

# GTQ / GTQM Girder Truss Hangers

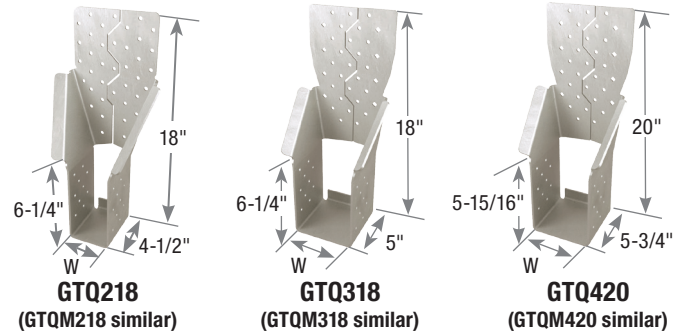


## Installation:

- Use all WS wood screws as specified.
- GTQ's are designed to be installed on various sizes of vertical web. Install hanger centered on vertical web.
- Maintain a minimum 5/8" fastener edge distance where truss connector plates are not present.

**Materials:** 7 gauge

**Finish:** G90 galvanizing



**Typical GTQ218 installation**  
(GTQM218 similar)

Min. (2) 2x required  
Use WS3 for (2) 2x  
Use WS45 for (3) 2x  
Use WS6 for (4) 2x



**Typical GTQ318 installation**  
(GTQM318 similar)

Min. (2) 2x required  
Use WS3 for (2) 2x  
Use WS45 for (3) 2x  
Use WS6 for (4) 2x



**Typical GTQ420 installation**  
(GTQM420 similar)

Min. (3) 2x required  
Use WS45 for (3) 2x  
Use WS6 for (4) 2x

USP Stock No.	W (in)	Install Type	Min. Vert. Web Size	Fastener Schedule					Unit	DF Factored Resistance		S-P-F Factored Resistance	
				Supporting Truss			Supported Member			Vertical 100%	Uplift <sup>1</sup> 115%	Vertical 100%	Uplift <sup>1</sup> 115%
				Qty	Wood Screws <sup>2,3,4</sup>	Min. # of Plies	Qty	Wood Screws <sup>2,4</sup>					
GTQ218	3-1/4	Min	2x6	18	USP WS (See Footnote 3)	2	20	WS3	Lbs	11760	7870	10490	7020
		Max	2x8	30					kN	52.31	35.01	46.66	31.23
GTQM218	3-5/8	Min	2x6	18	USP WS (See Footnote 3)	2	20	WS3	Lbs	11760	7870	10490	7020
		Max	2x8	30					kN	52.31	35.01	46.66	31.23
GTQ318	4-7/8	Min	2x6	25	USP WS (See Footnote 3)	2	20	WS45	Lbs	16665	7870	13515	7020
		Max	2x8	33					kN	74.13	35.01	60.12	31.23
GTQM318	5-1/2	Min	2x6	25	USP WS (See Footnote 3)	2	20	WS45	Lbs	21250	8150	17230	7270
		Max	2x8	33					kN	94.52	36.25	76.64	32.34
GTQ420	6-1/2	Min	2x8	41	USP WS (See Footnote 3)	3	20	WS6	Lbs	20960	8050	16455	6935
		Max	2x10	47					kN	93.23	35.81	73.20	30.85
GTQM420	7-1/4	Min	2x8	41	USP WS (See Footnote 3)	3	20	WS6	Lbs	24025	8050	20440	6935
		Max	2x10	47					kN	106.87	35.81	90.92	30.85

- 1) Factored 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 GTQ and GTQM hangers.
  - 3) When fastening to a multi-ply supporting truss: use WS3 for 2-ply, WS45 for 3-ply and WS6 for 4-ply.
  - 4) WS Wood Screws may be installed through metal truss connector plates as approved by the Truss Designer, provided the requirements of CSA 086-14 Subsection 5.3.8 and TPIC-2014 Section 7.5 are met. (Pre-drilling required through the plate using a maximum 5/32" bit).
  - 5) 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.
  - 6) The span of the supported member shall be shortened by 1/2" at the hanger end to allow space for screw head and back plate (7 ga).
- New products or updated product information are designated in **blue font**.

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.

PEO  
Certificate No. 10889485



Nov. 30, 2016



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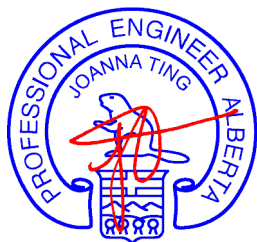
Valid through Dec. 31, 2018

USP2320-GTQ/GTQM  
Revised November 2016  
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# GTQ / GTQM Girder Truss Hangers

APEGA  
Permit No. P3837



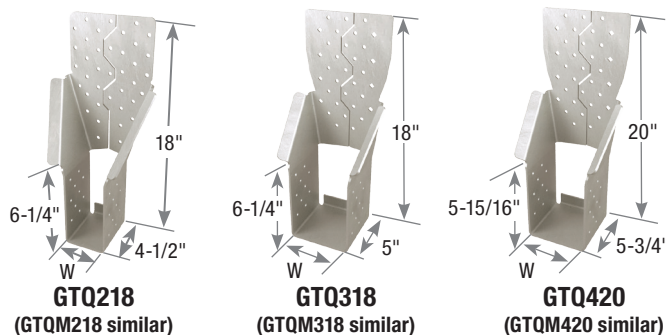
Nov. 30, 2016

## Installation:

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**Materials:** 7 gauge

**Finish:** G90 galvanizing



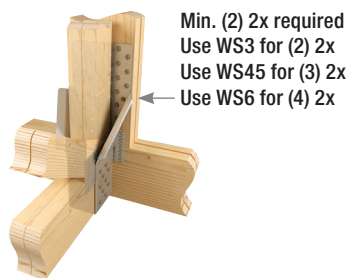
**GTQ218**  
(GTQM218 similar)

**GTQ318**  
(GTQM318 similar)

**GTQ420**  
(GTQM420 similar)



Nov. 30, 2016



**Typical GTQ218 installation**  
(GTQM218 similar)

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(GTQM318 similar)

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**Typical GTQ420 installation**  
(GTQM420 similar)

Min. (3) 2x required  
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USP Stock No.	W (in)	Install Type	Min. Vert. Web Size	Fastener Schedule				Unit	DF Factored Resistance		S-P-F Factored Resistance		
				Supporting Truss		Supported Member			Vertical 100%	Uplift <sup>1</sup> 115%	Vertical 100%	Uplift <sup>1</sup> 115%	
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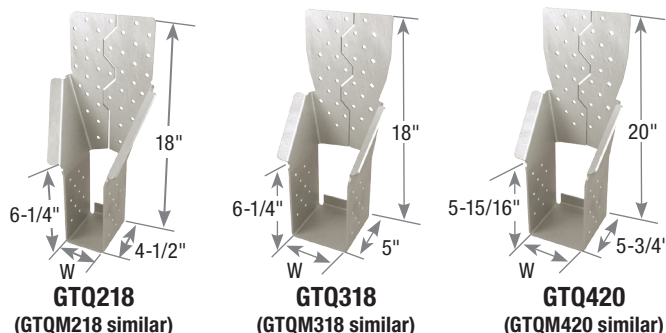
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Certificate No. F0649

LICENCED PROFESSIONAL ENGINEER  
Province of New Brunswick

L4921 2016

Joanna Ting

Signature

Nov. 30, 2016

Date

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Province du Nouveau-Brunswick

APENS  
Permit No. 15800 0

REGISTERED PROFESSIONAL ENGINEER

DATE

Signature

W. Y. Ting

9823

PROVINCE OF NOVA SCOTIA

Nov. 30, 2016

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Permit No. D0027

REGISTERED PROFESSIONAL ENGINEER

Newfoundland and Labrador  
PROFESSIONAL ENGINEERS AND GEOSCIENTISTS

JOANNA W. Y. TING

SIGNATURE

Nov 30, 2016

DATE

NEWFOUNDLAND & LABRADOR

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Permit No. A195

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND  
VALID FOR THE YEAR 2016

Signature

J. W. Y. Ting

No. 1246

DATE: Nov. 30, 2016

LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF PRINCE EDWARD ISLAND



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