



Residential North America

Product Evaluation Report
MiTek® Inc.
HTA, HHTA, DHTA, DHHTA, LPTA Embedded Truss
Anchors

Florida Product Approval FL 17680
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:
Todd Grevious, P.E.
FL P.E. #88918

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

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Evaluation Report Pages
1-8



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Compliance Statement: The product as described in this report has demonstrated compliance with the 2026 Florida Building Code, Sections 2303.5, 2304.10.3, 2321.5, and 2321.7.

Product Description: The HTA, HHTA, DHTA, DHHTA, LPTA embedded truss anchors consist of a steel strap to connect a wood member to a masonry wall. The straps are used to transfer load between wood members and masonry walls.

Product Material:

Stock Number	Steel Gage	Steel Grade (ksi)
HTAxx-18 & HTAxx-18R	18	50
HTAxx, HTAxxR, HTAxx-2R	16	50
HHTAxx, HHTAxxR & HHTAxx-2R	14	50
DHTAxx-18 & DHTAxx-18-2	18	50
DHTAxx & DHTAxx-2	16	50
DHHTAxx & DHHTAxx-2	14	50
LPTA	18	40

Material: ASTM A653 Steel G90 Galvanized

Materials:

Wood

Wood members must be Southern Pine with a minimum specific gravity (G) of 0.55, or an approved member with an equivalent specific gravity (G) of 0.55. 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 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 2026 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 2026 FBC.

Installation:

Install the anchor 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 D7147-05 Standard Specifications for Establishing Allowable Loads of Joist Hangers.
2. Test Reports by Intertek/ATI: E3186.01-201-47, E1110.01-201.47, E6803.01-201- 47, G5359.01-201.47
3. Test Reports by Element Technology: ESP014081P, ESP016578P.16, ESP016578P.17, ESP0168578P.18, ESP016578P.19, 98-6687.
4. ANSI/AWC National Design Specifications for Wood Construction (NDS) 2024

The 2026 Florida Building Code refers to ASTM D1761-06, ASTM D7147-21, and ANSI / AWC NDS 2024.

Based on my previous experience with these standards, a careful review of the existing literature, and a review of the revisions between ASTM D1761-20 and its previous editions, as well as ASTM D7147-21 and its previous editions, I can state that the results gathered from testing conducted in accordance with ASTM D1761-88(2000), ASTM D1761-06, ASTM D7147-05, and ASTM D7147-11 remain applicable to evaluations performed in accordance with ASTM D1761-20 and ASTM D7147-21.

As such, the results gathered from testing to ASTM D1761-88(2000), ASTM D1761-06, ASTM D7147-05, and ASTM D7147-11 can be applied to the analysis described in ASTM D1761-20 and ASTM D7147-21 when determining the allowable load capacity for the products covered by this evaluation.

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ASTM D1761-88(2000), "Standard Test Methods for Mechanical Fasteners in Wood," was updated in 2006 by removing the portion pertaining to joist hanger tests and using that as a basis for a separate ASTM standard, ASTM D7147-05, "Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers." The remainder of ASTM D1761-88(2000) was reissued as ASTM D1761-06, with subsequent revisions published as ASTM D1761-12 and ASTM D1761-20.

**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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STOCK NUMBER	STEEL		DIMENSIONS (in)				FASTENER SCHEDULE PER ANCHOR ^{3,5,8}		SP ALLOWABLE LOADS FOR SEISMIC CATEGORIES A AND B (lbs) ^{1,4,6,7}						
	Gauge	Grade	W	D	H ²	HE	Qty	Type	Uplift Masonry		Uplift Concrete		Lateral Loads Concrete/Masonry		
									1-ply CD = 1.6	2-ply CD = 1.6	1-ply CD = 1.6	2-ply CD = 1.6	F1 CD = 1.6	F2 CD = 1.6	F3 CD = 1.6
HTA16-18	18	50	1 1/4	1 1/2	12	4	9	10d x 1-1/2	1625	1625	1625	1625	250	570	835
HTA16-18R															
HTA20-18	18	50	1 1/4	1 1/2	16	4	9	10d x 1-1/2	1625	1625	1625	1625	250	570	835
HTA20-18R															
HTA24-18	18	50	1 1/4	1 1/2	20	4	9	10d x 1-1/2	1625	1625	1625	1625	250	570	835
HTA24-18R															
HTA12	16	50	1 1/4	1 1/2	8	4	9	10d x 1-1/2	1870	1870	1870	1870	270	710	945
HTA12R															
HTA12-2R															
HTA16	16	50	1 1/4	1 1/2	12	4	9	10d x 1-1/2	1870	1870	1870	1870	270	710	945
HTA16R															
HTA16-2R															
HTA20	16	50	1 1/4	1 1/2	16	4	9	10d x 1-1/2	1870	1870	1870	1870	270	710	945
HTA20R															
HTA20-2R															
HTA24	16	50	1 1/4	1 1/2	20	4	9	10d x 1-1/2	1870	1870	1870	1870	270	710	945
HTA24R															
HTA24-2R															
HTA48	16	50	1 1/4	1 1/2	42.5	4	9	10d x 1-1/2	1870	1870	1870	1870	270	710	945
HTA48R															
HTA48-2R															
DHTA16-18	18	50	1 1/4	1 1/2	12	4	8	10d x 1-1/2	2430	--	2430	--	1085	1140	1085
DHTA16-18-2	18	50	1 1/4	1 1/2	12	4	8	10d x 1-1/2	--	2430	--	2770	1085	1140	1085
DHTA20-18	18	50	1 1/4	1 1/2	16	4	8	10d x 1-1/2	2430	--	2430	--	1085	1140	1085
DHTA20-18-2	18	50	1 1/4	1 1/2	16	4	8	10d x 1-1/2	--	2430	--	2770	1085	1140	1085
DHTA24-18	18	50	1 1/4	1 1/2	20	4	8	10d x 1-1/2	2430	--	2430	--	1085	1140	1085
DHTA24-18-2	18	50	1 1/4	1 1/2	20	4	8	10d x 1-1/2	--	2430	--	2770	1085	1140	1085

