

WOOD

STEEL

NEW! CONCRETE  
VERTIGO<sup>+</sup>

CODE LISTED  
KC-ES ESR-2989

CONCRETE

# VERTIGO

Rod Hanging System

Powers is a proud member of:



**Powers**  
FASTENERS



A domestic  
company  
headquartered  
in Brewster, NY

# Vertigo®

S I M P L E R O D

## What is Vertigo?

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 can be installed in a variety of base materials including steel 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 trusses. For all steel and wood Vertigo fasteners, a 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, screw gun or hammer drill.

## Labor Savings

### SAVE MORE THAN 50% IN INSTALLATION COSTS

STEEL BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED COST	INSTALLATION	TYPICAL COST INSTALLED (3/8" SIZE)				
				LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Steel</b> Vertigo	Fast	Low	Very Easy	\$0.77	1	\$0.77	\$0.54	\$1.31
Beam Clamp	Slow	High	Hard	\$0.77	4	\$3.08	\$0.39	\$3.47

**SAVE \$2.16 SAVE 63%**

WOOD BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED COST	INSTALLATION	TYPICAL COST INSTALLED (3/8" SIZE)				
				LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Wood</b> Vertigo	Fast	Low	Easy	\$0.77	1	\$0.77	\$0.54	\$1.31
I-Beam Connector	Medium	High	Medium	\$0.77	3	\$2.31	\$0.33	\$2.64
Post Screw Rod	Medium	High	Medium	\$0.77	3	\$2.31	\$0.33	\$2.64

**SAVE \$1.35 SAVE 52%**

CONCRETE BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED COST	INSTALLATION	TYPICAL COST INSTALLED (3/8" SIZE)				
				LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Concrete</b> Vertigo	Medium	Low	Easy	\$0.77	5	\$3.85	\$0.55	\$4.40
Steel Dropin	Slow	High	Hard	\$0.77	11	\$8.47	\$0.48	\$8.95

**SAVE \$4.55 SAVE 51%**

\*Labor rates based on ENR 20-City average of hourly pay scales for Electricians, Plumbers and Steamfitters, report dated June 2002.

## What is Vertigo For?

- Pipe hanging
- Conduit
- Eye rod
- Cable Trays
- Lighting systems
- Strut channels
- Overhead utilities
- Sprinkler systems
- Drop ceilings
- HVAC Duct
- Electrical
- Refrigeration



## Who Uses Vertigo?

- Plumbers
- Maintenance Contractors
- Electricians
- Sprinkler Contractors
- Mechanical Contractors
- HVAC Contractors

## Why Vertigo?

Competitive advantages:

- Lower "IN-PLACE" cost
- Simple to install
- FAST
- 1 Socket for Wood & Steel
- 1 system for all rod hanging
- Powers Support
- 15 year performance warranty

# Vertigo®

H A N G I N G S Y S T E M

Frequently Asked Questions

## 1. Where can I buy Powers Vertigo Hangers?

You can buy them at any Powers distributor or go to our website ([www.powers.com](http://www.powers.com)) and contact any one of our factory locations for a distributor near you. Or simply call 1-800-524-3244 (See back page for Branch Information).

## 2. How difficult is it to use the setting tools and should they be used? ...Hangermate® and Sammy Super Screw® have several drivers and tools

Vertigo Drivers should always be used. For wood and steel Vertigo there is only one driver, so it's easy. For concrete, each of the 3 sizes has it's own driver. For wood and steel Vertigo the driver allows the coupler to spin free of the driver without stripping or overdriving the fastener. For Vertigo+ there is only one driver size.

All Steel and Wood Vertigos are driven with the same universal driver:  
7187 Socket Driver for Steel and Wood Vertigo

Each size concrete Vertigo (1/4", 3/8", 1/2") has its own driver:

7195 Socket for Concrete Vertigo 1/4" (3/8" standard socket)

7197 Socket for Concrete Vertigo 3/8" (1/2" standard socket)

7198 Socket for Concrete Vertigo 1/2" (11/16" socket)

7180SD, 7181SD, 7182SD Socket for Vertigo+ 1/4", 3/8", 1/2" (11/16" Socket)

## 3. What type of drill should be used to install steel and wood Vertigo?

It is especially important when driving Steel Vertigo or any drill screw to use a low RPM drill to keep the points from wearing prematurely. The RPM allows the case hardened drill tip to do it's job, especially in thicker steel.

Cordless: 12, 14, 18 volt @ 1500-1800 RPM with variable speed

Corded: 4.5-6 amp @ 1500-1800 RPM with variable speed

\*For 1/4" and 3/8" Concrete Vertigo the same tool can be used but must be torque adjustable.

## 4. Can Concrete Vertigo be installed with Powers 3000 Tool Catalog #5865?

Yes, both the 1/4" and 3/8" Concrete Vertigo's can be drilled with a 1/4" x 6" Hex ANSI bit (catalog# 5866) They are installed by inserting the Vertigo socket into the 3000 extension tool and sliding over the drill bit. This allows you to drill and drive with one tool. Be sure the tool is variable speed and in hard aggregate concrete please use a torque adjustable tool.

## 5. We have heard that some competitive fasteners snap when the rod is pulled to the side while installing a hanger. Is this a problem for Vertigo?

No, the Vertigo product has a special heat treatment which will allow it to pass a 15 degree bend test.

## 7. Is Powers Vertigo Pole Tool easy to use?

Yes, it extends from 6 to 12 feet and has a quick release 3-jaw chuck to accept sockets and drill bits.



CONCRETE



STEEL



WOOD

# Vertigo®

S I M P L E R O D

**NEW!**



**Vertical Installation**



**Side Installation**



Vertigo® **fixaa** Power

# Vertigo®

## H A N G I N G S Y S T E M

The Range of Powers Vertigo™ Anchors

**NEW!**

FREE SDS Drill Bits Packaged In Each Box!

**CODE LISTED**  
ICC-ES ESR-2989

### CONCRETE VERTIGO™+

CONCRETE CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	THREAD STYLE	PRE-DRILL DIAMETER	FINISH	BOX	CARTON
7180SD	1/4"	3/8" x 2-3/4"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	100	500
7181SD	3/8"	3/8" x 2-3/4"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	100	500
7182SD	1/2"	3/8" x 2-3/4"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	50	250

### STEEL VERTICAL HANGER

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
7155	1/4"	1/4-20 x 1"	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
7157	3/8"	1/4-20 x 2"	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
7158	3/8"	1/4-20 x 1" (w/nuts)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
7159	3/8"	1/4-20 x 1-1/2"	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
7160	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
<b>#5 FOR BEAMS</b>						
7152	1/4"	12-20 x 1-1/2"	#5	0.188" (3/16") — 0.500" (1/2")	100	500
7154	3/8"	12-20 x 1-1/2" (w/nuts)	#5	0.188" (3/16") — 0.500" (1/2")	100	500
7161	1/2"	12-20 x 1-1/2" (w/nuts)	#5	0.188" (3/16") — 0.500" (1/2")	100	500

### WOOD VERTICAL HANGER

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
7163	1/4"	1/4" x 2"	Type 17	1/8"	100	500
7203	3/8"	1/4" x 1"	Type 17	1/8"	100	500
7165	3/8"	1/4" x 2"	Type 17	1/8"	100	500
7167	3/8"	1/4" x 3"	Type 17	1/8"	100	500
7169	3/8"	1/4" x 4"	Type 17	1/8"	100	500
7162	3/8"	5/16" x 2-1/2"	Type 17	1/8"	100	500
7164	1/2"	5/16" x 2-1/2"	Type 17	1/8"	100	500

### CONCRETE VERTICAL HANGER

CONCRETE CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	THREAD STYLE	PRE-DRILL DIAMETER	BOX	CARTON
7171	1/4"	1/4" x 1-1/4"	ANSI Wedge-Bolt (OT)	1/4" ANSI	100	500
7173	3/8"	1/4" x 1-1/2"	ANSI Wedge-Bolt (OT)	1/4" ANSI	100	500
7175	1/2"	3/8" x 2-3/4"	ANSI Wedge-Bolt (OT)	3/8" ANSI	100	500

For side mount concrete applications use Catalog Number 7185 and 7170 with a 3/16" ANSI drill bit.

