



Residential North America

Product Evaluation Report
MiTek® Inc.
MSTAM & MSTCM Masonry Straps

Florida Product Approval FL 17325
Florida Building Code
Per Rule 61G20-3
Method 2-b

Category: Structural Components
Subcategory: Wood Connector
Compliance Method: 61G20-3.005(2)(b)
HVHZ

Product Manufacturer:

MiTek Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Engineer Evaluator:

Todd Grevious, P.E.
FL P.E. #88918

Validator:

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Contents:

Evaluation Report Pages 1-5



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Compliance Statement:	The product as described in this report has demonstrated compliance with the 2026 Florida Building Code, Sections 2321.5, and 2321.7.
Product Description:	The MSTAM and MSTCM masonry straps consist of a steel strap to connect a wood member to a masonry wall. The straps are used to transfer tension load between wood members and masonry walls.
Product Material:	ASTM A653 Grade 50 Steel, min, Yield Strength 50 ksi, G90 Galvanized.
Materials:	Wood Wood members must be Douglas Fir with a minimum specific gravity (G) of 0.50, or an approved member with an equivalent specific gravity (G) of 0.50 or greater. Wood members shall have a moisture content not exceeding 19 percent (16 percent for structural engineered lumber). Wood members must be used under continuously dry conditions and where sustained temperatures are limited to 100° F. Preservative and Fire-Retardant-treated Wood Connectors or fasteners used in contact with preservative-treated and fire-retardant-treated wood shall be in accordance with Section 2304.10.5. Nail Nails shall meet the requirements in Table and the Requirements specified in ASTM F1667. Fasteners Required fastener types and sizes are specified in the Table. Masonry Material and quality of masonry construction must comply with the applicable sections of the 2026 FBC.

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**Design Procedure:**

The allowable loads shown in the Table are based on allowable stress design and include a 60% increase for wind and seismic load conditions per Section 11.3.2 of the NDS. No further increases are permitted.

The allowable loads are based on wood members with a moisture content not exceeding 19 percent (16 percent for structural engineered lumber). If moisture content exceeds this value, a wet service factor, C_m , must be applied per Section 11.3.3 of the NDS. The allowable loads are based on wood members under continuously dry conditions and where sustained temperatures are limited to 100° F. Wood members that will experience sustained exposure to temperatures exceeding 100°F shall be adjusted by the temperature factor, C_t , per Section 11.3.4 of the NDS.

Wood members to which the anchor is attached must be designed by a registered design professional per the 2026 FBC. Masonry constructions must be a minimum of hollow C90 concrete block designed by a registered design professional per the 2026 FBC.

Installation:

Install the strap in accordance with this evaluation report and the manufacturer's installation instructions.

For use within 3,000 feet of a saltwater coastline, fasteners and connectors must comply with Section 1711 and Table 1711.1 of the 2026 Florida Building Code - Building or Section R332 and Table R332.1 of the 2026 Florida Building Code - Residential, as applicable.

Testing and Specification:

1. ASTM E488-96 (2003) Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements. Test Report No. TCT004152.1R1P dated 07/28/2011 by Stork/Twin Cities Testing.

2. ANSI/AWC National Design Specifications for Wood Construction (NDS) 2024

The 2026 Florida Building Code Section 2321.5 (Anchorage to Concrete) provides a general description of the requirements of straps used to anchor wood to concrete (grout filled CMU implied), and Section 2321.7 (1) provides the requirement that anchors shall be tested to a minimum 700 lb. uplift load. However, there is no referenced standard within Chapter 35 of the 2026 FBC that identifies the test method needed to establish this capacity.

ASTM E488-96 (2003) was an approved and nationally recognized standard edition that described the test method for determining the shear strength of anchors installed into structural concrete and masonry walls. Specifically, Section 5.3 described the shear test procedure for anchors installed perpendicular to the masonry wall and Section 5.5 described the displacement measurements needed for the test. ASTM E488-96 (2003) was used to determine the allowable masonry-steel strength of the masonry straps listed in FL 17325. These straps attach wood trusses and wood framing to solid filled CMU masonry walls in a fashion typical to that shown in the Evaluation Report and are loaded only in direct tension (uplift) perpendicular to the masonry wall.

