FOR WOOD, CONCRETE

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S I M P L E R What is the Dottie Rod Hanging System? What is

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

Dottie

SAVE IN INS	TALLATION	COSTS						
STEEL	SPEED OF	INSTALLE	0	Т	YPICAL C	OST INSTAL	LED (3/8" SIZE)	
BASE MATERIAL	INSTALLATION	COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
Steel	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	INSTALLEI COST	D INSTALLATION	T LABOR/MIN	PICAL CO	ST INSTALI	LED (3/8" SIZE) MATERIAL	TOTAL
Wood	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	INSTALLEI COST	D INSTALLATION	TYF Labor/Min	PICAL COS TIME	ST INSTALLE LABOR	D (3/8" SIZE) MATERIAL	TOTAL
Concrete	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.



CONCRETE



STEEL



What is the Dottie Rod Hanging System For?

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- Pipe hanging
- Conduit
- Eye rod
- Cable Trays
- Lighting systems
- Strut channels
- Overhead utilities
- Sprinkler systems
- Drop ceilingsHVAC 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

DOTTIE



ROD HANGING

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Sammy™ and Sammy Super Screw® are trademarks owned by Illinois Tool Works Inc. Hanger Mate[™] is a registered trademark of Elco Textron Inc.

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 Ihdottie.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.
 - In Steel the #5 has a rake tip which is unmatched in drilling speed. 4.
 - In Concrete the ANSI Wedge-Bolt threads hold more. 5.
 - The Dottie Rod Hanging System drivers are simple and universal (one for steel & wood). 6.
 - 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.



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s	T	М	Р
STEEL BOT		OUNT ROD HANGER	
STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	
#3 FOR PURLINS			
SSM14B	1/4 "	1/4"-20 x 1" (Bottom Mo	unt)
SSM38BR	3/8 "	1/4"-20 x 1-1/2" (Bottom	Mount w/nu
#5 FOR BEAMS			
SSM12BR	1/2 "	12-24 x 1-1/2" (Bottom N	lount w/nut)
WOOD BO	TTOM N	IOUNT ROD HANGER	
WOOD CAT NO	ROD	SCREW SHANK	
SSW14B	1/4"	1/4" x 2" (Bottom Mount	·)
SSW38B	3/8"	1/4"x 2" (Bottom Mount)	7
SSW38BUL	3/8"	3/8" x 2-1/2" U/L (Bottom	Mount)
SSW12B	1/2 "	3/8" x 2-1/2" (Bottom M	ount)
CONCRET			CER
CONCRETE			ULN
CAT NO.	SIZE	SIZE / LENGTH	
SSC14B	1/4 "	1/4" x 1-1/4" (Bottom Mo	ount)
SSC38B	3/8 "	1/4" x 1-1/2" (Bottom Mo	ount)
SSC12B	1/2 "	3/8" x 2-3/4" (Bottom Mo	ount)
STEEL SID	E MOUN	T ROD HANGER	
STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	
#3 FOR PURLINS			
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)
SSM38SR	3/8"	1/4"20 x 1-1/2" (Side Mo	ount w/nut)
WOOD SIE	DE MOUI	NT ROD HANGER	
vood At No.	ROD SIZE	SCREW SHANK SIZE / LENGTH	

