SDPW DEFLECTOR Screw



The SDPW Deflector Screw is a premium structural fastening solution that provides a time-saving solution for non-load-bearing walls to trusses and joists.

With tested lateral-load ratings the SDPW screw is value engineered for strength, installation speed and safety.

The SDPW is designed for superior performance, and it's backed by the best service and product support in the industry.

Features and Benefits

- Pre-drill bit bores its own hole eliminating the screw from following the timber grain that could cause a miss-installation into the truss/joist.
- Polymer sleeve allows for sliding during deflection, preventing squeaks
- E-coat[®] for dry service applications and is compatible with treated timber
- Offset driver bit (6-lobe) securely drives SDPW Deflector screw to predetermined screw depth
- Extension allows for overhead installations eliminating the use of a ladder
- Available in three lengths to suit various scenarios

US Patent 8,458,972 applies to Strong-Drive SDPW Solution US Patent 9,523,383 applies to 152 mm (6") SDPW Deflector fasteners

Application

 Non-load bearing wall connections to truss/joists (including I-joists)

Finish

- E-coat[®] Electrocoating
- · For further details refer to corrosion information



Typical SDPW installation (127 mm version shown)

6. Extension 450 mm PW18EXT (sold separately)

SDPW DEFLECTOR Screw

Why Use the SDPW Deflector Screw?

The Problem

Internal, non-load bearing walls require a minimum 10mm gap between top plate and the underside of floor joists or roof trusses to allow for vertical differential movement.

The connection between these internal non-load bearing walls and the above framing members are also required to resist lateral forces whilst allowing for vertical differential movement.

The Solution

The SDPW Deflector Screw makes a connection that slips on demand with vertical displacements of the floor or the supporting ceiling joist or truss chord while providing resistance to horizontal forces in the F_2 direction.

The SDPW Deflector Screw installation also includes a head offset from the bottom of the top plate.

For load data and spacing information visit strongtie.com.au and search 'SDPW'

Fast

Installation of the SDPW Deflector Screw solution involves driving a single screw per connection point up through the partition wall top plate and into the supporting member. The single SDPW Deflector Screw provides equivalent load capacity as alternative methods using metal clips installed with several fasteners per connection point.

Efficient

Non-load-bearing, full-height partition walls require being secured to resist lateral forces, while providing the ability to allow for vertical deflection as a result of vertical forces. There are existing hardware connector and fastener solutions, but the Strong-Drive SDPW Deflector Screw single-fastenerper-joist solution provides a comprehensive, more efficient solution.

Versatile

Many alternative deflection solutions are limited as to which partition-wall connection they can be applied. A single length deflection screw solution is often applicable to a specific connection configuration. The SDPW Deflector Screw is available in three sizes providing solutions for various top-of-wall configurations.

Reduce Callbacks

Helps prevent costly callbacks. Studies have shown that improperly connected partition walls can lead to cracks in attached drywall when loading or environmental forces are applied. A partition wall fastened with SDPW Deflector Screws and with drywall correctly detailed will facilitate differential movements without damage to the drywall. Deflection solutions involving metal-on-metal fastening are prone to squeaking when movement occurs. SDPW Deflector Screw Solution's polymer sleeve acts as a friction barrier between the fastener and top plate, thus preventing squeaks.



F₁, F₂ – Lateral Forces; M – Vertical Deflections



SDPW Deflector Screw solution with Vertical Movement and Direction of Deflection



127 mm Strong-Drive SDPW Deflector Screw installed through top plate.



SDPW has the capability to be used with I-Joists



What you won't need...











Easy to Install

- 1. Attach extension with drill bit to drill/driver motor.
- 2. Predrill into top plate only.

- 3. Replace drill bit with offset bit.
- 4. Drive SDPW Deflector Screw through predrilled top plate and into the truss or ceiling joist





Solutions for various top-of-wall configurations







(between top plate and truss/joist)

providing a 10 – 35 mm gap (between top plate and truss/joist) providing a 10 – 35 mm gap (between top plate and truss/joist)

SDPW Deflector Screws installed with the Offset Driver Bit Driver Bit can be set with the head at either a 0 mm or 19 mm offset from the underside of the top plate to allow for vertical movements up and down.

Larger SDPW screws can be used in lower top plate configurations providing a minimum 10mm gap remains between the top of sleeve and upper framing member

SDPW Deflector Screws

Size (mm)	Thread Length (mm)	Head Dia. (mm)	Drive Type	Sleeve Length (mm)	Sleeve Color	Model No.	Fasteners per Pack	Barcode	Dimensions	Pack (WxLxH)	
										Ctn (V	WxLxH)
3.5 x 89	51	14	T25	38	Blue	SDPW14312-R50	50	707392014447	95 x 194 x	76 mm	0.63 kg
									203 x 203 x 2	48 mm	3.78 kg
						SDPW14312MB	500	707392014478	257 x 257 x 2	92 mm	5.56 kg
3.5 x 127	51	14	T25	76	Orange	SDPW14500-R50	50	707392014454	95 x 194 x	76 mm	0.83 kg
									203 x 203 x 2	48 mm	4.98 kg
						SDPW14500MB	500	707392014485	257 x 257 x 2	92 mm	7.60 kg
5.0 x 152	70	16.5	T40	76	Gray	SDPW19600-R50	50	707392014461	95 x 194 x	76 mm	1.54 kg
									203 x 203 x 2	.48 mm	9.24 kg
						SDPW19600MB	400	707392014492	257 x 257 x 2	92 mm	11.86 kg

Note: 50 packs are 6 per carton and include (1) offset driver bit and (1) %" predrill bit. Bulk packs include (2) offset driver bits and (2) %" predrill bits.

SDPW Accessories

Madal Na	Description new Deals	Packs/ Ctn	Barcode	Dimensions	Pack (WxLxH) Ctn (WxLxH)	
woder no.	Description per Pack			Dimensions		
DW/KIT25T	T25 Bit Kit: 1 x Quick Release Predrill Bit	12	707392014508	44.5 x 168 x 4	4.5 mm	0.10 kg
FWRI1251	(%" (9.5 mm) x 5" (127 mm)), 2 x T25 Offset Driver Bits			152 x 159 x 1	78 mm	1.20 kg
DW/KIT4OT	T40 Bit Kit: 1 x Quick Release Predrill Bit	Bit 12 iver Bits	707392014515	44.5 x 168 x 4	4.5 mm	0.10 kg
FWKI1401	(%" (9.5 mm) x 5" (127 mm)), 2 x T40 Offset Driver Bits			152 x 159 x 1	78 mm	1.20 kg
	1 x Extension 450 mm	15	707392014522	51 x 508 x 2	20 mm	0.14 kg
FWIGEAT				152 x 159 x 1	78 mm	2.10 kg

The Complete Strong-Drive® Framing Solution

SDWS

Top and bottom plate to stud *Eliminates the need to use strapping*

SDWC Rafter and truss to top plate Eliminates the use of framing anchors

Quik Stik

Rafter and truss fastening system *Ergonomic and safe installation of SDWC*

SDPW

Non-load-bearing walls to trusses and joists *Eliminates the use of hitch plates*

Visit our website for more information









Simpson Strong-Tie® Australia Pty Ltd Call **1300 STRONGTIE** (1300 787664) www.strongtie.com.au

This flyer reflects information available as of March, 2021 and may be updated periodically. Please visit our website for Current Information, Technical Data and Limited Warranty.