

# DTT1Z — Tension Tie & Holddown

## Material:

- Carbon Steel 2.0mm thick

## Finish:

- Galvanised—ZMAX® coating



## Features & Benefits

- Designed for external and internal braced walls for concrete foundations and timber mid or sub-floors constructed in accordance with NZS 3604:2011, and exceeding the typically required 15kN holddown capacity
- Can be installed anytime before plasterboard or wall lining
- The load capacities are applicable for 20MPa concrete strengths
- The M8 x 140mm Titen HD® Heavy Duty Screw Anchor has serrated cutting teeth and patented thread design, which reduce installation torque, enable quick and easy installation into concrete
- The SDWH timber screw requires no pre-drilling for installation into timber mid or sub-floor members

## Certification

- THD Approvals - BRANZ Appraisal 983 (2018) for applications related to bottom plate fixings and holddown applications per NZS 3604 using Titen HD

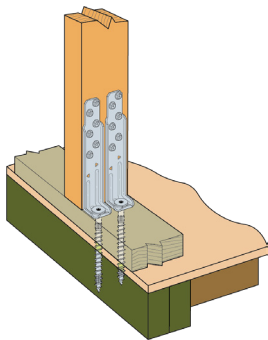
## Installation

- Installing the THD08140MG Screw Anchors into concrete slabs requires a minimum of 35mm edge distance and 78mm embedment, using a pair of DTT1 on opposing stud faces.
- Installation into timber mid or sub-floors requires the SDWH installed centred in the 45mm timber members below, using a pair of DTT1Z either adjacent on the same stud face or on opposing stud faces
- Follow the DTT1Z installation guide
- Can be used as an alternative brace panel holddown in GIB EzyBrace® Systems
- Ref GIB® Technical Support 18/03/2025

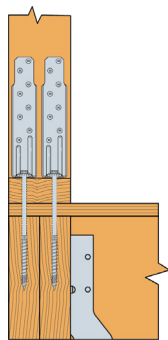


DTT1Z

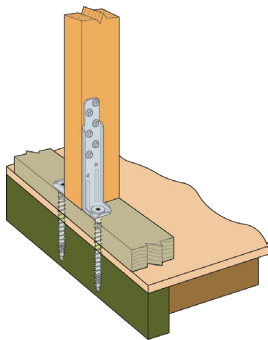
## Construction Details



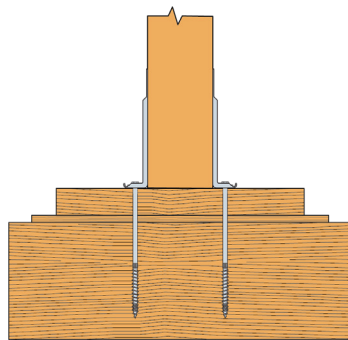
DTT1Z Holddown



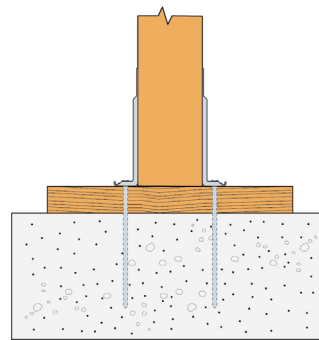
Adjacent Installation



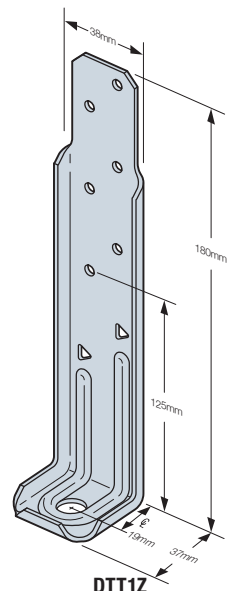
DTT1Z Holddown



Opposing Stud Face Installation



Opposing Stud Face Installation



DTT1Z

# DTT1Z — Tension Tie & Holdown

## DTT1Z-KTM (Concrete) Bracewall Holdown Kit Technical Data

Model No. (Holdown Bracket)	Size (mm)					Fasteners		Minimum Timber Member Size (Depth x Breadth, mm)	Material & Finish	Capacity
	Strap Thickness	W	H	B	CL	Anchor Hole Dia (mm)	Post (Nails: No. - Length x Dia., Screws: No. - Dia. x Length, mm)			
DTT1Z	2	38	181	37	19	10	6 – SD#9 x 38	90 x 45	ZMAX® Galvanised	15kN/ pair*
Model No. (Anchor)		Size (mm)		Head Type			Point	Material & Finish		
THD08140MG		M8x140		13mm Hex Head			Serrated Threads	Mechanically Galvanised		

\*15kN/pair installed at each end of Bracewall

DTT1Z-KTM (Concrete Substrate)	Description	Millimetre
Concrete Edge Distance	Minimum Edge Distance	35mm
	Minimum Spacing between Anchors	88mm
	Minimum Concrete Anchor Embedment	78mm

## DTT1Z-KT (Timber) Bracewall Holdown Kit Technical Data

Model No. (Holdown Bracket)	Size (mm)					Fasteners		Minimum Timber Member Size (Depth x Breadth, mm)	Material & Finish	Capacity
	Strap Thickness	W	H	B	CL	Anchor Hole Dia (mm)	Post (Nails: No. - Length x Dia., Screws: No. - Dia. x Length, mm)			
DTT1Z	2	38	181	37	19	10	6 – SD#9 x 38	90 x 45	ZMAX® Galvanised	15kN/ pair*
Model No. (Anchor)		Size (mm)		Head Type			Point	Material & Finish		
SDWH27800G		7x203 <sup>(1)</sup>		3/8" Drive - Integrated Washer Head			SawTooth™ Type-17 Point	Hot Dipped Galvanised		

(1) Minor diameter 7mm, major diameter 10mm

\*15kN/pair installed at each end of Bracewall

DTT1Z-KT (Timber Substrate)	Description	Millimetre
Timber Edge Distance	Minimum Edge Distance	22.5mm
	Minimum Spacing between Anchors	88mm
	Minimum Timber Anchor Embedment	110mm



BRANZ Appraised  
Appraisal No. 983 [2023]



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