

ASAP FASTENING SYSTEMS, INC.

SUPPLIES FOR INDUSTRY AND CONSTRUCTION

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Aggre-Gator™ 300 Series Stainless Steel Bi-Metal Concrete Anchors

Owners, architects and design engineers expect longer life cycles from buildings. Extended warranties and use of more sustainable materials add up to greater expectations for performance – from structural integrity to the purely aesthetic – of all building components.

The Solution: Aggre-Gator™ 300 series (18-8) Stainless Steel Concrete Anchors

Aggre-Gator™ fasteners bring the corrosion resistance of 300 series stainless steel and the efficiency of hardened steel tapping threads together in one unique fastener.

- Unmatched, multi-level corrosion resistance
- Quick and easy installs into concrete or masonry
- Perfect choice for exposed/wet areas/aggressive environments
- High performance for your most critical applications

To provide maximum, long-term corrosion resistance, Elco chose 300 series stainless steel for their Aggre-Gator™ concrete anchors.

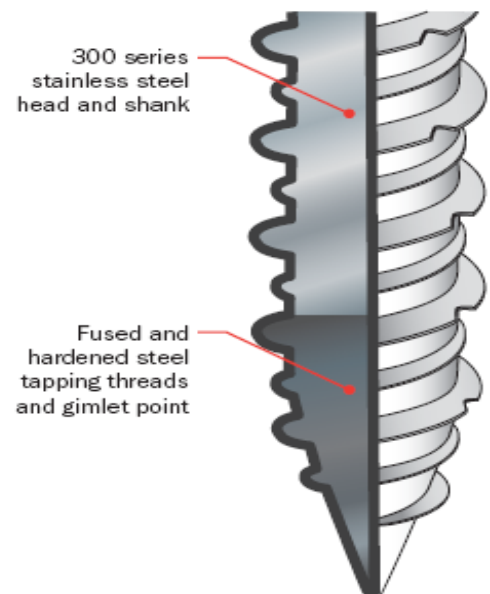
To allow for the most efficient installations, each Aggre-Gator™ anchor has a fused and hardened steel self-tapping point for quick and reliable fastening.

To combat the widest variety of corrosion scenarios involving dissimilar metals, each 300 series stainless steel Aggre-Gator™ anchor has Stalgard® GB (Galvanic Barrier) coating. Stalgard® GB provides far greater galvanic protection for aluminum components than plain finish 300 series stainless fasteners.

To eliminate the potential for delayed, “embrittlement” fastener failures, such as Hydrogen Assisted Stress Corrosion Cracking (HASCC), our Aggre-Gator™ anchors are made of 300 series stainless alloys that are virtually immune to this type of failure.

These features allow Aggre-Gator™ anchors to deliver multi-level corrosion protection, over an extended service life in aggressive environments, and makes them the perfect choice for your most critical applications.

For the most demanding applications that other fasteners can't handle, Aggre-Gator™ stainless steel concrete anchors are the one right choice.



Bi-metal Technology



Aggre-Gator™ 300 Series Stainless Steel Bi-Metal Concrete Anchors



Features

- Bi-metal technology – 300 (18-8) stainless steel head and shank
- Fused and hardened steel tapping threads and gimlet point
- Alternating, hi-low notched thread profile
- Silver-colored Stalgard® GB coating
- Hex washer head and TrimFit® flat head designs

Benefits

- Outstanding corrosion resistance
- Long service life
- High strength/ductility
- Offers greater galvanic compatibility in dissimilar metal applications
- Thread profile provides quick cutting and stability during installations
- Virtually immune to hydrogen-assisted stress corrosion cracking
- Head styles allow use in broadest variety of applications
- High in-place value over life of structures

Applications

- Exposed anchoring/coastal/wet areas
- Aluminum enclosures
- Hurricane shutters/windows/awnings/thresholds
- Curtain wall & window wall support anchors
- Stone facade support anchors
- ACQ treated wood

Whether your application is structural or purely aesthetic, you won't find a better or easier-to-install 300 series stainless steel concrete anchor with multi-level corrosion protection for your toughest construction applications.



Selection Guide

	Dia.	L Length	Length Code†	Drive System	Head Style	Drill Bit Size (Carbide)	S 300 Series (18-8) Stainless Steel Length	ECP Catalog Number*	Pieces Per Box	Pieces Per ¼ Keg*
Hex Washer Head										
	1/4"	1-3/4"	A	5/16" hex	hex washer	3/16" X 3-1/2"	1-1/4"	EML315	50	2000
		2-1/4"	B			3/16" X 4-1/2"	1-3/4"	EML325	50	1500
		2-3/4"	C			3/16" X 4-1/2"	2-1/4"	EML335	50	1000
		3-1/4"	D			3/16" X 5-1/2"	2-3/4"	EML345	50	1000
		4"	F			3/16" X 5-1/2"	3-1/2"	EML365	50	500

TrimFit® Flat Head Fasteners

	1/4"	1-3/4"	A	#3 Phillips	TrimFit® flat head	3/16" X 3-1/2"	1-1/4"	EMM310	50	2500
		2-1/4"	B			3/16" X 4-1/2"	1-3/4"	EMM320	50	1500
		2-3/4"	C			3/16" X 4-1/2"	2-1/4"	EMM330	50	1000
		3-1/4"	D			3/16" X 5-1/2"	2-3/4"	EMM340	50	1000
		4"	F			3/16" X 5-1/2"	3-1/2"	EMM360	50	500

† Length code is marked on top of fastener head (see Identification below).

* Standard packaging: 50 anchors and 1 tanged masonry bit per box/ six boxes per shipper.

Bulk Quantities: Packed in ¼ kegs as shown. Available upon request. Indicate Bulk Packaging by placing a "B" at the end of the Elco Catalog Number. Bulk packaging does not include masonry bits.

Identification

The head markings consists of the number "3", the length code, and the Elco® logo as shown to the right.



TrimFit®
head



hex washer
head



Performance Data

Pull-Out (lbs.)

Concrete

Anchor Dia.	Embedment Depth	Edge Distance	2000 psi	4000 psi	5000 psi
1/4"	1"	1-1/2"	719	761	1030
	1-1/2"	1-1/2"	1344	1491	1700
	1-3/4"	2-1/2"	1816	2054	2574

Hollow Block

Anchor Diam.	Embedment Depth	Edge Distance	1840 psi
1/4"	1"	1-1/4"	811
		2-1/2"	1245

Shear Strength (lbs.)

Concrete 2000 psi

Anchor Dia.	Embedment Depth	Edge Distance	2000 psi
1/4"	1"	1-1/2"	681
	1-1/2"	1-1/2"	1193
	1-3/4"	2-1/2"	2238

Hollow Block 1840 psi

Anchor Dia.	Embedment Depth	Edge Distance	1840 psi
1/4"	1"	1-1/4"	701
		2-1/2"	1619

NOTE: All performance data shown is based on tests performed under laboratory conditions at independent construction testing facilities. The appropriate safety factor should be applied and code requirements factored into specification and use of these fasteners. A safety factor of 4:1 or 25% of the ultimate average values shown is generally accepted as an appropriate working load. Final determination of the appropriate safety factor and use of these fasteners is the sole responsibility of the user, specifying Engineer, Architect or other responsible person designing the connection. Due to a wide variety of application conditions or intervening factors not under our control, we assume no liability for the use of the information provided in this document. For additional product information and technical assistance, please contact Elco directly at 1-800-435-7213.