



Residential North America

Product Evaluation Report
MiTek® Inc.
HGAM10 Hurricane Gusset Angle

Florida Product Approval # FL 17699
Florida Building Code
Per Rule 61G20-3
Method 1 –d

Category: Structural Components
Subcategory: Wood Connector
Compliance Method: 61G20- 3.005(1)(d)
HVHZ

Product Manufacturer:

MiTek Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Engineering Evaluator:

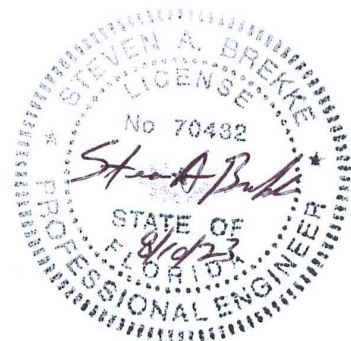
Steven Brekke, P.E.
FL P.E. #70432

Validator:

Johnathan Green, P.E.
FL P.E. #88223

Contents:

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Compliance Statement:

The product as described in this report has demonstrated compliance with the Florida Building Code, Sections 2303.5, 2304.10.3, 2321.5, 2321.6, 2321.7.

Product Description:

The HGAM10 Hurricane Gusset Angle consists of a steel angle to connect a wood member to a masonry wall. The angle is used to transfer lateral and uplift loads between members.

Product Material:

14 Ga. ASTM A653 Gr. 40 Steel 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. 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.

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 FBC. Minimum concrete or grout compressive strength shall be 2500 psi.

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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 FBC. Masonry constructions must be a minimum of hollow C90 concrete CMU block designed by a registered design professional per the FBC.

Installation:

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

Testing and Specification:

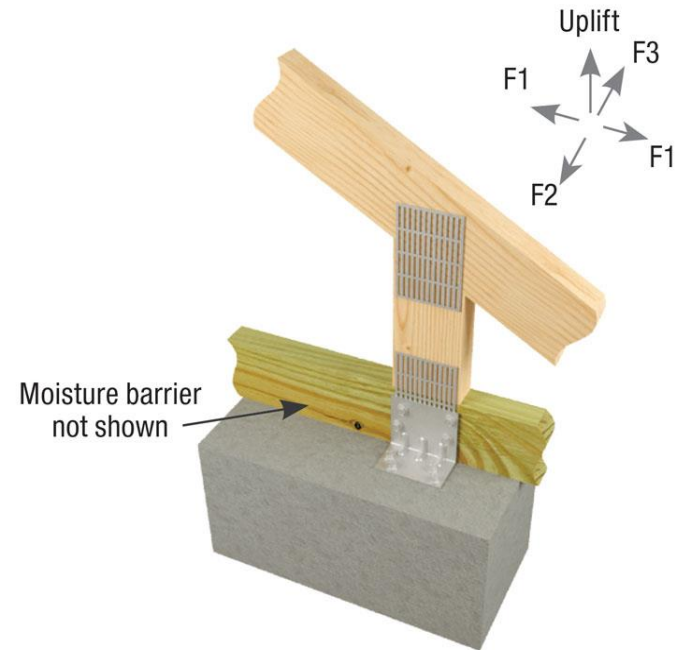
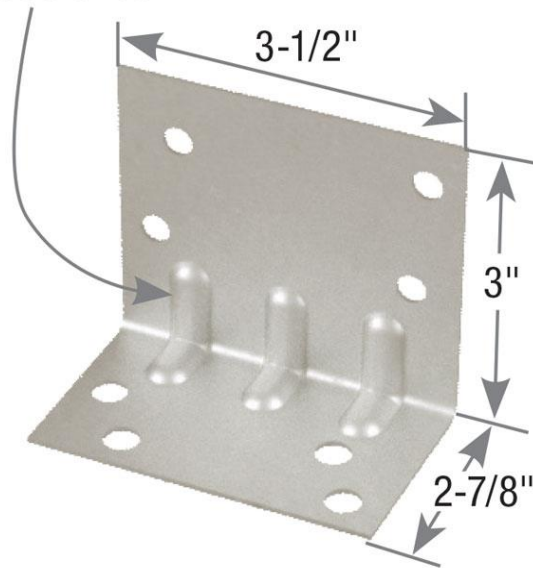
1. ASTM D1761-88:
Test Report No. ESP016578P.11 by Element Materials Technology.
Test Report No. 32153 by Stork / Element Materials Technology.
2. ASTM D 1761 to ASTM D7147-11 comparison letter, sealed by Steven A. Brekke, P.E.
3. ANSI/AWC National Design Specifications for Wood Construction (NDS) 2018

Quality Assurance Entity:

The manufacturer has established compliance in accordance with 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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Embossed gussets
improve lateral load
resistance



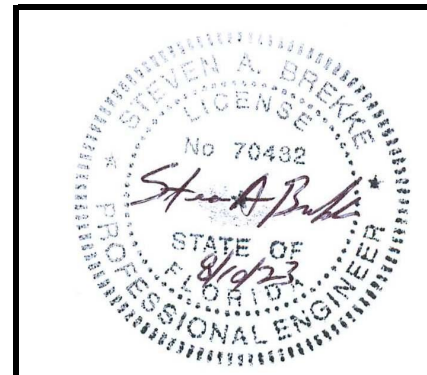
STOCK NUMBER	STEEL GAUGE	DIMENSIONS (in)			FASTENER SCHEDULE ^{1,2}				ALLOWABLE LOADS (lbs) ³			
		W	H	D	Plate		Rafter/Truss		F ₁	F ₂	F ₃	Uplift
					Qty	Type	Qty	Type	C _D = 1.6	C _D = 1.6	C _D = 1.6	C _D = 1.6
HGAM10	14	3 1/2	3	2 7/8	4	1/4" x 1-3/4"	4	WS15	1075	1080	980	980

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

¹ Use DeWalt 1/4" x 1-3/4" Screwbolt™+ (included) or equal; installed in accordance with manufacturer's specifications.

² MiTek WS15 screws are 1-1/2" long 1/4" nominal diameter. Screws are provided with product.

³ Loads include a 60% increase for wind or seismic load conditions.
No further increase shall be permitted.



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Name: HGAM Hurricane Gusset
Angle Series

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Date:	PROFESSIONAL ENGINEER
8/9/2023	License #: 70432