

PATENTED

**TRAK-IT**<sup>®</sup>

**Gas  
Fastening  
System**

**TRAK-IT**<sup>®</sup>

International Code  
Council (ICC ESR)  
Evaluation Report #6157  
City of Los Angeles,  
(COLA) #25523



**Powers**<sup>®</sup>  
FASTENERS

**IT'S FAST**

**IT'S LIGHT**

**IT'S BALANCED**

**IT HAS NO  
RECOIL**

**ITS LATCH  
IS CLEVER**

**IT SHOOTS  
5700 SHOTS**

**ITS TRACK  
SLIDES EASY**

**IT INCLUDES  
TWO  
BATTERIES**

**ITS NOSE  
SHOOTS  
HAT-TRACK**

**ITS WARRANTY  
COVERS ALL  
COSTS**

**AND NO SPECIAL  
LICENSE IS  
REQUIRED**

**IT'S TRAK-IT  
BY POWERS!**



**Ultra  
Lightweight!**

LATCHED OPENING  
FOR EASY ACCESS

NARROW NOSE SHOOTS HAT-TRACK

# TRAK-IT®

## Gas Fastening System




The revolutionary Trak-It® Gas Fastening Tool from Powers is significantly lighter, faster, and more reliable than competitive gas tools.

When you are firing thousands of shots a day, a one-pound difference in tool weight is considerable. And if you are firing overhead, you'll appreciate the perfect balance and lower recoil of the Trak-It tool.

We feature the newest technology in nickel hydride batteries. Our battery, which can re-charge in one hour, fires as many as 5700 shots and the click-on system prevents wear and tear on the contacts. Two batteries are included free in every kit to guarantee a full, productive day of firing.

Powers makes fixing the infrequent pin-jam a breeze by putting an easy-access latch on the nose that can be opened instantly. **No more need to take apart the tool with every jam!** And the easy-glide pin track can accommodate multiple pin lengths.



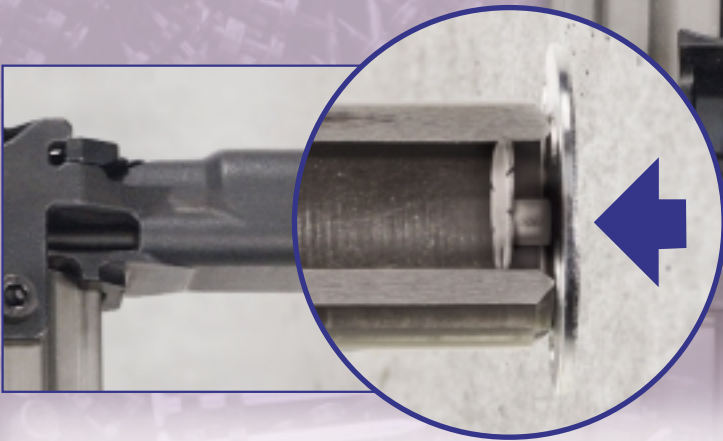
CLICK ON BATTERY  
UP TO 5700 SHOTS



SUPER HARD TRACK  
EASY PIN GLIDE

# TRAK-IT® System

Patented



Steel Framing to concrete, block or steel

STEEL



Wood to concrete or block

FORMS



Plywood to concrete or block

FRAMER



Drywall track to concrete block or steel

DRYWALL

# TRAK-IT® System

Patented

## I-BEAM 1/2" PIN (ROLLED POINT/STEP SHANK)

PART #	DESCRIPTION	BOX	CARTON
55020	1/2" Steel Pin	1000	5000



## STANDARD PINS (ROLLED POINT)

PART #	DESCRIPTION	BOX	CARTON
55022	3/4" Black	1000	5000
55024	1" Zinc	1000	5000
55026	1 1/4" Zinc	1000	5000
55028	1 1/2" Zinc	1000	5000



## BREAK-FREE (ROLLED POINT)

PART #	DESCRIPTION	BOX	CARTON
55032	3/4" Black	1000	5000
55033	1" Zinc	1000	5000
55034	1 1/4" Zinc	1000	5000
55035	1 1/2" Zinc	1000	5000



