



## Evaluation Listing CCMC 11996-L

MASTERFORMAT: 06 05 23.07  
 Issued: 1989-06-29  
 Re-evaluated: 2010-05-13  
 Revised: 2010-12-07  
 Re-evaluation due: 2014-06-15

### **MT20 and MII 20**

#### **1. Evaluation**

Conforms to CSA S347-99, "Evaluation of Truss Plates Used in Lumber Joints" and to CAN/CSA-O86-01, "Engineering Design in Wood." Results from testing in conformance to CSA S347 are as follows:

#### **Ultimate Tensile Strength of Plate**

Grade of Steel	Plate Thickness (mm)	Mean Ultimate Tensile (MPa)	Correction Factor
SQ275	0.91	399	0.952

#### **Lateral Resistance of Teeth**

Direction of Load	Limit States Design	
	Ultimate Lateral Resistance, $n_u$	Lateral Slip Resistance, $n_s$
Units	MPa/Plate	MPa/Plate
Type of Press	Hydraulic	Hydraulic
Species of Wood	S-P-F	S-P-F
Load parallel to grain, plate length parallel to load	2.13	2.10
Load parallel to grain, plate length perpendicular to load	1.71	1.97
Load perpendicular to grain, plate length parallel to load	1.22	1.25
Load perpendicular to grain, plate length perpendicular to load	1.49	1.22

### Tensile Strength of Plate

Direction of Load	Limit States Design Tensile Resistance, $t_p$
Units	N/mm/Plate
Plate length parallel to load	200
Plate length perpendicular to load	145

### Shear Strength of Plate

Angle (Degree)	Limit States Design	Failure Mode	
	Shear Resistance, $v_p$ (N/mm/Plate)	Shear failure in T or C	Slots in Plate Axis
0	102	N/A	⊥
30	121	T	//
30	84	C	⊥
60	146	T	//
60	66	C	⊥
90	112	N/A	//
120	102	T	⊥
120	77	C	//
150	134	T	⊥
150	72	C	//

⊥: Slots perpendicular to plate length

C: Compression

T: Tension

N/A: Not Applicable

//: Slots parallel to plate length

## 2. Description

A Grade SQ275, galvanized G90 steel truss connector plate that is 0.89 mm thick and stamped with 0.0124 teeth/mm<sup>2</sup>. The teeth are 8.2 mm long.

### **3. Standard and Regulatory Information**

See the Preface and the standard for explanation.

Listing Holder: MiTek Canada, Inc.  
100 Industrial Road  
Bradford, ON L3Z 3G7  
Tel: 1-800-268-3434  
Fax: 905-952-2903

Plant(s): Bradford, ON

*This Listing is issued by the Canadian Construction Materials Centre, a program of the Institute for Research in Construction at the National Research Council of Canada. The Listing must be read in the context of the entire CCMC Registry of Product Evaluations.*

*Readers must confirm that the Listing is current and has not been withdrawn or superseded by a later issue. Please refer to <http://www.nrc-cnrc.gc.ca/eng/services/irc/ccmc.html>, or contact the Canadian Construction Materials Centre, Institute for Research in Construction, National Research Council of Canada, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6. Telephone (613) 993-6189. Fax (613) 952-0268.*

***NRC has evaluated the material, product, system or service described herein only for those characteristics stated herein. The information and opinions in this Listing are directed to those who have the appropriate degree of experience to use and apply its contents. This Listing is provided without representation, warranty, or guarantee of any kind, expressed, or implied, and the National Research Council of Canada (NRC) provides no endorsement for any evaluated material, product, system or service described herein. NRC accepts no responsibility whatsoever arising in any way from any and all use and reliance on the information contained in this Listing. NRC is not undertaking to render professional or other services on behalf of any person or entity nor to perform any duty owed by any person or entity to another person or entity.***

CCMC Evaluation Listings & Reports  
Annual Reaffirmation

9410/11996-L

Return to: CCMC, National Research Council  
1200 Montreal Rd., M-24, Ottawa, Ontario, CANADA, K1A 0R6  
Fax: (613) 952-0268 E-mail: ccmc@nrc.gc.ca

1 May 2012

**Client Information** (please update information)

COMPANY NAME: MiTek Canada, Inc.  
COMPANY ADDRESS: 100 Industrial Road  
Bradford, ON L3Z 3G7  
CONTACT NAME: Mr. Robert Baynit, M.Eng., MBA, P.Eng., Director of Engineering

**Product Information** (please update information)

06 05 23.07

PRODUCT NAME: MT20 and MII 20  
EVALUATION NUMBER: 11996-L  
MANUFACTURED AT: 100 Industrial Road, Bradford, ON

Plant is ISO certified  
(please provide copy of certificate)

**Other Information**

EVALUATION EXPIRY DATE: 15 June 2014

Correspondance en français

**Client Declaration**

**PLEASE COMPLETE and RETURN**

I, ROBERT BAYNIT, BEING AN AUTHORIZED REPRESENTATIVE OF MiTek Canada, Inc. BEING THE PROPONENT OF THE ABOVE-REFERENCED PRODUCT, DO HEREBY CERTIFY THAT THE PRODUCT, MT20 and MII 20, IS:

- a)  STILL IN COMMERCIAL PRODUCTION AT THE LOCATION(S) INDICATED ABOVE  
 NO LONGER IN PRODUCTION. PLEASE CANCEL LISTING

and

- b)  UNCHANGED FROM THE PRODUCT AS LAST EVALUATED  
 CHANGED\* (please specify):
- |  |   |
|--|---|
| <input type="checkbox"/> MANUFACTURING LOCATION  | <input type="checkbox"/> BASE MATERIALS |
| <input type="checkbox"/> MANUFACTURING PROCESS   | <input type="checkbox"/> INTENDED USE   |
| <input type="checkbox"/> MANUFACTURING EQUIPMENT | <input type="checkbox"/> OTHER          |
| <input type="checkbox"/> INSTALLATION PROCEDURES |   |

\* PLEASE ATTACH A SEPARATE SHEET TO DESCRIBE THE SPECIFIC CHANGES.

I FURTHER UNDERTAKE TO:

- a) Comply with the terms and conditions under which CCMC Evaluation Listings and Reports are originally issued.  
b) Comply with any limitations on the usage of the product contained in the CCMC Evaluation Listing or Report.  
c) Advise the Canadian Construction Materials Centre prior to implementing any changes to the product, its manufacture or its recommended usage.  
d) Advise the Canadian Construction Materials Centre prior to beginning manufacture or assembly of the product at any location other than that shown above.

NAME AND POSITION OF AUTHORIZED REPRESENTATIVE (PLEASE PRINT):

ROBERT BAYNIT, DIRECTOR OF ENGINEERING

DATE: MAY 7, 2012

SIGNATURE: 

AFFIX CORPORATE SEAL  
(or provide witness signature)

WITNESS: \_\_\_\_\_