

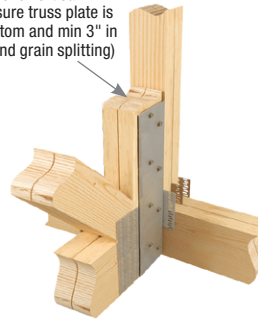
The GTWS series girder-to-girder hangers feature high uplift capacities along with high gravity load ratings.

Materials: 10 gauge
Finish: G90 galvanizing
Codes: FL

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- MiTek's WS structural wood screws are included with hangers where specified.
- **GTWS2T** shall be installed to a minimum 2x4 vertical member of a girder truss with no restriction on the size of the bottom chord.
- **GTWS3T** shall be installed to a minimum 2x6 vertical member of a girder truss with no restriction on the size of the bottom chord.
- **GTWS4T** shall be installed to a minimum 2x8 vertical member of a girder truss with no restriction on the size of the bottom chord.

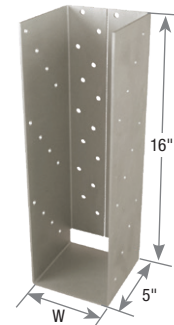
Supported truss end vertical min 2x6 required. Ensure truss plate is installed flush bottom and min 3" in height (to resist end grain splitting)



Typical GTWS installation



GTWS2T



GTWS3T

MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)			Fastener Schedule ^{2,3,4}				No. of Plies	DF/SP Allowable Loads (Lbs.)				Code Ref.
						Supporting Truss		Supported Truss			100%	115%	125%	Uplift ¹	
			W	H	D	Qty	Type	Qty	Type						
GTWS2T	--	10	3-1/4	16	4	22	WS3	16	WS3	2	8720	10030	10900	9770	FL
GTWS3T	--	10	4-7/8	16	5	28	WS3	24	WS3	3	11100	12470	12470	12490	
GTWS4T	--	10	6-1/2	16	5	28	WS3	24	WS3	4	11100	12470	12470	12490	

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) MiTek's WS3 structural wood screws require a minimum 3" wood penetration.
- 3) MiTek's WS3 (1/4" dia. x 3" long) structural wood screws are included with the GTWS hangers.
- 4) MiTek's WS3 structural wood screws may be installed in both vertical and horizontal members.

The GT primarily hangs girder trusses off other girder trusses, although a wide variety of other heavy-duty installations apply.

Materials: Back Plate – 3 gauge; Strap – 7 gauge

Finish: Primer

Options: All models available in LVL sizes, use M in place of T, as in GT2M4B

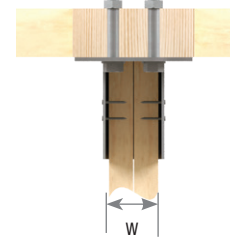
Codes: See chart for code references

Installation:

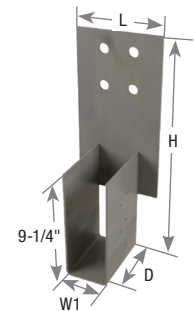
- Use all specified fasteners. See Product Notes, page 18.
- Minimum heel height is 9-1/4" for GT hangers.



