

HD SERIES

PRODUCT FEATURES:

Holdowns (HD) are used to resist uplift forces due to wind or overturning of shear walls. These are available in various sizes to meet the light to heavy load requirements using nails, screws and bolts as fasteners.

Other HD applications include purlin-to-purlin, Concrete/Masonry walls to decking or flooring attachments.

MATERIAL:

See Allowable Loads Table.

COATING:

Galvanized (G185) - LTT20, LTT7*, HDTT, HDTT3, HDTT6, HD5, HD7, HD8 & HD11

Spray Painted Primer (gray) - HD14 & HD22



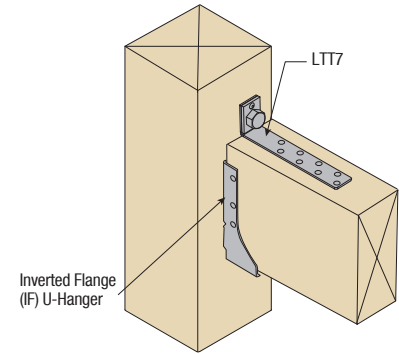
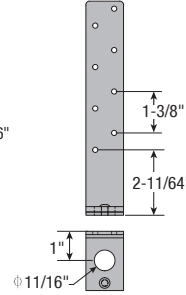
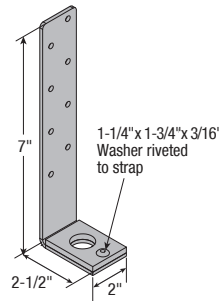
INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated

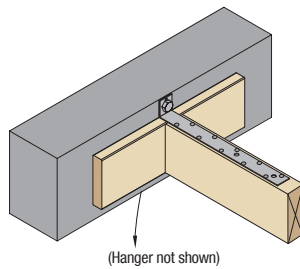
CODE COMPLIANCE:

TER 0910-01; FL 3557

*Call QT for code approval information.

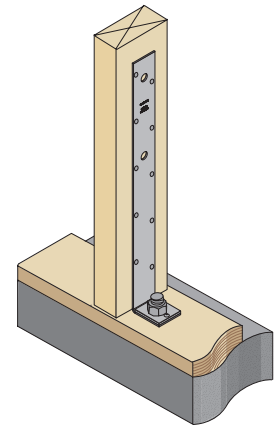
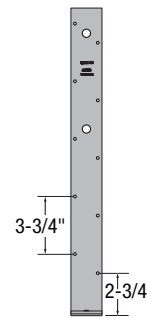
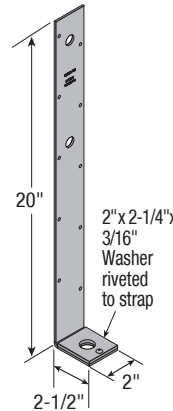


LTT7*

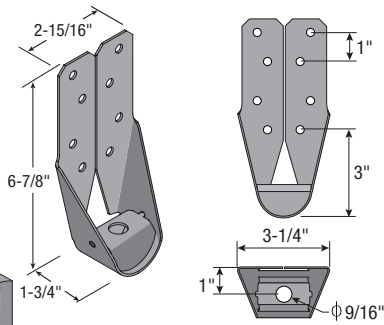
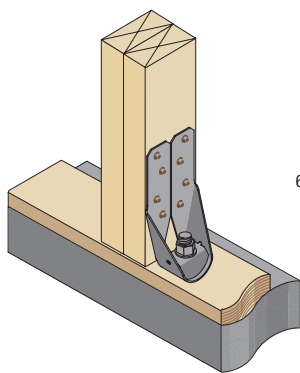


(Hanger not shown)

LTT20 as Tension Tie

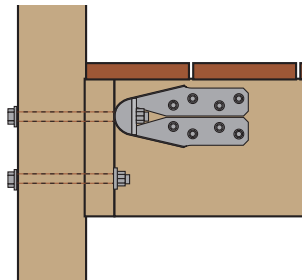


LTT20

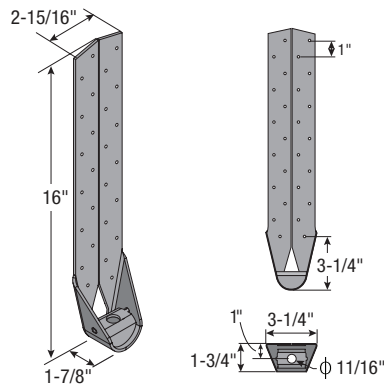
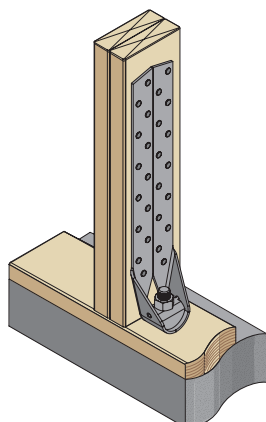
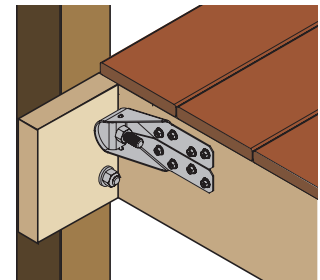


