

**SIMPSON**

**Strong-Tie**

®



# Direct Fastening **Solutions**

**Powder-Actuated**  
Fastening Systems

# PT-27 General-Purpose Powder-Actuated Tool

## Semi-Automatic

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

- Reliable design
- Operator comfort from cushioned grip and reduced recoil
- Sound dampening muffler for quiet operation
- Fast-cycling
- Easy disassembly for cleaning and maintenance

### Applications

- Electrical applications
- Framing members
- Bottom plates
- Drywall track
- Formwork
- Water proofing material and/or lathing

### Base Material

- Concrete
- Steel

### Specifications

- Fastener length: 16–72 mm
- Fastener type: 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

### Product Includes

Tool is sold in a rugged tool box complete with:

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

### Powder Loads and Fasteners

- Refer to page 3 for further information.



# Powder Loads and Fasteners

Some products may not be available in your region Please contact your local office for availability.

## 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.	Box Qty	Carton Qty	Compatible Tools
.27 Cal.–Brown (Level 2)	P27SL2	100	10,000	PT-27 and Others
.27 Cal.–Green (Level 3)	P27SL3	100	10,000	
.27 Cal.–Yellow (Level 4)	P27SL4	100	10,000	
.27 Cal.–Red (Level 5)	P27SL5	100	10,000	
.27 Cal.–Purple (Level 6)	P27SL6	100	10,000	Others



## Fasteners for Simpson Strong-Tie® Powder-Actuated Tools

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

### PHN Loose drive pin



- Head: 8 mm
- Shank Diameter: 3.68 mm
- Tip: Ballistic point
- Region: **AU**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
22	PHN-22	10	1000	PT-27 and Others
27	PHN-27			
32	PHN-32			
37	PHN-37			
42	PHN-42			
47	PHN-47			
52	PHN-52			
57	PHN-57			
62	PHN-62			
72	PHN-72A			

### PDPA Loose drive pins



- Head: 7.6 mm
- Shank Diameter: 3.98 mm
- Tip: Ballistic point
- Region: **NZ**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
16	PDPA-62K (Knurled)	10	1000	PT-27 and Others
19	PDPA-75			
27	PDPA-100			
29	PDPA-106			
32	PDPA-125			
37	PDPA-150			
47	PDPA-187			
52	PDPA-200MG *			
62	PDPA-250MG *			
72	PDPA-287MG *			

\*Mechanically galvanised finish.

### PHNW Washered drive pins



- Head: 8 mm
- Shank Diameter: 3.68 mm
- Washer: 25 mm
- Tip: Ballistic point
- Region: **AU**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
27	PHNW-27	10	1000	PT-27 and Others
32	PHNW-32			
42	PHNW-42			
52	PHNW-52			
62	PHNW-62			
72	PHNW-72			

### PDPAW Washered drive pins



- Head: 7.6 mm
- Shank Diameter: 3.98 mm
- Washer: 19 mm
- Tip: Ballistic point
- Region: **NZ**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
19	PDPAW-75	10	1000	PT-27 and Others
27	PDPAW-100			
32	PDPAW-125			
37	PDPAW-150			
47	PDPAW-187			
52	PDPAW-200			
62	PDPAW-250			
72	PDPAW-287			



## Fasteners for Simpson Strong-Tie® Powder-Actuated Tools (cont.)

These fasteners work with most other tools.

## PHSNA Collated drive pins



- Head: 8 mm
- Shank Diameter: 3.68 mm
- Tip: Ballistic point
- Collation: 10 pins per strip
- Region: **AU**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
16	PHSNA-16K (Knurled)	10	1000	Others
19	PHSNA-19			
19	PHSNA-19K (Knurled)			
22	PHSNA-22			
27	PHSNA-27			
32	PHSNA-32			
37	PHSNA-37			
42	PHSNA-42			
47	PHSNA-47			
52	PHSNA-52			
57	PHSNA-57			
62	PHSNA-62			
72	PHSNA-72			

## PDPAS Collated drive pins



- Head: 7.6 mm
- Shank Diameter: 3.98 mm
- Tip: Ballistic point
- Collation: 10 pins per strip
- Region: **NZ**

Length (mm)	Model No.	Box Qty	Ctn Qty	Compatible Tools
19	PDPAS-75	10	1000	Others
27	PDPAS-100			
32	PDPAS-125			
37	PDPAS-150			
47	PDPAS-187			
52	PDPAS-200			
62	PDPAS-250			
72	PDPAS-287			

## 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.

## Typical Applications

		Level Key				
		2–Brown	3–Green	4–Yellow	5–Red	
For fastening →	Into ↓	Timber (45mm thick)	Timber (25mm thick)	Plywood (19mm thick)	Steel Fixtures/Conduit Clips (light steel)	Drywall Track
Pin Length (mm)						
Concrete		72	52	42	27	19
Cement Block		72	52	42	27	27
Steel (5–6mm)		62	32 (washed)	32 (washed)	19	16 (knurled)
Steel (6–8mm)		62	42 (washed)	32 (washed)	19	16 (knurled)

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