

Vertigo™ Rod Hangers

PRODUCT DESCRIPTION

Vertigo is an all steel threaded fastening system for suspending steel threaded rod vertically overhead in pipe hanging, fire protection, electrical conduit and cable-tray applications. Vertigo are available in three versions which can be installed in a variety of base materials including steel purlins, bar joists and beams, wood frame columns and beams, as well as concrete ceilings, beams and columns.

Steel threaded rods in 1/4", 3/8" and 1/2" diameters can be vertically suspended with Vertigo. In wood and steel base materials, Vertigo is also offered in a side mount style for lateral installation of 1/4" and 3/8" diameter steel threaded rods onto joists, columns and overhead members. For all steel and wood Vertigo fasteners, a universal Vertigo Socket Driver is recommended to provide proper installation with a screw gun or hammer drill. Concrete Vertigo fasteners should be installed with the appropriate size standard drive sockets and adjustable torque, battery powered screw gun or hammer drill.

GENERAL APPLICATIONS AND USES

- Hanging Pipe and Sprinkler Systems
- Lighting Systems and Overhead Utilities
- Suspended Ceilings

Suspending Conduit and Cable Trays

PRODUCT INFORMATION

- HVAC Ductwork and Strut Channels
- Mounting Security Equipment

FEATURES AND BENEFITS

- + One system for all rod hanging applications in steel, wood and concrete
- + Ease and speed of overhead installation
- + Lower in-place cost, when compared to beam clamps, lag bolts and dropins
- + Steel and wood Vertigo can be installed with a screw gun or hammer drill
- + Concrete Vertigo can be installed with an adjustable torque, battery powered screw gun or hammer drill
- + Side mount versions available for steel and wood Vertigo
- + The universal socket can be used for the steel and wood Vertigo

APPROVALS AND LISTINGS

FM Approvals (FM) - (see listing for applicable sizes and types).

Pipe Hangers components for automatic sprinkler systems - File No. JI 3015153

Underwriters Laboratory (UL) - (see listing for applicable sizes and types).

Pipe Hangers - File No. EX 1289 Luminaire - File No. E362339

GUIDE SPECIFICATIONS

CSI Divisions: 03 16 00 - Concrete Anchors, 05 05 19 - Post-Installed Concrete Anchors, 05 05 23 - Metal Fastenings and 06 05 23 - Wood, Plastic, and Composite Fastenings. Rod Hangers shall be Vertigo anchors as supplied by Powers Fasteners, Inc., Brewster, NY.

Canada: (905) 673-7295 or (514) 631-4216

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Steel Vertigo



Wood Vertigo



Concrete Vertigo (Wedge-Bolt OT)

ANCHOR MATERIALS

Zinc Plated Carbon Steel

ANCHOR SIZE RANGE (TYP.)

1/4" to 1/2" for Steel 1/4" to 1/2" for Wood 1/4" to 1/2" for Concrete

SUITABLE BASE MATERIALS

Steel Purlins and Beams Wood and Timber Normal-Weight concrete Structural Lightweight concrete Hollow Core Concrete Plank



INSTALLATION SPECIFICATIONS

Steel Vertigo

Point Style	#3	#5		
Self Drilling Range	0.036" (20 gauge) – 0.188" (3/16")	0.188" (3/16") — 0.500" (1/2")		
Screw Size (UNC)	1/4-20 thread	1/4-20 thread		
Root Diameter (in.)	13/64	13/64		
Thread Length (in.)	1-3/16" (1-1/2"screw)	31/32" (1-1/2"screw)		
Flange Thickness (in.)	1/16	1/16		
Drill Speed (RPM)	500-1,500	500-1,500		

Install with universal steel and wood socket.

Wood Vertigo

Screw Size	1/4" Thread Forming	5/16" Thread Forming		
Pre-drill Diameter (in.) (if required)	1/8	1/8		
Point Style	Type 17	Type 17		
Root Diameter (in.)	3/16	7/32		
Thread Length (in.)	Screw length less 5/16	Screw length less 5/16		
Flange Thickness (in.)	1/16	1/16		

Install with universal steel and wood socket.