CAT NO.	SIZE	SIZE / LENGTH		STYLE SELF-DRIL	LING RANGE	BOX	CARTON	HANGER MATE®	BUILDEX®
#3 FOR PURLINS								#3 FOR PURLINS	
SSM14B	1/4"	1/4"-20 x 1" (Bottom Mount)		#3 0.036" (2	20 gage) — 0.188" (3/16")	100	500	EZG 160	DSTR100
SSM38BR	3/8"	1/4"-20 x 1-1/2" (Bottom Mount w/nut))	#3 0.036" (2	20 gage) — 0.188" (3/16")	100	500	EZG 471	DSTR516
#5 FOR BEAMS								#5 FOR BEAMS	
SSM12BR	1/2 "	12-24 x 1-1/2" (Bottom Mount w/nut)		#5 0.188" (3	8/16") — 0.500" (1/2")	100	500		TEK50
WOOD BOT	том мо	DUNT ROD HANGER							
WOOD	ROD	SCREW SHANK		POINT P	RE-DRILL DIAMETER	DOV	CARTON	ELCO	ITW
CAI NO.	SIZE	SIZE / LENGIH		SIYLE (I	F REQUIRED)	100	CARION	HANGER MAIL®	CCT100
55VV14B	1/4	1/4 X Z (BOLLOTTI MOUTL)		Type 17 1	/0	100	500	EZG 315	CCT20
221/20D111	3/8 2/9"	$1/4 \times 2$ (BOLLOTH IVIOUTIL) $2/8" \times 2 \times 1/2" \times 1/4$ (Bottom Mount)		Type 17 1	/õ /o"	100	500	EZG 650	GST25 290
	1/2"	$2/8" \times 2 1/2"$ (Pottom Mount)		Type 17 1	/0	100	500		GST25-500
3344120	1/2			турети	10	100	500	-	0312.3-360
CONCRETE	BOTTON	1 MOUNT ROD HANGER							
CONCRETE	ROD	SCREW SHANK		THREAD	PRE-DRILL	DOV	CARTON	ELCO	ITW
CALINU.	5IZE 1/// "	1/4" x 1-1/4" (Bottom Mount)		ANSI Wedge-Bolt thre	DIAMETER ad 1/4" ANSI	100	500		CST200
SSC 388	3/8"	$1/4 \times 1-1/2$ (Bottom Mount)		ANSI Wedge-Bolt thre	ad 1/4" ANSI	100	500	EZG 303	C31200
SSC12B	1/2"	$3/8" \times 2-3/4"$ (Bottom Mount)		ANSI Wedge-Bolt thre		100	500		CST2
				vitisi wedge boit tine		100	500	_	CSIZ
STEEL SIDE	NOUN		DOINT					FLCO	IT\\/
CAT NO.	SIZE	SIZE / LENGTH	STYLE	RANGE		BOX	CARTON	HANGER MATE®	BUILDEX®
#3 FOR PURLINS								#3 FOR PURLINS	
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)	#3	0.036" (20 gag	e) — 0.188" (3/16")	100	500	EZH 155	SWDR100
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	EZH 476	SWDR516
		T ROD HANGER		POINT				FICO	ITM/
WOOD SIDE WOOD CAT NO.	ROD SIZE	T ROD HANGER SCREW SHANK SIZE / LENGTH		POINT STYLE	PRE-DRILL DIAMETER (F REQUIRED)	вох	CARTON	ELCO HANGER MATE®	ITW BUILDEX®
WOOD SIDE WOOD CAT NO. SSW14S	ROD SIZE 1/4"	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount)		POINT STYLE Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 "	BOX 100	CARTON 500	ELCO HANGER MATE® EZH 320	ITW BUILDEX® SWG200
WOOD SIDE WOOD CAT NO. SSW14S SSW38S	NOUN ROD SIZE 1/4" 3/8"	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount)		POINT STYLE Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8" 1/8"	BOX 100 100	CARTON 500 500	ELCO HANGER MATE® EZH 320 EZH 665	TW BUILDEX® SWG200 SWG20
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL	MOUN ROD SIZE 1/4 " 3/8 " 3/8 "	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)		POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8" 1/8" 1/8"	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL	MOUN ROD SIZE 1/4" 3/8" 3/8" ES	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)		POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 "	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI	MOUN ROD SIZE 1/4" 3/8" 3/8" SOCKET	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)	SUGGE	POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 "	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI NUT DRIVER CAT NO.	NOUN SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION	SUGGE	POINT STYLE Type 17 Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " COLOR	BOX 100 100 100	CARTON 500 500 500 CARTON	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI NUT DRIVER CAT NO. UNIB*	NOUN SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT 1/4" Sha	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION Nk Universal Installation Tool	SUGGE GUIDEI 500 —	POINT I STYLE Type 17 Type 17 Type 17 Type 17 STED USAGE LINES - 1500 RPM drill speed	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " COLOR d Red	BOX 100 100 100 BOX 5	CARTON 500 500 500 CARTON 25	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670 EZH 670 ELCO HANGER MATE® Several	TW BUILDEX® SWG 200 SWG 20 SWG 25-380 TW BUILDEX® #14
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL ACCESSORI NUT DRIVER CAT NO. UNIB* SCP14**	MOUN ROD SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT 1/4" Sha 1/4" Cor	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION NK Universal Installation Tool COR	SUGGE GUIDEL 500 —	POINT I STYLE Type 17 Type 17 Type 17 Type 17 STED USAGE LINES - 1500 RPM drill speed	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " 1/8 " COLOR d Red Blue	BOX 100 100 100 BOX 5 5	CARTON 500 500 500 500 CARTON 25 25	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG 200 SWG 20 SWG 25-380 TW BUILDEX® #14

