



TOGGLE BOLTS																
Anchor Size	Thread Size	Drill Bit Size	M		S		R		D		Wing Clearance	Performance Information				
			Mushroom Head Height		Mushroom Head Diameter		Round Head Height		Round Head Diameter			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

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/ Advantages	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	<i>Wing Body:</i> AISI 1008-1010 or equivalent cold rolled steel <i>Trunnion Nut:</i> 1/4" thru 3/8": AISI 1010 steel: 1/2": Zamac alloy <i>Screw:</i> carbon steel
Tensile and Shear Strengths	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.