Vertigo Couplings (Steel & Wood)

Screw Size	1/4"	3/8"	1/2"	1/4"	3/8"
Coupling Size and Type	Vertical	Vertical	Vertical	Side	Side
Thread Size (UNC)	1/4-20	3/8-16	1/2-13	1/4-20	3/8-16
Thread Depth (in.)	3/8	3/8	3/8	5/8 (through)	5/8 (through)
Width (flat to flat) (in.)	5/8	5/8	5/8	5/8	5/8
Height (in.)	13/16	13/16	13/16	13/16	13/16

Concrete Vertigo (Wedge-Bolt OT)

Rod Diameter/Anchor Size	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Overall Screw Shank Length	1-1/4	1-1/2	2-3/4
Anchor Thread Length (in.)	1-1/8	1-3/8	2-1/2
Root Diameter (in.)	15/64	15/64	23/64
Coupling / Washer Height (in.)	27/64	9/16	53/64
Integral Washer O.D. (in.)	31/64	39/64	31/32
Coupling Thread Size (UNC)	1/4-20	3/8-16	1/2-13
Coupling Thread Depth (in.)	3/8	1/2	3/4
Socket Driver Size (in.)	3/8	1/2	11/16

Install with universal steel and wood socket.

Installation Guidelines

When installing Vertigo fasteners, eye protection should be worn as a safety precaution.

If pre-drilling is required (certain types of wood truss/wood joist and all

concrete base materials), select the recommended drill bit type and diameter. For Concrete Vertigo only, drill to the appropriate embedment depth, adding at least one diameter (1/4" to 1/2") to the drilling depth to prevent the tip of the fastener from running into a dead end at the rear of the anchor

Select the appropriate socket driver for the anchor size and type to be installed and mount into chuck of installation tool. Insert the Vertigo fastener into the socket driver, and install perpendicular to the base material surface. Drive the fastener with a

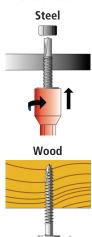
smooth steady motion until the coupling is firmly seated against the surface of the base material.

Thread the appropriate diameter steel threaded rod or threaded bolt into the coupling. The threaded rod or bolt should fully engage the thread length of the coupling on a vertical mount fastener. The threaded rod or threaded portion of the bolt can pass through coupling of a side mount fastener.

For UL and FM listings for Pipe Hangers, Steel Vertigo should be installed with a retaining nut.



Concrete



MATERIAL SPECIFICATIONS

Steel and Wood Vertigo

Component Material				
Screw Body	AISI 1018-1022 (Case Hardened)			
Coupling	AISI 1018-1022 (Case Hardened)			
Zinc Plating	ASTM B633, SC1, Type III (Fe/Zn5)			

Concrete Vertigo (Wedge-Bolt OT)

Canada: (905) 673-7295 or (514) 631-4216

Component	Component Material
Anchor Body	Case Hardened 10B21 Carbon Steel
Zinc Plating	ASTM B633, SC1, Type III (Fe/Zn 5)



PERFORMANCE DATA

Steel Vertigo – Ultimate Tension Load Capacities when Installed in Minimum ASTM A 36 Steel (Beams) and ASTM A 572 Steel (Purlins)1,2

Anchor Size /			Minimum Steel Gauge (Thickness)						
Rod Diameter in.	Mount Direction	Screw Shank Size and Length	20 0.036"	18 0.048"	16 0.060"	14 0.075"	12 0.105"	3/16" 0.187"	1/4" 0.250"
(mm)	Direction		lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)
1/4 (6.4)	Vertical	1/4-20 x 1" (w/nut)	1.550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Vertical	1/4-20 x 1"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	3,205 (14.4)	5,040 (22.7)
	Side	1/4-20 x 1" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Vertical	1/4-20 x 1" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Side	1/4-20 x 1-1/2"(w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
3/8 (9.5)	Vertical	1/4-20 x 1-1/2"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	3,205 (14.4)	-
	Side	1/4-20 x 1-1/2"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	1,965 (8.8)	-
	Vertical	1/4-20 x 2" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
1/2	Vertical	12-20 x 1-1/2"	495 (2.20	710 (3.2)	920 (4.1)	1,560 (7.0)	2,050 (9.2)	3,280 (14.8)	5,040 (22.7)
(12.7)	Vertical	12-20 x 1-1/2"(w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-