Typical GT2T4B installation



GT top view



GT2T4B

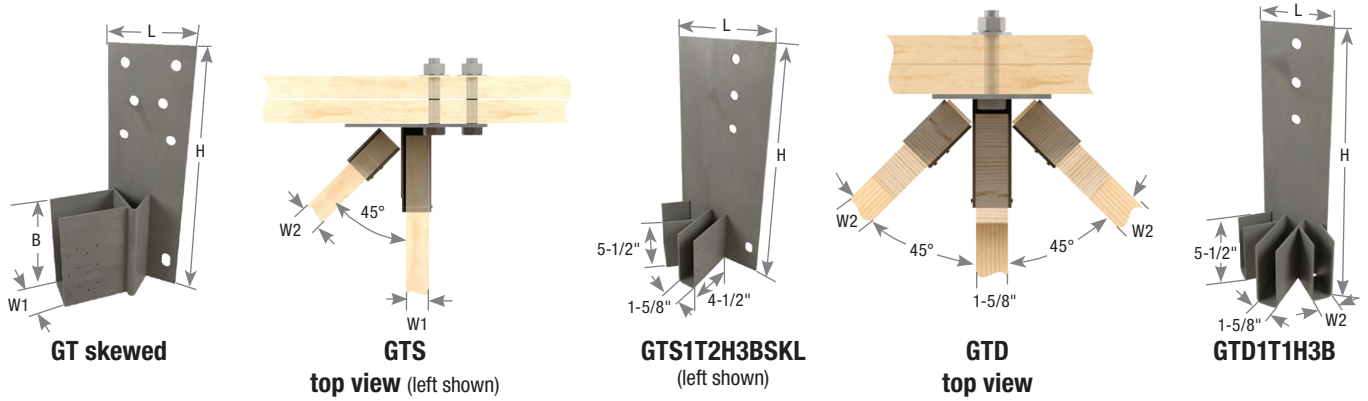
Supported Member	MiTek USP Stock No.	Ref. No.	Dimensions (in)				Fastener Schedule ^{1,2,3}				No of Plies	DF/SP Allowable Loads (Lbs.)			S-P-F Allowable Loads (Lbs.)			Code Ref.
			W1	L	H	D	Supporting Truss		Supported Truss			Supporting Member			Supporting Member			
							Qty	Bolt Dia (in)	Qty	Type		100%	115%	Uplift 160%	100%	115%	Uplift 160%	
			2-ply	GT2T2B	--	3-7/16	6	19	4-1/2	2		3/4	12	16d	2	2950	3390	
										≥ 3	3340	3840	3085	3475				
GT2T2BH	--	3-7/16		6	22-1/4	4-1/2	2	1	12	16d	2	3920	4510	2705	3330	3830	2270	
										≥ 3	5550	5550	4660		4660			
GT2T3B	--	3-7/16		6	22	4-1/2	3	3/4	12	16d	2	4370	5025	2705	3710	4265	2270	
										≥ 3	4985	5730	4590		5220			
GT2T4B	THGB2	3-7/16		7	19	5-1/2	4	3/4	12	16d	2	5905	6790	2705	5040	5795	2270	
									≥ 3	6680	7680	6175	7100					
GT2T6B	--	3-7/16	7-1/4	22	6	6	3/4	12	16d	2	8860	10190	2705	7560	8695	2270		
									≥ 3	10020	11520	9260		9940				
GT2T6BH	--	3-7/16	7-1/4	26-1/4	6	6	1	12	16d	2	11795	13565	2705	9640	9940	2270		
									≥ 3	13580	13925	9640		9940				
GT2T8B	THGBH2	3-7/16	7-1/4	25	6	8	3/4	12	16d	2	11815	13585	2705	9640	9940	2270		
									≥ 3	13355	13925	9640		9940				
3-ply	GT3T3B	--	5-1/8	6	22	4-1/2	3	3/4	12	16d	2	4370	5025	2705	3710	4265	2270	
										≥ 3	4985	5730	4590		5275			
	GT3T3BH	--	5-1/8	6	26-1/4	4-1/2	3	1	12	16d	2	5740	6605	2705	4830	5555	2270	
										≥ 3	8490	8790	7160		7385			
	GT3T4B	THGB3	5-1/8	7	19	5-1/2	4	3/4	12	16d	2	5905	6790	2705	5040	5795	2270	
										≥ 3	6680	7680	6175		7100			
	GT3T4BH	--	5-1/8	7	22-1/4	5-1/2	4	1	12	16d	2	7865	9045	2705	6685	7690	2270	
										≥ 3	11435	13150	9720		11180			
GT3T6B	--	5-1/8	7-1/4	22	6	6	3/4	12	16d	2	8860	10190	2705	7560	8695	2270		
									≥ 3	10020	11520	9260		10650				
GT3T6BH	--	5-1/8	7-1/4	26-1/4	6	6	1	12	16d	2	11795	13565	2705	10030	11535	2270		
									≥ 3	14860	14860	13075		13075				
GT3T8B	THGBH3	5-1/8	7-1/4	25	6	8	3/4	12	16d	2	11815	13585	2705	10080	11590	2270		
									≥ 3	13355	15360	12350		13090				
GT3T8BH	--	5-1/8	7-1/4	30-1/4	6	8	1	12	16d	2	15725	18085	2705	13370	13765	2270		
									≥ 3	19205	19465	13465		13765				

IBC, FL, LA

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1) Bolts shall conform to ASTM A 307 Grade A or better.
 2) GT series require 2 x 6 vertical member for 2-, 3-, and 4-bolt hangers and 2 x 8 for 6 and 8-bolt hangers.
 3) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.
 New products or updated product information are designated in blue font.

