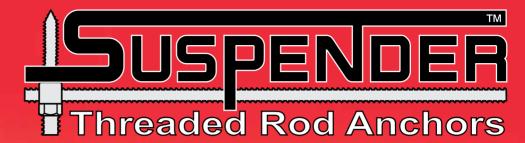


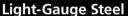
Innovative Fastening Technologies







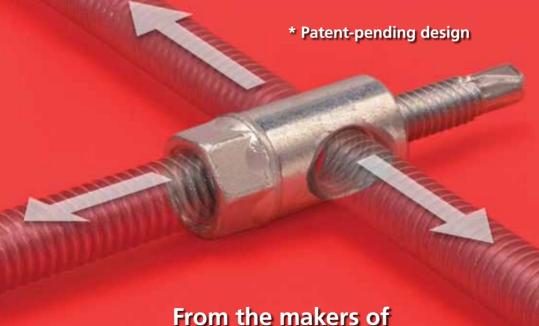
New Product featuring an exclusive dual-directional head*













High Performance in Threaded Rod Anchoring

The Next Generation of Engineered Anchors

Elco developed their line of solid, one-piece, cold formed HangerMate® anchors to speed installation of all threaded rod applications, including fire sprinkler, HVAC, refrigeration, general piping, and electrical systems. The entire HangerMate system features the **Power of One:** it is engineered so only one driver is needed for all anchor sizes (except HangerMate LG anchors), regardless of the substrate material.



Features & Benefits

Head won't spin off during installation

end-drilled

and tapped

self-tapping

threads

cross-drilled

and tapped

• New head style: both end- and cross-

drilled to accept vertical/in-line and

1/4-20 threaded components

Solid, one-piece, cold formed and



It's About Time: Saving Time = Saving Money

machined anchor

applications

Decreases

horizontal/side-mount

part numbers

- Accept 3/8-16 or

required to

complete a

project

Suspender threaded rod anchors are the next step in the evolution of threaded rod anchoring. These one-piece anchors feature heads that are both end-tapped and crosstapped to permit both in-line mounting and side-mounting of threaded rod systems, eye rings and more.

Suspender anchors still feature the **Power of One.** Select one driver – socket or sleeve - to drive all anchor sizes (except Suspender LG anchors). The Suspender drive sleeve eases switching between drilling and driving in concrete applications. Just the Suspender drive socket can be used with the self-drilling anchors for wood and steel, or in pre-drilled applications.

This new system allows you to consolidate your inventory to complete a project. It decreases downtime required to retrieve the

correct part. Many styles are Factory Mutual (FM) approved or Underwriters Lab (UL) listed (see selection guide).

Speed installation of fire sprinkler, HVAC, refrigeration, general piping, and electrical systems plus strut channels, cable trays, suspended ceiling grids, bridle rings and eye-rods: find out just how versatile and beneficial the Suspender anchoring system can be.



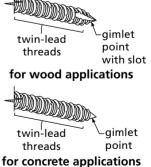








- Entire system requires only one driver (except for Suspender LG anchors)
 - EZE270-I adapter allows installation of 1/2-13 threaded rod components
 - Different thread and point styles available to meet the requirements of specific application materials



for steel applications

self-drilling

point



 LG style allows installation of threaded rod systems into light-gauge metals











							Listi	ngs and	Appro	ovals		
				Description		rtical/In	line M	lount	Hori	zontal/	Cross	Mount
	For Rod Size	Steel Thickness	Elco Catalog No.			UL Steel Thick.	FM Pipe Size	FM Steel Thick.	UL Pipe Size	UL Steel Thick.	FM Pipe Size	FM Steel Thick.
Suspender [™] Anch	ors for	Steel Appl	ications*									
	2/9 16	3/8-16 .060"210"	EZD470-I†	1/4-20 X 1 #3 point	4"	12 ga.	4"	12 ga.	4"	12 ga.	4"	12 ga.
	3/0-10		EZD470-1	1/4-20 X 1 #3 point w/nuts	4"	16 ga.	4"	16 ga.	4"	16 ga.	4"	16 ga.
	2/0.16		E7D 400 It	1/4-20 X 1-1/2 #3 point	4"	12 ga.	4"	12 ga.	4"	12 ga.	4"	12 ga.
	3/8-16	.060"210"	EZD490-I [†]	1/4-20 X 1-1/2 #3 point w/nuts	4"	16 ga.	4"	16 ga.	4"	16 ga.	4"	16 ga.
	2/0.46		575 540 Jt	1/4-20 X 1-1/2 #5 point	4"	12 ga.	4"	12 ga.	4"	12 ga.	4"	12 ga.
	3/8-16	.187"500"	EZD510-I [†]	1/4-20 X 1-1/2 #5 point w/nuts	4"	16 ga.	4"	16 ga.	4"	16 ga.	4"	16 ga.
Light-Gauge (LG) Steel												
	1/4-20	26 ga.–.187"	EZG610-I	collapsing insert	N/A	N/A	N/A	N/A	1	ay only		
	3/8-16	26 ga.–.187"	EZG620-I	collapsing insert	4"	22 ga.	4"	22 ga.	vertical/inline mou applications			