HDTT & HDTT3

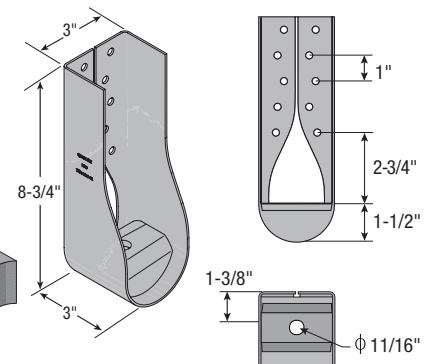
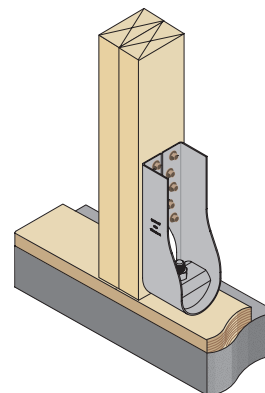
(Part includes bend washer and structural wood screws)



HDTT as Deck Tension Tie



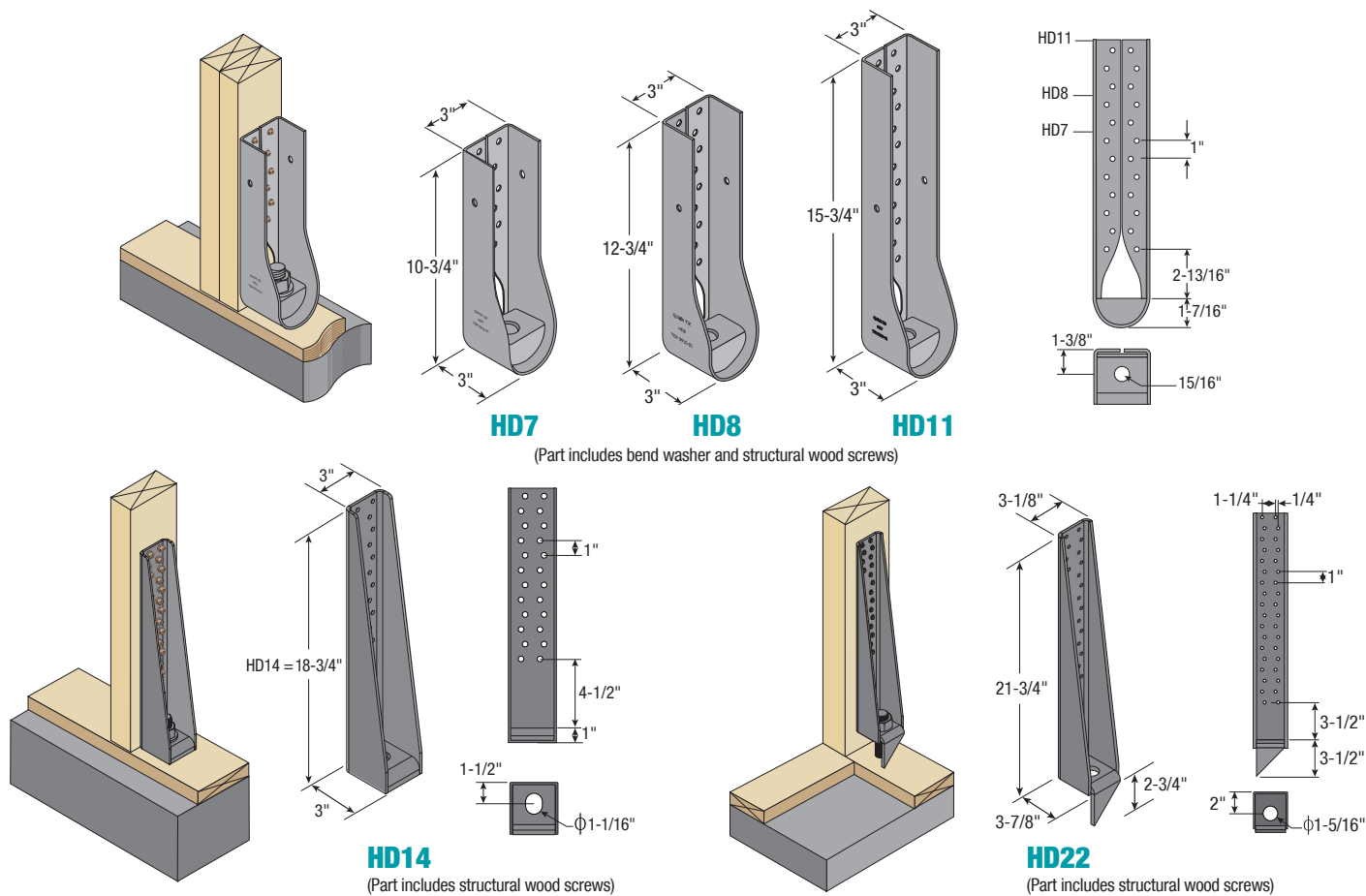
HDTT6



HD5

(Part includes bend washer and structural wood screws)