SCP50** 1/2" Concrete Installation Tool Blue П 5 25 SS3009 Installation Tool Kit for Concrete Anchors 1 10 ELCO HANGER MATE® ITW BUILDEX® POLE TOOL CAT NO. DESCRIPTION 8122910 PT612 6' - 12' Pole Tool (includes three Jaw Chuck)













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CROSS REFERENCE CHART

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

INSTAL	LATION	SPECIFI	CATIONS	

STEEL DOTTIE	ROD HANGING S	YSTEM	WOOD DOTTIE ROD HANGING SYSTEM			
POINT STYLE	# 3	# 5	SCREW SIZE	1/4" WOOD (THREAD FORMING)	3/8" WOOD (THREAD FORMING)	
Screw Size (UNC)	1/4" - 20 thread	1/4" - 20 thread	Point Style	Type 17	Type 17	
Root Diameter (in)	13/64"	13/64"	Root Diameter (in)	3/16"	5/16"	
Thread Length (in)	1-3/16" (1-1/2"screw)	31/32" (1-1/2" screw)	Thread Length (in)	Screw length less 5/16"	Screw length less 5/16"	
Flange Thickness (in)	1/16"	1/16"	Flange Thickness (in)	1/16"	1/16"	
Drill Speed (RPM)	500 - 1,500	500 - 1,500				

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) (ir	n) 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) HANG	ING SYS	STEM
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.



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. 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.

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



Bottom Mount

Dottie

R Ε 0 D L STEEL DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Minimum ASTM A 36 Steel (Purlins and Beams) STEEL GAGE (THICKNESS) 20 0.036" 18 0.048" 3/16" 0.187' 16 14 12 0.105" 1/4" 0.060" 0.0.75" 0.250" (LBS) (LBS) (LBS) (LBS) (LBS) (LBS) (LBS) 1,550 1,550 1,775 1,775 2,050 3,850 5,040 1,550 1,775 2,050 1,550 1,775 2,050 3,850 1,550 1,550 1,775 1,775 2,050 3,850 5,040 3/8" 1/4"-20 x 1-1/2" (w/nut) 1,775 Side Mount 1,550 1,550 1,775 2,050 3,850 2,050

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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 HAN	IGING SYSTEM	- Ultimate Load Capa	cities Installed in Wood	Base Materials (Structu	ral 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.

CONCRE	TE DOTTIE R	DD HANGING	SYSTEM -	Ultimate L	oad Capa	cities Installed	d in Normal	Weight Con	crete		
ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	2,000 PSI C TENSION (LBS)	CONCRETE SHEAR (LBS)	4,000 PSI CO TENSION (LBS)	ONCRETE SHEAR (LBS)	6,000 PSI CON TENSION (LBS)	VCRETE SHEAR (LBS)
1/4"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft Ibs.	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 Ibs.	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 Ibs.	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.

12-24 x 1-1/2" (w/nut)

CONCRET	E DOTTIE ROD	HANGING SYSTE	M - Ultimate Tensi	on Load Capacities	Installed in Hollov	v 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 Ibs.	3,700	2,570
1/2"	Bottom Mount	3/8" x 2-3/4"	3/8"	2-3/4"	35 ft Ibs.	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 ode, 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.