^{1.} For Steel Vertigo loaded perpendicular to threaded rod (shear) the ultimate load capacity for the anchor is 1,965 lbs in nominal 20 gage steel (0.036")

Wood Vertigo – Ultimate Tension Load Capacities when Installed in Wood Base Materials (Structural Wood and Timber)^{1,2}

Anchor Size /			Embedment Depth	Wood Member (Type)			
Rod Diameter	Mount	Screw Shank Size	in.	Fir	Pine	Spruce	
in. (mm)	Direction	and Length	(mm)	lbs. (kN)	lbs. (kN)	lbs. (kN)	
1/4	Vertical	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)	
(6.4)	Side	1/4 x 2"	2 (50.8)	1,510 (6.8)	1,510 (6.8)	1,510 (6.8)	
	Vertical	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)	
	Side	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)	
	Vertical	1/4 x 2"	2 (50.8)	1,510 (6.8)	1,510 (6.8)	1,510 (6.8)	
3/8	Side	1/4 x 2"	2 (50.8)	1,800 (8.1)	1,800 (8.1)	1,800 (8.1)	
(9.5)	Vertical	1/4 x 3"	3 (76.2)	2,075 (9.3)	1,510 (6.8)	1,510 (6.8)	
	Vertical	1/4 x 4"	4 (101.6)	2,075 (9.3)	1,510 (6.8)	1,510 (6.8)	
	Vertical	5/16" x 2-1/2"	2-1/2 (63.5)	2,670 (12.0)	3,110 (14.0)	3,110 (14.0)	
	Side	3/8" x 2-1/2"	2-1/2 (63.5)	1,450 (6.5)	1,530 (6.9)	1,380 (6.2)	
1/2 (12.7)	Vertical	5/16" x 2-1/2"	2-1/2 (63.5)	2,670 (12.0)	3,110 (14.0)	3,110 (14.0)	

^{1.} Truss/joist manufacturers may require pre-drilled holes with wood depending on the location of the anchor installation. Consult with the truss/joist manufacturer for details. 2. Wood Vertigo are recommended to be installed with the Universal Steel & Wood Nut Driver.



PERFORMANCE DATA

Concrete Vertigo – Ultimate Load Capacities when Installed in Normal-Weight Concrete^{1,2}

A	Anchor Size /				Embed. Depth	Minimum Concrete Compressive Strength (f c)					
	Diameter	Mount	Screw Shank Size	ANSI Drill Bit Diameter	h _v	2,000 psi (13.8 MPa)		4,000 psi (20.7 MPa)		6,000 psi (41.4 MPa)	
	in.	Direction	and Length	dbit	in.	Tension	Shear	Tension	Shear	Tension	Shear
	(mm)		in.	(mm)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	
	1/4 (6.4)	Vertical	1/4" x 1-1/4"	1/4"	1-1/4 (31.8)	1,390 (6.3)	1,810 (8.1)	1,950 (8.8)	2,440 (11.0)	2,070 (9.3)	2,570 (11.6)
	3/8 (9.5)	Vertical	1/4" x 1-1/2"	1/4"	1-1/2 (38.1)	1,760 (7.9)	2,580 (11.6)	2,595 (11.7)	2,640 (11.9)	2,770 (12.5)	2,700 (12.2)
(1/2 12.7)	Vertical	3/8" x 2-3/4"	3/8"	2-3/4 (69.9)	5,320 (23.9)	5,250 (23.6)	6,050 (27.2)	6,330 (28.5)	8,620 (38.8)	7,410 (33.0)

^{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.

Concrete Vertigo – Ultimate Load Capacities when Installed Through Metal Deck into Structural Lightweight Concrete^{1,2,3,4}

Anchor Size / Rod Diameter d in. (mm)	Embedment Depth	Lightweight Concrete Over Minimum 20 Ga. Metal Deck f'c ≥ 3,000 psi (20.7 MPa)			
	h _v	Minimum 4 1/2	2" Wide Deck		
	in. (mm)	Tension lbs.	Load at 45° lbs.		
	(······y	(kN)	(kN)		
1/4 (6.4)	1-1/4 (31.8)	800 (3.6)	1,140 (5.1)		
3/8 (9.5)	1-1/2 (38.1)	1,780 (8.0)	1,500 (6.8)		
1/2 (12.7)	2-3/4 (69.9)	3,880 (17.5)	2,920 (13.1)		

^{1.} The values listed above are ultimate and allowable load capacities for Vertigo rod hangers installed in sand-lightweight concrete.

Concrete Vertigo – Ultimate Tension Load Capacities when Installed in Hollow Core Concrete Plank^{1,2}

Anchor Size / Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	ANSI Drill Bit Diameter d _{bit} in.	Embedment Depth h _v in. (mm)	Center of Web lbs. (kN)	Center of Core lbs. (kN)
1/4 (6.4)	Vertical	1/4" x 1-1/4"	1/4"	1-1/4 (31.8)	2,775 (12.3)	1,920 (8.5)
3/8 (9.5)	Vertical	1/4" x 1-1/2"	1/4"	1-1/2 (38.1)	3,700 (16.5)	2,570 (11.4)
1/2 (12.7)	Vertical	3/8" x 2-3/4"	3/8″	2-3/4 (69.9)	8,240 (36.7)	3,480 (15.5)

^{1.} Tabulated load values are for anchors installed in 8-inch-thick hollow core plank with minimum compressive strength of 5,000 psi at the time of installation. The 4' x 6' normal-weight concrete members features include 1-1/2" cover above and below cores and a minimum web thickness of 1-1/2".

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

^{2.} The metal deck shall be minimum No. 20 gauge thick steel [0.035-inch base metal thickness (0.89 mm)] conforming to ASTM A 653/ A 653M.

^{3.} 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.

^{4.} The tabulated load values are for anchors installed with a minimum flute edge distance of 1-1/2-inch.

^{2.} 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.



PERFORMANCE DATA

Steel Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) and Underwriter's Laboratories (UL) Listings for Pipe Hangers¹

Cat. No.	Anchor Size / Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	Point Style	Maximum Pipe Size in. (mm)	UL Minimum Steel Thickness in. (mm)	UL Test Load lbs. (kN)	FM Minimum Steel Thickness in. (mm)	FM Test Load lbs. (kN)
7158		Vertical	1/4-20 x 1"	#3	4	0.060	1,500	0.096	1,475
7 150]	vertical	174 ZO X 1	113	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7184		Side	1/4-20 x 1"	#3	4	0.060	1,500	0.096	1,475
7104		Side	1/4-20 X I	#3	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7160		Vertical	1/4-20 x 1-1/2"	#3	4	0.060	1,500	0.096	1,475
7100		vertical			(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7186	3/8 Side	1/4-20 x		4	0.060	1,500	0.096	1,475	
/100	(9.5)	side	1-1/2"	#3	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7154] [Vertical	12 20 1 1/2"	#5	4	0.060	1,500	0.096	1,475
/154		vertical	12-20 x 1-1/2"	#3	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7188		Side	1/4-20 x 2"	#3	4	0.060	1,500	0.096	1,475
/100		side	1/4-20 X Z	#3	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7201] [Cido	12 20 v 1 1/2"	μг	4	0.060	1,500	0.096	1,475
7201	1	Side 12-	12-20 x 1-1/2"	#5	(101.6)	(1.5)	(6.8)	(2.4)	(6.6)
7161	1/2	Vartical	12 20 1 1/2"	2" #5	8	0.250	4,050	0.250	3,800
7161	(12.7)	Vertical	12-20 x 1-1/2"		(203.2)	(6.4)	(18.2)	(6.4)	(17.1)

^{1.} Steel Vertigo anchors are recommended to be installed with the Universal Steel & Wood Nut Driver. For UL and FM listings, Steel Vertigo must be installed with a retaining nut.

