



Evaluation Listing

CCMC 10319-L

MASTERFORMAT: 06 05 23.07
 Issued: 1983-05-30
 Re-evaluated: 2010-12-07
 Revised: 2010-12-22
 Re-evaluation due: 2014-02-09

MT16 and MII 16

1. Evaluation

Conforms to CSA S347-99 and CAN/CSA-O86.1-94. CSA S347 test results are as follows:

Ultimate Tensile Strength of Plate

| Ultimate Tensile Strength (MPa) | Plate Thickness (mm) | Mean Ultimate Strength (MPa) | Correction Factor |
|---------------------------------|----------------------|------------------------------|-------------------|
| 380 | 1.45 | 425 | 0.89 |

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 | D.Fir-L | S-P-F | D.Fir-L |
| Load parallel to grain, plate length parallel to load | 1.63 | 2.25 | 1.79 | 2.88 |
| Load parallel to grain, plate length perpendicular to load | 0.95 | 1.27 | 1.08 | 1.75 |
| Load perpendicular to grain, plate length parallel to load | 1.23 | 1.26 | 1.30 | 1.39 |
| Load perpendicular to grain, plate length perpendicular to load | 1.34 | 1.28 | 1.32 | 2.08 |

Tensile Strength of Plate

| Direction of Load | Limit States Design |
|------------------------------------|---------------------------|
| | Tensile Resistance, t_p |
| Units | N/mm/Plate |
| Plate length parallel to load | 390 |
| Plate length perpendicular to load | 144 |

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 | 140 | N/A | ⊥ |
| 30 | 200 | T | // |
| 30 | 119 | C | ⊥ |
| 60 | 205 | T | // |
| 60 | 154 | C | ⊥ |
| 90 | 154 | N/A | // |
| 120 | 103 | T | ⊥ |
| 120 | 137 | C | // |
| 150 | 109 | T | ⊥ |
| 150 | 124 | C | // |

⊥: Slots perpendicular to plate, long dimension

//: Slots parallel to plate, long dimension

C: Compression

T: Tension

2. Description

A galvanized G90, Grade SQ275, steel truss connector plate that is 1.45 mm thick and stamped with 0.0074 teeth/mm². The teeth are 10.4 mm long and 4.1 mm wide and spaced 6 mm on center (o.c.) along the width and 25 mm o.c. along the length of the plate. The slots in adjacent rows are staggered.

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.