



AEROSMITH FASTENING SYSTEMS – March, 2018

TECHNICAL BULLETIN 101: TaxPin®

Allowable load values for Aerosmith Fastening Systems TraxPin® Fasteners (lbs)*.

NORMAL WEIGHT CONCRETE- Allowable Tension & Shear (lbs.)

			Installed in Stone Aggregate Concrete Concrete Compressive Strength (psi)					
Series	Shank Diameter (inch)	Min Penetration (inch)	2000 or 3000 psi		4000 psi		6000 psi	
			Tension	Shear	Tension	Shear	Tension	Shear
TraxPin® Fasteners	0.101"	0.75"- 1.5"	N/A	N/A	70 lbs.	72 lbs.	109 lbs.	129 lb.

Note 1: Except as noted, values shown reflect a 5 to 1 safety factor.

Note 2: Edge distance is 3" unless otherwise approved.

Note 3: Fastener use is limited to installation in un-cracked concrete; also, bent, overdriven, non-perpendicular fasteners or spalled concrete require installation of a second pin near the mis-applied pin.

HOT ROLLED STEEL- Allowable Tension & Shear (lbs.)

			Installed in Steel Steel Thickness (inches)			
Series	Shank Diameter (inch)	Type of Shank	3/16"		1 / 4" – ASTM-A36 Steel	
			Shear	Tension	Shear	Tension
TraxPin® GT012PFP Fastener	0.102	Smooth	N/A	N/A	109	135

Note 1: Allowable values shown reflect a 5 to 1 safety factor with coefficient of variation less than or equal to 15%.

Note 2: Allowable values are in A-36 Steel only.

Source: Aerosmith Fastening Systems' P.E.R 15094 evaluation Report – 02/2018

*Footnote: Contact your design professional for accepted use of the above values.

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