



# UltraCon® Door Frame Fasteners

## Application-specific engineering for maximum performance

UltraCon door frame fasteners are the optimal solution for installing metal door systems to concrete, block or wood.

- One-piece, cold-formed product provides improved strength and reliability
- Oversized flat head (.690" diameter)
  - Fits pre-punched countersunk areas of metal frame, allowing full clearance
  - Provides a wider bearing surface
- Common drive system (#3 phillips) eases installation
- Fastener design provides maximum pull-out values
- Threaded fastener installs more quickly than sleeved anchor
- Longer lengths suit hollow steel door frames



Once the door is placed in position, leveled and plumbed, simply drill a 1/4" pilot hole into the concrete or masonry with the frame in place, then install the UltraCon fastener using a #3 phillips bit.

### Superior Resistance to Corrosion

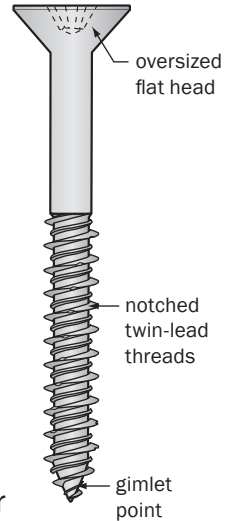
Unlike other door frame fasteners, UltraCon fasteners from Elco Construction Products are coated with Stalgard® finish to provide superior corrosion resistance. Fasteners coated with Stalgard finish typically show no red rust or other base metal corrosion on significant surfaces even after 1000 hours of 5% neutral salt spray exposure (ASTM B117).

### Experience Matters

Elco Construction Products has been manufacturing concrete fastening systems in the U.S.A. since 1980. UltraCon fasteners are manufactured to strict quality standards to ensure consistent, trouble-free installation and in-place performance..

### Features

- Twin-lead threads
- Diameter: 5/16"
- Head Style: Oversized flat
- Drive System: #3 Phillips
- Point: Gimlet
- Finish: Silver Stalgard corrosion-resistant coating – provides 1000 hours of salt spray resistance per ASTM B117
- Install quickly and easily using a 1/4" masonry drill bit and a #3 phillips bit



### Benefits

- Consistent performance
- Provides maximum pull-out strengths
- Eliminates need for inserts
- Eases installation of metal door frames to concrete, brick, hollow block or wood

### Approvals

- Miami-Dade, Florida Notice of Acceptance (NOA) pending



Made in the U.S.A.





### Selection Guide

Size	Drive Size	Bulk			Boxed		
		Catalog No.	Quantity /Case	Weight /Case	Catalog No.	Quantity /Box**	Weight/Box

#### Door Frame Anchor with Phillips Oversized Flat Head

5/16 x 3"	#3 phillips	ELG203	500	22	ELG203-050	50	2.2
5/16 x 4"	#3 phillips	ELG204	500	29	ELG204-050	50	2.9
5/16 x 5"	#3 phillips	ELG205	250	16	ELG205-050	50	3.2
5/16 x 6"	#3 phillips	ELG206	250	21	ELG206-050	50	4.2

\*\* 50 anchors per box,  
5 boxes per master.

### Performance Data

#### Ultimate Values

Dia.	Hollow Block 1,872 PSI				Concrete 3,513 PSI				Wood #2 SYP Specific Gravity .55				
	Depth of Embed.	Edge Dist.	Pull-out	Shear	Depth of Embed.	Edge Dist.	Pull-out	Shear	Depth of Embed.	Edge Dist.	Pull-out	Shear	
5/16"	1-1/4"	1-9/16"	1,049	708	1"	1-1/4"	737	879	1"	5d	1,423	1,095	
					1-3/4"		2,105	1,324	1-1/2"		2,471	1,617	
					1"	2-3/16"	836	1,500	2"		2,912	2,367	
		3-1/8"	1,149	1,454	1-3/4"	2-3/16"	2,413	3,158	-	-	-	-	-
					1"	3-1/8"	851	1,801	1"	10d	1,454	1,188	
					1-3/4"		2,643	3,404	1-1/2"		2,472	1,677	
	2"		3,347	-	2"	3,233	2,407						

#### Test report cross-reference information

Material	UltraCon Dia.	Test report no.*
Concrete	5/16"	HETI 01-5013
Block	5/16"	HETI 01-5069
Wood	5/16"	HETI 01-5063

\* Testing by Hurricane Engineering & Testing, Inc. (HETI).

Additional testing has been done in other materials and conditions and is available upon request.

**NOTE:** Indicated pull-out and shear failure values were obtained in tests witnessed by independent test labs (see below). These figures are offered only as a guide and are not guaranteed in any way by Elco Construction Products. A safety factor of 4:1, or 25% of ultimate pull-out value, is generally accepted as a safe working load; however, reference should always be made to applicable codes for the specific safe working ratio.

#### Mechanical Properties

Nom. Dia.: 5/16"

Thread O.D. Nom.: .327"

Thread I.D. Nom.: .222"

Unthreaded Shank Nom.: .248"

Material: 1022 carbon steel

Heat Treatment: Case hardened (HRC 52 min. with core hardness of HRC 32 - 40 max.)

fy<sup>†</sup> (Tensile Yield): 155 K.S.I.

fu<sup>†</sup> (Tensile Ultimate): 177 K.S.I.

**NOTE:** Testing was done per ASTM E8-96 standards. The yield and ultimate tensile values shown are indicative of the hardness levels obtained.



## Elco Construction Products

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