Wood Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) and Underwriter's Laboratories (UL) Listings for Pipe Hangers¹

Cat. No.	Anchor Size / Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	Embedment Depth in. (mm)	UL Maximum Pipe Size in. (mm)	UL Test Load lbs. (kN)	FM Maximum Pipe Size in. (mm)	FM Test Load lbs. (kN)
7165		Vertical	1/4 x 2"	2	3	1,050	-	
7105		Vertical	1/4 X Z	(50.8)	(76.2)	(4.7)		
7170		Side	1/4 x 2"	2	3	1,050	_	
7170		Side	1/4 X Z	(50.8)	(76.2)	(4.7)	-	
7167		Vertical	1/4 x 3"	3	3	1,050	_	
/10/	3/8	Vertical	1/4 X 3	(76.2)	(76.2)	(4.7)	-	-
7169	(9.5)	Vertical	1/4 x 4"	4	3	1,050		
7109		Vertical	1/4 X 4	(101.6)	(76.2)	(4.7)	-	-
7160		Vertical	5/16" x 2-1/2"	2-1/2	4	1,500	4	1,475
7162		Vertical	3/10 X Z-1/Z	(63.5)	(101.6)	(6.8)	(101.6)	(6.6)
7156		Side	5/16" x 2-1/2"	2-1/2	4	1,500		
7130		side	3/10 X Z-1/Z	(63.5)	(101.6)	(6.8)	-	-

^{1.} Wood Vertigo anchors are recommended to be installed with the Universal Steel & Wood Nut Driver. No pre-drilling was done in the wood base materials.

Concrete Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) Listings for Pipe Hangers¹

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Cat. No.	Anchor Size / Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	ANSI Drill Bit Diameter d _{bit} in.	Embedment Depth in. (mm)	FM Maximum Pipe Size in. (mm)	FM Test Load lbs. (kN)		
7173	3/8 (9.5)	Vertical	1/4" x 1-1/2"	1/4"	1-1/2 (38.1)	4 (101.6)	1,475 (6.6)		
7175	1/2 (12.7)	Vertical	3/8" x 2-3/4"	3/8"	2-3/4 (69.9)	4 (203.2)	3,800 (17.1)		

^{1.} Tabulated load values are for anchors installed in 8 inch thick hollow core plank with minimum compressive strength of 4,000 psi at the time of installation. The 4' x 6' normal-weight concrete

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PERFORMANCE DATA

Steel Vertigo - Ultimate Load Capacities for Underwriter's Laboratories (UL) Listings - Luminaire¹

Catalog Number	Anchor Size/Rod Dia. In. (mm)	Mount Direction	Screw Shank Size and Length	Point Style	Mounting Surface	UL Test Load (lb.)
7155	1/4	Vertical	1/4-20 x 1	#3	16 Gauge Steel	45
7157	3/8	Vertical	1/4-20 x 2	#3	16 Gauge Steel	45
7158	3/8	Vertical	1/4-20 x 1	#3	16 Gauge Steel	45
7159	3/8	Vertical	1/4-20 x 1-1/2	#3	16 Gauge Steel	45
7160	1/4	Vertical	1/4-20 x 1-1/2	#3	16 Gauge Steel	45
7183	1/4	Side	1/4-20 x 1	#3	16 Gauge Steel	75
7184	3/8	Side	1/4-20 x 1	#3	16 Gauge Steel	75
7186	3/8	Side	1/4-20 x 1-1/2	#3	16 Gauge Steel	75
7188	3/8	Side	1/4-20 x 2	#3	16 Gauge Steel	75
7155	1/4	Vertical	1/4-20 x 1	#3	22 Gauge Steel	25
7157	1/4	Vertical	1/4-20 x 2	#3	22 Gauge Steel	25
7158	3/8	Vertical	1/4-20 x 1	#3	22 Gauge Steel	25
7159	3/8	Vertical	1/4-20 x 1-1/2	#3	22 Gauge Steel	25
7160	3/8	Vertical	1/4-20 x 1-1/2	#3	22 Gauge Steel	25
7183	1/4	Side	1/4-20 x 1	#3	22 Gauge Steel	45
7184	3/8	Side	1/4-20 x 1	#3	22 Gauge Steel	45
7186	3/8	Side	1/4-20 x 1-1/2	#3	22 Gauge Steel	45
7188	3/8	Side	1/4-20 x 2	#3	22 Gauge Steel	45

^{1.} Steel Vertigo anchors are recommended to be installed with the Universal Steel & Wood Nut Driver. For UL Luminaire listing, Steel Vertigo does not require a retaining nut.

