



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

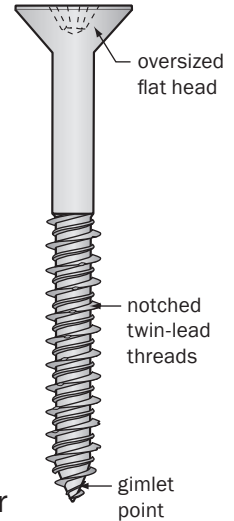
Unlike other door frame fasteners, UltraCon fasteners from Elco Construction Products are coated with Stalgard® finish to provide superior corrosion resistance. Fasteners coated with Stalgard finish typically show no red rust or other base metal corrosion on significant surfaces even after 1000 hours 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[†] (Tensile Yield): 155 K.S.I.

fu[†] (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.



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