### STEEL SIDE HANGER

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
7183	1/4"	1/4-20 x 1"	#3	0.036" (20 guage) — 0.188" (3/16")	100	500
7184	3/8"	1/4-20 x 1" (w/nuts)	#3	0.036" (20 guage) — 0.188" (3/16")	100	500
7186	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	0.036" (20 guage) — 0.188" (3/16")	100	500
7188	3/8"	1/4-20 x 2" (w/nuts)	#3	0.036" (20 guage) — 0.188" (3/16")	100	500
<b>#5 FOR BEAMS</b>						
7200	1/4"	12-20 x 1-1/2"	#5	0.188" (3/16") — 0.500" (1/2")	100	500
7201	3/8"	12-20 x 1-1/2" (w/nuts)	#5	0.188" (3/16") — 0.500" (1/2")	100	500

### WOOD SIDE HANGER

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
7185	1/4"	1/4" x 1"	Type 17	1/8"	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	1/8"	100	500

### ACCESSORIES

NUT DRIVER CAT NO.	SOCKET DESCRIPTION	SUGGESTED USAGE GUIDELINES	COLOR	BOX	CARTON
7187	Universal Steel & Wood Socket	1500 — 1800 RPM drill speed	Red n	5	25
7195	1/4" Concrete Socket		Blue n	5	25
7197	3/8" Concrete Socket		Blue n	5	25
7198	1/2" Concrete Socket (use for all Vertigo+ diameters)		Blue n	5	25

#### POLE TOOL

DESCRIPTION	BOX	CARTON
7166 6'-12' Pole Tool (includes three Jaw Chuck)	1	10

#### 3000 TOOL

DESCRIPTION	BOX	CARTON
5865 SDS Driver Kit for 1/4" and 3/8" Concrete Vertigo Includes 8" Extension Sleeve, use 1/4" x 6" SDS Hex Bit (Cat no. 5866)	1	10

### CROSS REFERENCE

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
EZE 405	DSTR100
EZE 665	DSTR1
EZE 670*	DSTR1
EZE 605	DST15
EZE 670	n
n	n
EZE 605	n
n	TEK50

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
EZE 455	GST200
n	GST10
n	GST20
n	GST30
n	GST40
EZE 750	n
n	n

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
EZE 455	CST200
EZE 560	CST20
n	CST2

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
n	JRC1-1/2
EZE 860*	SWD10
EZE 870*	n
EZE 861*	SWDR1

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
n	SWG200*
n	SWG10
EZE 880	SWG20
EZE 830*	n

ELCO HANGER MATE®	ITW SAMMY SUPER SCREW®
Several	#14
n	n
n	n
n	n

n	3618
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n	n
n	n

\* denotes similar dimensions

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# Vertigo®

S I M P L E R O D

## INSTALLATION SPECIFICATIONS

STEEL VERTIGO		
POINT STYLE	# 3	# 5
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)	1,500 - 1,800	1,500 - 1,800

WOOD VERTIGO		
SCREW SIZE	1/4" WOOD (THREAD FORMING)	3/8" WOOD (THREAD FORMING)
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

VERTIGO COUPLINGS (STEEL & WOOD)					
COUPLING SIZE & TYPE	1/4" VERTICAL	3/8" VERTICAL	1/2" VERTICAL	1/4" SIDE	3/8" SIDE
Coupling Width (flat to flat) (in)	5/8	5/8	5/8	5/8	5/8
Coupling Height (in)	13/16	13/16	13/16	13/16	13/16
Coupling Thread Size (UNC)	1/4" - 20	3/8" - 16	1/2" - 13	1/4" - 20	3/8" - 16
Coupling Thread Depth (in)	3/8	3/8	3/8	5/8 (through)	5/8 (through)

