

T3 SERIES PERFORMANCE / SUBMITTAL

Ramset fasteners may be specified by their type or catalog number to satisfy fastening requirements.

PIN SPECIFICATIONS

- Made from AISI 1060-1065 steel. Austempered to a core hardness of 52-56 Rc
- Typical tensile strength: 270,000 psiTypical shear strength: 162,000 psi
- STANDARD FINISHES Proprietary black

Mechanical zinc plate to a minimum thickness of .0002 meets requirements of ASTM B695—Class 5 Type I

APPROVALS/LISTINGS

- ICC Evaluation Service, Inc. #ESR-1955 T3 Fasteners
- City of Los Angeles
 #RR-25739 T3 pins



Collated Gas Fasteners in Concrete (T3)											
PART NUMBER SERIES	SHANK DIAMETER (INCH)	MINIMUM PENETRATION (INCH)	INSTALLED IN STONE AGGREGATE CONCRETE CONCRETE COMPRESSIVE STRENGTH ALLOWABLE LOAD - Ultimate Load								
			2000) PSI	4000) PSI	6000 PSI				
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)			
T3		5/8	83 414	109 611	78 426	80 574					
Straight Shank	0.125	3/4	107 541	156 855	104 593	195 977					
T3 Step Shank	0.104/0.125	5/8			60 357	117 <i>587</i>	107 <i>533</i>	191 <i>957</i>			

PART NUMBER SERIES	SHANK DIAMETER (INCH)	MINIMUM PENETRATION (INCH)	INSTALLED IN LIGHTWEIGHT CONCRETE / DECK / BLOCK ALLOWABLE LOAD - Ultimate Load											
			3000 PSI LIGHT WEIGHT CONCRETE			3000 PSI LIGHT WEIGHT CONCRETE WITH METAL DECK			HOLLOW CONCRETE MA- SONRY UNITS (CMU ANY LOCATION)					
			TENSION (L	BS)	SHEAF	R (LBS)	TENSIC	ON (LBS)	SHEA	R (LBS)	TENSIC	ON (LBS)	SHEAF	R (LBS)
T3	0.125	5/8	84 418		108	540	72	361	242	1210	20	243	34	264
Straight Shank	0.125	3/4	108 540		173	864	93	470	288	1442				
T3 Step Shank	0.104/0.125	5/8					54	269	230	1150	71	357	123	613

Note 1: ALLOWABLE loads are shown in the LARGE BOLD font, *Ultimate* loads are shown in smaller *italic* font. Note 2: Testing conducted in accordance with ICC AC70 & ASTM E1190. Note 3: Safety factors are based on coefficient of variation. In accordance with ICC AC70, the safety factor will be no less than 5. Note 4: Values shown in concrete are for the fastener only. Connected members must be investigated separately. Note 5: Cyclic, fatigue, shock loads, and other design criteria may require a different safety factor. Note 6: Job site testing may be required to determine actual job site values. Note 7: Minimum edge distance in concrete is 3 inches unless otherwise approved. Note 8: For SI: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa. Note 9: T3 straight shank allowable tension value in face shell of hollow CMU is 133 lbs.

Gas Fasteners in Steel											
PART NUMBER	SHANK DIAMETER (INCH)	TYPE OF SHANK	INSTALLED IN A36 STRUCTURAL STEEL STEEL THICKNESS INCHES ALLOWABLE LOAD - Ultimate Load								
			3/16 (.	.1875)	1/4 (.	.250)	3/8 (.375)				
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)			
T3012	0.125	SMOOTH	63 676	162 1356	239 1285	211 1417	113 914 8	197 1327 8			
T3012S	0.125	TAPER SMOOTH	183 958	332 1660	237 1184	356 1782	189 943 10	392 1960 ⁷			
INSTALLED IN ASTM A 572 GRADE 50 STEEL											
STEEL THICKNESS INCHES											
T3012	0.125	SMOOTH	103 733	222 1682	147 950	119 <i>973</i>	147 856 9	112 1014 9			

Note 1: ALLOWABLE loads are shown in the LARGE BOLD font, *Ultimate* loads are shown in smaller *italic* font. Note 2: Testing conducted in accordance with ICC AC70 & ASTM E1190.

Note 3: Safety factors are based on coefficient of variation. In accordance with ICC AC70, the safety factor will be no less than 5. Note 4: Cyclic, fatigue, shock loads and other design criteria may require a different safety factor. Note 5: Job site testing may be required to determine actual job site values. Note 6: Values shown are for fastenings that have the entire pointed end of the fastener driven through the steel plate; except as noted below. Note 7: Fastener penetration is .31" minimum. Note 8: Fastener penetration is .29" minimum. Note 9: Fastener penetration is .27" minimum. Note 10: Fastener penetration is .25" minimum. Note 11: For SI: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa