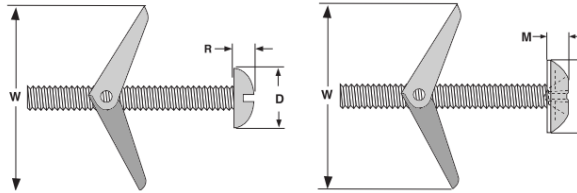




Toggle Bolts: Dimensions & Specifications



Toggle Bolts																
Anchor Size	Thread Size	Drill Bit Size	Mushroom Head Height (M)		Mushroom Head Diameter (S)		Round Head Height (R)		Round Head Diameter (D)		Wing Clearance (W)	Performance Information				
												In 1/2" Wallboard		In Hollow Block		
			Max	Min	Max	Min	Max	Min	Max	Min		Tensile (lbs.)	Shear (lbs.)	Embedment Depth	Tensile (lbs.)	Shear (lbs.)
1/8	6-32	3/8	.086	.074	.321	.303	.103	.091	.260	.240	1-1/16	200	205	3/8	310	270
3/16	10-24	1/2	.128	.113	.448	.425	.137	.123	.359	.334	1-3/8	245	280	1/2	430	700
1/4	1/4-20	5/8	.150	.133	.573	.546	.175	.160	.472	.443	1-1/2	310	350	5/8	830	1390
5/16	5/16-18	7/8	.183	.162	.698	.666	.216	.198	.590	.557	2-1/8	330	420	7/8	1070	2980
3/8	3/8-16	7/8	.215	.191	.823	.787	.256	.237	.708	.670	2-1/8	340	440	7/8	1385	3120
1/2	1/2-13	1-1/4	.280	.250	1.073	1.028	.355	.332	.813	.766	3	435	470	1-1/4	2550	3620

Toggle Bolts: Performance & Mechanical Stats	
Description	A fastening system consisting of (1) two matching steel "wings" each bent at two 90° angles, (2) an internally threaded nut with protrusions spaced 1800 apart which serves as a pivot attaching the two wings, (3) a wire spring providing the necessary tension to open and close the wings, and (4) a machine screw which mates with the nut.
Applications	Toggle bolts are light-duty anchors for use in hollow block or gypsum wallboard. They spread the load over a larger area and are more temperature resistant than other hollow wall anchors. They are single-use anchors.
Material	Wing Body: AISI 1008-1010 or equivalent cold rolled steel. Trunnion Nut: 1/4" thru 3/8": AISI 1010 steel; 1/2": Zamac alloy Screw: carbon steel
Tensile Strength	Ultimate load capacities for toggle bolts in various materials are listed in the above table. The suggested safe working load is 1/4 the loads listed here.
Plating	Toggle bolts are commonly supplied with a clear zinc finish.