CONCRETE VERTIGO			CONCRETE VERTIGO+*			
ROD DIAMETER / ANCHOR SIZE	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
Drill Bit (in)	1/4 ANSI	1/4 ANSI	3/8 ANSI	3/8*	3/8*	3/8*
Anchor Thread Length (in)	1-1/8	1-3/8	2-1/2	2-1/2	2-1/2	2-1/2
Root Diameter (in)	15/64	15/64	23/64	23/64	23/64	23/64
Coupling / Washer Height (in)	27/64	9/16	53/64	53/64	53/64	53/64
Integral Washer O.D. (in)	31/64	39/64	31/32	31/32	31/32	31/32
Coupling Thread Size (UNC)	1/4" - 20	3/8" - 16	1/2" - 13	1/4" - 20	3/8" - 16	1/2" - 13
Coupling Thread Depth (in)	3/8	1/2	3/4	3/8	1/2	3/4
Socket Driver Size (in)	3/8	1/2	11/16	11/16	11/16	11/16

\* Use Wedge-Bit

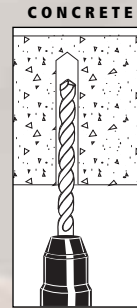
## MATERIAL SPECIFICATIONS

ANCHOR COMPONENT	MATERIAL
Screw Body	Carbon Steel (Case Hardened)
Coupling	Carbon Steel (Case Hardened)
Plating	ASTM B 633, SC1, Type III (Zinc)

## Installation Procedure

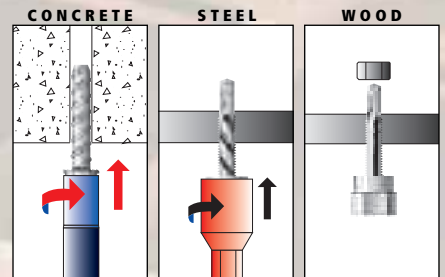
When installing Vertigo fasteners, eye protection should be worn as a safety precaution.

If pre-drilling is required (all concrete base materials and certain types of wood truss / wood joist), select the recommended drill bit type and diameter. 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 hole.



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. Concrete Vertigo may also be installed in "Impact" mode with a small electric wrench.



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, Steel Vertigo should be installed with a retaining nut.



1/4"

3/8"

1/2"

Concrete Vertigo+

# Vertigo

## H A N G I N G S Y S T E M

### STEEL VERTIGO - Ultimate Load Capacities Installed in Minimum ASTM A 36 Steel (Purlins and Beams)

ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	STEEL GAUGE (THICKNESS)						
			20 0.036" (LBS)	18 0.048" (LBS)	16 0.060" (LBS)	14 0.075" (LBS)	12 0.105" (LBS)	3/16" 0.188" (LBS)	1/4" 0.250" (LBS)
1/4"	Vertical	1/4-20 x 1" (w/nuts)	1,550	1,550	1,775	1,775	2,050	3,850	-
1/4"	Side	1/4-20 x 1" (w/nuts)	1,550	1,550	1,775	1,775	2,050	3,850	-
3/8"	Vertical	1/4-20 x 1" (w/nuts)	1,550	1,550	1,775	1,775	2,050	3,850	-
3/8"	Side	1/4-20 x 1-1/2" (w/nuts)	1,550	1,550	1,775	1,775	2,050	3,850	-
3/8"	Vertical	1/4-20 x 1-1/2"	405	620	985	1,160	1,560	3,205	-
3/8"	Side	1/4-20 x 1-1/2"	405	620	985	1,160	1,560	1,965	-
3/8"	Vertical	1/4-20 x 2" (w/nuts)	1,550	1,550	1,775	1,775	2,050	3,850	-
1/2"	Vertical	12-20 x 1-1/2"	495	710	920	1,560	2,050	3,280	5,040

Steel Vertigo are recommended to be installed with the Universal Steel & Wood Nut Driver.

