

# CCMC 10319-L

## CCMC Standard compliance evaluation

<b>CCMC number:</b>	10319-L
<b>Status:</b>	Active
<b>Issue date:</b>	1983-05-30
<b>Modified date:</b>	2023-11-08
<b>Evaluation holder:</b>	<p><b>MiTek Canada, Inc.</b>                  240 Stirling Crescent                  Bradford ON L3Z 4L5                  Canada                  Website: <a href="http://www.mitek.ca">www.mitek.ca</a>                  Telephone: 800-268-3434 / 905-952-2684                  Email: <a href="mailto:info@mittek.ca">info@mittek.ca</a></p>
<b>Product name:</b>	MII 16
<b>Criteria:</b>	<p>CSA-O86-14, "Engineering Design in Wood"                  CSA-S347-14, "Method of Test for Evaluation of Truss Plates Used in Lumber Joints"</p>

**In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.**

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# Product information

## Product name

MII 16

## Product description

“MII 16” truss plate is manufactured from 16 gauge steel sheet that meets the minimum strength and yield requirements of ASTM A653, SS Grade 40 SQ275 and is galvanized with G90 zinc coating per ASTM A924/A924M. “MII 16” truss plate has an uncoated nominal thickness of 1.515 mm and is stamped with 0.0074 teeth per square mm. The teeth are approximately 9.5 mm in length.

## Manufacturing plant

This evaluation is valid only for products produced at the following plant:

Product name	Manufacturing plant
	Bradford, ON, CA
MII 16	☑

☑ Indicates that the product from this manufacturing facility has been evaluated by the CCMC

## Technical information

This evaluation is based on demonstrated conformance with the following criteria:

Criteria number	Criteria name
CSA-O86-14	Engineering Design in Wood
CSA-S347-14	Method of Test for Evaluation of Truss Plates Used in Lumber Joints

### Results of testing the ultimate tensile strength of the plate on the product

Ultimate tensile strength	Uncoated nominal plate thickness (mm)	Mean ultimate strength (MPa)	Correction factor
380	1.515	381	0.972

### Results of testing the lateral resistance of the teeth (hydraulic press) on the product

Direction of load	Lateral resistance (MPa/Plate)	
	Ultimate lateral resistance, $n_u$	Lateral slip resistance, $n_s$
Load parallel to grain, plate length parallel to load	1.51	1.52
Load parallel to grain, plate length perpendicular to load	1.18	1.15
Load perpendicular to grain, plate length parallel to load	1.04	1.18
Load perpendicular to grain, plate length perpendicular to load	1.35	1.34

### Roller press modification factors of the product

Roller diameter	610 mm (24 in.)
Roller feed speed	45.7 m/mm (150 ft/min)
Ultimate strength modification factor, $K_{pu}$	1.00
Slip modification factor, $K_{ps}$	1.00

### Results of testing the tensile strength of the plate on the product

Direction of load	Unit	Tensile resistance, $tp$
Plate length parallel to load	N/mm/plate	375
Plate length perpendicular to load	N/mm/plate	159

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## Results of testing the shear strength of the plate on the product

Limit states design		
Angle (degree)	Shear resistance, $v_p$ (N/mm/plate)	Slots in plate axis
0, 180	183	^
30T	187	//
30C	151	^
60T	223	//
60C	110	^
90	177	//
120T	125	^
120C	155	//
150T	150	^
150C	142	//

### Legend for symbols:

^ : Slots perpendicular to plate, long dimension

// : Slots parallel to the plate, long dimension

C: Compression

T: Tension

# Administrative information

## Use of Canadian Construction Materials Centre (CCMC) assessments

This assessment must be read in the context of the entire [CCMC Registry of Product Assessments](#), any applicable building code or by-law requirements, and/or any other regulatory requirements (for example, the [Canada Consumer Product Safety Act](#), the [Canadian Environmental Protection Act](#), etc.).

It is the responsibility of the user to confirm that the assessment they are using is current and has not been withdrawn or superseded by a later version on the [CCMC Registry of Product Assessments](#).

## Disclaimer

The National Research Council of Canada (NRC) has evaluated only the characteristics of the specific product described herein. The information and opinions in this evaluation are directed to those who have the appropriate degree of experience to use and apply its contents (such as authorities having jurisdiction, design professionals and specifiers). This evaluation is valid when the product is used as part of permitted construction, respecting all conditions and limitations stated in the evaluation, and in accordance with applicable building codes and by-laws.

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## Language

Une version française de ce document est disponible.

In the case of any discrepancy between the English and French version of this document, the English version shall prevail.

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(Alliance of Canadian Building Official Associations (ACBOA))

First Nations National Building Officers Association (FNNBOA)



(First Nations National Building Officers Association (FNNBOA))

Canadian Home Builders' Association (CHBA)



(Canadian Home Builders' Association (CHBA))

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(Manitoba Building Officials Association (MBOA))

Ontario Building Officials Association (OBOA)



(Ontario Building Officials Association (OBOA))

New Brunswick Building Officials Association (NBBOA)



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(Nova Scotia Building Officials Association (NSBOA))

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For more information, contact the CCMC by phone at (613) 993-6189 or by email at [ccmc@nrc-cnrc.gc.ca](mailto:ccmc@nrc-cnrc.gc.ca)

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