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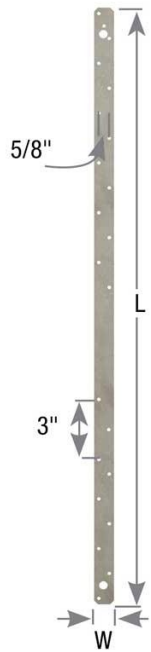
Masonry anchor testing requirements were subsequently removed from ASTM E488 in 2010, and ASTM C1892 was established as a separate test standard for masonry anchor testing. The masonry anchor testing requirements in ASTM C1892-22 and ASTM E488-96 (2003) are substantively the same and would not change the resulting allowable loads.

Based on my research and analysis, it is my opinion that ASTM E488-6 (2003) is equivalent to ASTM C1892-22, and the established allowable strength capacities of the masonry-steel strengths of the straps listed in FL 17325 are still applicable for use under the 2026 Florida Building Code.

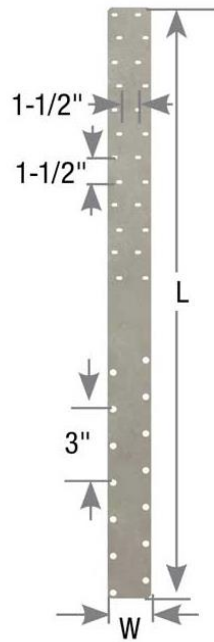
Quality Assurance Entity:

The manufacturer has established compliance in accordance with the 2026 Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

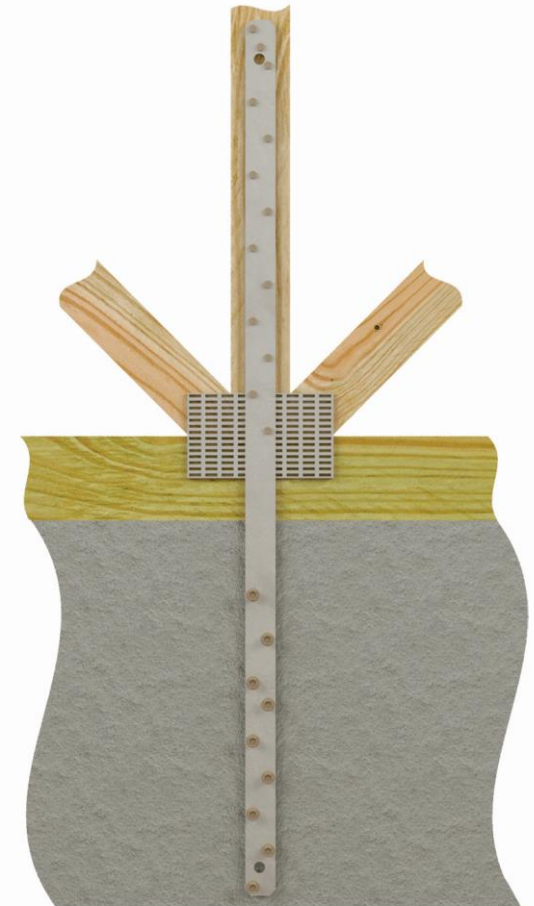
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MSTAM Masonry Strap



MSTCM Masonry Strap



**Typical MSTAM installation
(MSTCM similar)**

Stock Number	Steel Gage	Dimensions (in.)		Fasteners ¹				Allowable Tension Loads (lbs) ^{2,3}
		W	L	Wood		CMU or Concrete		
				Qty	Type	Qty	Type ⁴	C _D = 1.60
MSTAM24	18	1¼	24	9	10d Common	5	1/4" Tapcon	1545
MSTAM36	16	1¼	36	13	10d Common	8	1/4" Tapcon	1890
MSTCM40	16	3	40¼	24	10d Common	14	1/4" Tapcon	4225
				20	16d Common			
MSTCM60	16	3	59½	24	10d Common	14	1/4" Tapcon	4225
				20	16d Common			

For SI: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N

¹A 10d Common nail is 3 inches long and 0.148 inches in diameter.

A 16d Common nail is 3 1/2 inches long and 0.162 inches in diameter.

²Loads are increased for wind or seismic loads, as indicated. No further increase is permitted.

³Allowable loads are derived from tests performed using hollow ASTM C90 concrete block.

⁴Use ITW Buildex 1/4" dia. X 2-1/4" long Tapcon fasteners; or equal, installed in accordance with manufacturer's specification.



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Name: MSTAM & MSTCM
Masonry Strap

Sheet 1
Date:
09/04/2026

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