

PERFORMANCE DATA

Ultimate Load Capacities for Strap-Toggle in Wallboard¹

Anchor Diameter <i>d</i> in. (mm)	3/8" Wallboard		1/2" Wallboard		5/8" Wallboard		3/4" Wallboard	
	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
3/16 (4.8)	120 (0.5)	240 (1.1)	130 (0.6)	285 (1.3)	195 (0.9)	380 (1.7)	205 (0.9)	440 (2.0)
1/4 (6.4)	130 (0.6)	270 (1.2)	145 (0.7)	295 (1.3)	210 (0.9)	420 (1.9)	215 (1.0)	470 (2.1)
3/8 (9.5)	135 (0.6)	275 (1.2)	150 (0.7)	300 (1.4)	220 (1.0)	420 (1.9)	230 (1.0)	475 (2.1)
1/2 (12.7)	140 (0.6)	290 (1.3)	150 (0.7)	355 (1.6)	220 (1.0)	430 (1.9)	230 (1.0)	485 (2.2)

1. The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.

Allowable Load Capacities for Strap-Toggle in Wallboard¹

Anchor Diameter <i>d</i> in. (mm)	3/8" Wallboard		1/2" Wallboard		5/8" Wallboard		3/4" Wallboard	
	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
3/16 (4.8)	30 (0.1)	60 (0.3)	35 (0.2)	70 (0.3)	50 (0.2)	95 (0.4)	50 (0.2)	110 (0.5)
1/4 (6.4)	35 (0.2)	70 (0.3)	35 (0.2)	75 (0.3)	55 (0.2)	105 (0.5)	55 (0.2)	120 (0.5)
3/8 (9.5)	35 (0.2)	70 (0.3)	40 (0.2)	75 (0.3)	55 (0.2)	105 (0.5)	60 (0.3)	120 (0.5)
1/2 (12.7)	35 (0.2)	75 (0.3)	40 (0.2)	90 (0.4)	55 (0.2)	110 (0.5)	60 (0.3)	120 (0.5)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.

Ultimate and Allowable Load Capacities for Strap-Toggle in Hollow Concrete Masonry^{1,2}

Anchor Diameter <i>d</i> in. (mm)	Drill Bit Diameter <i>d_{bit}</i> in. (mm)	<i>f'_m</i> ≥ 1,500 psi (10.4 MPa)			
		Ultimate Load		Allowable Load	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
3/16 (4.8)	1/2 (12.7)	1,080 (4.9)	740 (3.3)	215 (1.0)	150 (0.7)
1/4 (6.4)	1/2 (12.7)	1,355 (6.1)	1,420 (6.4)	270 (1.2)	285 (1.3)
3/8 (9.5)	3/4 (19.1)	1,435 (6.5)	2,330 (10.5)	285 (1.3)	465 (2.1)
1/2 (12.7)	3/4 (19.1)	1,720 (7.7)	2,980 (13.4)	345 (1.6)	595 (2.7)

1. Tabulated load values are for anchors installed in minimum 6-inch wide, Grade N, Type II, medium and normal-weight concrete masonry units. Mortar must be minimum Type N.

2. Allowable loads are based on average ultimate values using a safety factor of 5.0.

ORDERING INFORMATION

Strap-Toggle (Not packaged with screws)

Cat. No.	Anchor Size	Drill Diameter	Wall Thickness	Std. Box	Std. Carton	Wt./100
4052	3/16" x 4"	1/2"	3/8" - 2 1/2"	50	300	3 1/2
4054	1/4" x 4"	1/2"	3/8" - 2 1/2"	50	300	3 1/2
4056	3/8" x 4"	3/4"	3/8" - 2 1/2"	25	150	5
4058	1/2" x 4"	3/4"	3/8" - 2 1/2"	25	150	5



WALL ANCHORS