Continued on next page



Supported Member	MiTek USP Stock No. ^{4,5}	Ref. No.	Dimensions (in)					Fastener Schedule ^{2,3,6}						No. of Plies	DF/SP Allowable Loads (Lbs.)			S-P-F Allowable Loads (Lbs.)			Code Ref.	
			W1	W2	L	H	B	Supporting Truss		Supported Truss		Supported Hip			Supporting Member			Supporting Member				
								Qty	Bolt Dia.	Qty	Type	Qty	Type		100%	115%	Uplift 160%	100%	115%	Uplift 160%		
																100%	115%	Uplift 160%	100%	115%		Uplift 160%
4-ply	GT4T4B	--	6-1/2	--	7-1/2	19	5-1/2	4	3/4	12	16d	--	--	2	5905	6790	2705	5040	5795	2270	IBC, FL, LA	
														≥3	6680	7680		6175	7100			
	GT4T4BH	--	6-1/2	--	7-1/2	22-1/4	5-1/2	4	1	12	16d	--	--	2	7860	9040	2705	6685	7685	2270		
															≥3	11440	11555		9720	10100		
	GT4T6B	--	6-1/2	--	7-1/2	22	6	6	3/4	12	16d	--	--	2	8860	10185	2705	7560	8690	2270		
														≥3	10020	11525		9260	10650			
	GT4T6BH	--	6-1/2	--	7-1/2	26-1/4	6	6	1	12	16d	--	--	2	11790	13560	2705	10025	11530	2270		
														≥3	14860	14860		13075	13075			
	GT4T8B	THGBH4	6-1/2	--	7-1/2	25	6	8	3/4	12	16d	--	--	2	11810	13580	2705	10080	11590	2270		
														≥3	13360	15365		12345	13090			
5-ply	GT5T8BH	--	8-1/8	--	9-1/4	30-1/4	6	8	1	12	16d	--	--	2	15690	18045	2705	13340	15345	2270		
														≥3	19465	19465		16350	16350			
2-ply skewed 45°	GT2T2BSKL/R	--	3-7/16	--	6	19	9-1/4	3	3/4	12	16d	--	--	2	2920	3355	2000	2555	2715	1600		
														≥3	3295	3785		3075	3075			
	GT2T4BSKL/R	--	3-7/16	--	7-1/4	19	9-1/4	5	3/4	12	16d	--	--	2	5835	6710	2000	5110	5875	1600		
														≥3	6585	7575		6220	6675			
1-ply hip & jack	GTS1T1H3BSKL/R	--	1-5/8	1-5/8	9-1/4	22	5-1/2	4	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	4215	4850	--	3690	4005	--		
														≥3	4755	5470		4495	4570	--		
	GTS1T1H4BSKL/R	--	1-5/8	1-5/8	9-1/4	19	5-1/2	5	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	5830	6705	--	5105	5760	--		
														≥3	6580	7565		5590	5760	--		
2-ply hip & 1-ply jack	GTS1T2H3BSKL/R	--	1-5/8	3-4/9	9-1/4	22	5-1/2	4	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	4215	4850	--	3690	3985	--		
														≥3	4755	5470		4495	4545	--		
1-ply terminal hip	GTD1T1H2B	--	1-5/8	1-5/8	6	19	5-1/2	2	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	2920	3360	--	2555	2940	--		
														≥3	3295	3790		3115	3295	--		
1-ply terminal hip	GTD1T1H3B	--	1-5/8	1-5/8	6	22	5-1/2	3	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	4240	4875	--	3710	3990	--		
														≥3	4785	5500		4520	4550	--		
2-ply terminal hip	GTD1T2H3B	--	1-5/8	3-7/16	8	22	5-1/2	3	3/4	4	10d x 1-1/2	4	10d x 1-1/2	2	4225	4855	--	3695	3975	--		
														≥3	4765	5480		4500	4535	--		

1) The listed loads for GTS and GTD is the total of hip and jack connection.
 2) Bolts shall conform to ASTM A 307 or better.
 3) GT Series require 2 x 6 vertical member for 2, 3, and 4 bolt hangers and 2 x 8 for 6 and 8 bolt hangers.
 4) All side pocket applications assume 45° angle.
 5) Must specify right or left for all GTS and GT skewed.
 6) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.
 New products or updated product information are designated in **blue font**.

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Plated Truss

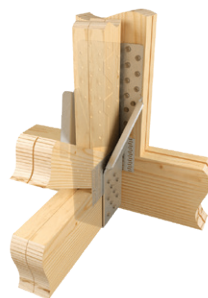
The GTQ / GTQM hangers connect to multi-ply girder truss with MiTek's WS structural wood screws offering high load capacities. Design features minimum and maximum fastening installation options to accommodate various sizes of vertical web. GTQM's are designed for LVL sizes, for example GTQM218.

