



D O T T I E

# ROD HANGING SYSTEM

F O R W O O D , C O N C R E T E

A N D S T E E L





S I M P L E R O D

## What is the Dottie Rod Hanging System?

The Dottie Rod Hanging System is a one-piece, all steel threaded fastening system for suspending steel threaded rod vertically overhead in pipe hanging, fire protection, electrical conduit and cable-tray applications. It 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 the Dottie Rod Hanging System. In wood and steel base materials, the system 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 Dottie Rod Hanging System fasteners, a Dottie Socket Driver is recommended to provide proper installation with a screw gun or hammer drill. Concrete Dottie Rod Hanging System fasteners should be installed with the appropriate size standard drive sockets and adjustable torque, battery powered screw gun or hammer drill.

### Labor Savings

#### SAVE IN INSTALLATION COSTS

STEEL BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Steel</b>	Fast	Low	Very Easy	\$0.77	1	\$0.77	\$1.73	\$2.50
Beam Clamp	Slow	High	Average	\$0.77	4	\$3.08	\$2.22	\$5.30

**SAVE \$2.80    SAVE 53%**

WOOD BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Wood</b>	Fast	Low	Easy	\$0.77	1	\$0.77	\$1.42	\$2.19
Hanger Bolt Rod/Coupler	Medium	High	Medium	\$0.77	5	\$3.85	\$0.73	\$6.54

**SAVE \$4.35    SAVE 67%**

CONCRETE BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Concrete</b>	Medium	Low	Easy	\$0.77	5	\$3.85	\$1.42	\$5.27
Steel Dropin	Slow	High	Hard	\$0.77	11	\$8.47	\$1.02	\$9.49

**SAVE \$4.22    SAVE 44%**

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

## What is the Dottie Rod Hanging System For?

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

## Who Uses the Dottie Rod Hanging System?

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

## Why the Dottie Rod Hanging System?

Competitive advantages:

- Lower "IN-PLACE" cost
- Simple to install
- FAST
- 1 Socket for Wood & Steel
- 1 System for all rod hanging
- L.H. Dottie support
- 15 Year performance warranty



CONCRETE



STEEL



WOOD

D O T T I E  
**ROD HANGING SYSTEM**

# ROD HANGING SYSTEM

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



## 1. Where can I buy the Dottie Rod Hanging System?

You can buy them at any L.H. Dottie distributor or go to our website and contact any one of our 45 sales representatives for a distributor near you. You can also contact us at [lhdottie.com](http://lhdottie.com) or 1-800-982-1901.

## 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?

Dottie Rod Hanging System Drivers should always be used. For wood and steel 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 the driver allows the coupler to spin free of the driver without stripping or overdriving the fastener.

All Steel and Wood Dottie Rod Hangers are driven with the new Dottie universal driver:

UNIB Socket Driver for Steel and Wood – both Side and Bottom Mount

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

SCP14 Socket for Concrete Dottie Rod Hanging System 1/4" (3/8" standard socket)

SCP38 Socket for Concrete Dottie Rod Hanging System 3/8" (1/2" standard socket)

SCP50 Socket for Concrete Dottie Rod Hanging System 1/2" (1-1/16" socket)

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

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

Cordless: 12, 14, 18 volt @ 500-1500 RPM with variable speed

Corded: 4.5-6 amp @ 500-1500 RPM with variable speed

\*For Concrete Dottie Rod Hangers the same tool can be used but must be torque adjustable.

## 4. Can Concrete Dottie Rod Hangers be installed with L.H. Dottie SS3009 Tool?

Yes, both the 1/4" and 3/8" Concrete Dottie Rod Hangers can be drilled with a 1/4" x 6" Hex ANSI bit. They are installed by inserting the socket into the SS3009 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 competitive fasteners sometimes strip. Is this a problem for the Dottie Rod Hanging System?

No, it's one integral unit with reverse mating threads that get tighter and lock as the screw is rotated.

## 6. 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 the Dottie Rod Hanging System?

No, the product has a special heat treatment which will pass a 15-30 degree bend test.

## 7. Why use the Dottie Rod Hanging System versus Sammy Super Screw® or Hangermate®? Can you give me 10 good reasons?

1. The Dottie Rod Hanging System normally performs better in all base materials than Sammy Super Screw®.
2. The Dottie Rod Hanging System normally performs better in all base materials than Hangermate®.
3. In Wood there is a type #17 point for fast drilling.
4. In Steel the #5 has a rake tip which is unmatched in drilling speed.
5. In Concrete the ANSI Wedge-Bolt threads hold more.
6. The Dottie Rod Hanging System drivers are simple and universal (one for steel & wood).
7. The Dottie Rod Hanging System is often less expensive.
8. The Dottie Rod Hanging System has more testing and code approvals.
9. The Dottie Rod Hanging System comes with a fifteen year performance warranty.
10. L.H. Dottie has a full line of approved fasteners to hang threaded rod to find the best solution for your application.

## 8. Is the Dottie Rod Hanging System 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.



S I M P L E R O D

**STEEL BOTTOM MOUNT ROD HANGER**

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
SSM14B	1/4"	1/4"-20 x 1" (Bottom Mount)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
SSM38BR	3/8"	1/4"-20 x 1-1/2" (Bottom Mount w/nut)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
<b>#5 FOR BEAMS</b>						
SSM12BR	1/2"	12-24 x 1-1/2" (Bottom Mount w/nut)	#5	0.188" (3/16") — 0.500" (1/2")	100	500

**CROSS REFERENCE CHART**

ELCO HANGER MATE®	ITW BUILDEX®
<b>#3 FOR PURLINS</b>	
EZG 160	DSTR100
EZG 471	DSTR516
<b>#5 FOR BEAMS</b>	
■	TEK50

**WOOD BOTTOM MOUNT ROD HANGER**

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
SSW14B	1/4"	1/4" x 2" (Bottom Mount)	Type 17	1/8"	100	500
SSW38B	3/8"	1/4" x 2" (Bottom Mount)	Type 17	1/8"	100	500
SSW38BUL	3/8"	3/8" x 2-1/2" U/L (Bottom Mount)	Type 17	1/8"	100	500
SSW12B	1/2"	3/8" x 2-1/2" (Bottom Mount)	Type 17	1/8"	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZG 315	GST100
EZG 650	GST20
EZG 670	GST25-380
■	GST2.5-380

**CONCRETE BOTTOM MOUNT ROD HANGER**

CONCRETE CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	THREAD STYLE	PRE-DRILL DIAMETER	BOX	CARTON
SSC14B	1/4"	1/4" x 1-1/4" (Bottom Mount)	ANSI Wedge-Bolt thread	1/4" ANSI	100	500
SSC38B	3/8"	1/4" x 1-1/2" (Bottom Mount)	ANSI Wedge-Bolt thread	1/4" ANSI	100	500
SSC12B	1/2"	3/8" x 2-3/4" (Bottom Mount)	ANSI Wedge-Bolt thread	3/8" ANSI	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZG 365	CST200
EZG 730	CST20
■	CST2

**STEEL SIDE MOUNT ROD HANGER**

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
SSM38SR	3/8"	1/4" 20 x 1-1/2" (Side Mount w/nut)	#3	0.188" (3/16") — 0.500" (1/2")	100	500

ELCO HANGER MATE®	ITW BUILDEX®
<b>#3 FOR PURLINS</b>	
EZH 155	SWDR100
EZH 476	SWDR516

**WOOD SIDE MOUNT ROD HANGER**

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
SSW14S	1/4"	1/4" x 2" (Side Mount)	Type 17	1/8"	100	500
SSW38S	3/8"	1/4" x 2" (Side Mount)	Type 17	1/8"	100	500
SSW38SUL	3/8"	3/8" x 2-1/2" U/L (Side Mount)	Type 17	1/8"	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZH 320	SWG200
EZH 665	SWG 20
EZH 670	SWG25-380

**ACCESSORIES**

NUT DRIVER CAT NO.	SOCKET DESCRIPTION	SUGGESTED USAGE GUIDELINES	COLOR	BOX	CARTON
UNIB*	1/4" Shank Universal Installation Tool	500 — 1500 RPM drill speed	Red	5	25
SCP14**	1/4" Concrete Installation Tool		Blue	5	25
SCP38**	3/8" Concrete Installation Tool		Blue	5	25
SCP50**	1/2" Concrete Installation Tool		Blue	5	25
SS3009	Installation Tool Kit for Concrete Anchors			1	10