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ORDERING INFORMATION

Steel Vertical Hanger (#3 for Purlins, #5 for Beams)

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Self Drilling Range	Std. Box	Std. Ctn.
7155	1/4"	1/4"-20 x 1"	#3	_	100	500
7157	3/8"	1/4"-20 x 2"	#3	0.036"	100	500
7158	3/8"	1/4"-20 x 1" (w/nut)	#3	(20 gauge) to 0.188"	100	500
7159	3/8"	1/4"-20 x 1-1/2" (w/nut)	#3	(3/16")	100	500
7160	3/8"	1/4"-20 x 1-1/2" (w/nut)	#3	(=,	100	500
7152	1/4"	12"-20 x 1-1/2"	#5	0.400" (2.46") .	100	500
7154	3/8"	12"-20 x 1-1/2" (w/nut)	#5	0.188" (3/16") to 0.500" (1/2")	100	500
7161	1/2"	12"-20 x 1-1/2" (w/nut)	#5	0.500 (1/2)	100	500



Steel Side Hanger (#3 for Purlins, #5 for Beams)

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Self Drilling Range	Std. Box	Std. Ctn.
7183	1/4"	1/4"-20 x 1"	#3	0.036"	100	500
7184	3/8"	1/4"-20 x 1" (w/nut)	#3	(20 gauge) to	100	500
7186	3/8"	1/4"-20 x 1-1/2" (w/nut)	#3	0.188"	100	500
7188	3/8"	1/4"-20 x 2" (w/nut)	#3	(3/16")	100	500
7200	1/4"	12"-20 x 1-1/2"	#5	0.188" (3/16") to	50	300
7201	3/8"	12"-20 x 1-1/2" (w/nut)	#5	0.500" (1/2")	100	600



Wood Vertical Hanger

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Pre-Drill Diameter (If Required)	Std. Box	Std. Ctn.
7163	1/4"	1/4" x 2"	Type 17		100	500
7203	3/8"	1/4" x 1"	Type 17		100	500
7165	3/8"	1/4" x 2"	Type 17		100	500
7167	3/8"	1/4" x 3"	Type 17	1/8"	100	500
7169	3/8"	1/4" x 4"	Type 17		100	500
7162	3/8"	5/16" x 2-1/2"	Type 17		100	500
7164	1/2"	5/16" x 2-1/2"	Type 17		100	500



Wood Side Hanger

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Pre-Drill Diameter (If Required)	Std. Box	Std. Ctn.
7185	1/4"	1/4" x 1"	Type 17		100	500
7205	3/8"	1/4" x 1"	Type 17	1/8"	100	500
7170	3/8"	1/4" x 2"	Type 17	1/8	100	500
7156	3/8"	5/16" x 2-1/2"	Type 17		100	500



Concrete Vertical Hanger

Cat. No.	Rod Dia.	Screw Shank Size and Length	Thread Style	Pre-Drill Diameter (If Required)	Std. Box	Std. Ctn.
7171	1/4"	1/4" x 1-1/4"	Wedge-Bolt OT	1/4" ANSI	100	500
7173	3/8"	1/4" x 1-1/2"	Wedge-Bolt OT	1/4" ANSI	100	500
7175	1/2"	1/4" x 2-3/4"	Wedge-Bolt OT	3/8" ANSI	50	250



Drive Sockets and Pole Tool

Cat. No.	Description	RPM	Std. Box	Std. Ctn.
7166	6'-12' Pole Tool (includes three Jaw Chuck)	N/A	1	1
7187	Universal Steel & Wood Socket (Red)	500 to 1500 RPM	5	25
7195	1/4" Concrete Socket (Blue)	-	5	25
7197	3/8" Concrete Socket (Blue)	-	5	25
7198	1/2" Concrete Socket (Blue)	-	5	25



Concrete Vertigo Installation Accessories

Cat. No.	Description	Maximum Bit Length	Std. Box	Std. Ctn.
5864	Vertigo Installation Kit: 1/4" and 3/8" Concrete Drive Sockets (Blue) Universal Steel & Wood Socket (Red) (Sleeve Assembly (same as Cat# 5874)	6"	1	3/4
5874	Sleeve Assembly (5-3/4")	6"	1	-
Cat. No.	Description	Usable Length	Std. Tube	Wt./10
5866	1/4" x 6" Hex Shank SDS Drill Bit	4"	1	1/2



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