## PLYWOOD TO STEEL (SPIRAL PIN)

PART #	DESCRIPTION	BOX	CARTON
55036	1 3/8" mechanical zinc	1000	5000



## TRAK-IT FUEL CELL

PART #	DESCRIPTION	BOX	CARTON
55010	Trak-It Fuel Cell	20	80



## TRAK-IT TOOL

PART #	DESCRIPTION	BOX	CARTON
55011	TI-C Tool	1	1



## STICK-E LATHING WASHER

PART #	DESCRIPTION	BOX	CARTON
55040	1" with holes	100	1000



### NOTE:

1. All pins come packaged 1,000 per box, with one fuel cell.
2. Break-free and plywood pins will be available in 2004.
3. Powers Trak-It pins, fuel, and tools are fully interchangeable with ITW TrakFast® products.

TrakFast® is a registered trademark of Illinois Tool Works.

# Trak-It Gas Fastening System Performance Data - Average Ultimate

## AVERAGE ULTIMATE LOAD CAPACITIES FOR FASTENERS INSTALLED IN NORMAL WEIGHT CONCRETE

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	MINIMUM CONCRETE COMPRESSIVE STRENGTH							
				f <sub>c</sub> = 2,000 psi		f <sub>c</sub> = 3,000 psi		f <sub>c</sub> = 4,000 psi		f <sub>c</sub> = 5,000 psi	
				TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	5/8 (15.9)	4 (101.6)	3 (76.2)	560 (2.49)	320 (1.42)	640 (2.85)	345 (1.53)	720 (3.20)	370 (1.65)	800 (3.56)	400 (1.78)
	3/4 (19.1)	4 (101.6)	3 (76.2)	640 (2.85)	405 (1.80)	670 (2.98)	440 (1.96)	700 (3.11)	470 (2.09)	725 (3.22)	500 (2.22)
	7/8 (22.2)	4 (101.6)	3 (76.2)	670 (2.98)	405 (1.80)	670 (2.98)	440 (1.96)	600 (2.67)	470 (2.09)	570 (2.54)	500 (2.22)

## AVERAGE ULTIMATE LOAD CAPACITIES FOR FASTENERS INSTALLED IN STRUCTURAL LIGHTWEIGHT CONCRETE

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	INSTALLED IN LIGHTWEIGHT CONCRETE				INSTALLED IN LIGHTWEIGHT CONCRETE THROUGH METAL DECK (LOWER FLUTE)			
				MINIMUM CONCRETE COMPRESSIVE STRENGTH							
				f <sub>c</sub> = 3,000 psi		f <sub>c</sub> = 3,500 psi		f <sub>c</sub> = 3,000 psi		f <sub>c</sub> = 3,500 psi	
				TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	3/4 (19.1)	4 (101.6)	6 (152.4)	800 (3.56)	625 (2.78)	865 (3.85)	675 (3.00)	620 (2.76)	845 (3.76)	670 (2.98)	915 (4.07)
	7/8 (22.2)	4 (101.6)	6 (152.4)	880 (3.91)	710 (3.16)	950 (4.23)	765 (3.40)	670 (2.98)	985 (4.38)	725 (3.22)	1065 (4.74)

<sup>1</sup> For fasteners installed through metal deck, minimum edge distance is 1 inch from the edge of the deck rib and 6 inches from the end of the deck.

<sup>2</sup> The allowable values are applicable to fasteners installed through the underside of a steel deck at the ribs and into minimum 3,000 psi structural lightweight concrete. The steel deck must have a minimum base-metal thickness of 0.034 inch (20 gage) with a minimum yield point, f<sub>y</sub>, of 33,000 psi and conform to the Steel Deck Institute requirements for Standard Wide Rib Deck.

