



Residential North America

Product Evaluation Report
MiTek Inc.
HLPTA75 High Wind Truss Anchor

Florida Product Approval 1247
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:

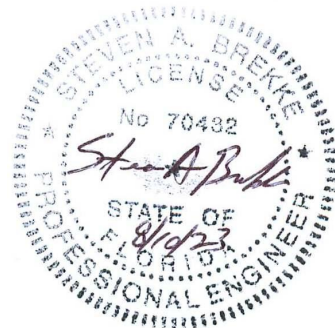
Steven Brekke P.E.
FL P.E. #70432

Validator:

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

Contents:

Evaluation Report Pages 1-4



MiTek Inc.

16023 Swingley Ridge Road
Chesterfield, MO 63017-5746
uspcustomerservice@mii.com
1-800-328-5934



Compliance Statement:

The product as described in this report has demonstrated compliance with the Florida Building Code, Sections 2304.10.3 and 2314.

Product Description:

The HLPTA75 is an embedded truss anchor designed to transfer lateral and uplift load between metal plated wooden trusses and masonry/concrete walls. It consists of a bent cold formed steel bracket that is partially embedded into a grouted bond beam (or concrete) and nailed to the truss with 10d x 1-1/2 nails.

Product Material:

18 Ga. Steel ASTM A653 Gr 40 G90

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 FBC Section 2304.10.5.

Nail

Nails shall meet the requirements in Table and the Requirements specified in ASTM F 1667.

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 C90, fully grouted, concrete CMU block designed by a registered design professional per the FBC.

Installation:

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

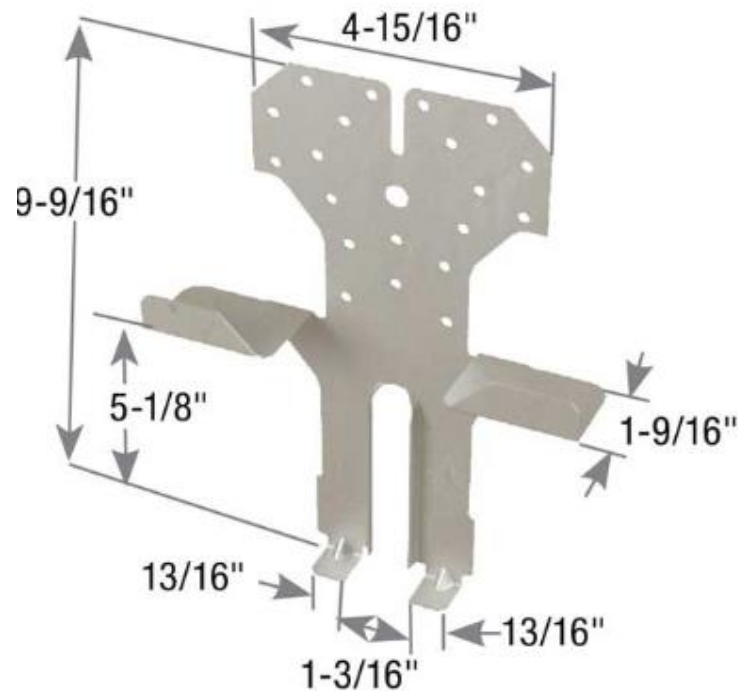
Testing and Specification:

1. ASTM D1761-88(00) Standard Test Methods for Mechanical Fasteners in Wood. Project No. 033047 by Stork Twin City Testing Corporation.
2. ASTM D1761-88(00) Standard Test Methods for Mechanical Fasteners in Wood. Project No. 03-4383 by Product Testing, Inc.
3. ASTM D1761-88(00) Standard Test Methods for Mechanical Fasteners in Wood. Project No. 03-4383 by Product Testing, Inc.
4. ASTM D 1761 comparison letter, signed and sealed by Steven Brekke, P.E.
5. ANSI/AWC National Design Specifications for Wood Construction (NDS) 2018

