

PERFORMANCE DATA

Allowable Load Capacities for Powder Actuated Fasteners in ASTM A36 Steel^{1,2,3,5}

Pin Description	Shank Type	Nominal Steel Thickness									
		1/8"		3/16"		1/4"		3/8"		1/2" ⁴	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
Ballistic Point Pin (0.150" Shank)	Smooth	120 (0.5)	420 (1.9)	180 (0.8)	605 (2.7)	310 (1.4)	545 (2.4)	450 (2.0)	525 (2.3)	-	-
0.300" Head Drive Pin 8mm Head Drive Pin (0.145" Shank)	Knurled	220 (1.0)	200 (0.9)	340 (1.5)	610 (2.7)	445 (2.0)	560 (2.5)	520 (2.3)	605 (2.7)	490 (2.2)	575 (2.6)
	Smooth	170 (0.8)	265 (1.2)	355 (1.6)	565 (2.5)	410 (1.8)	560 (2.5)	465 (2.1)	390 (1.7)	390 (1.7)	520 (2.3)
8mm head Spiral CSI Pin (0.157" Shank)	Spiral	280 (1.2)	540 (2.4)	515 (2.3)	585 (2.6)	735 (3.3)	535 (2.4)	615 (2.7)	495 (2.2)	535 (2.4)	565 (2.5)
	Knurled										
1/4"-20 Threaded Stud (0.145" Shank)	Knurled	220 (1.0)	445 (2.0)	325 (1.4)	555 (2.5)	430 (1.9)	660 (2.9)	510 (2.3)	750 (3.3)	-	-
3/8" Head Drive Pin (0.172" Shank)	Smooth	190 (0.8)	540 (2.4)	300 (1.3)	740 (3.3)	365 (1.6)	780 (3.5)	605 (2.7)	845 (3.8)	-	-
10mm Head Drive Pin (0.177" Shank)	Smooth	-	-	95 (0.4)	545 (2.4)	150 (0.7)	545 (2.4)	245 (1.1)	755 (3.4)	640 (2.8)	600 (2.7)
3/8"-16 Threaded Stud (0.205" Shank)	Knurled	225 (1.0)	555 (2.5)	540 (2.4)	1,090 (4.8)	745 (3.3)	620 (2.8)	-	-	-	-
Ceiling Clips - w/ 0.300" Head Pin (0.145" Shank)	Smooth	205 (0.9)	240 (1.1)	220 (1.0)	240 (1.1)	220 (1.0)	240 (1.1)	220 (1.0)	240 (1.1)	-	-
Economy Ceiling Clips w/ 0.300" Head Pin (0.145" Shank)	Smooth	190 (0.8)	260 (1.2)	210 (0.9)	260 (1.2)	210 (0.9)	260 (1.2)	210 (0.9)	260 (1.2)	-	-
Ceiling Clips - LADD Pin (0.152" Shank)	Smooth	235 (1.0)	240 (1.1)	240 (1.1)	240 (1.1)	235 (1.0)	240 (1.1)	235 (1.0)	240 (1.1)	-	-

- The allowable tension and shear values are for fasteners only. Steel or wood members connected to the substrate must be investigated for compliance with the applicable code.
- The values listed above are allowable load capacities. The values are based on minimum required factors of safety. Consideration of additional safety factors may be necessary depending on the application, such as life safety or overhead.
- Fasteners must be driven to obtain an embedment equivalent to the nominal steel thickness with the point of the fastener penetrating through the steel base material.
- Fasteners must be driven to obtain a minimum embedment of 1/2". The point of the fastener does not need to penetrate through the steel base material.
- Multiple fasteners are recommended for any attachment for increased reliability.

POWDER ACTUATED

Ceiling Clip Assemblies

PRODUCT DESCRIPTION

For acoustical applications and suspended ceiling systems or light fixtures. Several styles of angled clips are pre-mounted onto pins.

.300" Head Drive Pins with Ceiling Clips

Catalog Number	Shank Length	Shank Diameter	Wire Hole	Standard Box	Standard Carton	Wt./100
50364	1"	0.145"	0.278"	100	1,000	3.5
50368*	1-1/8"	0.145"	0.278"	100	1,000	3.0
50370	1-1/4"	0.145"	0.278"	100	1,000	3.7
50374*	1-1/4"	0.145"	0.278"	100	1,000	3.2

* Economy Clip



Economy Clip

8mm Head Drive Pins with Ceiling Clips

Catalog Number	Shank Length	Shank Diameter	Wire Hole	Standard Box	Standard Carton	Wt./100
50272	27mm (1")	0.145"	0.278"	100	1,000	3.5
50274	32mm (1-1/4")	0.145"	0.278"	100	1,000	3.7

Catalog Number	Shank Length	Shank Diameter	Head Dia.	Wire Hole	Standard Box	Standard Carton	Wt./100
50206	32mm (1-1/4")	.177"	8mm	0.278"	100	1,000	4.8



8mm Head Spiral CSI Drive Pin with Ceiling Clip

Cat.No.	Description	Head Dia.	Shank Dia.	Wire Hole	Std. Box	Std. Ctn.
50212	7/8" CSI with Ceiling Clip	0.300"	0.157"	0.278"	100	1,000
50213	1" CSI with Ceiling Clip	0.300"	0.157"	0.278"	100	1,000

Ballistic Point Drive Pin with Ceiling Clip (45°)

Cat.No.	Description	Head Dia.	Shank Dia.	Wire Hole	Std. Box	Std. Ctn.
50366	7/8" with Ceiling Clip	0.300"	0.181"/0.150"	0.278"	100	1,000
50058	1-1/4" with Ceiling Clip	0.300"	0.181"/0.150"	0.278"	100	1,000

Pre-Assembled Pin and Clip for LADD Tool (45°)

Catalog Number	Shank Length	Shank Diameter	Head Diameter	Wire Hole	Standard Box	Standard Carton	Wt./100
50438	Pre-assembled Pin & Clip (LADD)	0.155"	0.310"	0.278"	100	1,000	4.5

The assembly is designed for use in a LADD type tool.

BX and Conduit Clip Assemblies

PRODUCT DESCRIPTION

For the electrical trade, BX and conduit clips are provided in various sizes for attaching conduit to base materials where easy removal is not a requirement.

.300" Head Drive Pins with BX Cable Straps

Cat.No.	Shank Length	Shank Dia.	Standard Box	Std. Carton	Wt./100
50150	1"	0.145"	100	1,000	3.5



.300" Head Pins with Conduit Clips

Cat.No.	Shank Length	Shank Dia.	Standard Box	Std. Carton	Wt./100
50382	1/2" EMT 1" Pin	0.145"	100	1,000	3.3
50384	3/4" EMT 1 1/4"	0.145"	100	500	4.6
50385*	3/4" EMT 1" Pin	0.145"	100	500	5.3
50386	3/4" EMT 1-1/8" Pin	0.145"	100	500	4.7
50388*	1" EMT 1" Pin	0.145"	25	250	7.2

* With Top Hat

8mm Head Drive Pins with Conduit Clips

Cat.No.	Shank Length	Shank Dia.	Std. Box	Std. Carton	Wt./100
50276	27mm w/ 1/2" EMT	0.145"	100	1,000	3.2
50278	27mm w/ 3/4" EMT	0.145"	100	500	3.3
50280	27mm w/ 1" EMT	0.145"	25	250	6.2



POWDER ACTUATED