ELCO HANGER MATE®	ITW BUILDEX®
Several	#14
■	■
■	■
■	■

**POLE TOOL**

CAT NO.	DESCRIPTION
PT612	6' - 12' Pole Tool (includes three Jaw Chuck)

ELCO HANGER MATE®	ITW BUILDEX®
■	8122910



# ROD HANGING SYSTEM

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

## INSTALLATION SPECIFICATIONS

### STEEL DOTTIE ROD HANGING SYSTEM

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)	500 - 1,500	500 - 1,500

### WOOD DOTTIE ROD HANGING SYSTEM

SCREW SIZE	1/4" WOOD (THREAD FORMING)	3/8" WOOD (THREAD FORMING)
Point Style	Type 17	Type 17
Root Diameter (in)	3/16"	5/16"
Thread Length (in)	Screw length less 5/16"	Screw length less 5/16"
Flange Thickness (in)	1/16"	1/16"

### DOTTIE ROD HANGING SYSTEM COUPLINGS (STEEL & WOOD)

COUPLING SIZE & TYPE	1/4" BOTTOM MOUNT	3/8" BOTTOM MOUNT	1/2" BOTTOM MOUNT	1/4" SIDE MOUNT	3/8" SIDE MOUNT
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 DOTTIE ROD HANGING SYSTEM

ROD DIAMETER / ANCHOR SIZE	1/4"	3/8"	1/2"
ANSI Drill Bit (in)	1/4"	1/4"	3/8"
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"

### MATERIAL SPECIFICATIONS

ANCHOR COMPONENT	MATERIAL
Screw Body	AISI 1022 (Case Hardened)
Coupling	AISI 1018 - 1022 (Case Hardened)
Plating	ASTM B 633, SC1, Type III (Zinc)

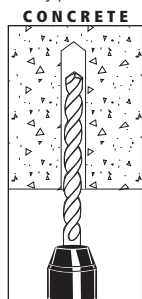
## Installation Procedure

When installing Dottie Rod Hanging System fasteners, eye protection should be worn as a safety precaution.

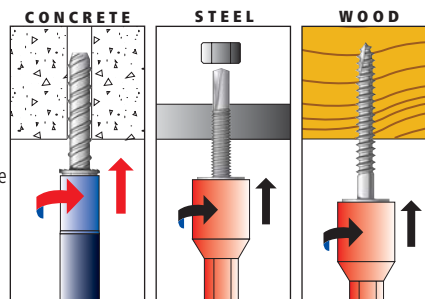


Select the appropriate socket driver for the anchor size and type to be installed and mount into chuck of installation tool. Insert the Dottie Rod Hanging System fastener into the socket driver, and install perpendicular to the base material surface. Drive the fastener with a smooth steady motion until the coupling is firmly seated against the surface of the base material. Concrete Rod Hangers 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.



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. 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.



For UL and FM listings, Steel the Dottie Rod Hanging System should be installed with a retaining nut.



S I M P L E R O D

**STEEL DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Minimum ASTM A 36 Steel (Purlins and Beams)**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	STEEL GAGE (THICKNESS)						
			20 0.036" (LBS)	18 0.048" (LBS)	16 0.060" (LBS)	14 0.075" (LBS)	12 0.105" (LBS)	3/16" 0.187" (LBS)	1/4" 0.250" (LBS)
1/4"	Bottom Mount	1/4"-20 x 1"	1,550	1,550	1,775	1,775	2,050	3,850	5,040
1/4"	Side Mount	1/4"-20 x 1"	1,550	1,550	1,775	1,775	2,050	3,850	2,050
3/8"	Bottom Mount	1/4"-20 x 1-1/2" (w/nut)	1,550	1,550	1,775	1,775	2,050	3,850	5,040
3/8"	Side Mount	1/4"-20 x 1-1/2" (w/nut)	1,550	1,550	1,775	1,775	2,050	3,850	2,050
1/2"	Bottom Mount	12-24 x 1-1/2" (w/nut)	-	-	920	1,560	2,050	3,280	5,040

For Steel Dottie Rod Hangers loaded perpendicular to the threaded rod (shear) the ultimate load capacity for the anchor is 1,965 lbs in nominal 20 gage steel (0.036"). Steel Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver.