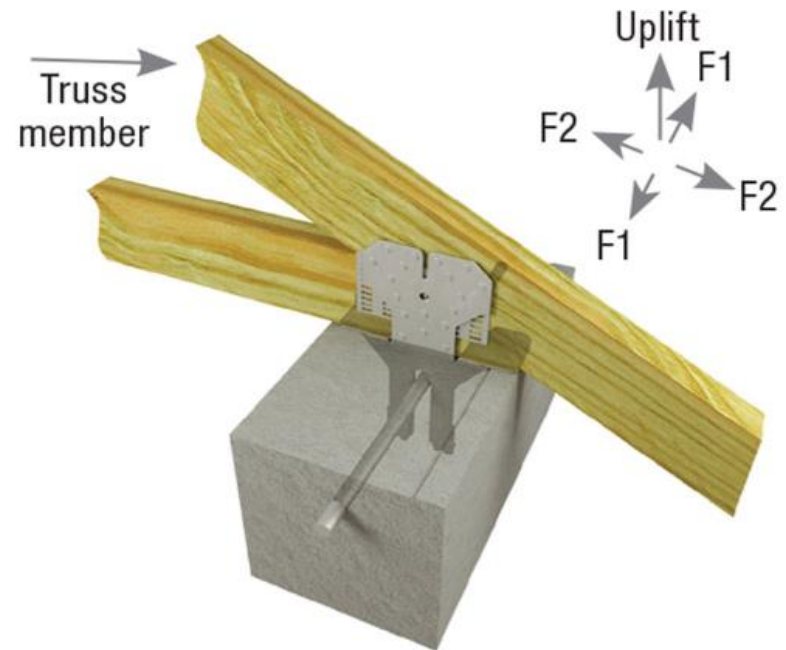
Quality Assurance Entity:

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

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HLPTA75 Embedded Truss Anchor

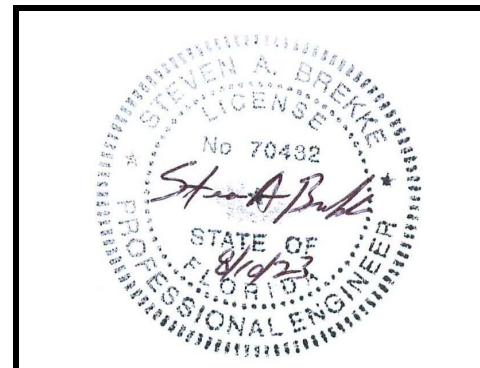


Typical HLPTA75 Single Anchor Installation

STOCK NO.	INSTALLATION TYPE ^{4,5,6,7,8,9}	STEEL ³ GAUGE	PRODUCT DIMENSIONS FOR SINGLE PART				FASTENER SCHEDULE ²				DF ALLOWABLE LOADS ¹ (lbs)		
			W	L	H	H _{ef}	Seat Plate		Trusses/Rafter		F1	F2	Uplift
			(in.)	(in.)	(in.)	(in.)	Qty	Type	Qty	Type	C _D = 1.60	C _D = 1.60	C _D = 1.60
HLPTA75	Single	18	1 9/16	4 15/16	4 7/16	5 1/8	2	10d x 1-1/2	20	10d x 1-1/2	1860	1715	2125
HLPTA75	Double	18	1 9/16	4 15/16	4 7/16	5 1/8	--	--	40	10d x 1-1/2	2040	2100	3500

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

- 1) Allowable loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
- 2) 10d x 1-1/2 nails are 0.148" dia. by 1-1/2" long.
- 3) Steel conforms to ASTM A653 Structural Grade 40 with a minimum galvanized coating of G90.
- 4) Embed in concrete tie beam or masonry bond beam until the seat is resting on the surface.
- 5) Minimum of one #7 or two #5 rebars through the theoretical shear cone required.
- 6) Connector shall be installed to fully grouted and reinforced masonry units (CMU) type S or better mortar or reinforced concrete (f'c = 2,500 psi at 28 days).
- 7) Minimum spacing between anchors is 10" to achieve full design load capacities on single anchors
- 8) Verify grout is not in contact with truss member. Moisture barrier may be required.
- 9) When used in a double rebar installation, concrete tie beam stirrup should be sized to accommodate connector leg placement.



Mitek Inc.
16023 Swingley Ridge Road
Chesterfield, MO 63017 800-328-5934
mitek-us.com

Name: HLPTA75 HIGH WIND
TRUSS ANCHOR

Date: 8/9/2023
Steven Brekke P.E.
PROFESSIONAL ENGINEER
License #: 70432