

HangerMate® anchors were designed to speed installation of fire sprinkler, HVAC, refrigeration, general piping, and electrical systems. They can also be used to install strut channels, cable trays, suspended ceiling grids, bridle rings and eye-rods.

HangerMate anchors can replace beam clamps, powder-actuated stud pins, eye sockets, or ceiling flanges, and eliminate labor-intensive operations such as pre-punching or drilling of steel components.

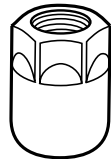
## Power of One

The entire system has been re-engineered so only one driver is needed for all anchor sizes (except HangerMate LG anchors), regardless of the substrate material. Preparing concrete applications is accomplished with a standard 1/4" drill bit.

## Head Styles

Two head styles are available:

- HangerMate vertical-mount anchors feature a tapped head to permit in-line mounting of threaded rod systems
- HangerMate side-mount anchors feature a cross-drilled and tapped head to permit side-mounting of threaded rod systems



end-drilled head



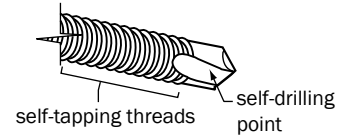
cross-drilled head

Both head styles feature a wide array of thread and point styles for use in steel, concrete, masonry or wood applications, including the MP style that can be used in all three materials. Many styles are Factory Mutual (FM) approved or Underwriters Lab (UL) listed (see following pages).

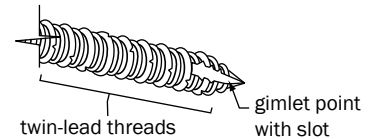
Find out just how versatile and beneficial the HangerMate anchoring system can be.

## Features & Benefits

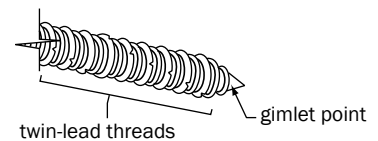
- Solid, one-piece, cold formed and machined anchor
- Entire system requires only one driver (except for HangerMate LG anchors)
- Heads precision drilled and tapped to accept 3/8-16 or 1/4-20 threaded components
- EZE270 adapter allows installation of 1/2-13 threaded rod components
- LG style allows installation of threaded rod systems into light-gage metals
- MP style can be used in metal, wood or concrete, reducing the number of parts that need to be stocked
- Different thread and point styles available to meet the requirements of specific application materials
- Special hex nuts supplied as required
- Many styles UL listed and/or FM approved (see table inside)
- Ease assembly of HVAC, fire sprinkler, refrigeration, piping, and electrical systems for ceiling- or wall-mounted applications



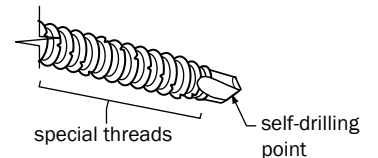
for steel applications



for wood applications



for concrete applications



MP style for steel, wood or concrete applications



## Elco Construction Products

1301 Kerr Drive • Decorah, IA 52101

**1.800.435.7213**

Fax: 563.387.3540

[www.elcoconstruction.com](http://www.elcoconstruction.com)







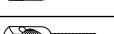
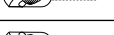

## HangerMate® Threaded Rod Anchoring System

### Steel Applications\*

#### Vertical Mount – End-Drilled Head

	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	1/4-20X1 #3 point	N/A	N/A	N/A	N/A
	3/8-16	.060 - .125	EZG450	1/4-20X1 #2 point	4"	0.125"		
	3/8-16	.060 - .250	EZG470	1/4-20X1 #3 point	4"	0.125"	4"	12 ga.
	3/8-16	.060 - .250	EZG471	1/4-20X1 #3 point w/nuts	4"	0.060"	4"	16 ga.
	3/8-16	.060 - .250	EZG490	1/4-20X1-1/2 #3 point	4"	0.125"	4"	12 ga.
	3/8-16	.060 - .250	EZG491	1/4-20X1-1/2 #3 point w/nuts	4"	0.060"	4"	16 ga.
	3/8-16	.060 - .250	EZG530	1/4-20X2 #3 point			4"	0.125"
	3/8-16	.060 - .250	EZG540	1/4-20X3 #3 point				
	3/8-16	.187 - .500	EZG510	1/4-20X1-1/2 #5 point	4"	0.125"	4"	0.125"
	3/8-16	.060 - .500	EZG511	1/4-20X1-1/2 #5 point w/nuts	4"	0.060"	4"	16 ga.
	1/4-20	26 ga. -.187"	EZG610	1/4-20 collapsing insert	N/A	N/A	N/A	N/A
	3/8-16	26 ga. -.187"	EZG580	1/4-20X1; use with EZG610	2.5"	22 ga.	4"	12 ga.
	3/8-16	26 ga. -.187"	EZG590	1/4-20X1; use with EZG610	3.5"	18 ga.	4"	12 ga.
	3/8-16	26 ga. -.187"	EZG600	1/4-20X1; use with EZG610	4"	16 ga.	4"	12 ga.