**WOOD DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Wood Base Materials (Structural Wood and Timber)**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBEDMENT DEPTH	FIR (LBS)	PINE (LBS)	SPRUCE (LBS)
1/4"	Bottom Mount	1/4" x 2"	2"	685	650	650
1/4"	Side Mount	1/4" x 2"	2"	1,510	1,510	1,510
3/8"	Bottom Mount	1/4" x 2"	2"	1,510	1,510	1,510
3/8"	Side Mount	1/4" x 2"	2"	1,800	1,800	1,800
3/8"	Bottom Mount	3/8" x 2-1/2"	2-1/2"	2,670	3,110	3,110
3/8"	Side Mount	3/8" x 2-1/2"	2-1/2"	1,450	1,530	1,380
1/2"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver.

**CONCRETE DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Normal Weight Concrete**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	2,000 PSI CONCRETE TENSION (LBS)	2,000 PSI CONCRETE SHEAR (LBS)	4,000 PSI CONCRETE TENSION (LBS)	4,000 PSI CONCRETE SHEAR (LBS)	6,000 PSI CONCRETE TENSION (LBS)	6,000 PSI CONCRETE SHEAR (LBS)
1/4"	Bottom Mount	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"	Bottom Mount	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"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the appropriate Concrete Nut Driver.

**CONCRETE DOTTIE ROD HANGING SYSTEM - Ultimate Tension Load Capacities Installed in Hollow Core Plank**

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"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft. - lbs.	2,775	1,920
3/8"	Bottom Mount	1/4" x 1-1/2"	1/4"	1-1/2"	8 ft. - lbs.	3,700	2,570
1/2"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the appropriate Concrete Nut Driver.

Data is in accordance with latest acceptance criteria and ASTM Standards.

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.

# ROD HANGING SYSTEM

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

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

### STEEL DOTTIE ROD HANGING SYSTEM

CAT NO.	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
SSM38BR	3/8"	Bottom Mount	1/4"-20 x 1-1/2" (w/nut)	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
SSM38SR	3/8"	Side Mount	1/4"-20 x 1-1/2" (w/nut)	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs

Steel Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver. For UL and FM listings, Steel Dottie Rod Hangers must be installed with a retaining nut.

### WOOD DOTTIE ROD HANGING SYSTEM

CAT NO.	ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBED. DEPTH	UL MAX. PIPE SIZE	UL TEST LOAD	FM MAX. PIPE SIZE	FM TEST LOAD
SSW38S	3/8"	Side Mount	1/4" x 2"	2"	3"	1,050 lbs	†	†
SSW38B	3/8"	Bottom Mount	1/4" x 2"	2"	3"	1,050 lbs	†	†
SSW38BUL	3/8"	Bottom Mount	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	†	†
SSW38SUL	3/8"	Side Mount	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	†	†
SSW12B	1/2"	Bottom Mount	3/8 x 2-1/2"	2-1/2"	8"	4,050 lbs	0.250"	3800 lbs

Wood Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver. No pre-drilling was done in the wood base materials.

† Factory Mutual standard requires a screw diameter of 3/8" and minimum length of 2-1/2" for pipe hanging approval in wood base materials.

### CONCRETE DOTTIE ROD HANGING SYSTEM

CAT NO.	ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAM.	EMBEDMENT DEPTH	FM MAX. PIPE SIZE	FM TEST LOAD
SSC14B	1/4"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	†	†
SSC38B	3/8"	Bottom Mount	1/4" x 1-1/2"	1/4"	1-1/2"	4"	1,475 lbs
SSC12B	1/2"	Bottom Mount	3/8" x 2-3/4"	3/8"	2-3/4"	8"	3,800 lbs

Concrete Dottie Rod Hangers are recommended to be installed with the appropriate concrete nut driver.

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 the Dottie website at [lhdottie.com](http://lhdottie.com) for further details.





D O T T I E

# ROD HANGING SYSTEM

F O R W O O D , C O N C R E T E

A N D S T E E L





indottie.com

S I M P L E R O D

## What is the Dottie Rod Hanging System?

The Dottie Rod Hanging System is a one-piece, all steel threaded fastening system for suspending steel threaded rod vertically overhead in pipe hanging, fire protection, electrical conduit and cable-tray applications. It 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 the Dottie Rod Hanging System. In wood and steel base materials, the system 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 Dottie Rod Hanging System fasteners, a Dottie Socket Driver is recommended to provide proper installation with a screw gun or hammer drill. Concrete Dottie Rod Hanging System fasteners should be installed with the appropriate size standard drive sockets and adjustable torque, battery powered screw gun or hammer drill.

