CCMC STANDARD COMPLIANCE EVALUATION

CCMC EVALUATION

CCMC 13270-L

CCMC Standard compliance evaluation

CCMC number:	13270-L
Status:	Active
Issue date:	2007-02-02
Modified date:	2021-11-17
Evaluation holder:	**MiTek Canada, Inc.** 100 Industrial Road Bradford ON L3Z 3G7 Canada Website: www.mitek.ca Telephone: 800-268-3434 Email: info@mitek.ca
Product name:	MT18HS
Evaluation requirements:	CSA-O86-14 CSA-S347-14

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.
Learn more about CCMC recognition

Product information

Product name

MT18HS

Product description

MT18HS truss plate is manufactured from 18-gauge steel sheet that meets the minimum strength and yield requirements of ASTM A 653/A 653M, “Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process,” Grade 60 HSLA II410 steel and galvanized with G90 zinc coating as per ASTM A 924/A 924M, “Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.” MT18HS truss plate has an uncoated nominal thickness of 1.22 mm and is stamped with 0.0124 teeth per square mm. The teeth are approximately 8 mm in length.

Manufacturing plants

This evaluation is limited to products produced at the following plant(s):

- Bradford, Ontario, Canada

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

Grade of steel	Uncoated nominal plate thickness (mm)	Mean ultimate tensile strength (MPa)	Correction factor
HSLA II410	1.22	546	0.872

Results of testing the lateral resistance of the teeth (hydraulic press)

Direction of load	Plate length	Lateral resistance (MPa/plate) Specific gravity (SG) = 0.42	
		Ultimate lateral resistance, n_u	Lateral slip resistance, n_s
Parallel to grain	**parallel to load**	1.76	2.12
	perpendicular to load	2.02	2.40
Perpendicular to grain	**parallel to load**	1.45	1.71
	perpendicular to load	1.39	1.66

Roller press modification factors of the product

Roller diameter	610 mm (24 in.)
Roller feed speed	45.7 m/min (150 ft/min)
Ultimate strength modification factor, K_{pu}	0.82
Slip modification factor, K_{ps}	0.79

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

Direction of load	Unit	Tensile resistance, t_p
Parallel to plate length	N/mm/plate	263
Perpendicular to plate length	N/mm/plate	277

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

Angle (degree)	Shear resistance, v_p (N/mm/plate)	Slots in plate axis
0, 180	162	^
30T	169	//
30C	138	^
60T	215	//
60C	130	^
90	154	//
120T	171	^
120C	121	//
150T	215	^
150C	136	//

Legend for symbols:

^: Slots perpendicular to plate, long dimension

//: Slots parallel to the plate, long dimension

C: Compression

T: Tension

Administrative information

Disclaimer

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It is the responsibility of the local AHJs, design professionals, and specifiers to confirm that the evaluation is current and has not been withdrawn or superseded by a later issue. Please refer to the website or contact:

Canadian Construction Materials Centre
Construction Research Centre
National Research Council of Canada
1200 Montreal Road
Ottawa, Ontario, K1A 0R6
Telephone: 613-993-6189
Fax: 613-952-0268

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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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CCMC recognition

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Canadian Home Builders' Association (CHBA)	(Canadian Home Builders' Association (CHBA))
Alberta Building Officials Association (ABOA)	(Alberta Building Officials Associations (ABOA))
Saskatchewan Building Officials Association (SBOA)	(Saskatchewan Building Officials Association (SBOA))
Manitoba Building Officials Association (MBOA)	(Manitoba Building Officials Association (MBOA))
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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