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HANGING SYSTEM

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 D	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 is 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 Ihdottie.com for further details.





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INSTALLED COS	т сом	PARISO	N													
	Industri	al Factors		Base Material		Typical Installed Cost		lost			Rod Sizes			Tip/Drill Diameter (ANSI)		
	Speed of Install	Cost of Installed Product	Installation Ease	Concrete	Metal	Wood	\$ Labor	\$ Labor / (min)	Typical Time (min)	\$ Material	\$ Total	1/4"	3/8"	1/2"	1/4"	3/8"
Steel Dottie Rod Hanger		VERY					\$0.77	\$0.77	1	\$1.73	\$2.50					
Wood Dottie Rod Hanger		VERY					\$0.77	\$0.77	1	\$1.42	\$2.19					
Concrete Dottie Rod Hanger							\$3.85	\$0.77	5	\$1.42	\$5.27					
Fast / Low / Easy		Medium / A	werage	Slow /	' High / Diffi	cult	Characte	eristics / Sizes	*Li s Ste	abor rates bas amfitters, repo	ed on ENR 20 ort dated June	-City average 2002.	of hourly pay	scales for Ele	ectricians, Plum	bers and

Notes

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S I M P L E R What is the Dottie Rod Hanging System? What is

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

Dottie

SAVE IN INS	TALLATION	COSTS						
STEEL	SPEED OF	INSTALLE	0	Т	YPICAL C	OST INSTAL	LED (3/8" SIZE)	
BASE MATERIAL	INSTALLATION	COST	INSTALLATION	LABOR/MIN	TIME	LABOR	MATERIAL	TOTAL
Steel	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	INSTALLEI COST	D INSTALLATION	T LABOR/MIN	PICAL CO	ST INSTALI	LED (3/8" SIZE) MATERIAL	TOTAL
Wood	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	INSTALLEI COST	D INSTALLATION	TYF Labor/Min	PICAL COS TIME	ST INSTALLE LABOR	D (3/8" SIZE) MATERIAL	TOTAL
Concrete	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.



CONCRETE



STEEL



What is the Dottie Rod Hanging System For?

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- Pipe hanging
- Conduit
- Eye rod
- Cable Trays
- Lighting systems
- Strut channels
- Overhead utilities
- Sprinkler systems
- Drop ceilingsHVAC 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

DOTTIE



ROD HANGING

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Sammy™ and Sammy Super Screw® are trademarks owned by Illinois Tool Works Inc. Hanger Mate[™] is a registered trademark of Elco Textron Inc.

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 Ihdottie.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.
 - In Steel the #5 has a rake tip which is unmatched in drilling speed. 4.
 - In Concrete the ANSI Wedge-Bolt threads hold more. 5.
 - The Dottie Rod Hanging System drivers are simple and universal (one for steel & wood). 6.
 - 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.



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s	T	М	Р
STEEL BOT		OUNT ROD HANGER	
STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	
#3 FOR PURLINS			
SSM14B	1/4 "	1/4"-20 x 1" (Bottom Mo	unt)
SSM38BR	3/8 "	1/4"-20 x 1-1/2" (Bottom	Mount w/nu
#5 FOR BEAMS			
SSM12BR	1/2 "	12-24 x 1-1/2" (Bottom N	lount w/nut)
WOOD BO	TTOM N	IOUNT ROD HANGER	
WOOD CAT NO	ROD	SCREW SHANK	
SSW14B	1/4"	1/4" x 2" (Bottom Mount	·)
SSW38B	3/8"	1/4"x 2" (Bottom Mount)	7
SSW38BUL	3/8"	3/8" x 2-1/2" U/L (Bottom	Mount)
SSW12B	1/2 "	3/8" x 2-1/2" (Bottom M	ount)
CONCRET			CER
CONCRETE			ULN
CAT NO.	SIZE	SIZE / LENGTH	
SSC14B	1/4 "	1/4" x 1-1/4" (Bottom Mo	ount)
SSC38B	3/8 "	1/4" x 1-1/2" (Bottom Mo	ount)
SSC12B	1/2 "	3/8" x 2-3/4" (Bottom Mo	ount)
STEEL SID	E MOUN	T ROD HANGER	
STEEL CAT NO.	ROD SIZE	SCREW SHANK SIZE / LENGTH	
#3 FOR PURLINS			
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)
SSM38SR	3/8"	1/4"20 x 1-1/2" (Side Mo	ount w/nut)
WOOD SIE	DE MOUI	NT ROD HANGER	
vood At No.	ROD SIZE	SCREW SHANK SIZE / LENGTH	