### Labor Savings

#### SAVE IN INSTALLATION COSTS

STEEL BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Steel</b>	Fast	Low	Very Easy	\$0.77	1	\$0.77	\$1.73	\$2.50
Beam Clamp	Slow	High	Average	\$0.77	4	\$3.08	\$2.22	\$5.30

**SAVE \$2.80    SAVE 53%**

WOOD BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Wood</b>	Fast	Low	Easy	\$0.77	1	\$0.77	\$1.42	\$2.19
Hanger Bolt Rod/Coupler	Medium	High	Medium	\$0.77	5	\$3.85	\$0.73	\$6.54

**SAVE \$4.35    SAVE 67%**

CONCRETE BASE MATERIAL	SPEED OF INSTALLATION	INSTALLED		TYPICAL COST INSTALLED (3/8" SIZE)				
		COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
<b>Concrete</b>	Medium	Low	Easy	\$0.77	5	\$3.85	\$1.42	\$5.27
Steel Dropin	Slow	High	Hard	\$0.77	11	\$8.47	\$1.02	\$9.49

**SAVE \$4.22    SAVE 44%**

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

## What is the Dottie Rod Hanging System For?

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

## Who Uses the Dottie Rod Hanging System?

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

## Why the Dottie Rod Hanging System?

Competitive advantages:

- Lower "IN-PLACE" cost
- Simple to install
- FAST
- 1 Socket for Wood & Steel
- 1 System for all rod hanging
- L.H. Dottie support
- 15 Year performance warranty



CONCRETE



STEEL



WOOD

D O T T I E  
**ROD HANGING SYSTEM**

# ROD HANGING SYSTEM

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



## 1. Where can I buy the Dottie Rod Hanging System?

You can buy them at any L.H. Dottie distributor or go to our website and contact any one of our 45 sales representatives for a distributor near you. You can also contact us at [lhdottie.com](http://lhdottie.com) or 1-800-982-1901.

## 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?

Dottie Rod Hanging System Drivers should always be used. For wood and steel 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 the driver allows the coupler to spin free of the driver without stripping or overdriving the fastener.

All Steel and Wood Dottie Rod Hangers are driven with the new Dottie universal driver:

UNIB Socket Driver for Steel and Wood – both Side and Bottom Mount

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

SCP14 Socket for Concrete Dottie Rod Hanging System 1/4" (3/8" standard socket)

SCP38 Socket for Concrete Dottie Rod Hanging System 3/8" (1/2" standard socket)

SCP50 Socket for Concrete Dottie Rod Hanging System 1/2" (1-1/16" socket)

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

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

Cordless: 12, 14, 18 volt @ 500-1500 RPM with variable speed

Corded: 4.5-6 amp @ 500-1500 RPM with variable speed

\*For Concrete Dottie Rod Hangers the same tool can be used but must be torque adjustable.

## 4. Can Concrete Dottie Rod Hangers be installed with L.H. Dottie SS3009 Tool?

Yes, both the 1/4" and 3/8" Concrete Dottie Rod Hangers can be drilled with a 1/4" x 6" Hex ANSI bit. They are installed by inserting the socket into the SS3009 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 competitive fasteners sometimes strip. Is this a problem for the Dottie Rod Hanging System?

No, it's one integral unit with reverse mating threads that get tighter and lock as the screw is rotated.

## 6. 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 the Dottie Rod Hanging System?

No, the product has a special heat treatment which will pass a 15-30 degree bend test.

## 7. Why use the Dottie Rod Hanging System versus Sammy Super Screw® or Hangermate®? Can you give me 10 good reasons?

1. The Dottie Rod Hanging System normally performs better in all base materials than Sammy Super Screw®.
2. The Dottie Rod Hanging System normally performs better in all base materials than Hangermate®.
3. In Wood there is a type #17 point for fast drilling.
4. In Steel the #5 has a rake tip which is unmatched in drilling speed.
5. In Concrete the ANSI Wedge-Bolt threads hold more.
6. The Dottie Rod Hanging System drivers are simple and universal (one for steel & wood).
7. The Dottie Rod Hanging System is often less expensive.
8. The Dottie Rod Hanging System has more testing and code approvals.
9. The Dottie Rod Hanging System comes with a fifteen year performance warranty.
10. L.H. Dottie has a full line of approved fasteners to hang threaded rod to find the best solution for your application.