[†]These products ship with nuts, for applications that require nuts to qualify for the UL Listing and/or FM Approval shown.

		Elco			Listings and	d Approvals		
	Installs	Catalog		Vertical/In	line Mount	Horizontal/0	Cross Mount	
	Rod Size	No.	Description	UL Pipe Size	FM Pipe Size	UL Pipe Size	FM Pipe Size	
Suspender Anchors fo	r Wood Ap	plications						
	3/8-16	EZD650-I	5/16 X 2-1/4	4"	4"	4"		
Suspender Anchors fo	r Concrete	Application	ıs					
	3/8-16	EZD730-I	5/16 X 2-1/4		4"		4"	
Suspender MP (Multi-Purpose) Anchors for Steel, Wood or Concrete Applications								
	3/8-16	EZD930-I	1/4-10X2	NA	NA	NA	NA	

NOTE: It is the responsibility of the installer to determine the application-specific details under which a code approval or listing was granted. Contact Elco Construction Products for more information.

NOTE: 1/4" Rod Adapter EZE270-I on following page.

Installation Tools

	Elco Cat. No.	Description
Steel and Wood Appli	cations	
	EZE415	Drive Socket
Concrete Applications		
	EZE420	Drive Sleeve
	EZE240	Drill Bit Adapter
	EZE340	ANSI 1/4" Tanged Drill Bit for Hammer Drills
	EZE350	ANSI 1/4" SDS Drill Bit for Rotary Hammer Drills

	Elco Cat. No.	Description
Light-Gauge Steel App	olications	
	EZE320	25/64 Drill Bit with Stop Collar
	EZE290	Manual Tool
	EZE330	19/32 Drill Bit with Stop Collar
	EZE490	Manual Tool



HangerMate® Anchors for Steel Applications

Rod Size	Steel Thickness	Elco Cat. No.	Description	UL Pipe Size	UL Steel Thickness	FM Pipe Size	FM Steel Thickness
1/4-20	.060 – .250	EZG160-I	1/4-20X1 #3 point	N/A	N/A	N/A	N/A
3/8-16	.060 – .250	EZG471-I	1/4-20X1 #3 point w/nuts	4"	0.060"	4"	16 ga.
3/8-16	.060 – .250	EZG530-I	1/4-20X2 #3 point			4"	0.125"

HangerMate Anchors for Wood Applications

	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size	
	1/4-20	EZG315-I	5/16X2-1/4	NA	NA	
	3/8-16	EZG650-I	5/16X2-1/4	4"	4"	
	3/8-16	EZG670-I	5/16X3	4"	4"	
HangerMate Anchors for	r Concrete App	olications				
	1/4-20	EZG365-I	5/16X2-1/4	NA	NA	
	3/8-16	EZG730-I	5/16X2-1/4		4"	

NOTE: It is the responsibility of the installer to determine the application-specific details under which a code approval or listing was granted. Contact Elco Construction Products for more information.

Installation Tools

Elco Cat. No.	Description
EZE215	Drive Socket
EZE220	Drive Sleeve
EZE240	Drill Bit Adapter
EZE320	25/64 Drill Bit with Stop Collar

	Elco Cat. No.	Description
« « « « « « « « « « « « « « « « « « «	EZE340	ANSI 1/4" Tanged Drill Bit for Hammer Drills
	EZE350	ANSI 1/4" SDS Drill Bit for Rotary Hammer Drills
	EZE360	7/32" Tanged Drill Bit for Hammer Drills
	EZE380	7/32" SDS Drill Bit for Rotary Hammer Drills

1/2" Threaded Rod Adapter for Both Suspender™ and HangerMate® Anchors All Materials

			Listings ar	d Approvals
Rod	Elco Cat.		Vertical/II	nline Mount
Size	No.	Description	UL Pipe Size	FM Pipe Size
1/2-13	EZE270-I	1/2-13 Internally-threaded anchor with 3/8-16 external thread (fits Suspender and HangerMate anchors for 3/8-16 rod)	NA	NA





Performance Data for Suspender™ and HangerMate® Anchors



Average Ultimate Value (lbs)* Steel Applications

	Rod	Anchor	Steel Thickness					
Cat. No.	Size	Shank	062"	.074"	.104"	.125"	.1875"	.250"
EZD470-I	3/8-16	1/4-20	786	1139	1738	2376	4694	NA
EZD470-I with nuts	3/8-16	1/4-20	3435	4024	4279	4692	5812	NA
EZD490-I	3/8-16	1/4-20	786	1139	1738	2376	4694	NA
EZD490-I with nuts	3/8-16	1/4-20	3435	4024	4279	4692	5812	NA
EZD510-I	3/8-16	1/4-20	N/A	N/A	N/A	N/A	3677	5207
EZD510 -I with nuts	3/8-16	1/4-20	3435	4024	4279	4692	5812	5909

Light-gage Steel Applications

Cat.	Rod			Gage		
No.	Size	26	22	20	18	16
EZG610-I	1/4-20	848	1025	1153	1410	1880
EZG620-I	3/8-16	_	1500	1500	1500	1880

Wood Applications

Cat. No.		Anchor Shank	Douglas Fir	Southern Pine	Hem-fir	
EZD650-I	3/8-16	5/16-14	2487	2162	1768	

Concrete Applications

			3650 PSI Concrete		
Cat. No.	Rod Size	Anchor Shank	Vertical/In-Line Applications	Horizontal/Cross Applications	
EZD730-I	3/8- 16	5/16-14	2188	2767	

Suspender MP (Multi-Purpose) Anchors

Material	Value	Material	Value
Southern Pine	541	12 ga. Steel	1754
16 ga. Steel	880	1/8" Steel	2505
14 ga. Steel	1106	Concrete (3300 PSI)	2933

HANGER Mate

Average Ultimate Value (lbs)* Steel Applications

Cat.	Rod	Anchor	Steel Thickness					
No. Size	Size	Shank	.062"	.074"	.104"	.125"	.1875"	.250"
EZG160-I	1/4-20	1/4-20	786	1139	1738	2376	4694	5994
EZG471-I	3/8-16	1/4-20	3435	4024	4279	4692	5812	5909
EZG530-I	3/8-16	1/4-20	786	1139	1738	2376	4694	5994

Wood Applications

Cat#	Rod Size	Anchor Shank	Douglas Fir	Southern Pine	Hemfir
EZG315-I	1/4-20	5/16-14	2487	2162	1768
EZG650-I	3/8-16	5/16-14	2487	2162	1768
EZG670-I	3/8-16	5/16-14	2487	2162	1768

Concrete Applications

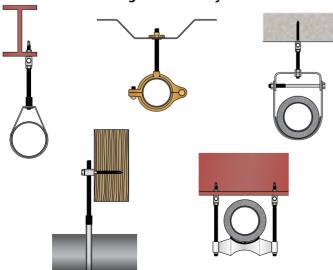
Cat#	Rod Size	Anchor Shank	3650 PSI Concrete
EZG365-I	1/4-20	5/16-14	2188
EZG730-I	3/8-16	5/16-14	2188

*Performance Testing Notes (both Suspender and HangerMate Anchors):

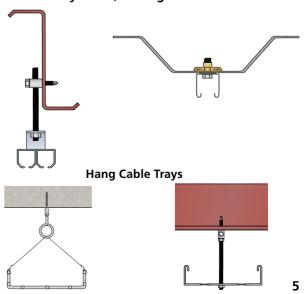
- 1. The loads indicated are average ultimate values achieved under laboratory conditions and appropriate safety factors should be applied for design purposes.
- 2. NFPA (National Fire Protection Assoc.) minimum fastening requirements are five times the weight of a 15-foot section of water filled pipe plus 250 lbs. This is 1475 lbs. for 4" pipe.
- 3. All test values were obtained using 3/8-16 rod. When 1/4-20 rod is used, the strength of the rod may be less than the pull-out values of the anchors.