CAT NO.	SIZE	SIZE / LENGTH		STYLE SELF-DRIL	LING RANGE	BOX	CARTON	HANGER MATE®	BUILDEX®
#3 FOR PURLINS								#3 FOR PURLINS	
SSM14B	1/4"	1/4"-20 x 1" (Bottom Mount)		#3 0.036" (2	20 gage) — 0.188" (3/16")	100	500	EZG 160	DSTR100
SSM38BR	3/8"	1/4"-20 x 1-1/2" (Bottom Mount w/nut))	#3 0.036" (2	20 gage) — 0.188" (3/16")	100	500	EZG 471	DSTR516
#5 FOR BEAMS								#5 FOR BEAMS	
SSM12BR	1/2 "	12-24 x 1-1/2" (Bottom Mount w/nut)		#5 0.188" (3	8/16") — 0.500" (1/2")	100	500		TEK50
WOOD BOT	том мо	DUNT ROD HANGER							
WOOD	ROD	SCREW SHANK		POINT P	RE-DRILL DIAMETER	DOV	CARTON	ELCO	ITW
CAI NO.	SIZE	SIZE / LENGIH		SIYLE (I	F REQUIRED)	100	CARION	HANGER MAIL®	CCT100
55VV14B	1/4	1/4 X Z (BOLLOTTI MOUTL)		Type 17 1	/0	100	500	EZG 315	CCT20
221/20D111	3/8 2/9"	$1/4 \times 2$ (BOLLOTH IVIOUTIL) $2/8" \times 2 \times 1/2" \times 1/4$ (Bottom Mount)		Type 17 1	/õ /o"	100	500	EZG 650	GST25 290
	1/2"	$2/8" \times 2 1/2"$ (Pottom Mount)		Type 17 1	/0	100	500		GST25-500
3344120	1/2			турети	10	100	500	-	0312.3-360
CONCRETE	BOTTON	1 MOUNT ROD HANGER							
CONCRETE	ROD	SCREW SHANK		THREAD	PRE-DRILL	DOV	CARTON	ELCO	ITW
CALINU.	5IZE 1/// "	1/4" x 1-1/4" (Bottom Mount)		ANSI Wedge-Bolt thre	DIAMETER ad 1/4" ANSI	100	500		CST200
SSC 388	3/8"	$1/4 \times 1-1/2$ (Bottom Mount)		ANSI Wedge-Bolt thre	ad 1/4" ANSI	100	500	EZG 303	C31200
SSC12B	1/2"	$3/8" \times 2-3/4"$ (Bottom Mount)		ANSI Wedge-Bolt thre		100	500		CST2
				vitisi wedge boit tine		100	500	_	CSIZ
STEEL SIDE	NOUN		DOINT					FLCO	IT\\/
CAT NO.	SIZE	SIZE / LENGTH	STYLE	RANGE		BOX	CARTON	HANGER MATE®	BUILDEX®
#3 FOR PURLINS								#3 FOR PURLINS	
SSM14S	1/4"	1/4"-20 x 1" (Side Mount)	#3	0.036" (20 gag	e) — 0.188" (3/16")	100	500	EZH 155	SWDR100
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	EZH 476	SWDR516
		T ROD HANGER		POINT				FLCO	ITM/
WOOD SIDE WOOD CAT NO.	ROD SIZE	T ROD HANGER SCREW SHANK SIZE / LENGTH		POINT STYLE	PRE-DRILL DIAMETER (F REQUIRED)	вох	CARTON	ELCO HANGER MATE®	ITW BUILDEX®
WOOD SIDE WOOD CAT NO. SSW14S	ROD SIZE 1/4"	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount)		POINT STYLE Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 "	BOX 100	CARTON 500	ELCO HANGER MATE® EZH 320	ITW BUILDEX® SWG200
WOOD SIDE WOOD CAT NO. SSW14S SSW38S	NOUN ROD SIZE 1/4" 3/8"	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount)		POINT STYLE Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8" 1/8"	BOX 100 100	CARTON 500 500	ELCO HANGER MATE® EZH 320 EZH 665	TW BUILDEX® SWG200 SWG20
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL	MOUN ROD SIZE 1/4 " 3/8 " 3/8 "	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)		POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8" 1/8" 1/8"	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL	MOUN ROD SIZE 1/4" 3/8" 3/8" ES	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)		POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 "	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI	MOUN ROD SIZE 1/4" 3/8" 3/8" SOCKET	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount)	SUGGE	POINT STYLE Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 "	BOX 100 100 100	CARTON 500 500 500	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI NUT DRIVER CAT NO.	NOUN SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION	SUGGE	POINT STYLE Type 17 Type 17 Type 17 Type 17	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " COLOR	BOX 100 100 100	CARTON 500 500 500 CARTON	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG200 SWG 20 SWG25-380
WOOD SIDE WOOD CAT NO. SSW145 SSW385 SSW38SUL ACCESSORI NUT DRIVER CAT NO. UNIB*	NOUN SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT 1/4" Sha	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION Nk Universal Installation Tool	SUGGE GUIDEI 500 —	POINT I STYLE Type 17 Type 17 Type 17 Type 17 STED USAGE LINES - 1500 RPM drill speed	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " COLOR d Red	BOX 100 100 100 BOX 5	CARTON 500 500 500 CARTON 25	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670 EZH 670 ELCO HANGER MATE® Several	TW BUILDEX® SWG 200 SWG 20 SWG 25-380 TW BUILDEX® #14
WOOD SIDE WOOD CAT NO. SSW14S SSW38S SSW38SUL ACCESSORI NUT DRIVER CAT NO. UNIB* SCP14**	MOUN ROD SIZE 1/4" 3/8" 3/8" ES SOCKET DESCRIPT 1/4" Sha 1/4" Cor	T ROD HANGER SCREW SHANK SIZE / LENGTH 1/4" x 2" (Side Mount) 1/4" x 2" (Side Mount) 3/8" x 2-1/2" U/L (Side Mount) ION NK Universal Installation Tool COR	SUGGE GUIDEL 500 —	POINT I STYLE Type 17 Type 17 Type 17 Type 17 STED USAGE LINES - 1500 RPM drill speed	PRE-DRILL DIAMETER IF REQUIRED) 1/8 " 1/8 " 1/8 " 1/8 " COLOR d Red Blue	BOX 100 100 100 BOX 5 5	CARTON 500 500 500 500 CARTON 25 25	ELCO HANGER MATE® EZH 320 EZH 665 EZH 670	TW BUILDEX® SWG 200 SWG 20 SWG 25-380 TW BUILDEX® #14