## 8. Is the Dottie Rod Hanging System 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.



S I M P L E R O D

**STEEL BOTTOM MOUNT ROD HANGER**

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
SSM14B	1/4"	1/4"-20 x 1" (Bottom Mount)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
SSM38BR	3/8"	1/4"-20 x 1-1/2" (Bottom Mount w/nut)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
<b>#5 FOR BEAMS</b>						
SSM12BR	1/2"	12-24 x 1-1/2" (Bottom Mount w/nut)	#5	0.188" (3/16") — 0.500" (1/2")	100	500

**CROSS REFERENCE CHART**

ELCO HANGER MATE®	ITW BUILDEX®
<b>#3 FOR PURLINS</b>	
EZG 160	DSTR100
EZG 471	DSTR516
<b>#5 FOR BEAMS</b>	
■	TEK50

**WOOD BOTTOM MOUNT ROD HANGER**

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
SSW14B	1/4"	1/4" x 2" (Bottom Mount)	Type 17	1/8"	100	500
SSW38B	3/8"	1/4" x 2" (Bottom Mount)	Type 17	1/8"	100	500
SSW38BUL	3/8"	3/8" x 2-1/2" U/L (Bottom Mount)	Type 17	1/8"	100	500
SSW12B	1/2"	3/8" x 2-1/2" (Bottom Mount)	Type 17	1/8"	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZG 315	GST100
EZG 650	GST20
EZG 670	GST25-380
■	GST2.5-380

**CONCRETE BOTTOM MOUNT ROD HANGER**

CONCRETE CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	THREAD STYLE	PRE-DRILL DIAMETER	BOX	CARTON
SSC14B	1/4"	1/4" x 1-1/4" (Bottom Mount)	ANSI Wedge-Bolt thread	1/4" ANSI	100	500
SSC38B	3/8"	1/4" x 1-1/2" (Bottom Mount)	ANSI Wedge-Bolt thread	1/4" ANSI	100	500
SSC12B	1/2"	3/8" x 2-3/4" (Bottom Mount)	ANSI Wedge-Bolt thread	3/8" ANSI	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZG 365	CST200
EZG 730	CST20
■	CST2

**STEEL SIDE MOUNT ROD HANGER**

STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	SELF-DRILLING RANGE	BOX	CARTON
<b>#3 FOR PURLINS</b>						
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)	#3	0.036" (20 gage) — 0.188" (3/16")	100	500
SSM38SR	3/8"	1/4" 20 x 1-1/2" (Side Mount w/nut)	#3	0.188" (3/16") — 0.500" (1/2")	100	500

ELCO HANGER MATE®	ITW BUILDEX®
<b>#3 FOR PURLINS</b>	
EZH 155	SWDR100
EZH 476	SWDR516

**WOOD SIDE MOUNT ROD HANGER**

WOOD CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	POINT STYLE	PRE-DRILL DIAMETER (IF REQUIRED)	BOX	CARTON
SSW14S	1/4"	1/4" x 2" (Side Mount)	Type 17	1/8"	100	500
SSW38S	3/8"	1/4" x 2" (Side Mount)	Type 17	1/8"	100	500
SSW38SUL	3/8"	3/8" x 2-1/2" U/L (Side Mount)	Type 17	1/8"	100	500

ELCO HANGER MATE®	ITW BUILDEX®
EZH 320	SWG200
EZH 665	SWG 20
EZH 670	SWG25-380

**ACCESSORIES**

NUT DRIVER CAT NO.	SOCKET DESCRIPTION	SUGGESTED USAGE GUIDELINES	COLOR	BOX	CARTON
UNIB*	1/4" Shank Universal Installation Tool	500 — 1500 RPM drill speed	Red	5	25
SCP14**	1/4" Concrete Installation Tool		Blue	5	25
SCP38**	3/8" Concrete Installation Tool		Blue	5	25
SCP50**	1/2" Concrete Installation Tool		Blue	5	25
SS3009	Installation Tool Kit for Concrete Anchors			1	10

