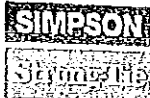


DTT Deck Tension Ties

DTT tension ties are safe, cost-effective connectors designed to meet or exceed code requirements for deck construction. These versatile DTT connectors are also load rated as a holdown for light-duty shearwalls and braced wall panel applications.

For new construction or to make an existing current deck code-compliant, the DTT1Z can be used as a tension-tie to satisfy the 2015 IRC provision for a 750 lbs. lateral load connection to the house at four locations per deck. This new code detail permits the lateral connection from the deck joists to be made to top plates, studs, or headers within the supporting structure which eliminates the need to access to the floor joists inside the home.

The new DTT1Z fastens to the narrow or wide face of a single 2x with Simpson Strong-Tie® Strong-Drive® SD Connector screws or nails and accepts a 1/2" machine bolt, anchor bolt, or lag screw (washer required) or can be installed with the new Strong-Drive SDWH Timber-Hex HDG screw with an integral washer. The DTT2 fastens easily to the wide face of a single or double 2x using Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws (included) and accepts a 1/2" machine bolt or anchor bolt.

The DTT2 can be used to satisfy the IRC provision for a 1,500 lbs. lateral load connection at two locations per deck. Additionally, the DTT2 has been tested and evaluated in deck guardrail post applications to resist the code-specified lateral forces at the top of railing assemblies. The DTT2 is also available with longer 2 1/2" Strong-Drive SDS Heavy-Duty Connector screws (model DTT2Z-SDS2.5) to achieve higher loads when needed.

MATERIAL: 14 gauge

FINISH: DTT1Z/DTT2Z—Z1AAX² coating;

DTT2SS—Stainless steel; see Corrosion Information, pages 13-15.

INSTALLATION:

- Use all specified fasteners. See General Notes.
- A standard cut washer (included) must be installed between the nut and the seat.
- Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws install best with a low speed high torque drill with a 1/2" hex head driver.
- Strong-Drive SD Connector screws install with a 1/2" hex head driver.
- Strong-Drive SDWH Timber-Hex HDG screws install with a 1/2" hex head driver.

CODES: See page 12 for Code Reference Key Chart.

These products are available with additional corrosion protection. Additional products on this page may also be available with this option. Check with Simpson Strong-Tie for details.

Model No.	Q	Anchor Dia.	Fasteners	Minimum Wood Member Thickness	Allowable Tension Loads		Code Ref.
					DF/SP	SPF/HF	
DTT1Z			6-SD + 9-1"	1	840	840	100
			or 6-10Gx1		910	640	
			2-10Gx1		910	850	
DTT2Z/DTT2SS	1/2"	1/2"	8-1/2"x1 1/2" SDS	1 1/2"	1825	1800	16 L8 F5
				3	2145	1835	
DTT2Z-SDS2.5			8-1/2"x2 1/2" SDS	3	2145	2105	

1. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed.
2. DTT1Z installations with allowable loads below 750 lbs. do not satisfy the 2015 IRC requirements for deck-to-house lateral load connections.
3. The Strong-Drive® SDWH Timber-Hex HDG screw with a diameter of 3/4" of finished lumber has an allowable withdrawal load (WDL) of 1350 lbs. into SP, 1225 lbs. into DF and 1020 lbs. into SPF/HF.
4. Load values are valid if the product is flush with the end of the framing member or installed away from the end.
5. The guardrail post illustration above addresses an outward force on the guardrail. An additional DTT2Z can be added at the lower belt to address an inward force.
6. A 1/4" HDG round washer is required when using a lag screw.

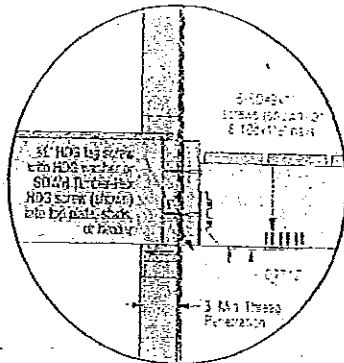
NEW

4 per deck

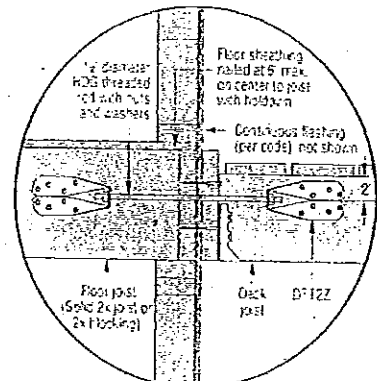
DTT1Z
U.S. Patent Pending

2 per deck

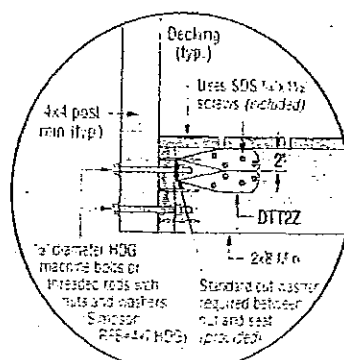
DTT2Z



Typical DTT1Z Deck-to-House Lateral Load Connection
For more information on lateral load connections, see technical bulletin T-DECKLATLOAD



Typical DTT2Z Deck-to-House Lateral Load Connection
For more information on lateral load connections, see technical bulletin T-DECKLATLOAD



DTT2Z Installed as a Lateral Connector for a Deck Guardrail Post
For more information on guardrail post connections, see technical bulletin T-GRDRPLST