## AVERAGE ULTIMATE LOAD CAPACITIES FOR FASTENERS INSTALLED IN ASTM A 36 STEEL<sup>1,2</sup>

MINIMUM FASTENER TYPE (Style)	MINIMUM EDGE SPACING in. (mm)	DISTANCE in. (mm)	NOMINAL STEEL THICKNESS (INCH)							
			3/16"		1/4"		3/8"		1/2"	
			TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
1/2-inch Steel Pin	1 (25.4)	1/2 (12.7)	655 (2.91)	625 (2.78)	640 (2.85)	625 (2.78)	575 (2.56)	605 (2.69)	560 (2.27)	605 (2.69)

<sup>1</sup> Fasteners installed in 3/16-inch thick steel shall penetrate the steel such that the shank pierces the steel and protrudes 1/8 inch.

<sup>2</sup> Fasteners installed in 1/4-, 3/8-, and 1/2-inch thick steel must have a minimum embedment depth of 1/4 inch.

## AVERAGE ULTIMATE LOAD CAPACITIES FOR FASTENERS INSTALLED IN ASTM A 572 GRADE 50 STEEL<sup>1,2</sup>

FASTENER TYPE (Style)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	NOMINAL STEEL THICKNESS (INCH)					
			1/4"		3/8"		1/2"	
			TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
1/2-inch Steel Pin	1 (25.4)	1/2 (12.7)	470 (2.09)	570 (2.54)	320 (1.42)	440 (1.96)	220 (0.98)	270 (1.20)

<sup>1</sup> Fasteners installed in 1/4- and 3/8-inch thick steel must have a minimum embedment depth of 3/16 inch.

<sup>2</sup> Fasteners installed in 1/2-inch thick steel must have a minimum embedment depth of 1/8 inch.

## AVERAGE ULTIMATE LOAD CAPACITIES FOR FASTENERS INSTALLED IN CONCRETE MASONRY UNITS<sup>1</sup>

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	HOLLOW CMU (ANY LOCATION)	
				TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	7/8 (22.2)	4 (101.6)	3 3/4 (95.3)	540 (2.40)	670 (2.98)

<sup>1</sup> Concrete masonry units must be a minimum Grade N, Type II units conforming to ASTM Standard C 90. The face shell thickness of the concrete masonry units shall be 1-1/4 inches minimum.

# Trak-It Gas Fastening System Performance Data - Allowable

## ALLOWABLE LOAD CAPACITIES FOR FASTENERS INSTALLED IN NORMAL WEIGHT CONCRETE

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	MINIMUM CONCRETE COMPRESSIVE STRENGTH							
				$f'_c = 2,000$ psi		$f'_c = 3,000$ psi		$f'_c = 4,000$ psi		$f'_c = 5,000$ psi	
				TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	5/8 (15.9)	4 (101.6)	3 (76.2)	70 (0.31)	40 (0.18)	65 (0.29)	40 (0.18)	60 (0.27)	50 (0.22)	50 (0.22)	50 (0.22)
	3/4 (19.1)	4 (101.6)	3 (76.2)	80 (0.36)	50 (0.22)	70 (0.31)	50 (0.22)	55 (0.24)	60 (0.27)	45 (0.20)	60 (0.27)
	7/8 (22.2)	4 (101.6)	3 (76.2)	85 (0.38)	50 (0.22)	70 (0.31)	50 (0.22)	50 (0.22)	60 (0.27)	35 (0.16)	60 (0.27)

## ALLOWABLE LOAD CAPACITIES FOR FASTENERS INSTALLED IN STRUCTURAL LIGHTWEIGHT CONCRETE

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	INSTALLED IN LIGHTWEIGHT CONCRETE				INSTALLED IN LIGHTWEIGHT CONCRETE THROUGH METAL DECK (LOWER FLUTE)			
				MINIMUM CONCRETE COMPRESSIVE STRENGTH							
				$f'_c = 3,000$ psi		$f'_c = 3,500$ psi		$f'_c = 3,000$ psi		$f'_c = 3,500$ psi	
				TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	3/4 (19.1)	4 (101.6)	6 (152.4)	100 (0.44)	35 (0.16)	110 (0.49)	40 (0.18)	80 (0.36)	105 (0.47)	85 (0.38)	115 (0.51)
	7/8 (22.2)	4 (101.6)	6 (152.4)	110 (0.49)	45 (0.20)	120 (0.53)	50 (0.22)	85 (0.38)	120 (0.53)	90 (0.40)	130 (0.58)

<sup>1</sup> For fasteners installed through metal deck, minimum edge distance is 1 inch from the edge of the deck rib and 6 inches from the end of the deck.