#### Horizontal Mount – Cross-Drilled Head

	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	EZH155	1/4-20X1 #3 point	N/A	N/A	N/A	N/A
	3/8-16	.060 - .125	EZH455	1/4-20X1 #2 point				
	3/8-16	.060 - .250	EZH475	1/4-20X1 #3 point				
	3/8-16	.060 - .250	EZH476	1/4-20X1 #3 point w/nuts	4"	0.060"	4"	16 ga.
	3/8-16	.060 - .250	EZH495	1/4-20X1-1/2 #3 point				
	3/8-16	.060 - .250	EZH496	1/4-20X1-1/2 #3 point w/nuts	4"	0.060"	4"	16 ga.
	3/8-16	.187 - .500	EZH515	1/4-20X1-1/2 #5 point				
	3/8-16	.060 - .500	EZH516	1/4-20X1-1/2 #5 point w/nuts	4"	0.060"	4"	16 ga.
	3/8-16	.060 - .250	EZH535	1/4-20X2 #3 point				

**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 in Steel or Wood Applications:**




Use EZE215 drive socket (see next page). Hex drive will automatically disengage when anchor is seated.

†Collapsing insert EZG610 can be used alone to install 1/4-20 threaded components or with EZG580, EZG590 or EZG600 hangers to install 3/8-16 threaded components.



# HangerMate® Threaded Rod Anchoring System

## Wood Applications\*

### Vertical Mount – End-Drilled Head



	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/4-20	EZG315	5/16X2-1/4	NA	NA
	3/8-16	EZG650	5/16X2-1/4	4"	4"
	3/8-16	EZG670	5/16X3	4"	4"

### Horizontal Mount – Cross-Drilled Head



	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/4-20	EZH320	5/16X2-1/4	NA	NA
	3/8-16	EZH665	5/16X2-1/4	3-1/2"	

## Concrete Applications\*\*

### Vertical Mount – End-Drilled Head



	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/4-20	EZG365	5/16X2-1/4	NA	NA
	3/8-16	EZG730	5/16X2-1/4		4"

### Horizontal Mount – Cross-Drilled Head


	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/4-20	EZH370	5/16X2-1/4	NA	NA
	3/8-16	EZH735	5/16X2-1/4		4"

## Steel, Wood or Concrete

### Vertical Mount – End-Drilled Head

	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/4-20	EZG910	1/4-10X2	NA	NA
	3/8-16	EZG930	1/4-10X2		

### Horizontal Mount – Cross-Drilled Head

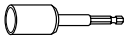



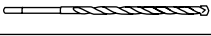

	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	3/8-16	EZH935	1/4-10X2	NA	NA

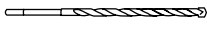

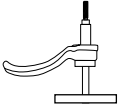

## All Materials – Adapter for Hanging 1/2" Rod†

	Rod Size	Elco Cat. No.	Description	UL Pipe Size	FM Pipe Size
	1/2-13	EZE270		NA	NA

† Simply install any 3/8" HangerMate anchor as required, then thread EZE270 adapter into it. Use of adapter does not increase performance value of 3/8" HangerMate anchor. Check corresponding 3/8" anchor spec sheet for load-carrying capacity and add appropriate safety factor.

## Installation Tools

	Elco Cat. No.	Description
	EZE215	Drive Socket
	EZE220	Drive Sleeve
	EZE240	Drill Bit Adapter
	EZE320	25/64 Drill Bit with Stop Collar
	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
	EZE360	7/32" Tanged Drill Bit for Hammer Drills
	EZE380	7/32" SDS Drill Bit for Rotary Hammer Drills
	EZE290	Tool for EZG580/ EZG590/EZG600/ EZG610 components
	ELY100	Drill Bit Adapter for 7/32" drill bit

**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 into Concrete/Masonry Applications

Insert tanged bit (EZE340) in bit holder (EZE240), or use SDS bit (EZE350). Drill hole, then slide concrete drive socket (EZE220) over bit and onto hex. Insert anchor into socket and install. Parts can also be installed in concrete using standard 1/4" masonry bit to drill hole and use EZE215 drive socket to set anchor.

