

# CCMC 13326-L

## CCMC Standard compliance evaluation

<b>CCMC number:</b>	13326-L
<b>Status:</b>	Active
<b>Issue date:</b>	2008-08-05
<b>Modified date:</b>	2022-11-17
<b>Evaluation holder:</b>	<p><b>Simpson Strong-Tie Canada, Limited</b></p> <p>11476 Kingston Street Maple Ridge BC V2X 0Y5 Canada Website: <a href="http://www.strongtie.com">www.strongtie.com</a> Telephone: 604-465-0296</p>
<b>Product name:</b>	AS-20 Truss Plate
<b>Evaluation requirements:</b>	<p><a href="#">CSA-O86-14</a> <a href="#">CSA-S347-14</a></p>

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

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# Product information

## Product name

AS-20 Truss Plate

## Product description

The product is manufactured from a 20 ga steel sheet that meets the minimum strength and yield requirements of ASTM A 653/A 653M, "Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process," Grade SQ275 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." The product has an uncoated nominal thickness of 0.904 mm and is stamped with 0.0124 teeth per square mm. The teeth are approximately 9.5 mm in length.

## Manufacturing plants

This evaluation is limited to products produced at the following plants:

Product name	Manufacturing plants		
	Columbus, OH, US	McKinney, TX, US	Stockton, CA, US
AS-20 Truss Plate	☑	☑	☑

☑ 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
<a href="#">CSA-O86-14</a>	Engineering Design in Wood
<a href="#">CSA-S347-14</a>	Method of Test for Evaluation of Truss Plates Used in Lumber Joints

**Table 1. Results of testing the ultimate tensile strength of the plate on the product**

Grade of steel	Uncoated nominal plate thickness (mm)	Mean ultimate tensile strength (MPa)	Correction factor
SQ275	0.904	391	0.969

**Table 2. Results of testing the lateral resistance of the teeth (hydraulic press) on the product**

Direction of load	Lateral resistance (MPa/plate) Specific gravity (SG) = 0.42	
	Ultimate lateral resistance, $n_u$	Lateral slip resistance, $n_s$
Load parallel to grain, plate length parallel to load	2.35	2.16
Load parallel to grain, plate length perpendicular to load	2.01	2.07
Load perpendicular to grain, plate length parallel to load	1.72	1.70
Load perpendicular to grain, plate length perpendicular to load	1.72	1.82

**Table 3. Results of testing the lateral resistance of teeth (hydraulic press) on the product**

Direction of load	Lateral resistance (MPa/plate) Specific gravity (SG) = 0.47	
	Ultimate lateral resistance, $n_u$	Lateral slip resistance, $n_s$
Load parallel to grain, plate length parallel to load	2.56	2.38
Load parallel to grain, plate length perpendicular to load	2.30	2.31
Load perpendicular to grain, plate length parallel to load	1.85	1.88
Load perpendicular to grain, plate length perpendicular to load	1.86	2.09

**Table 4. Roller press modification factors**

Roller diameter	457 mm (18 in.)	
Roller feed speed	37.3 m/min (122.5 ft./min)	
Ultimate strength modification factor, $K_{pu}$	0.74 (SG = 0.42)	0.82 (SG = 0.47)
Slip modification factor, $K_{ps}$	0.77 (SG = 0.42)	0.83 (SG = 0.47)

**Table 5. Results of testing the tensile strength of plate on the product**

Direction of load	Limit states design tensile resistance, $t_p$
Units	N/mm/plate
Plate length parallel to load	167
Plate length perpendicular to load	165

**Table 6. Results of testing the shear strength of the plate on the product**

Angle (degree)	Limit states design for shear resistance, $v_p$ (N/mm/plate)	Slots in plate axis
0,180	110	⊥
30T	127	//
30C	99	⊥
60T	151	//
60C	87	⊥
90	86	//
120T	100	⊥
120C	90	//
150T	125	⊥
150C	85	//

**Legend for symbols:**

⊥: Slots perpendicular to plate, long dimension

//: Slots parallel to the plate, long dimension

C: Compression

T: Tension

# Administrative information

## Disclaimer

This evaluation is issued by the Canadian Construction Materials Centre (CCMC), part of the Construction Research Centre at the National Research Council of Canada (NRC). The evaluation must be read in the context of the entire [CCMC Registry of Product Assessments](#) and the legislated applicable building code in effect.

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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

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## Language

Une version française de ce document est disponible.

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## CCMC recognition

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