

DTT1Z

Tension Tie & Holddown



The DTT1Z is ideal for retrofit or new construction projects

The DTT1Z Tension Tie & Holddown is designed for holddown applications on single or double studs. It can also be utilised in horizontal applications as a tension tie.

Material

- Carbon Steel 2.0mm thick

Finish

- ZMAX®



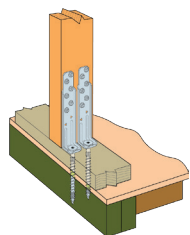
Features & Benefits

- Engineered swages for extra strength and to minimise deflections
- Accommodates the Titen HD 8mm x 140mm Screw Anchor or SDWH Structural Fastener
- Installs easily with Strong-Drive SD9 Connector screws (included in DTT1Z-KT or DTT1Z-KTM)

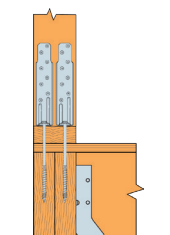
Applications

- Holddown Applications including thermally insulated slabs
- Resisting tension load applications
- Deck-to-House Lateral Load Connection
- Bracewall Holddown applications to concrete or timber substrates
- Can be used as an alternative brace panel holddown in GIB EzyBrace® systems
- Retrofit or new construction projects
- Residential and commercial projects
- Mid floor vertical connection applications
- Engineered Wood Products (EWP)
- Cross-Laminated Timber (CLT)

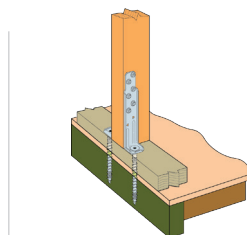
Construction Details



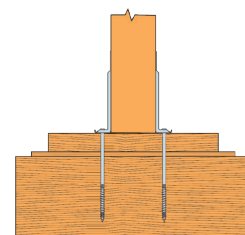
DTT1Z Holddown



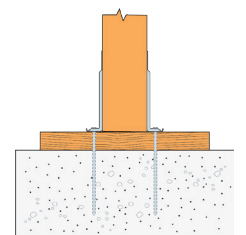
Adjacent Installation



DTT1Z Holddown



Opposing Stud Face Installation



Opposing Stud Face Installation



DTT1Z

Simpson Strong-Tie® Australia
Call **1300 STRONGTIE** (1300 787 664)
www.strongtie.com.au

Simpson Strong-Tie® New Zealand
Call **09 477 4440**
www.strongtie.co.nz

Simpson Strong-Tie Limited Warranty: For the Limited Warranty that applies to Simpson Strong-Tie products, please consult www.strongtie.com.au/warranty or [www.strongtie.com.au/warranty](mailto:info.au@strongtie.com). To obtain a copy of the Limited Warranty, contact us at info.au@strongtie.com or info.nz@strongtie.com, or at the number provided here. The Limited Warranty contains important disclaimers, limitations and exclusions, and applies only if the products have been properly specified, installed, maintained, and used in accordance with the design limits and the structural, technical, and environmental specifications in the Simpson Strong-Tie Documentation. All future purchases of Simpson Strong-Tie products are subject to the terms of the Limited Warranty in effect as of the purchase date.

DTT1Z

Tension Tie & Holdown



Typical Installation

Concrete (DTT1Z-KTM)

1. Lower the DTT1Z to the inside face of the frame.
2. Use the DTT1Z to mark drill hole.
3. The minimum distance from the centre of the hole to the concrete slab edge is 35mm.
4. Drill a 8mm diameter hole through the bottom plate and in the base material using the carbide drill bit. Drill the hole (exceeding the minimum 78mm) to a depth to suit the anchor embedment plus 13mm to allow the thread tapping dust to settle.
5. Blow it clean using compressed air and appropriate PPE. Alternatively use manual blow pump by Simpson Strong-Tie (model number PUMP).
6. Starting from the bottom, install all SD#9 screws provided using 1/4" (6.35mm) hex bit.
7. Insert the provided THD08140MG through the DTT1Z and into the hole. Tighten the anchor into the base material until the hex washer head firmly contacts the fixture.
8. If the anchor will not install completely, remove the anchor and assure that all dust has been evacuated or drill the hole deeper. Begin re-installation of the anchor by hand to prevent cross-threading.
9. Repeat the process for the second DTT1Z and the other side of the brace wall.

Timber (DTT1Z-KT)

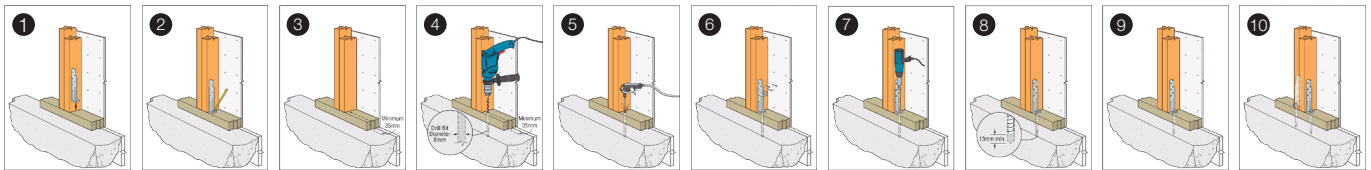
1. Lower the DTT1Z to the inside face of the frame.
2. Align the base of the DTT1Z horizontally so the anchor hole for the screw is centered over the joist/bearer below (ie. 22.5mm timber edge distance).
3. Starting from the bottom, install all SD#9 screws provided using 1/4" (6.35mm) hex bit.
4. Insert the provided 7x203mm screw through the DTT1Z anchor hole and drive the screw vertically until the washer head firmly contacts the fixture.
5. Repeat the process for the second DTT1Z and the other side of the brace wall.



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Concrete (DTT1Z-KTM) Installation Steps



Model No.	Dimensions			Fasteners Qty		Pack Barcode	Carton Barcode	Pack Dims (WxLxH)	Pack Weight (kg)	Carton Weight	
	Strap Thickness	W	H	B	Anchor Hole						Post
DTT1Z-KT	2	38	181	37	1 - SDWH Screw	6 - SD#9 x 38mm	707392694137	10707392694134	90 x 270 x 50mm	0.955	3.901
DTT1Z-KTM	2				1 - THD Anchor						

DIMENSIONS



Designed and Tested

Simpson Strong-Tie® connectors have been designed and tested for use with specific types and sizes of nails or screws. The specified fastener size, type and quantity must be installed in the correct holes on the connector to achieve published loads.

Other factors such as the fastener material and finish are also important as the use of incorrect fasteners or misinstallation can compromise the connector performance and could lead to failure. Simpson Strong-Tie has a broad range of fasteners designed to suit our range of connectors.

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