

Bantam Plug *Plastic Wall Anchor*

PRODUCT DESCRIPTION

The Bantam Plug is a plastic anchor designed for use with lightweight fixtures. It can be used in concrete, block and brick. It is also suggested for use in wallboard. Holding values in wallboard tend to be inconsistent, whereas, other Powers products may be more appropriate. The Bantam Plug anchor is injection molded from an engineered plastic and is designed to be used in conjunction with a sheet metal or wood screw. The Bantam Plug is recommended for light duty static applications where holding power is not a critical factor. It should not be used overhead.

FEATURES AND BENEFITS

- Performs well in most base material
- Anchor body is resistant to corrosion from moisture

MATERIAL SPECIFICATIONS

Anchor Component	Component Material
Anchor Shield	Engineered Plastic

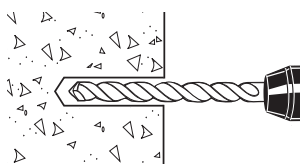
INSTALLATION SPECIFICATIONS

Installation Specifications

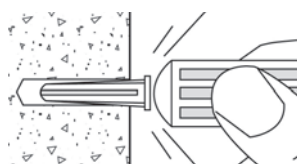
Dimension	Screw Size			
	#6-#8	#8-#10	#10-#12	#14-#16
ANSI Drill Bit Size, (in.)	3/16	3/16	1/4	5/16
Flange Size (in.)	19/64	19/64	3/8	7/16
Screw Size Range (No.)	#6-#8	#8-#10	#10-#12	#14-#16
Overall Length (in.)	3/4	7/8	1	1-1/2

Installation Guidelines

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



Blow the hole clean of dust and other material. Tap the anchor into the hole until it is flush with the surface of the base material.



Position the fixture, then insert the proper size screw through the fixture into the top of the anchor and tighten. Be sure screw thread fully engages the anchor body.



Bantam Plug

ANCHOR MATERIAL

Engineered Plastic

ANCHOR SIZE RANGE (TYP.)

No. 6-8 screw x 3/4" length to
No. 14-16 screw x 1-1/2" length

SUITABLE BASE MATERIALS

Normal-Weight Concrete
Hollow Concrete Masonry
Solid or Hollow Brick Masonry
Gypsum Wallboard

PERFORMANCE DATA

Ultimate Load Capacities for Bantam Plug in Normal-Weight Concrete^{1,2}

Screw Size Range No.	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)	185 (0.8)	215 (1.0)	210 (0.9)	240 (1.1)	225 (1.0)	240 (1.1)
#8-#10	7/8 (22.2)	270 (1.2)	235 (1.1)	340 (1.5)	280 (1.3)	420 (1.9)	280 (1.3)
#10-#12	1 (25.4)	350 (1.6)	280 (1.3)	550 (2.5)	350 (1.6)	640 (2.9)	350 (1.6)
#14-#16	1 1/2 (38.1)	840 (3.8)	530 (2.4)	840 (3.8)	575 (2.6)	900 (4.1)	575 (2.6)

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 Bantam Plug in Normal-Weight Concrete^{1,2}

Screw Size Range No.	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)	45 (0.2)	55 (0.2)	55 (0.2)	60 (0.3)	55 (0.2)	60 (0.3)
#8-#10	7/8 (22.2)	65 (0.3)	60 (0.3)	85 (0.4)	70 (0.3)	105 (0.5)	70 (0.3)
#10-#12	1 (25.4)	90 (0.4)	70 (0.3)	140 (0.6)	90 (0.4)	160 (0.7)	90 (0.4)
#14-#16	1 1/2 (38.1)	210 (0.9)	135 (0.6)	210 (0.9)	145 (0.7)	225 (1.0)	145 (0.7)

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 Bantam Plug in Hollow Concrete Masonry^{1,2,3}

Screw Size Range No.	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)	180 (0.8)	215 (1.0)	35 (0.2)	45 (0.2)
#8-#10	7/8 (22.2)	290 (1.3)	235 (1.1)	60 (0.3)	45 (0.2)
#10-#12	1 (25.4)	350 (1.6)	280 (1.3)	70 (0.3)	55 (0.2)
#14-#16	1 1/2 (38.1)	840 (3.8)	530 (2.4)	170 (0.8)	105 (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 for anchors and are based on average ultimate values using a safety factor of 5.0.

3. Anchors installed flush with face shell surface.

Ultimate and Allowable Load Capacities for Bantam Plug in Solid and Hollow Clay Brick Masonry^{1,2}

Screw Size Range No.	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)	100 (0.5)	230 (1.0)	20 (0.1)	45 (0.2)
#8-#10	7/8 (22.2)	160 (0.7)	260 (1.2)	30 (0.1)	50 (0.2)
#10-#12	1 (25.4)	280 (1.3)	320 (1.4)	55 (0.2)	65 (0.3)
#14-#16	1 1/2 (38.1)	880 (4.0)	500 (2.3)	175 (0.8)	100 (0.5)

1. Tabulated load values are for anchors installed in Grade SW multiple wythe, solid and hollow brick masonry conforming to ASTM C62.

2. Allowable loads are calculated using an applied safety factor of 5.0.

ORDERING INFORMATION

Bantam Plug (Not packaged with screws)

Cat. No.	Anchor Size	Drill Diameter	Std. Box	Std. Carton	Wt./100
7559	#6-#8 x 3/4"	3/16"	100	1,000	1
7569	#8-#10 x 7/8"	3/16"	100	1,000	1 1/2
7579	#10-#12 x 1"	1/4"	100	1,000	3
7589	#14-#16 x 1-1/2"	5/16"	50	500	6



Master Pack

Cat. No.	Kit No.	Anchor Size	Screw Size	Anchors & Screws	Std. Box	Std. Carton	Wt./100
8934	B-8	#8-#10	#8 x 1"	100	1	10	9 1/2
8936	B-10	#10-#12	#10 x 1"	100	1	10	12
8938	B-12	#10-#12	#12 x 1"	100	1	10	14

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