TECHNICAL DATA SHEET

Product Image

Wood Rod Hangers

Wood rod hangers are carbon steel fasteners used in overhead applications where threaded rod is intended to be suspended. They are manufactured with a type-17 tip to provide easy installation in wood frame columns and beams. Suitable applications for use are electrical conduit and cable-tray applications, pipe hanging, fire protection, and suspension of HVAC equipment.

Features:

- Type 17 gimlet point for quick installation
- Single piece construction

Material Specifications

Component	Material
Screw Body	Carbon steel
Coupling/Eyelet	Carbon steel
Zinc Plating	ASTM B633, SC1, Type III (Fe/Zn5)

Suitable Base Materials

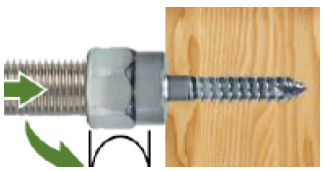
- Wood members

Product Specifications

Screw Size	1/4" Thread Forming			3/8" Thread Forming	
Root Diameter (in.)	3/16"			5/16"	
Pre-drill Diameter (in.) *if required*	1/8"				
Point Style	Type 17				
Thread Length (in.)	Screw length less 5/16"				
Flange Thickness (in.)	1/16"				
Coupling Size and Type	**Vertical Mount**			**Side Mount**	
	1/4"	**3/8"**	**1/2"**	**1/4"**	**3/8"**
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)
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"
Note: install with Dottie PN# UNIB.					

Installation Instructions

CAUTION ALWAYS WEAR EYE PROTECTION



TECHNICAL DATA SHEET

Installation Instructions:

1. If pre-drilling is required (certain types of wood truss/wood joist), select the recommended drill bit and diameter.
2. Using the Dottie Universal Installation Bit (PN# UNIB) insert the rod hanger coupling into the socket driver and install perpendicular to the base material surface. Drive the fastener with a smooth steady motion until the coupling is seated against the surface of the base material.
3. 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 rod hanger.

Tips:

- Rod hangers may be installed in the center of the 1-1/2" face of 2x lumber or in wider lumber face with 3/4" minimum edge distance. Distance to the ends or edges must be a minimum of 2".
- If required drill a pilot hole of the required diameter perpendicular to the wood surface to a depth equal to the hanger length to shoulder plus at least 1/4" to 1/2".

Wood Rod Hanger – Ultimate Load Capacities when Installed in Wood[1,2,3,4]

PN#	Screw Size	Mount Direction	Rod Coupler Size	Load Lbs
SSW14B	1/4" x 2"	Vertical	1/4"	1,673
SSW38B	1/4" x 2"	Vertical	3/8"	1,676
SSW38BXL	3/8" x 2-1/2"	Vertical	3/8"	1,704
SSW12B	3/8" x 2-1/2"	Vertical	1/2"	2,202
SSW38S	1/4" x 2"	Side	3/8"	1,411
SSW38SXL	3/8" x 2-1/2"	Side	3/8"	1,715

1. Load values are based on full shank penetration into Douglas Fir.
2. The values listed above are ultimate load capacities that must be reduced by a minimum safety factor of 6.0 or greater to determine the allowable working load.
3. Truss/joist manufacturers may require pre-drilled holes with wood depending on the location of the anchor installation.
4. Strength of threaded rod used with Dottie Rod Hangers must be considered when determining the controlling load capacity of the assembly.

Wood Rod Hanger – Allowable Strength Design Load Capacities when Installed in Wood[1,2,3,4]

PN#	Screw Size	Mount Direction	Rod Coupler Size	Load Lbs
SSW14B	1/4" x 2"	Vertical	1/4"	280
SSW38B	1/4" x 2"	Vertical	3/8"	280
SSW38BXL	3/8" x 2-1/2"	Vertical	3/8"	285
SSW12B	3/8" x 2-1/2"	Vertical	1/2"	365
SSW38S	1/4" x 2"	Side	3/8"	235
SSW38SXL	3/8" x 2-1/2"	Side	3/8"	285

1. Load values are based on full shank penetration into Douglas Fir.
2. The values listed above are based on a safety factor of 6.0 applied to the average ultimate load capacities referenced in table 1.
3. Truss/joist manufacturers may require pre-drilled holes with wood depending on the location of the anchor installation.
4. Strength of threaded rod used with Dottie Rod Hangers must be considered when determining the controlling load capacity of the assembly.