ELCO HANGER MATE®	ITW BUILDEX®
Several	#14
■	■
■	■
■	■

**POLE TOOL**

POLE TOOL CAT NO.	DESCRIPTION
PT612	6' - 12' Pole Tool (includes three Jaw Chuck)

ELCO HANGER MATE®	ITW BUILDEX®
■	8122910



# ROD HANGING SYSTEM

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

## INSTALLATION SPECIFICATIONS

### STEEL DOTTIE ROD HANGING SYSTEM

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)	500 - 1,500	500 - 1,500

### WOOD DOTTIE ROD HANGING SYSTEM

SCREW SIZE	1/4" WOOD (THREAD FORMING)	3/8" WOOD (THREAD FORMING)
Point Style	Type 17	Type 17
Root Diameter (in)	3/16"	5/16"
Thread Length (in)	Screw length less 5/16"	Screw length less 5/16"
Flange Thickness (in)	1/16"	1/16"

### DOTTIE ROD HANGING SYSTEM COUPLINGS (STEEL & WOOD)

COUPLING SIZE & TYPE	1/4" BOTTOM MOUNT	3/8" BOTTOM MOUNT	1/2" BOTTOM MOUNT	1/4" SIDE MOUNT	3/8" SIDE MOUNT
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 DOTTIE ROD HANGING SYSTEM

ROD DIAMETER / ANCHOR SIZE	1/4"	3/8"	1/2"
ANSI Drill Bit (in)	1/4"	1/4"	3/8"
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"

### MATERIAL SPECIFICATIONS

ANCHOR COMPONENT	MATERIAL
Screw Body	AISI 1022 (Case Hardened)
Coupling	AISI 1018 - 1022 (Case Hardened)
Plating	ASTM B 633, SC1, Type III (Zinc)

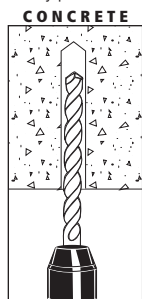
## Installation Procedure

When installing Dottie Rod Hanging System fasteners, eye protection should be worn as a safety precaution.

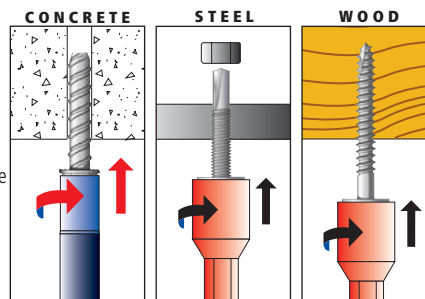


Select the appropriate socket driver for the anchor size and type to be installed and mount into chuck of installation tool. Insert the Dottie Rod Hanging System fastener into the socket driver, and install perpendicular to the base material surface. Drive the fastener with a smooth steady motion until the coupling is firmly seated against the surface of the base material. Concrete Rod Hangers 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.



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. 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.



The threaded rod or threaded portion of the bolt can pass through coupling of a side mount fastener.

For UL and FM listings, Steel the Dottie Rod Hanging System should be installed with a retaining nut.



S I M P L E R O D

**STEEL DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Minimum ASTM A 36 Steel (Purlins and Beams)**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	STEEL GAGE (THICKNESS)						
			20 0.036" (LBS)	18 0.048" (LBS)	16 0.060" (LBS)	14 0.075" (LBS)	12 0.105" (LBS)	3/16" 0.187" (LBS)	1/4" 0.250" (LBS)
1/4"	Bottom Mount	1/4"-20 x 1"	1,550	1,550	1,775	1,775	2,050	3,850	5,040
1/4"	Side Mount	1/4"-20 x 1"	1,550	1,550	1,775	1,775	2,050	3,850	2,050
3/8"	Bottom Mount	1/4"-20 x 1-1/2" (w/nut)	1,550	1,550	1,775	1,775	2,050	3,850	5,040
3/8"	Side Mount	1/4"-20 x 1-1/2" (w/nut)	1,550	1,550	1,775	1,775	2,050	3,850	2,050
1/2"	Bottom Mount	12-24 x 1-1/2" (w/nut)	-	-	920	1,560	2,050	3,280	5,040

For Steel Dottie Rod Hangers loaded perpendicular to the threaded rod (shear) the ultimate load capacity for the anchor is 1,965 lbs in nominal 20 gage steel (0.036"). Steel Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver.