### WOOD VERTIGO - Ultimate Load Capacities Installed in Wood Base Materials (Structural Wood and Timber)

ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBEDMENT DEPTH	FIR (LBS)	PINE (LBS)	SPRUCE (LBS)
1/4"	Vertical	1/4" x 2"	2"	1,510	1,510	1,510
1/4"	Side	1/4" x 1"	1"	685	650	650
3/8"	Vertical	1/4" x 2"	2"	1,510	1,510	1,510
3/8"	Side	1/4" x 2"	2"	1,800	1,800	1,800
3/8"	Vertical	1/4" x 3"	3"	2,075	1,510	1,510
3/8"	Vertical	1/4" x 4"	4"	2,075	1,510	1,510
3/8"	Vertical	3/8" x 2-1/2"	2-1/2"	2,670	3,110	3,110
3/8"	Side	3/8" x 2-1/2"	2-1/2"	1,450	1,530	1,380
1/2"	Vertical	3/8" x 2-1/2"	2-1/2"	2,670	3,110	3,110

\*Timber/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. Wood Vertigo are recommended to be installed with the Universal Steel & Wood Nut Driver.

### CONCRETE VERTIGO - Ultimate Load Capacities Installed in Normal Weight Concrete

ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	2,000 PSI CONCRETE		4,000 PSI CONCRETE		6,000 PSI CONCRETE	
						TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)
1/4"	Vertical	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft. - lbs.	1,390	1,810	1,950	2,440	2,070	2,570
3/8"	Vertical	1/4" x 1-1/2"	1/4"	1-1/2"	8 ft. - lbs.	1,760	2,580	2,595	2,640	2,770	2,700
1/2"	Vertical	3/8" x 2-3/4"	3/8"	2-3/4"	35 ft. - lbs.	5,320	5,250	6,050	6,330	8,620	7,410

Concrete Vertigo are recommended to be installed with the appropriate Concrete Nut Driver.

### CONCRETE VERTIGO - Ultimate Tension Load Capacities Installed in Hollow Core Plank

ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	CENTER OF WEB (LBS)	CENTER OF CORE (LBS)
1/4"	Vertical	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft-lbs	2,775	1,920
3/8"	Vertical	1/4" x 1-1/2"	1/4"	1-1/2"	8 ft-lbs	3,700	2,570
1/2"	Vertical	3/8" x 2-3/4"	3/8"	2-3/4"	35 ft-lbs	8,240	3,480

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

Concrete Vertigo are recommended to be installed with the appropriate Concrete Nut Driver.

Depending on fastener application and governing building code, ultimate load capacities should be reduced by a minimum safety factor to determine the allowable working load. NFPA 13 Fire Protection requirements are 5 times the weight of the liquid (water) filled pipe plus 250 lbs. Consult the engineer of record.

# Vertigo®

S I M P L E R O D

## FACTORY MUTUAL (FM) AND UNDERWRITER'S LABORATORIES (UL) LISTINGS

### STEEL VERTIGO

CAT NO.	ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	POINT STYLE	MAX. PIPE SIZE	UL MIN. STEEL THICKNESS	UL TEST LOAD	FM MIN. STEEL THICKNESS	FM TEST LOAD
7158	3/8"	Vertical	1/4-20 x 1"	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7184	3/8"	Side	1/4-20 x 1"	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7160	3/8"	Vertical	1/4-20 x 1-1/2"	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7186	3/8"	Side	1/4-20 x 1-1/2"	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7154	3/8"	Vertical	12-24 x 1-1/2"	#5	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7188	3/8"	Side	1/4-20 x 2"	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7201	3/8"	Side	12-20 x 1-1/2"	#5	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
7164	1/2"	Vertical	12-20 x 1-1/2"	#5	8"	0.250"	4,050 lbs	0.250"	3,800 lbs

Steel Vertigo is 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

CAT NO.	ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBED. DEPTH	UL MAX. PIPE SIZE	UL TEST LOAD	FM MAX. PIPE SIZE	FM TEST LOAD
7165	3/8"	Vertical	1/4" x 2"	2"	3"	1,050 lbs	-	-
7170	3/8"	Side	1/4" x 2"	2"	3"	1,050 lbs	-	-
7167	3/8"	Vertical	1/4" x 3"	3"	3"	1,050 lbs	-	-
7169	3/8"	Vertical	1/4" x 4"	4"	3"	1,050 lbs	-	-
7162	3/8"	Vertical	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	4"	1,475 lbs
7156	3/8"	Side	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	-	-

Wood Vertigo is recommended to be installed with the Universal Steel & Wood Nut Driver. No pre-drilling was done in the wood base materials.

