FASTENING This handy reference sheet provides important information that helps you in selecting a fastener. Please call our local service center at 800.486.1832 for all of your fastening system needs.

Head



Installation Tips

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- · A minimum of three (3) factors of safety should be used for most self-drilling or self-tapping fasteners. Consult a design professional for appropriate values.
- Install fastener perpendicular to the work surface and tighten to no more than approximately 70% of the torsional strength.
- Allow at least three full threads to extend beyond the material. For wood applications, allow 1" minimum embedment or full thread embedment in plywood and OSB for optimal pullout resistance.

NOTE: DO NOT USE IMPACT TOOLS **OR THE FASTENER CAN FAIL!**

5/16

3/8'

1/2"

Footnotes

cracking.

.312

375

.500"

1. Because aluminum can expand a large distance, the high hardness of 410 SS case harden screws may lead to screw to failure due to lack of ductility or stress corrosion

NOTE: Organic coating to the screw will improve the corrosion

resistance. Environments can affect the rate of corrosion and change the

7 92mm

9.53mm

12.7mm

Fastener Material Selection Based on the Galvanic Series of Metals Table developed using information supplied by AISI Committee of Stainless Steel Producers.

		FASTENER MATERIAL				
		STEEL Zinc Plated	STAINLESS STEEL Type 410	STAINLESS STEEL Type 302, 304, 316	ALUMINUM	
BASE METAL	Zinc Galvanized ZN/Al Coated Steel	А	С	С	В	
	Aluminum	А	¹ Not Recommended	В	A	
	Steel / Cast Iron	A,D	С	В	A	
	Brass, Copper, Bronze	A,D,E	A	В	A,E	
	Stainless Steel 300 Series	A,D,E	A	A	A,E	
	Key					
	A THE CONOSION OF THE DASE THEIRUS DOF INCREASED BY THE IRSIENED					

- B. The corrosion of the base metal is slightly increased by the fastener.
- C. The corrosion of the base metal may be considerably increased by the fastener material.
- D. The plating on the fastener is rapidly consumed.
- E. The corrosion of the fastener is increased by the base metal.

activity of the metals.

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