

THGB/THGBH/THGW Truss Girder Hangers

High capacity, welded hangers for multi-ply girder trusses. The THGB series offers optional installation with Simpson Strong-Tie® Strong-Drive® screws (SDS), and the bolted THGBH and THGW hangers offer higher design loads. For a lower cost alternative that uses SDS screws instead of bolts and offers high load capacities, see the THGQ/THGQH series.

MATERIAL: 3 gauge

FINISH: Simpson Strong-Tie® gray paint

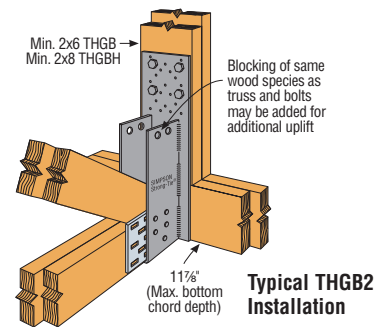
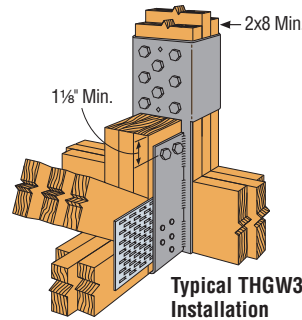
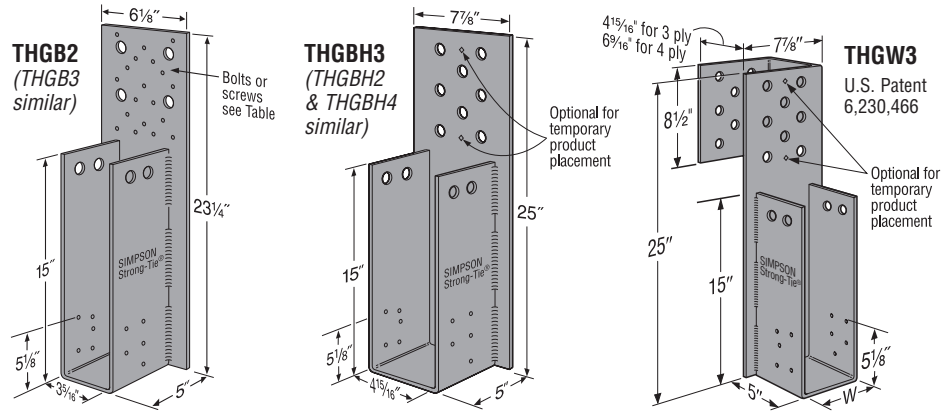
INSTALLATION:

- Use all specified fasteners. See General Notes.
- All multiple members must be fastened together to act as a single unit.
- Maximum 11 7/8" bottom chord in the carrying member to allow for the minimum bolt end distance.
- See page 20 for SDS screws.
- Bolts must be installed symmetrically when using less than 8 bolts on the 8-bolt backplate.
- Girders must be adequately laterally braced to prevent excessive displacement due to secondary torsional stresses (Ref ANSI/TPI 1-2007 Section 7.5.3.5).

OPTIONS: • Available in widths for 2-ply, 3-ply, and 4-ply LVL members; refer to flier F-THGBV (see page 191 for details).

- See Hanger Options, pages 181-183 for THGB/THGBH skew options.

CODES: See page 12 for Code Reference Key Chart.



Plated Truss Connectors

Model No.	Width (W)	Fasteners		Length of Bolt in Carrying Member	DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
		Carried Member	Carrying Member		Uplift ¹ (160)	Floor (100)	Snow (115)	Roof (125)	Wind Down (160)	Uplift ¹ (160)	Floor (100)	Snow (115)	Roof (125)	Wind Down (160)	
THGB2	3 5/16	10-10d & 2-3/4" MB	4-3/4" MB	3	7540	5655	6505	7070	7540	6400	4800	5520	6000	6400	F23
				4 1/2	8010	6235	7170	7795	8315	6650	5775	6640	7220	7235	
				6	8010	6235	7170	7795	8315	6650	5775	6640	7220	7235	
THGB2	3 5/16	10-10d & 2-3/4" MB	19-SDS 1/4"x3"	3	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
				4 1/2	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
				6	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
THGBH2	3 5/16	10-10d & 2-3/4" MB	8-3/4" MB	3	8010	10010	10010	10010	10010	6650	7745	7950	8090	8200	
				4 1/2	8010	10010	10010	10010	10010	6650	7745	7950	8090	8200	
				6	8010	10010	10010	10010	10010	6650	7745	7950	8090	8200	
THGB3	4 1/8	10-10d & 2-3/4" MB	4-3/4" MB	3	7540	5655	6505	7070	7540	6400	4800	5520	6000	6400	
				4 1/2	8010	6235	7170	7795	8315	6650	5775	6640	7220	7235	
				6	8010	6230	7165	7795	8315	6650	5775	6640	7220	7235	
THGB3	4 1/8	10-10d & 2-3/4" MB	19-SDS 1/4"x3"	3	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
				4 1/2	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
				6	8010	6385	7340	7980	8510	6650	4595	5285	5745	6125	
THGBH3	4 1/8	10-10d & 2-3/4" MB	8-3/4" MB	3	8010	10010	10010	10010	10010	6650	8310	8310	8310	8310	
				4 1/2	8010	12000	12000	12000	12000	6650	9960	9960	9960	9960	
				6	8010	12335	12335	12335	12335	6650	10240	10240	10240	10240	
THGBH4	6 9/16	10-10d & 2-3/4" MB	4-3/4" MB	3	7540	5655	6505	7070	7540	6400	4800	5520	6000	6400	
				4 1/2	8010	6235	7170	7795	8315	6650	5775	6640	7220	7235	
				6	8010	6235	7170	7795	8315	6650	5775	6640	7220	7235	
THGBH4	6 9/16	10-10d & 2-3/4" MB	6-3/4" MB	3	8010	8410	9565	9565	9565	6650	7135	7940	7940	7940	
				4 1/2	8010	9310	9565	9565	9565	6650	7940	7940	7940	7940	
				6	8010	9280	9565	9565	9565	6650	7940	7940	7940	7940	
THGBH4	6 9/16	10-10d & 2-3/4" MB	8-3/4" MB	3	8010	10010	10010	10010	10010	6650	8310	8310	8310	8310	
				4 1/2	8010	12425	14050	14050	14050	6650	11510	11660	11660	11660	
				6	8010	12425	14050	14050	14050	6650	11510	11660	11660	11660	
THGW3-3 ³	4 1/8	10-10d & 2-3/4" MB	8-3/4" MB	4 1/2	8010	21830	21830	21830	21830	6650	18120	18120	18120	18120	
6				8010	21830	21830	21830	21830	6650	18120	18120	18120	18120		
THGW4-3 ³	6 9/16	10-10d & 2-3/4" MB	8-3/4" MB	4 1/2	8010	24165	24165	24165	24165	6650	20055	20055	20055	20055	
6				8010	24165	24165	24165	24165	6650	20055	20055	20055	20055		

1. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern. A 2-ply minimum truss is required. When using 10-10d nails only for carried member, uplift is 1960 lbs. for Doug-Fir/So. Pine and 1625 lbs. for Spruce-Pine-Fir.
 2. Simpson Strong-Tie SDS 1/4"x3" screw must have a minimum 2-ply member.
 3. Loads for THGW models are based on end grain bearing.

4. Minimum fasteners 10-10d will achieve the down loads and the corresponding uplift (see footnote 1). To achieve maximum uplift, install nails and bolts listed in the table.
 5. Wind (160) is a download rating.
 6. To achieve published loads, machine bolts (MB) into the girder truss shall be installed with the nut on the opposite side of the hanger with a standard cut washer (except THGW's).
 7. **NAILS:** 10d = 0.148" dia. x 3" long. See page 16-17 for other nail sizes and information.