<sup>2</sup> The allowable values are applicable to fasteners installed through the underside of a steel deck at the ribs and into minimum 3,000 psi structural lightweight concrete. The steel deck must have a minimum base-metal thickness of 0.034 inch (20 gage) with a minimum yield point,  $f_y$ , of 33,000 psi and conform to the Steel Deck Institute requirements for Standard Wide Rib Deck.

## ALLOWABLE LOAD CAPACITIES FOR FASTENERS INSTALLED IN ASTM A 36 STEEL<sup>1,2</sup>

MINIMUM FASTENER TYPE (Style)	MINIMUM EDGE SPACING in. (mm)	DISTANCE in. (mm)	NOMINAL STEEL THICKNESS (INCH)							
			3/16"		1/4"		3/8"		1/2"	
			TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
1/2-inch Steel Pin	1 (25.4)	1/2 (12.7)	130 (0.58)	120 (0.53)	115 (0.51)	120 (0.53)	115 (0.51)	120 (0.53)	110 (0.49)	120 (0.53)

<sup>1</sup> Fasteners installed in 3/16-inch thick steel shall penetrate the steel such that the shank pierces the steel and protrudes 1/8 inch.

<sup>2</sup> Fasteners installed in 1/4-, 3/8-, and 1/2-inch thick steel must have a minimum embedment depth of 1/4 inch.

## ALLOWABLE LOAD CAPACITIES FOR FASTENERS INSTALLED IN ASTM A 572 GRADE 50 STEEL<sup>1,2</sup>

FASTENER TYPE (Style)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	NOMINAL STEEL THICKNESS (INCH)					
			1/4"		3/8"		1/2"	
			TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
1/2-inch Steel Pin	1 (25.4)	1/2 (12.7)	95 (0.42)	115 (0.51)	65 (0.29)	90 (0.40)	25 (0.11)	55 (0.24)

<sup>1</sup> Fasteners installed in 1/4- and 3/8-inch thick steel must have a minimum embedment depth of 3/16 inch.

<sup>2</sup> Fasteners installed in 1/2-inch thick steel must have a minimum embedment depth of 1/8 inch.

## ALLOWABLE LOAD CAPACITIES FOR FASTENERS INSTALLED IN CONCRETE MASONRY UNITS<sup>1</sup>

SHANK DIAMETER in. (mm)	MINIMUM EMBEDMENT in. (mm)	MINIMUM SPACING in. (mm)	MINIMUM EDGE DISTANCE in. (mm)	HOLLOW CMU (ANY LOCATION)	
				TENSION lbs. (kN)	SHEAR lbs. (kN)
0.109 (2.77)	7/8 (22.2)	4 (101.6)	3 3/4 (95.3)	65 (0.29)	80 (0.36)

<sup>1</sup> Concrete masonry units must be a minimum Grade N, Type II units conforming to ASTM Standard C 90. The face shell thickness of the concrete masonry units shall be 1-1/4 inches minimum.



