

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. 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

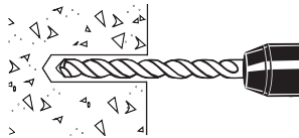
Anchor Component	Component Material
Anchor Body	Antimonial Lead

INSTALLATION SPECIFICATIONS

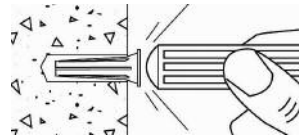
Dimension	Screw Size		
	#6 - #8	#10 - #14	#16 - #18
ANSI Drill Bit Size, (in.)	1/4	5/16	3/8
Flange Size (in.)	25/64	1/2	37/64
Screw Size Range	#6 - #8	#10 - #14	#16 - #18

Installation Guidelines

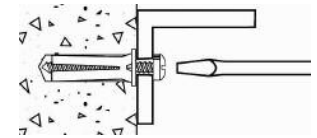
Drill a hole into the base material to the depth of embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15.



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



SECTION CONTENTS	Page No.
General Information	1
Material Specifications	1
Installation Specifications	1
Performance Data	2
Ordering Information	2



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

PERFORMANCE DATA

Ultimate Load Capacities for Scru-Lead in Normal-Weight Concrete^{1,2}

Screw Size Range	Minimum Embedment Depth in. (mm)	Minimum Concrete Compressive 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. 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^{1,2}

Screw Size Range	Minimum Embedment Depth in. (mm)	Minimum Concrete Compressive 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.

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

Screw Size Range	Minimum Embedment Depth in. (mm)	$f_m \geq 1,500$ 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.

Ultimate and Allowable Load Capacities for Scru-Lead in Solid and Hollow Clay Brick Masonry^{1,2}

Screw Size Range	Minimum Embedment Depth in. (mm)	$f_m \geq 1,500$ 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.

ORDERING INFORMATION

Scru-Lead

Cat. No.	Anchor Size	Drill Diameter	Package Quantity	Package Type	Wt./100
1102	#6 - #8 x 3/4"	1/4"	100	Box	1 1/4
1104J	#6 - #8 x 1"	1/4"	100	Jar	1 1/2
9419J	#6 - #8 x 1 1/2"	1/4"	100	Jar	2
1114J	#10 - #14 x 1"	5/16"	100	Jar	2
1116	#10 - #14 x 1 1/2"	5/16"	100	Box	3
9439J	#10 - #14 x 1 1/2"	5/16"	100	Jar	3
1126	#16 - #18 x 1 1/2"	3/8"	50	Box	2 1/4