Sample Applications

Attach Loop, Clamp Ring and Clevis Hangers and Shoes to Hang Piping for Sprinkler, General Plumbing and Other Systems



Mount Struts and Tracking Systems for Electrical Systems, Ceiling Grids and More





Threaded Rod Hanger Cross Reference

Steel Applications					
Part Description	Rod Size	Vertical/Horizontal	Threaded Rod Anchors Part No.	Original Hangermate® Part No.†	ITW Sammys® Part No.
				EZG450	DST10
				EZG470	DSTR1
1/4-20 x 1	2/0.46	5.4	F=0.4=0.1	EZG471	DSTR516
No. 3 point w/nuts	3/8-16 rod	Both	EZD470-I	EZH455	SWD10
				EZH475	SWD15
				EZH476	SWDR1
				EZG490	DST15
1/4-20 x 1-1/2	2/0.46	5	570 400 1	EZG491	SWD15
No. 3 point w/nuts	3/8-16 rod	Both	EZD490-I	EZH495	DST516
				EZH496	SWDR516
				EZG510	TEK50
1/4-20 x 1-1/2				EZG511	DSTR1 1/2
No. 5 point w/nuts	3/8-16 rod	Both	EZD510-I	EZH515	SWT15
				EZH516	SWDR1-1/2
1/4-20 x 1 No. 3 point	1/4-20 rod	Vertical	EZG160-I	_	DSTR100
1/4-20 x 1 No. 3 point w/nuts	3/8-16 rod	Vertical	EZG471-I	-	DSTR516
1/4-20 x 2 No. 3 point	3/8-16 rod	Vertical	EZG530-I	_	DST20
Wood Applications	1 -1- 1-1-	1 0.0.00		I.	
Part Description	Rod Size	Vertical/Horizontal	Suspender Part No.	Original Hangermate® Part No.†	ITW Sammys Part No.
rait Description	Rou Size	vertical/Horizonital	Suspender Fart No.	Original Hangermate Fart No.	GST10
					GST20
	3/8-16 rod	Both		F7CCF0	GST25-380
5/16 x 2-1/4			EZD650-I	EZG650 EZH665	SWG10
					SWG20
					SWG25-380
5/16 x 2-1/4	1/4-20 rod	Vertical	EZG315-I	_	GST200
3/10 X 2-1/4	1/4-20100	Vertical	L20313-1	_	GST10
5/16 x 2-1/4	3/8-16 rod	Vertical	EZG650-I	_	GST20
3/10 X 2-1/4	3/0-10100	vertical	L2G030-1		GST25-380
5/16 x 3	3/8-16 rod	Vertical	EZG670-I	_	GST30
Concrete Applications	5		1		
Part Description	Rod Size	Vertical/Horizontal	Suspender Part No.	Original Hangermate® Part No.†	ITW Sammys Part No.
				EZG730	CST20
5/16 x 2-1/4	3/8-16 rod	Both	EZD730-I	EZH735	SWC20
5/16 x 2-1/4	1/4-20 rod	Vertical	EZG365-I	_	CST200
5/16 x 2-1/4	3/8-16 rod	Vertical	EZG730-I	_	CST20
Specialty Application			Į.		
Part Description	Rod Size	Vertical/Horizontal	Cuspondor Dort No	Original Hangarmate® Bart No 1	ITM Commus Dort No
•	Rod Size	vertical/Horizontal	Suspender Part No.	Original Hangermate® Part No.†	ITW Sammys Part No.
1/4-10 x 2 No. 2 point	3/8-16 rod	Both	EZD930-I	-	_
1/4-20 Insert	1/4-20 rod	Both	EZG610	-	XP200
3/8-16 Insert	3/8-16 rod	Both	EZG620	EZG580 EZG590 EZG600	XP20 XP35
	1/2-13 rod	Both	EZE270 (NOTE: Must be used in conjunction with any Suspender or HangerMate 3/8 rod hanger)		GST2
					GST3
					DST2.0
1/2" Adapter				_	DSTR1.0
•					DSTR5.16
					DST5.16
					TEK5.0
					CST2

USPENDER Installation Instructions

Steel or Wood Applications

Suspender anchors drill their own holes in metal and wood applications, so pre-drilling is unnecessary. Insert the Suspender EZE415 (HangerMate EZE215) drive socket in your drive tool, then place the anchor in the socket.

Simply position the self-drilling point of the anchor at the intended point of installation, and drive the anchor. The hex drive will automatically disengage when anchor is seated.