**WOOD DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Wood Base Materials (Structural Wood and Timber)**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBEDMENT DEPTH	FIR (LBS)	PINE (LBS)	SPRUCE (LBS)
1/4"	Bottom Mount	1/4" x 2"	2"	685	650	650
1/4"	Side Mount	1/4" x 2"	2"	1,510	1,510	1,510
3/8"	Bottom Mount	1/4" x 2"	2"	1,510	1,510	1,510
3/8"	Side Mount	1/4" x 2"	2"	1,800	1,800	1,800
3/8"	Bottom Mount	3/8" x 2-1/2"	2-1/2"	2,670	3,110	3,110
3/8"	Side Mount	3/8" x 2-1/2"	2-1/2"	1,450	1,530	1,380
1/2"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver.

**CONCRETE DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Normal Weight Concrete**

ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	2,000 PSI CONCRETE TENSION (LBS)	2,000 PSI CONCRETE SHEAR (LBS)	4,000 PSI CONCRETE TENSION (LBS)	4,000 PSI CONCRETE SHEAR (LBS)	6,000 PSI CONCRETE TENSION (LBS)	6,000 PSI CONCRETE SHEAR (LBS)
1/4"	Bottom Mount	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"	Bottom Mount	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"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the appropriate Concrete Nut Driver.

**CONCRETE DOTTIE ROD HANGING SYSTEM - Ultimate Tension Load Capacities Installed in Hollow Core Plank**

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"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft. - lbs.	2,775	1,920
3/8"	Bottom Mount	1/4" x 1-1/2"	1/4"	1-1/2"	8 ft. - lbs.	3,700	2,570
1/2"	Bottom Mount	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 Dottie Rod Hangers are recommended to be installed with the appropriate Concrete Nut Driver.

Data is in accordance with latest acceptance criteria and ASTM Standards.

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.

# ROD HANGING SYSTEM

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

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

### STEEL DOTTIE ROD HANGING SYSTEM

CAT NO.	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
SSM38BR	3/8"	Bottom Mount	1/4"-20 x 1-1/2" (w/nut)	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs
SSM38SR	3/8"	Side Mount	1/4"-20 x 1-1/2" (w/nut)	#3	4"	0.060"	1,500 lbs	0.096"	1,475 lbs

Steel Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver. For UL and FM listings, Steel Dottie Rod Hangers must be installed with a retaining nut.

### WOOD DOTTIE ROD HANGING SYSTEM

CAT NO.	ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	EMBED. DEPTH	UL MAX. PIPE SIZE	UL TEST LOAD	FM MAX. PIPE SIZE	FM TEST LOAD
SSW38S	3/8"	Side Mount	1/4" x 2"	2"	3"	1,050 lbs	†	†
SSW38B	3/8"	Bottom Mount	1/4" x 2"	2"	3"	1,050 lbs	†	†
SSW38BUL	3/8"	Bottom Mount	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	†	†
SSW38SUL	3/8"	Side Mount	3/8" x 2-1/2"	2-1/2"	4"	1,500 lbs	†	†
SSW12B	1/2"	Bottom Mount	3/8 x 2-1/2"	2-1/2"	8"	4,050 lbs	0.250"	3800 lbs

Wood Dottie Rod Hangers are recommended to be installed with the Universal Steel & Wood Nut Driver. No pre-drilling was done in the wood base materials.

† Factory Mutual standard requires a screw diameter of 3/8" and minimum length of 2-1/2" for pipe hanging approval in wood base materials.

### CONCRETE DOTTIE ROD HANGING SYSTEM

CAT NO.	ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAM.	EMBEDMENT DEPTH	FM MAX. PIPE SIZE	FM TEST LOAD
SSC14B	1/4"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	†	†
SSC38B	3/8"	Bottom Mount	1/4" x 1-1/2"	1/4"	1-1/2"	4"	1,475 lbs
SSC12B	1/2"	Bottom Mount	3/8" x 2-3/4"	3/8"	2-3/4"	8"	3,800 lbs

Concrete Dottie Rod Hangers are recommended to be installed with the appropriate concrete nut driver.

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 the Dottie website at [lhdottie.com](http://lhdottie.com) for further details.