## Steel Applications

### Average Ultimate Value (lbs)\*

Cat. No.	Rod Size	Anchor Shank	Steel Thickness				
			.062"	.074"	.104"	.125"	.1875"

#### End-Drilled Anchors

EZG160	1/4-20	1/4-20	786	1139	1738	2376	4694	5994
EZG450	3/8-16	1/4-20	922	1351	2273	2488	N/A	N/A
EZG470	3/8-16	1/4-20	786	1139	1738	2376	4694	5994
EZG471	3/8-16	1/4-20	3435	4024	4279	4692	5812	5909
EZG490	3/8-16	1/4-20	786	1139	1738	2376	4694	5994
EZG491	3/8-16	1/4-20	3435	4024	4279	4692	5812	5909
EZG510	3/8-16	1/4-20	N/A	N/A	N/A	N/A	3677	5207
EZG511	3/8-16	1/4-20	3435	4024	4279	4692	5812	5909
EZG530	3/8-16	1/4-20	786	1139	1738	2376	4694	5994
EZG540	3/8-16	1/4-20	786	1139	1738	2376	4694	5994

Cat. No.	Rod Size	Anchor Shank	Steel Thickness				
			.062"	.074"	.104"	.111"	.189"

#### Cross-Drilled Anchors

EZH155	1/4-20	1/4-20	1739	1944	2420	2570	2809	2809
EZH455	3/8-16	1/4-20	1860	2071	2516	2606		N/A
EZH475	3/8-16	1/4-20	1739	1944	2420	2570	2809	2809
EZH476	3/8-16	1/4-20	2756	2753	2809	2809	2809	2809
EZH495	3/8-16	1/4-20	1739	1944	2420	2570	2809	2809
EZH496	3/8-16	1/4-20	2756	2753	2809	2809	2809	2809
EZH515	3/8-16	1/4-20	N/A	N/A	N/A	N/A	3529	3529
EZH516	3/8-16	1/4-20	2756	2753	2809	2809	2809	2809
EZH535	3/8-16	1/4-20	2756	2753	2809	2809	2809	2809

## Product and Warranty Information

- Code listings and approvals require that HangerMate® anchors be installed with HangerMate drive sockets.
- Shoulders of installed HangerMate anchors must be flush to the metal, masonry or wood substrate materials. HangerMate 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 HangerMate anchors or the substrate into which they are installed when loading pipe, installing cable tray, or otherwise suspending components from HangerMate anchors. Failure to do so may result in significant loss of holding power.
- 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.

This literature was prepared as an introductory summary of the HangerMate 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.

All HangerMate 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 HangerMate 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.

## Light-gage Steel Applications

Cat #	EZG580	EZG590	EZG600
Max. Pipe Diameter	2.5"	3.5"	4"
Min. Steel Thickness	22 ga.	18 ga	16 ga

### Ultimate Tensile Load\*

Gage	26	22	20	18	16
Ultimate Tensile Load	848	1025	1153	1410	1880

## Wood Applications

### Average Ultimate Value (lbs)\*

Cat#	Rod Size	Anchor Shank	Douglas Fir	Southern Pine	Hemfir
------	----------	--------------	-------------	---------------	--------

#### End-Drilled Anchors

EZG315	1/4-20	5/16-14	2487	2162	1768
EZG650	3/8-16	5/16-14	2487	2162	1768
EZG670	3/8-16	5/16-14	2487	2162	1768

#### Cross-Drilled Anchors

EZH320	1/4-20	5/16-14	1801	1460	1451
EZH665	3/8-16	5/16-14	1801	1460	1451

## Concrete Applications

### Average Ultimate Value (lbs)\*

Cat#	Rod Size	Anchor Shank	3650 PSI Concrete
------	----------	--------------	-------------------

#### End-Drilled Anchors

EZG365	1/4-20	5/16-14	2188
EZG730	3/8-16	5/16-14	2188

#### Cross-Drilled Anchors

EZH370	1/4-20	5/16-14	2767
EZH735	3/8-16	5/16-14	2767

## HangerMate® MP Anchors – End-drilled Product Only

### Average Ultimate Value (lbs)

Application Material	Performance Values: End-drilled Product Only
Southern Pine	1541
16 ga. steel	880
14 ga. steel	1106
12 ga. steel	1754
1/8" steel	2505
Concrete (3300 psi)	2933

### \* Performance Testing Notes:

- The loads indicated are average ultimate values achieved under laboratory conditions and appropriate safety factors should be applied for design purposes.
- 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.
- 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.
- Loads were determined by testing products in the orientation for which they were designed to be used. End-drilled parts were pulled in line with the anchor's axis while cross-drilled parts were tested with the force perpendicular to the axis.



**Elco Construction Products**

**1.800.435.7213 • fax: 563.387.3540**

**www.elcoconstruction.com**



Infatech™  
Our Technology, Your Success

Avdel® iForm™

HangerMate®, iForm™ and Infatech™ are registered trademarks of Infatech Intellectual Properties Pte Ltd. Avdel® is a registered trademark of Avdel UK Ltd. ©2011 Infatech Intellectual Properties Pte Ltd. All rights reserved.