

Girder Truss Hanger

THDHQ series



The THDHQ hangers are designed to attach multi-ply girder trusses together using USP's WS Wood Screws for higher design load capacity. THDHQ hangers can also be used to attach structural composite lumber (SCL).

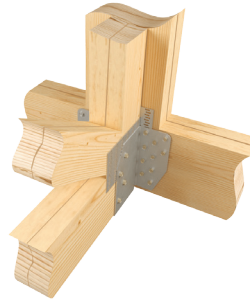
Features:

- High capacity hangers installed with fewer fasteners than comparable nailed hangers
- Easy to install wood screws (included)
- Faster installations
- Lower installation cost

Materials: 12 gauge
Finish: G90 galvanizing

Installation:

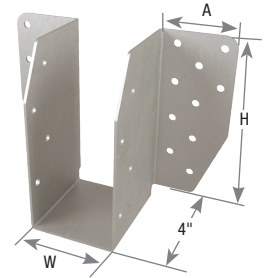
- Use all specified fasteners.
- WS Wood Screws are supplied with THDHQ hangers.
- See table footnotes.



Typical THDHQ28-2 truss installation



Typical THDHQ28-2 SCL installation



THDHQ28-2

Supported Member	USP Stock No.	Ref. No.	Dimensions (in)			Fastener Schedule ^{2,7}				Unit	DF Factored Resistance		S-P-F Factored Resistance		Ctn Qty
			W	H	A	Supporting Member ^{3,4,5}		Supported Member			Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	
						Qty	Type	Qty	Type						
Double 2x Sizes															
(2) 2 x 6 - 8	THDHQ26-2	HGUQ26-2-SDS3	3-5/16	5-7/16	1-15/16	12	WS3	4	WS3	Lbs	8130	3545	6380	2845	10
										kN	36.16	15.77	28.38	12.66	
(2) 2 x 8 - 10	THDHQ28-2	HGUQ28-2-SDS3	3-5/16	7-3/16	2-13/16	20	WS3	8	WS3	Lbs	14660	6290	11510	5240	8
										kN	65.21	27.98	51.20	23.31	
(2) 2 x 10 - 12	THDHQ210-2	HGUQ210-2-SDS3	3-5/16	9-3/16	2-13/16	28	WS3	8	WS3	Lbs	16195	9695	12715	8075	6
										kN	72.04	43.13	56.56	35.92	
Triple 2x Sizes															
(3) 2 x 6 - 8	THDHQ26-3	HGUQ26-3-SDS4.5	4-15/16	5-7/16	1-15/16	12	WS45	4	WS45	Lbs	8130	3545	6380	2845	10
										kN	36.16	15.77	28.38	12.66	
(3) 2 x 8 - 10	THDHQ28-3	HGUQ28-3-SDS4.5	4-15/16	7-3/16	2-13/16	20	WS45	8	WS45	Lbs	14660	6290	11510	5240	8
										kN	65.21	27.98	51.20	23.31	
(3) 2 x 10 - 12	THDHQ210-3	HGUQ210-3-SDS4.5	4-15/16	9-3/16	2-13/16	28	WS45	8	WS45	Lbs	16195	9695	12715	8075	6
										kN	72.04	43.13	56.56	35.92	
Quadruple 2x Sizes															
(4) 2 x 6 - 8	THDHQ26-4	HGUQ26-4-SDS6	6-9/16	5-7/16	1-15/16	12	WS6	4	WS6	Lbs	8130	4565	6380	3585	10
										kN	36.16	20.31	28.38	15.95	
(4) 2 x 8 - 10	THDHQ28-4	HGUQ28-4-SDS6	6-9/16	7-3/16	2-13/16	20	WS6	8	WS6	Lbs	14660	8335	11510	6945	8
										kN	65.21	37.08	51.20	30.89	
(4) 2 x 10 - 12	THDHQ210-4	HGUQ210-4-SDS6	6-9/16	9-3/16	2-13/16	28	WS6	8	WS6	Lbs	16195	7695	12715	6410	6
										kN	72.04	34.23	56.56	28.51	
4x Sizes															
4 x 6 - 8	THDHQ46	HGUQ46-SDS3	3-5/8	5-7/16	1-15/16	12	WS3	8	WS3	Lbs	8130	3545	6380	2845	10
										kN	36.16	15.77	28.38	12.66	
4 x 8 - 10	THDHQ48	HGUQ48-SDS3	3-5/8	7-3/16	2-13/16	20	WS3	8	WS3	Lbs	14660	6290	11510	5240	8
										kN	65.21	27.98	51.20	23.31	
4 x 10 - 12	THDHQ410	HGUQ410-SDS3	3-5/8	9-3/16	2-13/16	28	WS3	8	WS3	Lbs	16195	9695	12715	8075	6
										kN	72.04	43.13	56.56	35.92	

1) Factored uplift resistances have been increased 15% for short-term loads such as wind and earthquake; no further increase allowed.

2) WS3 is 1/4" x 3" long wood screw, WS45 is 1/4" x 4-1/2" long wood screw, WS6 is 1/4" x 6" long wood screw and are included with THDHQ hangers.

3) WS Wood Screw length into supporting member is based on supporting member width being equal to supported member width. See notes 4 and 5 for fastening information.

4) WS Wood Screws shall penetrate properly into all plies of the supporting member and as a minimum, penetration into the last ply of the supporting member shall be at least one inch. Additional WS screws (not supplied) can be installed to the back side of the outer ply, designed by others, when the aforementioned penetration requirement is not met.

5) For construction safety concern, if the supplied WS Wood Screws protrude past the last ply of the supporting member, shorter length WS screws can be used; ex. WS3 screws may be substituted for WS45 screws and WS45 screws may be substituted for WS6 screws, with no load reduction. Alternately, a backer block member may be used as determined by the designer.

6) Cross-grain tension may limit factored resistances per CSA 086-14 Section 12.2.1.4. For assistance, contact USP Structural Connectors.

7) WS Wood Screws may be installed through metal truss connector plates as approved by the Truss Designer, provided the requirements of CSA 086-14 Section 5.3.8 and TPIC-2014 Section 7.5 are met. (Pre-drilling required through the plate using a maximum of 5/32" bit).

8) For hanger installations supported by LSL, of specific gravity no less than 0.50, use the DF factored resistances.

New products or updated product information are designated in **blue font**.