

Toggle Bolt Performance Data: Ultimate Load Capacities for Gypsum Wallboard and C-90 Hollow Block

Gypsum Wallboard

Anchor Size (inches)	3/8" Wallboard		1/2" Wallboard		5/8" Wallboard		3/4" Wallboard	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Shear (lbs.)	Tension (lbs.)
1/8"	150	180	200	205	250	265	290	310
3/16"	170	210	245	280	315	350	385	420
*1/4"	285	310	310	350	350	385	420	445
5/16"	320	360	330	420	365	450	425	510
3/8"	325	370	340	440	385	470	450	530
1/2"	340	410	435	470	520	560	555	600

C-90 Hollow Block (1-1/2" Wall)

Anchor Size	Embedment Depth	Tension (lbs.)	Shear (lbs.)
1/8"	3/8"	310	270
3/16"	1/2"	430	700
*1/4"	5/8"	830	1,390
5/16"	7/8"	1,070	2,980
3/8"	7/8"	1,385	3,120
1/2"	1-1/4"	2,550	3,620

Note:

The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 4 or greater to determine the allowable working load. Since the consistency of gypsum wallboard and hollow block varies greatly, these load capacities listed should be used as guidelines only. Job site tests should be conducted to determine the actual load capacities.