

**THGQ/THGQH** Truss Girder Hangers



This product is preferable to similar connectors because of  
a) easier installation, b) higher loads, c) lower installed cost,  
or a combination of these features.

A lower cost alternative to bolted hangers, the THGQ and THGQH hangers for multi-ply girder trusses use Simpson Strong-Tie® Strong-Drive® screws (SDS) to provide high load capacities and easier installation compared to bolts. The SDS screws help transfer the load between the plies of the supporting girder when they penetrate all plies.

THGQ and THGQH models offer minimum and optional maximum fastener quantities to accommodate varying design needs. Allowable loads for various girder web member sizes provide additional installation options.

**MATERIAL:** THGQ—7 gauge, THGQH—3 gauge

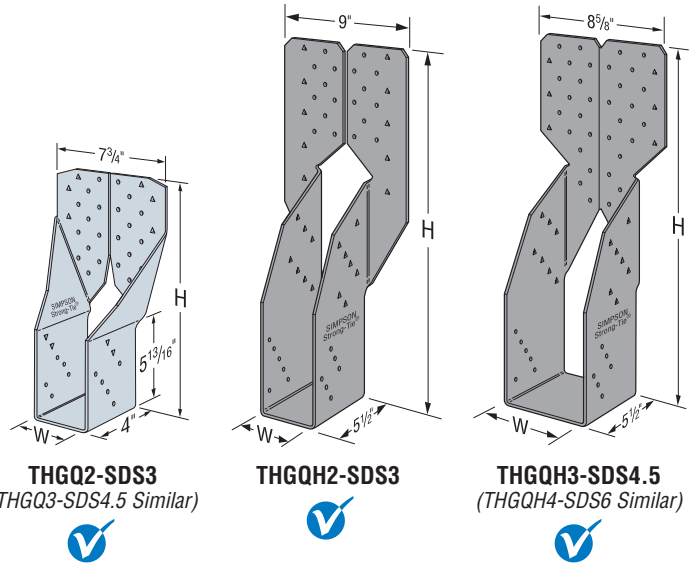
**FINISH:** THGQ—Galvanized, THGQH—Simpson Strong-Tie® gray paint

**INSTALLATION:** • Use all specified fasteners. See General Notes.

- Can be installed filling round holes only, or filling round and triangle holes for maximum values.
- SDS screws supplied for all round and triangle holes. Installation may not require use of all SDS screws.
- All multiple members must be fastened together to act as a single unit.
- The thickness of the supporting girder must be equal to or greater than the screw length. For applications where the length of the supplied screws exceeds the thickness of the supporting girder, 3" or 4½" screws may be substituted for the longer length screws with no load reduction, or a shim block may be used as approved by the Designer.
- 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:** THGQH hangers may be skewed 45 degrees, see Hanger Options on pages 181-183.

**CODES:** See page 12 for Code Reference Key Chart.



Model No.	Dim. (in.)		Max. B.C. Depth	Min. Vert. Web Size	SDS Fasteners		DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
	W	H			Face	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind Down (160)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind Down (160)	
THGQ2-SDS3 (Min)	3½"	16"	2x8	2x6 (22) ¼"x3"	(10) ¼"x3"	3600	7920	7920	7920	7920	2590	5700	5700	5700	5700		
THGQ2-SDS3 (Max)	3½"	16"	2x8	2x8 (28) ¼"x3"		3600	10080	10080	10080	10080	2590	7260	7260	7260	7260		
THGQH2-SDS3 (Min)	3½"	25"	2x10	2x6 (18) ¼"x3"	(12) ¼"x3"	3875	7560	8275	8275	8275	2790	5445	5960	5960	5960		
THGQH2-SDS3 (Max)	3½"	25"	2x10	2x8 (28) ¼"x3"		3875	11760	11950	11950	11950	2790	8465	8605	8605	8605		
THGQH3-SDS4.5 (Min)	4½"	16"	2x8	2x6 (22) ¼"x4½"	(10) ¼"x4½"	3600	7920	7920	7920	7920	2590	5700	5700	5700	5700		
THGQH3-SDS4.5 (Max)	4½"	16"	2x8	2x8 (28) ¼"x4½"		3600	10080	10080	10080	10080	2590	7260	7260	7260	7260		
THGQH4-SDS6 (Min)	6½"	25"	2x12	2x8 (34) ¼"x6"	(12) ¼"x6"	3875	13875	13875	13875	13875	2790	9990	9990	9990	9990		
THGQH4-SDS6 (Max)	6½"	25"	2x12	2x10 (40) ¼"x6"		3875	16320	16320	16320	16320	2790	11750	11750	11750	11750		

1. Allowable uplift loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. Connector must be installed centered on girder vertical webs.
3. Simpson Strong-Tie Strong-Drive screws are permitted to be installed through metal truss plates as approved by the Truss Designer, provided the requirements of ANSI/TPI 1-2007 Section 8.9.2 are met (pre-drilling required through the plate using a maximum of ⅜" bit).
4. SDS screws that penetrate all plies of the supporting girder (screws must penetrate a minimum of 1" into the last truss ply) may also be used to

transfer the load through all the plies of the supporting girder. When SDS screws do not penetrate all plies of the supporting girder truss, supplemental SDS screws at the hanger locations may be required to transfer the load to the truss plies not penetrated by the face fasteners, as determined by the Designer.

5. The supporting girder truss must have adequate thickness to accommodate the screw length, so that the screw does not protrude out the back of the girder. 3" or 4½" long SDS screws may be substituted for the longer SDS screws with no load reduction.
6. For installations to LSL, use SDS ¼"x3" and use the DF/SP table loads.

