

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 psi
 - Typical 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
- Electroplated zinc with yellow chromate

APPROVALS/LISTINGS

- ICC Evaluation Service, Inc.
#ESR-2579 TrakFast Pins
- City of Los Angeles
#RR-25264 TrakFast pins



Collated Gas Fasteners in Concrete (TrakFast)

PART NUMBER SERIES	SHANK DIAMETER (INCH)	MINIMUM PENETRATION (INCH)	INSTALLED IN STONE AGGREGATE CONCRETE CONCRETE COMPRESSIVE STRENGTH ALLOWABLE LOAD - Ultimate Load					
			2000 PSI		3000 PSI		4000 PSI	
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)
FPP - Straight Shank	0.109	5/8	60 434	55 546	55 453	75 615	55 472	95 685
		3/4	60 595	80 650	55 583	95 699	55 571	115 749
FPP - Step Shank	0.104/0.118	3/4	.....	.....	.....	.....	51 256	83 418

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 MASONRY UNITS (CMU ANY LOCATION)	
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)
FPP - Straight Shank	0.109	5/8	35 234	55 403	30 239	205 1025	35 347	50 435
		3/4	80 630	100 756	40 330	235 1248	.....	.....
FPP - Step Shank	0.104/0.118	3/4	.....	.....	.....	.....	36 184	58 290

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 Sl: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa.

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)
FPP012	0.109	SMOOTH	195 1047	292 1570	223 1220	278 1526	181 1048 ⁷	186 1076 ⁷
FPP012S	0.104/0.118	SMOOTH	.....	.....	148 744	157 787	166 832 ⁷	157 787 ⁷

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:** For Sl: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa