HYDRAPRO FASTENERS

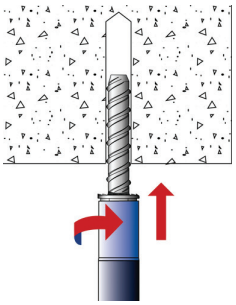
SPEC SHEET: **CVVRH.0924**

SPECIFICATION SUBMITTAL SHEET

CONCRETE VERTICAL VERTIGO ROD HANGERS

PART #	MODEL #	DESCRIPTION (SIZE)	STANDARD ORDER QUANTITY	MASTER CARTON QTY.	SELECT MODEL BELOW
CONCRETE SIDE VERTIGO ROD HANGERS					
H98486	**HPF7173J**	CONCRETE VERTICAL HANGER 3/8" ROD, 1/4" x 1-1/2" SCREW, 50/JAR	1 / JAR	8	☐

CONCRETE



INSTALLATION GUIDELINES

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 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.

Thread the appropriate diameter steel threaded rod or threaded bolt into the coupling. The threaded rod or threaded portion of the bolt can pass through coupling of a side mount fastener.

INSTALLATION SPECIFICATIONS

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

Install with appropriate sized concrete socket driver.

PRODUCT FEATURES

- Zinc Plated Carbon Steel
- Packaged in a Reusable Plastic Jar
- Used for Anchoring into Concrete
- A Self-Drilling Screw Style Mechanical Anchor for Concrete
- A Fast, Safe, and User-Friendly Way to Hang Rod Overhead
- Suitable Base Materials: Concrete Ceilings, Beams & Columns
- **Applications**: Pipe Hanging, Fire Protection, Electrical Conduit and Cable-Tray

MATERIAL SPECIFICATIONS

COMPONENT	COMPONENT MATERIAL
SCREW BODY	Case Hardened Carbon Steel
COUPLING (UNC Thread) Eyelet	Case Hardened Carbon Steel
ZINC PLATING	ASTM B633, SC1, TYPE III (Fe/Zn5)

JOB NAME: **JOB LOCATION:**

CONTRACTOR: **DATE:** **ITEM TAG:**

ENGINEER APPROVAL: **DATE:** **PART NUMBER:**

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HYDRAPRO FASTENERS

SPEC SHEET: **WSVRH.0924**

SPECIFICATION SUBMITTAL SHEET

PERFORMANCE DATA

CONCRETE VERTIGO - Ultimate Load Capacities when installed in Normal-Weight Concrete[1,2,3]

MODEL #	Rod Coupler Size in.	Mount Direction	Screw Shank Size & Length	ANSI Drill Bit Diameter in.	Embed Depth in.	Minimum Concrete Compressive Strength (f c)					
						2,000 psi		4,000 psi		6,000 psi	
						Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
HPF7173J	3/8"	VERTICAL	1/4" x 1-1/2"	1/4"	1-1/2"	1,760	2,580	2,595	2,640	2,770	2,700

1. The values listed above are ultimate load capacities for anchors installed in uncracked normal weight concrete.
2. The values listed above are ultimate load capacities which must be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.
3. Linear interpolation may be used to determine load capacities for intermediate compressive strengths.

PERFORMANCE DATA

CONCRETE VERTIGO - Ultimate Load Capacities when Installed Through Metal Deck into Lightweight Concrete[1,2,3,4]

MODEL #	Rod Coupler Size in.	Mount Direction	Screw Shank Size & Length	ANSI Drill Bit Diameter in.	Embedment Depth in.	Lightweight Concrete Over Metal Deck f c > 3,000 psi	
						4-1/2" Wide Deck	
						Tension lbs.	Load at 45° lbs.
HPF7173J	3/8"	VERTICAL	1/4" x 1-1/2"	1/4"	1-1/2"	1,780	1,500

1. The values listed above are ultimate load capacities for anchors installed in uncracked sand-lightweight concrete.
2. The metal deck shall not exceed 18 gauge (0.048-inch base metal thickness) and conform to ASTM A653.
3. The values listed above are ultimate load capacities which must 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 lower flute edge distance of 1-1/8-inch; or in the upper flute with consideration for integral washer clearance.

PERFORMANCE DATA

CONCRETE VERTIGO - Ultimate Load Capacities when Installed in Hollow Core Concrete Plank[1,2]

MODEL #	Rod Coupler Size in.	Mount Direction	Screw Shank Size & Length	ANSI Drill Bit Diameter in.	Embedment Depth in.	Tension, Center of Web lbs.	Tension, Center of Core lbs.
HPF7173J	3/8"	VERTICAL	1/4" x 1-1/2"	1/4"	1-1/2"	3,700	2,570

1. Tabulated load values are for anchors installed in 8-inch-thick uncracked hollow core concrete with minimum compressive strength of 5,000 psi at the time of installation. The normal-weight concrete must have 1-1/2" cover above and below cores and a minimum web thickness of 1-1/2".
2. The values listed above are ultimate load capacities which must be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.

PERFORMANCE DATA

CONCRETE VERTIGO - Factory Mutual (FM Global) Listings for Pipe Hangers

MODEL #	Anchor Size / Rod Diameter in.	Mount Direction	Screw Description	ANSI Drill Bit Diameter in.	Embedment Depth in.	FM Max. Pipe Size
HPF7173J	3/8	VERTICAL	1/4" x 1-1/2"	1/4"	1-1/2"	4"