Holdowns



ALLOWABLE LOADS FOR HOLDOWNS (LB)

PART NO. ^{1,2}		QUICKTIE™ PART ATTRIBUTES																			
		STEEL THICK. ^{3,4} (GA)		DIMENSIONS (IN.)								FASTENERS ^{5,6}				ALLOWABLE LOAD VALUES					
												Nails / Screws / Bolts		Anchor Bolt		SP (SG = 0.55)		DF-L (SG = 0.50)		S-P-F (SG = 0.42)	
QuickTie™	Reference No. Simpson® Hardware (SH) MiTek® Hardware (MH)	Strap	Washer	Height H	Width W	Depth D	Stud Face to Anchor CL	Top of Bottom Plate to Top of Washer	Min. Wood Member Size ² (in.)	Qty	Type / Size	Qty	Size	C _D = 1.6		C _D = 1.6		C _D = 1.6			
														Uplift (lb)	Δ (in.)	Uplift (lb)	Δ (in.)	Uplift (lb)	Δ (in.)		
LTT7*	DTT1Z	ADTT-TZ	12 ga	7 ga	7	1-1/4	2	1	9/32	2x4	8	10dx1-1/2	1	5/8"	995	—	995	—	855	—	
LTT20	LTT20B	LTS20B	12 ga	7 ga	20	2	2-1/2	1-3/8	9/32	(2) 2x4	10	10dx1-1/2	1	3/4"	1,680	0.194	1,575	0.186	1,375	0.172	
HDTT	DTT2Z, DTT2Z-SDS2.5	DTB-TZ	14 ga	14 ga	6-7/8	3-1/4	1-3/4	1	1-1/8	2x4	8	SWH15	1	1/2"	2,300	0.190	2,055	0.149	1,525	0.088	
HDTT3	HDU2-SDS2.5, HD3B	PHD2A, TDX2-TZ	12 ga	10 ga	6-7/8	3-1/4	1-3/4	1	1-3/16	(2) 2x4	8	SWH3	1	1/2"	3,475	0.074	3,210	0.067	2,770	0.055	
HDTT6	HTT4, HTT5, HDUE3-SDS3	HTT45	10 ga	7 ga	16	3-1/4	1-7/8	1	1-1/4	(2) 2x4	26	16dx2-1/2	1	5/8"	5,480	0.145	5,480	0.145	4,895	0.129	
HD5	HDU4-SDS2.5	PHD4A	14 ga	3 ga	8-3/4	3	3	1-3/8	1-1/2	(2) 2x4	10	SWH3	1	5/8"	5,885	0.197	5,445	0.181	2,080	0.059	
HD7	HDU5-SDS2.5, HDUE5-SDS3	PHD5A	12 ga	3 ga	10-3/4	3	3	1-3/8	1-1/2	(2) 2x4	14	SWH3	1	7/8"	7,280	0.102	6,980	0.098	4,845	0.069	
HD8	HDU8-SDS2.5, HDUE7-SDS3	PHD8	12 ga	3 ga	12-3/4	3	3	1-3/8	1-1/2	(2) 2x6	18	SWH3	1	7/8"	8,390	0.065	7,755	0.059	6,325	0.043	
HD11	HDQ8-SDS3, HDU11-SDS2.5, HHQ11-SDS2.5, HDUE9-SDS3	UPHD8, UPHD9	12 ga	3 ga	15-3/4	3	3	1-3/8	1-1/2	(2) 2x4 4x6	24 24	SWH3	1	7/8"	11,855 12,755	0.118 0.139	11,080 12,755	0.112 0.139	8,305 8,310	0.088 0.085	
HD14	HHQ14-SDS2.5, HDUE13-SDS3	---	7 ga	3/8" Flat	18-3/4	3	3-1/2	1-1/2	1	4x6	30	SWH3	1	1"	14,120	0.095	14,060	0.095	11,170	0.075	
HD22	HD19, HDU14-SDS2.5, HDUE17-SDS3	TD15, UPHD11, UPHD14	7 ga	3/8" Point	24-1/2	3-1/8	3-7/8	2	3-1/2	6x6	36	SWH3	1	1-1/4"	22,245	0.087	20,115	0.078	19,205	0.068	

NOTES:

- Anchor bolt installation into any substrates should be designed to resist the allowable uplift loads.
- Holdowns shall be installed into the wide face of the wood member in order to achieve the tabulated allowable load values.
- Refer to page 73 for structural wood screw SWH3 (1/4" x 3") and SWH15 (1/4" x 1-1/2") details.
- Bend washer (3/8" flat) welded to bend strap around perimeter with 1" offset from the base.
- Bend washer (3/8" point) welded to bend strap around perimeter with 3-1/2" offset from the base.
- These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".