SCP50** 1/2" Concrete Installation Tool Blue П 5 25 SS3009 Installation Tool Kit for Concrete Anchors 1 10 ELCO HANGER MATE® ITW BUILDEX® POLE TOOL CAT NO. DESCRIPTION 8122910 PT612 6' - 12' Pole Tool (includes three Jaw Chuck)













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

INSTAL	LATION	SPECIFI	CATIONS	

STEEL DOTTIE	ROD HANGING S	YSTEM	WOOD DOTTIE ROD HANGING SYSTEM				
POINT STYLE	# 3	# 5	SCREW SIZE	1/4" WOOD (THREAD FORMING)	3/8" WOOD (THREAD FORMING)		
Screw Size (UNC)	1/4" - 20 thread	1/4" - 20 thread	Point Style	Type 17	Type 17		
Root Diameter (in)	13/64"	13/64"	Root Diameter (in)	3/16"	5/16"		
Thread Length (in)	1-3/16" (1-1/2"screw)	31/32" (1-1/2" screw)	Thread Length (in)	Screw length less 5/16"	Screw length less 5/16"		
Flange Thickness (in)	1/16"	1/16"	Flange Thickness (in)	1/16"	1/16"		
Drill Speed (RPM)	500 - 1,500	500 - 1,500					

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) (ir	n) 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) HANG	ING SYS	STEM
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.



