at the specified minimum at the time of installation.

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Tabulated load values are ultimate loads and should be reduced by a factor of safety of 4.0 or greater to determine the allowable working loads. Concrete compressive strength must be at the specified minimum at the time of installation.

^{2.} Tabulated load values are ultimate loads and should be reduced by a factor of safety of 4.0 or greater to determine the allowable working loads.