

**GENERAL INFORMATION**

**SCRU-LEAD™**

Wall Anchor

**PRODUCT DESCRIPTION**

The Scru-Lead anchor is designed for use with sheet metal or wood screws in concrete, block or brick. The anchor is made entirely of lead alloy which is soft enough for easy installation, yet hard enough to give secure holding power. The performance of this product depends on the integrity of the base material. These fasteners are not recommended for use overhead or applications where holding values are critical.

**FEATURES AND BENEFITS**

- + Can be used in a variety of base materials
- + Anchor body is corrosion resistant

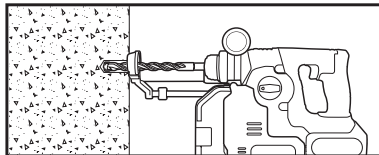
**MATERIAL SPECIFICATIONS**

Anchor Component	Component Material
Anchor Body	Antimonial Lead

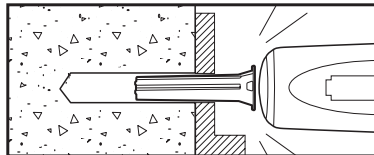
**INSTALLATION SPECIFICATIONS**

Dimensions	Screw Size		
	#6 - #8	#10 - #14	#16 - #18
ANSI Drill Bit Size (in.)	1/4	5/16	15/32
Flange Size (in.)	25/64	1/2	37/64
Screw Size Range (UNC)	#6 - #8	#10 - #14	#16 - #18

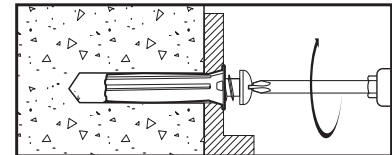
**INSTALLATION GUIDELINES**



Drill a hole into the base material to the depth of embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15.



Remove dust and debris from the hole during drilling (e.g. dust extractor) or following drilling (e.g. suction, forced air) to extract loose particles created by drilling. Insert the anchor into the hole until the flange is seated flush with the surface of the base material.



Position the fixture. Insert the screw tip through the fixture into the anchor and tighten.

**PERFORMANCE DATA**

**Ultimate Load Capacities for Scru-Lead in Normal-Weight Concrete<sup>1,2,3</sup>**

Screw Size Range No.	Minimum Embedment Depth in. (mm)	Minimum Concrete Compressive Minimum Strength (f'c)					
		2,000 psi (13.8 MPa)		4,000 psi (27.6 MPa)		6,000 psi (41.4 MPa)	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
#6 - #8	3/4 (19.1)	160 (0.7)	215 (1.0)	250 (1.1)	215 (1.0)	250 (1.1)	215 (1.0)
#6 - #8	1 (25.4)	220 (1.0)	215 (1.0)	285 (1.3)	215 (1.0)	285 (1.3)	215 (1.0)
#6 - #8	1-1/2 (38.1)	350 (1.6)	215 (1.0)	425 (1.9)	215 (1.0)	425 (1.9)	215 (1.0)
#10 - #14	1 (25.4)	580 (2.6)	575 (2.6)	625 (2.8)	575 (2.6)	625 (2.8)	575 (2.6)
#10 - #14	1-1/2 (38.1)	700 (3.1)	575 (2.6)	800 (3.6)	575 (2.6)	800 (3.6)	575 (2.6)
#16 - #18	1-1/2 (38.1)	920 (4.1)	1,200 (5.4)	1,050 (4.7)	1,200 (5.4)	1,050 (4.7)	1,050 (4.7)

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. Linear interpolation may be used to determine ultimate loads for intermediate compressive strengths.
3. These fasteners are not recommended for use overhead or applications where holding values are critical.