Materials: 7 gauge

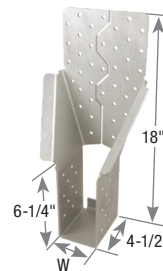
Finish: G90 galvanizing

Installation:

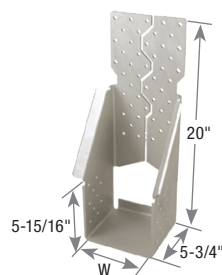
- Install all MiTek's WS structural wood screws as specified.
- Install hanger centered on vertical web.
- GTQ's are designed to be installed on various sizes of vertical web. Maintain a minimum 5/8" fastener edge distance as per the National Design Specification where truss connector plates are not present.
- Install MiTek's WS structural wood screws in all fastener holes including diamond holes for maximum values.
- Refer to Backer Block installation on page 287 if the length of the screws going into the supporting truss are longer than the thickness of the plies.



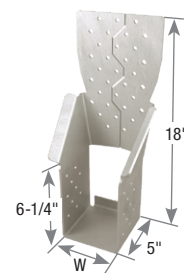
Typical GTQ218 installation
(GTQM218 similar)



GTQ218
(GTQM218 similar)



GTQ420
(GTQM420 similar)



GTQ318
(GTQM318 similar)

MiTek USP Stock No.	Ref. No.	W (in)	Install Type	Min Vert Web Size	Fastener Schedule ^{1,3}						DF/SP Allowable Loads (Lbs.)					S-P-F Allowable Loads (Lbs.)					Code Ref.
					Supporting Truss ^{4,5}			Supported Truss			Floor		Roof			Floor		Roof			
					Qty	Type ⁵	Min. No. of Plies	Qty ⁶	Type	No. of Plies	100%	115%	125%	160%	160%	100%	115%	125%	160%	160%	
GTQ218	THGQ2-SDS3, THGQH2-SDS3	3-1/4	Min	2x6	18	WS3	2	20	WS3	2	6965	7900	7900	7900	4595	6225	6605	6605	6605	3845	
			Max	2x8	30						11610	13160	13160	13160	4595	10375	11005	11005	11005	3845	
GTQM218 ⁷	THGQ3.62-SDS3, THGQH3.62-SDS3	3-5/8	Min	2x6	18	WS3	2	20	WS3	2	6965	7900	7900	7900	4595	6225	6605	6605	6605	3845	
			Max	2x8	30						11610	13160	13160	13160	4595	10375	11005	11005	11005	3845	
GTQ318	THGQ3-SDS4.5, THGQH3-SDS4.5	4-7/8	Min	2x6	25	WS45	2	20	WS45	3	11480	11480	11480	11480	4595	10240	10240	10240	10240	3810	
			Max	2x8	33						14665	14665	14665	14665	4760	14500	14500	14500	14500	3945	
GTQM318 ⁷	THGQ5.50-SDS4.5, THGQH5.50-SDS4.5	5-1/2	Min	2x6	25	WS45	2	20	WS45	3	11480	11480	11480	11480	4595	10240	10240	10240	10240	3810	
			Max	2x8	33						14665	14665	14665	14665	4760	14500	14500	14500	14500	3945	
GTQ420	THGQH4-SDS6	6-1/2	Min	2x8	41	WS6	3	20	WS6	4	14435	14435	14435	14435	4690	14435	14435	14435	14435	3745	
			Max	2x10	47						17600	17600	17600	17600	4690	15795	15795	15795	15795	3745	
GTQM420 ⁷	THGQH7.25-SDS6	7-1/4	Min	2x8	41	WS6	3	20	WS6	4	14435	14435	14435	14435	4690	14435	14435	14435	14435	3745	
			Max	2x10	47						17600	17600	17600	17600	4690	15795	15795	15795	15795	3745	

- 1) MiTek's WS3 (1/4" dia. x 3" long), WS45 (1/4" dia. X 4-1/2" long, and WS6 (1/4" dia. x 6" long) structural wood screws are included with GTQ and GTQM hangers.
- 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 3) MiTek's WS structural wood screws may be installed through metal truss connector plates as approved by truss designer per ANSI/TPI 1-2014 Section 7.5.3.4 and 8.9.2. Pre-drilling required through the plate using a maximum of 5/32" bit.
- 4) Truss plies of the supporting member must be fastened together to transfer the load (through all truss plies) that is not transferred by the hanger screws; fastening schedule is to be specified by the truss designer.
- 5) If the length of the screws going into the supporting truss are longer than the thickness of the plies, refer to the backer block installation on page 287.
- 6) MiTek's WS structural wood screws specified for supported member must ALL be installed into the supported member while maintaining a minimum 5/8" edge distance where truss connector plates are not present.
- 7) Supported members on GTQM hangers shall have Specific Gravity of not less than 0.46.
- 8) Wind (160%) is a download value.

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