



KTS / LTW / MTW / HTW Twist Straps

Twist straps tie framing members to resist tension forces.

Materials: LTW- 18 gauge; MTW / KTS- 16 gauge; HTW- 14 gauge

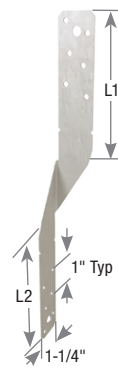
Finish: G90 galvanizing

Options: See current catalogue for options.

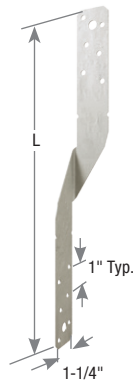
Codes: Factored resistances are derived from data submitted to various North American building code evaluators and are in accordance with CSA 086-14.

Installation:

- Use all specified fasteners.
- Fasteners shall be distributed equally on each end of the connection.
- Consult I-Joist manufacturer for web stiffener requirements, and uplift limitations on joist and application.



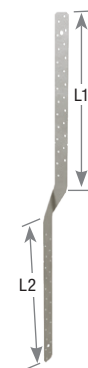
**LTW12/
MTW12**



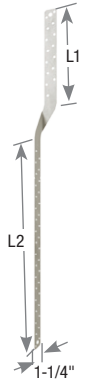
**LTW18/ MTW18
other models similar**



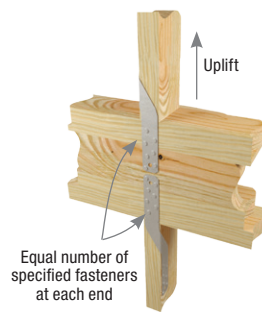
KTS



MTW30C



**MTW30/
HTW30**



**Typical LTW12/ MTW12
Stud-to-rim joist
installation**



**Typical LTW12/ MTW12
Truss-to-top plate
installation**



**Typical MTW20
I-joist Rafter
installation**



**Typical MTW30
I-joist Rafter
installation**

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

Valid through Dec. 31, 2019

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MiTek Stock No. ⁴	Steel Gauge	Dimensions (in)				Fastener Schedule ^{2,3,5}		DF Factored Resistance		S-P-F Factored Resistance	
		W	L	L1	L2	Qty	Type	Uplift 115% ¹		Uplift 115% ¹	
								Lbs	kN	Lbs	kN
LTW12	18	1-1/4	12	4-1/2	4-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW16	18	1-1/4	16	6-1/2	6-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW18	18	1-1/4	18	7-1/2	7-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW20	18	1-1/4	20	8-1/2	8-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
KTS9	16	1-1/4	9	--	--	8	16d	915	4.07	785	4.07
KTS12	16	1-1/4	11-1/2	--	--	10	16d	1145	5.09	985	5.09
MTW12	16	1-1/4	12	4-1/2	4-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW16	16	1-1/4	16	6-1/2	6-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
KTS17	16	1-1/4	17-1/2	--	--	14	16d	1370	6.09	1175	6.09
MTW18	16	1-1/4	18	7-1/2	7-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW20	16	1-1/4	20	8-1/2	8-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
KTS24	16	1-1/4	21-3/4	--	--	18	16d	1580	7.03	1580	7.03
MTW24C	16	1-1/4	24	10-7/16	10-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW28C	16	1-1/4	28	12-7/16	12-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW30	16	1-1/4	30	8-5/16	18-9/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW30C	16	1-1/4	30	13-7/16	13-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
HTW16	14	1-1/4	16	5-1/8	5-1/8	16	10d x 1-1/2	2340	10.41	1660	10.41
						16	10d				
HTW20	14	1-1/4	20	7-1/8	7-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW24	14	1-1/4	24	9-1/8	9-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW28	14	1-1/4	28	11-1/8	11-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30	14	1-1/4	30	7	17-1/4	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30C	14	1-1/4	30	12-1/8	12-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				

PEO
Certificate No. 10889485



Dec. 8, 2017

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
- 2) For 1-1/2" lumber where 16d nails are specified, use 10d x 1-1/2" nails and apply 0.78 adjustment factor to the table value.
- 3) Fasteners shall be distributed equally on each end of the connection.
- 4) C after the model number designates center twist as in MTW30C.
- 5) **NAILS:** 8d x 1-1/2" nails are 0.131" dia. x 1-1/2" long, 8d nails are 0.131" dia. x 2-1/2" long, 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.

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

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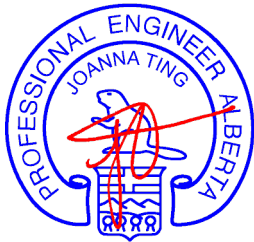
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December 2017 USP2320-KTS/LTW/MTW/HTW

KTS / LTW / MTW / HTW Twist Straps



APEGA
Permit No. P3837



Dec. 8, 2017



Dec. 8, 2017

APEGM
Certificate No. 96



Dec. 8, 2017

APEGS
Certificate No. C0940



MiTek Stock No. ⁴	Steel Gauge	Dimensions (in)				Fastener Schedule ^{2,3,5}		DF Factored Resistance		S-P-F Factored Resistance	
		W	L	L1	L2	Qty	Type	Uplift 115% ¹		Uplift 115% ¹	
								Lbs	kN	Lbs	kN
LTW12	18	1-1/4	12	4-1/2	4-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW16	18	1-1/4	16	6-1/2	6-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW18	18	1-1/4	18	7-1/2	7-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW20	18	1-1/4	20	8-1/2	8-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
KTS9	16	1-1/4	9	--	--	8	16d	915	4.07	785	4.07
KTS12	16	1-1/4	11-1/2	--	--	10	16d	1145	5.09	985	5.09
MTW12	16	1-1/4	12	4-1/2	4-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW16	16	1-1/4	16	6-1/2	6-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
KTS17	16	1-1/4	17-1/2	--	--	14	16d	1370	6.09	1175	6.09
MTW18	16	1-1/4	18	7-1/2	7-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW20	16	1-1/4	20	8-1/2	8-1/2	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
KTS24	16	1-1/4	21-3/4	--	--	18	16d	1580	7.03	1580	7.03
MTW24C	16	1-1/4	24	10-7/16	10-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW28C	16	1-1/4	28	12-7/16	12-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW30	16	1-1/4	30	8-5/16	18-9/16	14	10d x 1-1/2	2250	10.01	1595	10.01
						14	10d				
MTW30C	16	1-1/4	30	13-7/16	13-7/16	14	10d x 1-1/2	2250	10.01	1595	10.01
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HTW16	14	1-1/4	16	5-1/8	5-1/8	16	10d x 1-1/2	2340	10.41	1660	10.41
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HTW20	14	1-1/4	20	7-1/8	7-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
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HTW24	14	1-1/4	24	9-1/8	9-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW28	14	1-1/4	28	11-1/8	11-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30	14	1-1/4	30	7	17-1/4	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30C	14	1-1/4	30	12-1/8	12-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
- 2) For 1-1/2" lumber where 16d nails are specified, use 10d x 1-1/2" nails and apply 0.78 adjustment factor to the table value.
- 3) Fasteners shall be distributed equally on each end of the connection.
- 4) C after the model number designates center twist as in MTW30C.
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APENS
Permit No. 15800 0



Dec. 8, 2017

PEG
Permit No. D0027



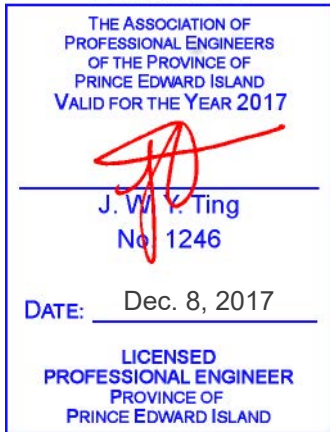
Dec. 8, 2017

APENB
Certificate No. F0649



Dec. 8, 2017

APEPEI
Permit No. A195



DATE: Dec. 8, 2017

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LTW18	18	1-1/4	18	7-1/2	7-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
LTW20	18	1-1/4	20	8-1/2	8-1/2	12	10d x 1-1/2	1465	6.52	1040	6.52
						12	10d				
KTS9	16	1-1/4	9	--	--	8	16d	915	4.07	785	4.07
KTS12	16	1-1/4	11-1/2	--	--	10	16d	1145	5.09	985	5.09
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HTW16	14	1-1/4	16	5-1/8	5-1/8	16	10d x 1-1/2	2340	10.41	1660	10.41
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HTW20	14	1-1/4	20	7-1/8	7-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW24	14	1-1/4	24	9-1/8	9-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW28	14	1-1/4	28	11-1/8	11-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30	14	1-1/4	30	7	17-1/4	24	10d x 1-1/2	2880	12.81	2045	12.81
						20	10d				
HTW30C	14	1-1/4	30	12-1/8	12-1/8	24	10d x 1-1/2	2880	12.81	2045	12.81
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