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. 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.

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



Bottom Mount

Dottie

R Ε 0 D L STEEL DOTTIE ROD HANGING SYSTEM - Ultimate Load Capacities Installed in Minimum ASTM A 36 Steel (Purlins and Beams) STEEL GAGE (THICKNESS) 20 0.036" 18 0.048" 3/16" 0.187' 16 14 12 0.105" 1/4" 0.060" 0.0.75" 0.250" (LBS) (LBS) (LBS) (LBS) (LBS) (LBS) (LBS) 1,550 1,550 1,775 1,775 2,050 3,850 5,040 1,550 2,050 1,550 1,775 1,775 2,050 3,850 1,550 1,550 1,775 1,775 2,050 3,850 5,040 3/8" 1/4"-20 x 1-1/2" (w/nut) 1,775 Side Mount 1,550 1,550 1,775 2,050 3,850 2,050

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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 HAN	IGING SYSTEM	· Ultimate Load Capa	cities Installed in Wood	Base Materials (Structu	ral 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.

CONCR	ETE DOTTIE RC	D HANGING	SYSTEM ·	- Ultimate L	oad Capa	cities Installed	d in Normal	Weight Con	crete		
ROD DIA.	MOUNT DIRECTION	SCREW SHANK SIZE & LENGTH	ANSI DRILL BIT DIAMETER	EMBEDMENT DEPTH	MAX. CLAMPING TORQUE	2,000 PSI C TENSION (LBS)	ONCRETE SHEAR (LBS)	4,000 PSI CO TENSION (LBS)	ONCRETE SHEAR (LBS)	6,000 PSI CON TENSION (LBS)	NCRETE SHEAR (LBS)
1/4"	Bottom Mount	1/4" x 1-1/4"	1/4"	1-1/4"	8 ft Ibs.	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 Ibs.	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 Ibs.	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.

12-24 x 1-1/2" (w/nut)

CONCRET	e dottie rod	HANGING SYSTE	M - Ultimate Tensi	on Load Capacities	Installed in Hollov	v 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 Ibs.	2,775	1,920
3/8"	Bottom Mount	1/4" x 1-1/2"	1/4"	1-1/2"	8 ft Ibs.	3,700	2,570
1/2"	Bottom Mount	3/8" x 2-3/4"	3/8"	2-3/4"	35 ft Ibs.	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 ode, 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.

1/2"

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HANGING SYSTEM

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 is 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 Ihdottie.com for further details.





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INSTALLED COS	т сом	IPARISC	DN													
	Industrial Factors			Base Material		Typical Installed Cost		Cost			Rod Sizes			Tip/Drill Diamete	er (ANSI)	
	Speed of Install	Cost of Installed Product	Installation Ease	Concrete	Metal	Wood	\$ Labor	\$ Labor / (min)	Typical Time (min)	\$ Material	\$ Total	1/4"	3/8"	1/2"	1/4"	3/8"
Steel Dottie Rod Hanger		VERY					\$0.77	\$0.77	1	\$1.73	\$2.50					
Wood Dottie Rod Hanger		VERY					\$0.77	\$0.77	1	\$1.42	\$2.19					
Concrete Dottie Rod Hanger							\$3.85	\$0.77	5	\$1.42	\$5.27					
LEGEND Fast / Low / Easy		Medium / A	Average	Slow	/ High / Diff	icult	Charact	eristics / Size	*L es Ste	abor rates bas eamfitters, rep	ed on ENR 20 ort dated June)-City averag e 2002.	e of hourly pa	y scales for El	ectricians, Plu	Imbers and

Notes

Dottie