

Powder-Actuated Fastening Systems

SIMPSON
Strong-Tie



Direct Fastening Solutions



The PT-27 is a high quality semi-automatic and fast-cycling fastening tool

PT-27 tools are engineered for continuous use, high reliability and low maintenance. This versatile tool installs a variety of fastener types and lengths.

Features and Benefits

- Reliable design for peace of mind on the jobsite
- Safe to handle as tool requires compression against work surface for trigger to be actuated
- Operator comfort from cushioned grip and reduced recoil
- Sound dampening muffler for quiet operation
- Fast-cycling for quick operation
- Easy disassembly for cleaning and maintenance

Application

- Mechanical / Electrical / Plumbing
- Timber / Residential Construction
- Framing members
- Drywall track
- Formwork
- Water proofing material and/or lathing

Base Material

- Concrete
- Steel

Specifications

- Fastener Length: 19–72 mm
- Fastener Head Size: 8 mm Diameter
- Firing Action: Semi-automatic
- Load Calibre: .27 strip loads, brown through red (levels 2–5)
- Length: 340 mm
- Weight: 2.32 kg



Cushioned rubber grip



Semi-automatic



Safe to handle



Fast-cycling



Product Includes

Tool is sold in a rugged tool box complete with:

- Operator's manual
- Spall suppressor
- Safety glasses / ear plugs
- Cleaning brushes
- Operator's exam and caution sign

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Fasteners for Simpson Strong-Tie® Powder-Actuated Tools

These fasteners work with Simpson Strong-Tie tools and most other tools.



PDPA Loose drive pins

- Head: 7.6 mm
- Shank Diameter: 3.98 mm
- Tip: Ballistic point
- Finish: Zinc coated



PDDPAW Washered drive pins

- Head: 7.6 mm
- Shank Diameter: 3.98 mm
- Washer: 24 mm
- Tip: Ballistic point
- Finish: Zinc coated





Length (mm)	Model No.	Barcode	Dims.	100/Box (WxLxH)	
				1000/Ctn (WxLxH)	
19	PDPA-75	707392470519	80 x 65 x 42 mm	0.25 kg	
				2.95 kg	
27	PDPA-100	707392818823	90 x 65 x 80 mm	0.35 kg	
				3.65 kg	
32	PDPA-125	707392810520	90 x 65 x 80 mm	0.43 kg	
				4.30 kg	
37	PDPA-150	707392373124	90 x 65 x 80 mm	0.45 kg	
				4.90 kg	
47	PDPA-187	707392143420	90 x 65 x 80 mm	0.50 kg	
				5.25 kg	
52	PDPA-200MG*	707392556800	90 x 65 x 80 mm	0.65 kg	
				6.55 kg	
62	PDPA-250MG*	707392392804	115 x 90 x 80 mm	0.75 kg	
				7.90 kg	
72	PDPA-287MG*	707392512202	115 x 90 x 80 mm	0.90 kg	
				9.00 kg	

Length (mm)	Model No.	Barcode	Dims.	100/Box (WxLxH)	
				1000/Ctn (WxLxH)	
27	PDDPAWL-100	707392460015	115 x 90 x 80 mm	1.04 kg	
				10.45 kg	
32	PDDPAWL-125	707392530015	107 x 104 x 100 mm	11.10 kg	
				11.45 kg	
47	PDDPAWL-187	707392329022	107 x 104 x 100 mm	1.25 kg	
				12.85 kg	
52	PDDPAWL-200	707392708810	107 x 104 x 100 mm	1.30 kg	
				13.40 kg	
62	PDDPAWL-250	707392739210	135 x 110 x 105 mm	1.40 kg	
				14.90 kg	
72	PDDPAWL-287	707392653806	135 x 110 x 105 mm	1.55 kg	
				15.85 kg	

*Mechanically galvanised

Powder Loads — .27 Calibre Plastic, 10-shot strip loads

The P27SL strip loads work with Simpson Strong-Tie tools and most other .27 calibre strip load tools.

Description	Model No.	Barcode	Dims.	100/Box (WxLxH)	
				10,000/Ctn (WxLxH)	
 Brown (Level 2)	P27SL2	707392577515	50 x 180 x 38 mm	0.14 kg	
				14.50 kg	
 Green (Level 3)	P27SL3	707392642015	50 x 180 x 38 mm	0.14 kg	
				14.50 kg	
 Yellow (Level 4)	P27SL4	707392014461	50 x 180 x 38 mm	0.14 kg	
				14.50 kg	
 Red (Level 5)	P27SL5	707392983019	50 x 180 x 38 mm	0.14 kg	
				14.50 kg	

For fastening → Into ↓	Timber (45mm thick)	Timber (25mm thick)	Plywood (19mm thick)	Steel Fixtures/Conduit Clips (light steel)	Drywall Track	Pin Length (mm)				
						Concrete	Cement Block	Steel (5–6mm)	Steel (6–8mm)	
	72	52	47	27	19					
	72	52	47	27	27					
	62	32 (washed)	32 (washed)	19	—					
	62	47 (washed)	32 (washed)	19	—					

PAT Application Guide — General Notes

1. Average pin embedment into concrete is 19–32 mm.
2. To determine pin length for concrete: add fixture thickness and embedment depths.
3. To determine pin length for steel applications: add fixture thickness plus steel thickness plus 3 mm. Getting the point to pass through steel 3 mm maximises holding strength.
4. When selecting a load power level, it is recommended to make a test fastening with the lowest power level. If the powder load does not set the fastener, try the next highest load, and so on, until the fastener is properly set.

1. To be used as a guide only—see General Notes
2. Recommended minimum embedment depth for maximum holding strength: Steel = 12 mm; Concrete/Cement Block = 25 mm