Light-Gage Steel Applications

For EZG610-I anchor use EZE320 or other 25/64" drill bit to drill a hole in the metal. For EZG620-I anchor use EZ330 or other 19/32" drill bit to drill hole in the metal.

Use the proper manual tool (EZE290 tool for EZG610-I anchors; EZE490 tool for EZG620-I anchors). Thread anchor onto threaded shaft of tool. Rotate shaft clockwise until head of anchor hits tool sleeve.

Insert anchor fully into drilled hole. Turn shaft clockwise until firm resistance is felt. Turn shaft counterclockwise to break threads of tool loose from insert. Thread rod or component into Suspender anchor.

Suspender LG tools speed installation of LG anchors into light-gage steel.













Concrete/Masonry Applications

For SDS-drive drills, use Elco drill bit EZE350; for keyed chuck-type drills, use Elco tanged bit EZE340 installed in adapter EZE240. Drill at least 2-1/2" into the concrete.

Slide concrete drive sleeve EZE420 (HangerMate EZE220) over bit and onto hex. Insert anchor into socket and install. Drive until the SafetySet feature seats the anchor and disengages.

Parts can also be installed in concrete using a standard 1/4" masonry bit to drill the hole and using the Suspender EZE415 (HangerMate EZE215) drive socket to set the anchor.









Suspender drill bits are engineered for accurate drilling in concrete applications.

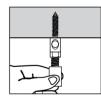




The EZE220 drive sleeve slips over drill bits to ease installation of Suspender anchors in concrete.

Installation of EZE270-I Adapter For 1/2-13 Threaded Rod

Simply install any 3/8" HangerMate anchor as required, then thread the EZE270-I adapter into it.



NOTE: Use of adapter does not increase performance value of 3/8" Suspender anchor. Check corresponding 3/8" anchor specifications for load-carrying capacity and add appropriate safety factor.

NOTES: As with all cutting tools and fasteners, normal safety precautions should be observed to avoid electrical installations, other utilities and reinforcement bars. Careful use will provide the utmost safety and reliability. The wearing of safety glasses by users and persons in the vicinity is required by Federal Law.

Shoulders of installed Suspender anchors must be flush to the metal, masonry or wood substrate materials. Suspender anchors should not be subjected to vibratory or shock loads resulting from such applications as anchorings for reciprocating machinery, crane rails or hoists.

Care should be taken to not damage Suspender anchors or the substrate into which they are installed when loading pipe, installing cable tray, or otherwise suspending components from Suspender anchors. Failure to do so may result in significant loss of holding power.

Complete Suspender product information and technical application assistance is available from Elco Construction Products at 1.800.435.7213



Product and Warranty Information

Fasteners must be used only in compliance with applicable building codes and as approved by authorities having jurisdiction.

To reduce the risk of installation failure resulting in injury or property damage, follow all safety and installation instructions. Follow all installation tool safety instructions.

Code listings and approvals require that Suspender anchors be installed with Suspender drive sockets.

Shoulders of installed Suspender anchors must be flush to the metal, masonry or wood substrate materials. Suspender anchors should not be subjected to vibratory or shock loads resulting from applications such as anchorings for reciprocating machinery, crane rails or hoists.

Care should be taken to not damage Suspender anchors or the substrate into which they are installed when loading pipe, installing cable tray, or otherwise suspending components from Suspender anchors. Failure to do so may result in significant loss of holding power.

As with the use of all cutting tools and fasteners, normal safety precautions should be observed to avoid electrical installations, other utilities and reinforcement bars.

This literature was prepared as an introductory summary of the Suspender threaded rod anchoring system from Elco Construction Products and is not, therefore, intended to describe all hazards, limitations, warnings, precautions, etc. pertaining to the use of the product. The information and data presented herein are believed to be accurate and reliable, however, due to the wide variety of possible intervening factors, the suitability of the product for the use intended is the sole responsibility of the user. Specifications and other information contained herein supersede all previously published material and are subject to change without notice.

For complete and up-to-date code listings and approvals, safety and installation instructions, and other information, see. www.elcoconstruction.com.

All Suspender anchors are warranted to be manufactured free from defects in material and workmanship. Under this warranty, Elco Construction Products will provide, at no charge, replacement product for any Suspender anchors proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all warranties, expressed or implied, and in no case will Elco Construction Products be liable for incidental, liquidated or consequential damages.

For applications assistance or more information, please contact:



Phone: 800-435-7213 (USA & Canada)

Fax: 563-387-3540

www.elcoconstruction.com