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# Scru-Lead<sup>™</sup> 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. The anchor is recommended for light duty applications where holding power is not a critical factor. It should not be used overhead.

### **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

	Screw Size				
Dimension	#6-#8	#10-#14	#16-#18		
ANSI Drill Bit Size, (in.)	1/4	5/16	3/8		
Flange Size (in.)	25/64	1/2	37/64		
Screw Size Range	#6-#8	#10-#14	#16-#18		

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Scru-Lead

### **ANCHOR MATERIAL**

Lead Alloy

#### **ANCHOR SIZE RANGE (TYP.)**

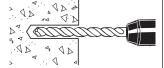
No. 6-8 screw x 3/4" length to No. 16-18 screw x 1 1/2" length

#### **SUITABLE BASE MATERIALS**

Normal-Weight Concrete Concrete Masonry Clay Brick Masonry

#### **Installation Guidelines**

Drill a hole into the base material to the depth of embedment required. The



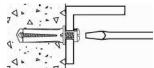
tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15.

Blow the hole clean of dust and other material. Insert the



the hole until the flange is seated flush with the surface of the base material.





### **PERFORMANCE DATA**

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

Screw Size	Minimum	Minimum Concrete Compressive Strength $(f'_c)$					
Range	Embedment Depth	2,000 psi	(13.8 MPa)	4,000 psi	(27.6 MPa)	6,000 psi	(41.4 MPa)
	in. (mm)	Tension Ibs. (kN)	Shear Ibs. (kN)	Tension Ibs. (kN)	Shear Ibs. (kN)	Tension Ibs. (kN)	Shear Ibs. (kN)
#6-#8	3/4 (19.1)	160 (0.7)	215 (1.0)	250 (1.1)	<b>215</b> (1.0)	250 (1.1)	<b>215</b> (1.0)
#6-#8	1 (25.4)	<b>220</b> (1.0)	<b>215</b> (1.0)	<b>285</b> (1.3)	215 (1.0)	<b>285</b> (1.3)	<b>215</b> (1.0)
#6-#8	1 1/2 (38.1)	<b>350</b> (1.6)	215 (1.0)	<b>425</b> (1.9)	215 (1.0)	<b>425</b> (1.9)	<b>215</b> (1.0)
#10-#14	1 (25.4)	<b>580</b> (2.6)	<b>575</b> (2.6)	<b>625</b> (2.8)	<b>575</b> (2.6)	<b>625</b> (2.8)	<b>575</b> (2.6)
#10-#14	1 1/2 (38.1)	<b>700</b> (3.1)	<b>575</b> (2.6)	<b>800</b> (3.6)	<b>575</b> (2.6)	<b>800</b> (3.6)	<b>575</b> (2.6)
#16-#18	1 1/2 (38.1)	920 (4.1)	1,200 (5.4)	1,050 (4.7)	<b>1,200</b> (5.4)	1,050 (4.7)	1,050 (4.7)

<sup>1.</sup> 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.

2. Linear interpolation may be used to determine ultimate loads for intermediate compressive strengths.



### PERFORMANCE DATA

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

Screw Size	_Minimum	Minimum Concrete Compressive Strength (f'c)					
Range	Embedment Depth	<b>2,000 psi</b> (13.8 MPa)		<b>4,000 psi</b> (27.6 MPa)		<b>6,000 psi</b> (41.4 MPa)	
	in. (mm)	Tension Ibs. (kN)	Shear Ibs. (kN)	Tension Ibs. (kN)	Shear Ibs. (kN)	Tension Ibs. (kN)	Shear Ibs. (kN)
#6-#8	3/4 (19.1)	<b>40</b> (0.2)	55 (0.2)	<b>60</b> (0.3)	55 (0.2)	<b>60</b> (0.3)	55 (0.2)
#6-#8	1 (25.4)	55 (0.2)	55 (0.2)	<b>70</b> (0.3)	<b>55</b> (0.2)	<b>70</b> (0.3)	<b>55</b> (0.2)
#6-#8	1 1/2 (38.1)	90 (0.4)	<b>55</b> (0.2)	<b>105</b> (0.5)	<b>55</b> (0.2)	<b>105</b> (0.5)	<b>55</b> (0.2)
#10-#14	1 (25.4)	145 (0.7)	145 (0.7)	<b>155</b> (0.7)	<b>145</b> (0.7)	<b>155</b> (0.7)	145 (0.7)
#10-#14	1 1/2 (38.1)	175 (0.8)	145 (0.7)	<b>200</b> (0.9)	<b>145</b> (0.7)	<b>200</b> (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)

**SPECIFICATION & DESIGN MANUAL** 

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

Screw Size	Minimum	<i>f′<sub>m</sub></i> ≥ <b>1,500 psi</b> (10.4 MPa)					
Range	Embedment Depth in. (mm)	Ultimate Load		Allowable Load			
		Tension Ibs. (kN)	Shear Ibs. (kN)	Tension Ibs. (kN)	Shear Ibs. (kN)		
#6-#8	3/4 (19.1)	70 (0.3)	<b>200</b> (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)		

<sup>1.</sup> 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.

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

Screw Size	Minimum Embedment	<b>f</b> ′ <sub><b>m</b></sub> ≥ <b>1,500 psi</b> (10.4 MPa)					
Range	Depth	Ultimate Load		Allowabl	e Load		
	in. (mm)   Tension   Shear   Ibs. (kN) (kN)			Tension Ibs. (kN)	Shear Ibs. (kN)		
#6-#8	<b>3/4</b> (19.1)	95 (0.4)	<b>200</b> (0.9)	20 (0.1)	40 (0.2)		
#10-#14	1 (25.4)	340 (1.5)	<b>520</b> (2.3)	70 (0.3)	105 (0.5)		
#16-#18	1 1/2 (38.1)	<b>890</b> (4.0)	1,000 (4.5)	180 (0.8)	<b>200</b> (0.9)		

Tabulated load values are for anchors installed in Grade SW, solid brick masonry conforming to ASTM C62.
 Allowable loads are calculated using an applied safety factor of 5.0.

# ORDERING INFORMATION

#### Scru-Lead

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



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Allowable load capacities listed are calculated using an applied safety factor of 4.0.
 Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.