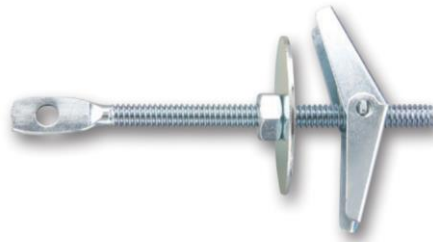


# Metallics

An **AMERICAN** Source For Premier  
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## TIE WIRE ACOUSTICAL TOGGLE BOLTS – STEEL ZINC

The following Specification Sheet applies to all Tie Wire Acoustical Toggle Bolts – Steel Zinc in our JTWA series.



### MATERIAL SPECIFICATIONS

Anchor Component	Component Material
Wing	Carbon Steel
1/8" - 3/8" Trunion Nut	Carbon Steel
1/2" Trunion Nut	Zamac Alloy
Bolt	Carbon Steel
Zinc Plating	ASTM B633, SC1, Type III, (Fe/Zn 5)

### INSTALLATION SPECIFICATIONS

Dimensions		Anchor Diam
		1/4"
Minimum Drill Bit Size (in.)	Wall Board	5/8
	Hollow CMU	3/4
Wing Clearance (in.)		1-1/2
Thread Size (UNC)		1/4-20

## PERFORMANCE DATA

### Ultimate Load Capacities for Toggle Bolt in Wallboard<sup>1</sup>

Anchor Diameter 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)
1/4" (6.4)	215 (1.0)	210 (0.9)	235 (1.1)	235 (1.1)	265 (1.2)	260 (1.2)	315 (1.4)	300 (1.4)

1. Ultimate load capacities are provided for reference and must be reduced by a minimum safety factor of 4.0 or greater to determine allowable working loads.
2. Data for the 1/4" diameter also applies to the 1/4" Tie-Wire Acoustical Toggle.

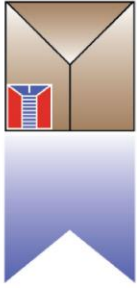
### Metallics

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## Allowable Load Capacities for Toggle Bolt in Wallboard<sup>1</sup>

Anchor Diameter 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)
1/4" (6.4)	55 (0.2)	55 (0.2)	60 (0.3)	60 (0.3)	65 (0.3)	65 (0.3)	80 (0.4)	75 (0.3)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.
2. Data for the 1/4" diameter also applies to the 1/4" Tie-Wire Acoustical Toggle.

## Ultimate and Allowable Load Capacities for Toggle Bolt in Hollow Concrete Masonry<sup>1,2</sup>

Anchor Diameter in. (mm)	$f'm \geq 1,500 \text{ psi (10.4 MPa)}$			
	Ultimate Load		Allowable Load	
	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4" (6.4)	350 (1.6)	595 (2.7)	70 (0.3)	120 (0.5)

1. Tabulated load values are for anchors installed in minimum 6-inch wide, Grade N, Type II, medium and normal-weight concrete masonry units.
2. Allowable loads are based on average ultimate values using a safety factor of 5.0.
3. Data for the 1/4" diameter also applies to the 1/4" Tie-Wire Acoustical Toggle.

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