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SCRU-LEAD

**ANCHOR MATERIALS**

- Lead Alloy

**ANCHOR SIZE RANGE (TYP.)**

- No. 6-8 screw x 3/4" length to No. 16-18 screw x 1-1/2" length

**SUITABLE BASE MATERIALS**

- Normal-Weight Concrete
- Concrete Masonry
- Brick Masonry

**PERFORMANCE DATA**

**Allowable Load Capacities for Scru-Lead in Normal-Weight Concrete<sup>1,2,3</sup>**

Screw Size Range No.	Minimum Embedment Depth in. (mm)	Minimum Concrete Compressive Minimum Strength (f'c)					
		2,000 psi (13.8 MPa)		4,000 psi (27.6 MPa)		6,000 psi (41.4 MPa)	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
#6 - #8	3/4 (19.1)	40 (0.2)	55 (0.2)	60 (0.3)	55 (0.2)	60 (0.3)	55 (0.2)
#6 - #8	1 (25.4)	55 (0.2)	55 (0.2)	70 (0.3)	55 (0.2)	70 (0.3)	55 (0.2)
#6 - #8	1-1/2 (38.1)	90 (0.4)	55 (0.2)	105 (0.5)	55 (0.2)	105 (0.5)	55 (0.2)
#10 - #14	1 (25.4)	145 (0.7)	145 (0.7)	155 (0.7)	145 (0.7)	155 (0.7)	145 (0.7)
#10 - #14	1-1/2 (38.1)	175 (0.8)	145 (0.7)	200 (0.9)	145 (0.7)	200 (0.9)	145 (0.7)
#16 - #18	1-1/2 (38.1)	230 (1.0)	300 (1.4)	260 (1.2)	300 (1.4)	260 (1.2)	300 (1.4)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.
2. Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.
3. These fasteners are not recommended for use overhead or applications where holding values are critical.

**Ultimate and Allowable Load Capacities for Scru-Lead in Hollow Concrete Masonry<sup>1,2</sup>**

Screw Size Range No.	Minimum Embedment Depth in. (mm)	f'm ≥ 1,500 psi (10.4 MPa)			
		Ultimate Load		Allowable Load	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
#6 - #8	3/4 (19.1)	70 (0.3)	200 (0.9)	15 (0.1)	40 (0.2)
#10 - #14	1 (25.4)	410 (1.8)	520 (2.3)	80 (0.4)	105 (0.5)
#16 - #18	1-1/2 (38.1)	740 (3.3)	1,000 (4.5)	150 (0.7)	200 (0.9)

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 calculated using applied safety factor of 5.0.
3. These fasteners are not recommended for use overhead or applications where holding values are critical.

**Ultimate and Allowable Load Capacities for Scru-Lead in Solid and Hollow Brick Masonry<sup>1,2</sup>**

Screw Size Range No.	Minimum Embedment Depth in. (mm)	f'm ≥ 1,500 psi (10.4 MPa)			
		Ultimate Load		Allowable Load	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
#6 - #8	3/4 (19.1)	95 (0.4)	200 (0.9)	20 (0.1)	40 (0.2)
#10 - #14	1 (25.4)	340 (1.5)	520 (2.3)	70 (0.3)	105 (0.5)
#16 - #18	1-1/2 (38.1)	890 (4.0)	1,000 (4.5)	180 (0.8)	200 (0.9)

1. Tabulated load values are for anchors installed in Grade SW, solid brick masonry conforming to ASTM C62.
2. Allowable loads are calculated using an applied safety factor of 5.0.
3. These fasteners are not recommended for use overhead or applications where holding values are critical.

**ORDERING INFORMATION**

**Scru-Lead**

Cat No.	Anchor Size	Drill Diameter	Std. Box	Std. Carton
9409	#6 - #8 x 3/4"	1/4"	100	1,000
9414	#6 - #8 x 1"	1/4"	100	1,000
9419	#6 - #8 x 1-1/2"	1/4"	100	500
9429	#10 - #14 x 1"	5/16"	100	1,000
9439	#10 - #14 x 1-1/2"	5/16"	100	600
9460	#16 - #18 x 1-1/2"	3/8"	25	250