POWERS FASTENERS **BRANCH INFORMATION**

## USA LOCATIONS

CITY	ADDRESS	CONTACT	PHONE	FAX
Atlanta	5405 Buford Hwy Suite 220 Norcross, GA 30071-3984	Robert Brito	678-966-0000	678-966-9242
Boston	177 North Falmouth Hwy North Falmouth, MA 02556	Jack Armour	800-524-3244	914-576-6483
Charlotte	349 L West Tremont Avenue Charlotte, NC 28203	Jim Karoly	704-375-5012	704-376-5517
Chicago	2474 Wisconsin Avenue Downers Grove, IL 60515	Dan Gilligan	630-960-3156	630-960-3912
Dallas	see Houston	Joe Jackson	214-638-5043	713-228-1528
Denver	221 Wyandot Street Denver, CO 80223	Aaron Minnis	303-922-9202	303-922-9228
Detroit	21211 Bridge Street Southfield, MI 48034-4093	Glen Gaskill	248-354-6152	248-354-5197
Florida	Lakeview Center 2345 Stirling Road Ft. Lauderdale, FL 33312	Michael Gaffigan	954-981-6955	954-965-0513
Houston	102 Sampson Houston, TX 77003	Jimmy Thompson	713-228-1524	713-228-1528
Indianapolis	15290 Stony Creek Way Noblesville, IN 46060	Bill Trainor	317-773-1668	317-773-1690
Kansas City / St Louis	716 East 16th Avenue, North Kansas City, MO 64116	Don James, Jr.	816-472-5038	816-472-5040
Los Angeles	2761 Dow Avenue Tustin, CA 92780	Jack Stewart	714-731-2500	714-731-2566
Maryland	6626 Virginia Manor Road Beltsville, MD 20705	Gary Engleman	301-210-1430	301-210-1435
Milwaukee	12020 W. Feerick Street Milwaukee, WI 53222	Kevin Knuth	414-466-2400	414-466-3993
Minneapolis	351 Wilson Street, NE Minneapolis, MN 55413	Rick Gruye	612-331-3756	612-331-3549
Nashville/Memphis	221 Blanton Avenue, Nashville, TN 37210	Marty Gammon	615-248-2667	615-248-2676
New Orleans	317 West 24th Avenue New Orleans, LA 70815	Cal Zenor	888-779-3667	225-928-5809
New York	2 Powers Square New Rochelle, NY 10801	John Partridge	914-235-6300	914-576-6483
Philadelphia	200 Petersville Road, New Rochelle, NY 10801	David O'Hara	800-524-3244	215-778-5143
Phoenix	3602 E. Southern Ave, Suite 5 Phoenix, AZ 85040	Scott Glasnapp	602-431-8024	602-431-8027
Pittsburgh	1360 Island Avenue McKees Rocks, PA 15136	Bill Dugan	412-771-3010	412-771-9858
Rochester	875 Atlantic Avenue Rochester, NY 14609	Chuck Kolstad	716-288-2080	716-288-8732
Salt Lake City	2212 SW Temple #4 Salt Lake City, UT 84115	Bruce Burnett	801-466-3406	801-484-0731
San Francisco	28970 Hopkins Street, Suite D Hayward, CA 94545	James Suggs	510-293-1500	510-293-1505
Seattle	129 South Kenyon Seattle, WA 98108	Darin Arnold/Jim Swink	206-762-5812	206-762-5817

## INTERNATIONAL LOCATIONS

CITY	ADDRESS	CONTACT	PHONE	FAX
Canada	7407 Bren Road Mississauga Ontario L4T 1H3	Dick Hamer	905-673-7295	905-673-6490
British Columbia	63 Fawcett Road Coquitlam, V3K 6V2	Distributor	604-540-0200	604-540-0212
Manitoba	1810 Dublin Avenue Man. Winnipeg, R3H 0H3	Distributor	204-633-0064	204-694-1261
Quebec	For name of nearest distributor call Powers Industries Ltd at	Dick Hamer	514-631-4216	514-631-2583
Europe	J. Van Stolbergstraat 11 1723LB Noord-Scharwoude Netherlands	Paul Geuvers	+31 226 357 670	+31 226 358 817
Australia	5-7 Henley Court Moorabbin Victoria 3189	Phil Rose	+61 3 9553 3999	+61 3 9553 4400
New Zealand	PO Box 302 076 North Harbour Auckland	Claye Sesto	+64 9415 2425	+64 9415 2627
Venezuela	Calle Sucre/Qta. Maudora, #1721 Entre Cec Acosta Y San Ignacio Chacao, Caracas	Distributor	58 212 264 1313	58 212 263 0219

Note: The information and data contained within this documentation was current as of November 1, 2004. The information is subject to change and is updated as needed.

Powers Fasteners, Inc. reserves the right to change designs and specifications without notice or liability for such changes.

Please contact Powers Fasteners for the most current and up to date available information or refer to our website at [www.powers.com](http://www.powers.com)

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[www.powers.com](http://www.powers.com)

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