### CONCRETE VERTIGO

CAT NO.	ANCHOR SIZE/ ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAM.	EMBEDMENT DEPTH	FM MAX. PIPE SIZE	FM TEST LOAD
7173	3/8"	Vertical	1/4" x 1-1/2"	1/4"	1-1/2"	4"	1,475 lbs
7175	1/2"	Vertical	3/8" x 2-3/4"	3/8"	2-3/4"	8"	3,800 lbs

Depending on fastener application and governing building code, the ultimate load capacities should be reduced by a minimum safety factor to determine the allowable working load. NFPA 13 Fire protection fastening requirements are five times the weight of the liquid (water) filled pipe plus 250 lbs. Consult the engineer of record.

Factory Mutual Approval - File No. J.I. 3015153

Underwriters Laboratories File No. EX1289.

Please visit Powers website at [www.powers.com](http://www.powers.com) for further details.



Pipe Hanging  
Conduit  
Eye Rod  
Cable Trays  
Lighting Systems  
Strut Channels  
Overhead Utilities  
Sprinkler Systems  
Drop Ceilings  
HVAC Duct  
Electrical  
Refrigeration



S I M P L E R O D

# PRODUCT SUBMITTAL / SUBSTITUTION REQUEST

TO: \_\_\_\_\_

PROJECT: \_\_\_\_\_

SPECIFIED ITEM: \_\_\_\_\_

\_\_\_\_\_

Section: \_\_\_\_\_ Page: \_\_\_\_\_ Paragraph: \_\_\_\_\_ Description: \_\_\_\_\_

## PRODUCT SUBMITTAL / SUBSTITUTION REQUESTED :

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The attached submittal package includes the product description, specifications, drawings, and performance data for use in the evaluation of the request.

## SUBMITTED BY:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Date: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

## FOR USE BY THE ARCHITECT AND/OR ENGINEER:

Approved     Approved as Noted     Not Approved

(Please briefly explain why the product was not approved)

\_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_

Remarks: \_\_\_\_\_







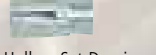
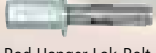
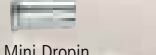
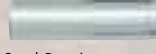
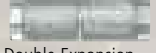
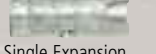
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# Vertig

## H A N G I N G S Y S T E M

### INSTALLED COST COMPARISON

	LEGEND										Industrial Factors			Base Material			Typical Installed Cost			Rod Sizes			Tip/Drill Diameter (ANSI)														
	n	n	n	n	n	n	n	n	n	n	Speed of Installation	Cost of Installed Product	Installation Ease	Concrete	Metal	Wood	Poured Concrete	Metal Pan Deck	Hollow Precast	Cindercrete	\$ Labor	\$ Labor/min	Typical Time (Min)	\$ Material	\$ Total	1/4"	3/8"	1/2"	5/8"	3/4"	3/16"	1/4"	3/8"	1/2"	11/16"	1"	1-3/16"
<b>HIGH SPEED SOLUTIONS</b>																																					
 Steel Vertigo	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$0.77	\$0.77	1	\$0.54	\$1.31	n	n	n	n	n	n	n	n	n	n	n	n
 Wood Vertigo	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$0.77	\$0.77	1	\$0.54	\$1.31	n	n	n	n	n	n	n	n	n	n	n	n
 Concrete Vertigo	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$3.85	\$0.77	5	\$0.55	\$4.40	n	n	n	n	n	n	n	n	n	n	n	n
 Pipe Spike	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$3.08	\$0.77	4	\$0.55	\$3.63	n	n	n	n	n	n	n	n	n	n	n	n
<b>CAST IN PLACE SOLUTIONS</b>																																					
 Wood-Knocker	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$0.77	\$0.77	1	\$1.30	\$2.07	n	n	n	n	n	n	n	n	n	n	n	n
 Bang-It	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$2.31	\$0.77	3	\$2.50	\$4.81	n	n	n	n	n	n	n	n	n	n	n	n
<b>SPECIALTY SOLUTIONS</b>																																					
 Hollow-Set Dropin	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$11.55	\$0.77	15	\$1.40	\$12.95	n	n	n	n	n	n	n	n	n	n	n	n
 Rod Hanger Lok-Bolt	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$8.47	\$0.77	11	\$1.08	\$9.55	n	n	n	n	n	n	n	n	n	n	n	n
 Mini Dropin	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$7.70	\$0.77	10	\$0.45	\$8.15	n	n	n	n	n	n	n	n	n	n	n	n
<b>HIGH LABOR OLD STYLE SOLUTIONS</b>																																					
 Steel Dropin	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$8.47	\$0.77	11	\$0.48	\$8.95	n	n	n	n	n	n	n	n	n	n	n	n
 Double Expansion	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$11.55	\$0.77	15	\$1.71	\$13.26	n	n	n	n	n	n	n	n	n	n	n	n
 Single Expansion	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	\$11.55	\$0.77	15	\$1.38	\$12.93	n	n	n	n	n	n	n	n	n	n	n	n

\*Labor rates based on ENR 20-City average of hourly pay scales for Electricians, Plumbers and Steamfitters, report dated June 2002.

POWERS FASTENERS **BRANCH INFORMATION****USA LOCATIONS**

CITY	ADDRESS	CONTACT	PHONE	FAX
Alabama	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	Jeff Hatchett	205-520-6044	678-966-9242
Atlanta	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	Robert Brito	678-966-0000	678-966-9242
Boston	2 Powers Lane, Brewster, NY 10509	Jack Armour	800-524-3244	914-576-6483
Charlotte	349 L West Tremont Avenue, Charlotte, NC 28203	Bob Aurisy	704-375-5012	704-376-5517
Chicago	2472 Wisconsin Avenue, Downers Grove, IL 60515	Dan Gilligan	630-960-3156	630-960-3912
Dallas	10625 King Williams Drive, Dallas, TX 75220	Matt Henderson	972-506-9258	972-506-9290
Denver	2475 West Second Street #35, Denver, CO 80223	Jared Hemmert	303-922-9202	303-922-9228
Detroit	21600 Wyoming Avenue, Oak Park, MI 48237	Glen Gaskill	248-543-8600	248-543-8601
Florida	2412 Lynx Lane, Orlando, FL 32804	John Christy	813-626-4500	813-626-4545
Houston	13833 North Promenade, Suite 100, Stafford, TX 77477	Chris Salisbury	281-491-0351	281-491-0367
Indianapolis	15290 Stony Creek Way, Noblesville, IN 46060	Bill Trainor	317-773-1668	317-773-1690
Kansas City / St Louis	716 East 16th Avenue, North Kansas City, MO 64116	Don James, Jr.	816-472-5038	816-472-5040
Los Angeles	2761 Dow Avenue, Tustin, CA 92780	Jack Stewart	714-731-2500	714-731-2566
Maryland	3137-B Penny Drive, Landover, MD 20785	Chris Van Syckle	301-773-1722	301-341-5119
Milwaukee	12020 W. Feerick Street, Milwaukee, WI 53222	Donn Raduenz	414-466-2400	414-466-3993
Minneapolis	351 Wilson Street, NE Minneapolis, MN 55413	Josh Nelson	612-644-3047	612-331-3549
Nashville/Memphis	221 Blanton Avenue, Nashville, TN 37210	Ira Liss	615-248-2667	615-248-2676
New Orleans	102 Sampson Street, Houston, TX 77003	Cal Zenor	713-228-1524	713-228-1528
New York	2 Powers Lane, Brewster, NY 10509	John Partridge	914-235-6300	914-576-6483
Philadelphia	2 Powers Lane, Brewster, NY 10509	Greg Stephenson	800-524-3244	914-576-6483
Phoenix	3602 E. Southern Ave, Suite 5 Phoenix, AZ 85040	Craig Hering	602-431-8024	602-431-8027
Pittsburgh	1360 Island Avenue, McKees Rocks, PA 15136	Bill Dugan	412-771-3010	412-771-9858
Portland	129 South Kenyon, Seattle, WA 98108	Jim Swink	360-608-6845	206-762-5817
Rochester	40 Harrison Street, Rochester, NY 14605	Mike Kolstad	585-288-2080	585-288-8732
Salt Lake City	2212 SW Temple #20, Salt Lake City, UT 84115	Don Manning	801-466-9428	801-466-3083
San Francisco	28970 Hopkins Street, Suite B+C, Hayward, CA 94545	Dan Mullan	510-293-1500	510-293-1505
Seattle	129 South Kenyon, Seattle, WA 98108	Darin Arnold	206-762-5812	206-762-5817

**INTERNATIONAL LOCATIONS**

COUNTRY/REGION	ADDRESS	CONTACT	PHONE	FAX
Australia	Factory 3, 205 Abbots Road, Dandenong, South Victoria 3175	Phil Rose	+61 3 8787 5888	+61 3 8787 5899
Canada	6950 Edwards Blvd. Mississauga, Ontario L5T 2W2	Mark Russell	905-673-7295	905-673-6490
China	Metropolitan Business Centre, East Nandan Road, Lane 300, No. 9, Room 604 Xuhui District, Shanghai, China 200030	Jake Olsen	+86-21-3363-2880	+86-21-3363-2881
China	TriF international, 4E, Building 11, The City of Design, Tianmian Village, Futian, Shenzhen 518000	Tom Nie	86-755-82795378	86-755-82795379
Europe	Westrak 208, 1771 SV Wieringenwerf, Netherlands	Paul Geuvers	+31 888 769 377	+31 227 594 759
India	D-112, Twin Arcade, Military Rd., Marol, Andheri, East Mumbai, 400059	Ajay Kulkarni	91-22-401591304	
Manitoba	1810 Dublin Avenue Man. Winnipeg, R3H 0H3	Distributor	204-633-0064	204-694-1261
New Zealand	PO Box 302 076 North Harbour Auckland	Claye Sesto	+64 9415 2425	+64 9415 2627
Quebec	721 Meloche Avenue, Dorval, Quebec H9P 2S5	Alan Hill	514-631-4216	514-631-2583
Thailand	80/89 MOO4 Petchakasem Road, Bangkae Bangkok 10160	Chalee Surakavanichakorn	+661 826 5821	

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Costa Rica	Electro Mechanics Supply, La Uruca Contiguo Banco Ntnl., De Costa Rica Condominio, Horizontal Bodega #9, San Jose, Costa Rica		(506) 2233-2595	
Dominican Republic	Calle Estancia Nueva #17 E Esquina Cul-De-Sac 9, San Geronimo, Santo Domingo	Rodfor Team	809-224-5615	809-472-8640
Ecuador	Acerco Comercial Ecuatoriano S.A., Av. La Prensa N45-14 y Telégrafo 1 – Quito Av. Juan Tanca Marengo Km. 1.7 – Guayaquil	infoiio@acero comercial.com infofyge@acero comercial.com	(593-2) 2454 333 (593-4) 2683 060	(593-2) 2454 455 (593-4) 2683 059
Guatemala	Tecnofijaciones, 6 Avenue 8-56 Zona 9, Zona 9, Guatemala	Oscar Lucas Penagos	502-233-4-3478	
Panama	Centro-Industrial, Via Cincuentenario, No. 7910, Ciudad Panama, Panama		(507) 302-8022	
Peru	Powers Peruana SAC, Av. Santa Catalina, 555 La Victoria, Lima 13, Peru (www.powersperuana.com)	Martin Vasquez	(011) 511 265 8500	(011) 511 330 0909
Venezuela	Calle Sucre/Qta. Maudora, #1721 Entre Cec Acosta Y San Ignacio Chacao, Caracas	Distributor	58 212 264 1313	58 212 263 0219
Trinidad - Tobago	Ft. Farfan, 3-5 Ibis Avenue, Ibis Acres, San Juan	Derek Cumming	(868) 674-7896	

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