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

¹Reinforcement in concrete or masonry wall to be specified by others.

²Height H is the distance that part extends concrete or masonry

³A 10d x 1-1/2" nail has a diameter of 0.148 inch and a length of 1-1/2 inches

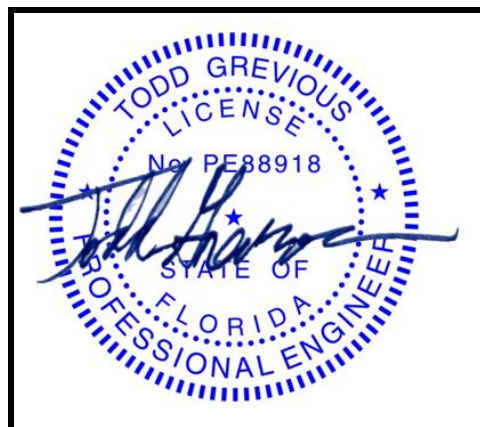
⁴DF Allowable loads are identical except when using a Single HTA anchor, in which case uplift is limited to 1730 lbs in both masonry and concrete.

⁵Minimum quantity of fasteners to be installed. Product may have additional nail holes not needed to meet published allowable load of product.

⁶Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

⁷Connector 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).

⁸Double anchor installation is permitted on 1-ply roof members when anchors are offset from each other a minimum of 3/4". Do not install anchors directly back-to-back or nails will interfere with each other.



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Name: HTA, HHTA, DHTA, DHHTA, LPTA
Embedded Truss Anchor

Sheet 1	Todd Grevious, P.E.
Date:	PROFESSIONAL ENGINEER
09/04/2026	License #: 88918

STOCK NUMBER	STEEL		DIMENSIONS (in)				FASTENER SCHEDULE PER ANCHOR ^{3,5,9}		SP ALLOWABLE LOADS FOR SEISMIC CATEGORIES A AND B (lbs) ^{1,4,6,7,8}						
									Uplift Masonry		Uplift Concrete		Lateral Loads Concrete/Masonry		
	Gauge	Grade	W	D	H ²	HE	Qty	Type	1-ply CD = 1.6	2-ply CD = 1.6	1-ply CD = 1.6	2-ply CD = 1.6	F1 CD = 1.6	F2 CD = 1.6	F3 CD = 1.6
DHTA12	16	50	1 1/4	1 1/2	8	4	8	10d x 1-1/2	2430	--	2430	--	1215	1310	1215
DHTA12-2	16	50	1 1/4	1 1/2	8	4	8	10d x 1-1/2	--	2430	--	2770	1215	1310	1215
DHTA16	16	50	1 1/4	1 1/2	12	4	8	10d x 1-1/2	2430	--	2430	--	1215	1310	1215
DHTA16-2	16	50	1 1/4	1 1/2	12	4	8	10d x 1-1/2	--	2430	--	2770	1215	1310	1215
DHTA20	16	50	1 1/4	1 1/2	16	4	8	10d x 1-1/2	2430	--	2430	--	1215	1310	1215
DHTA20-2	16	50	1 1/4	1 1/2	16	4	8	10d x 1-1/2	--	2430	--	2770	1215	1310	1215
DHTA24	16	50	1 1/4	1 1/2	20	4	8	10d x 1-1/2	2430	--	2430	--	1215	1310	1215
DHTA24-2	16	50	1 1/4	1 1/2	20	4	8	10d x 1-1/2	--	2430	--	2770	1215	1310	1215
DHTA48	16	50	1 1/4	1 1/2	42 1/2	4	8	10d x 1-1/2	2430	--	2430	--	1215	1310	1215
DHTA48-2	16	50	1 1/4	1 1/2	42 1/2	4	8	10d x 1-1/2	--	2430	--	2430	1215	1310	1215
LPTA Parallel	18	40	5	5	4 1/4	8 1/4	10	10d x 1-1/2	1470	1470	1470	1470	750	1085	335
LPTA Perp	18	40	5	5	4 1/4	8 1/4	10	10d x 1-1/2	1510	1510	1510	1510	335	745	345
HHTA16	14	50	1 1/4	1 1/2	12	4	11	10d x 1-1/2	2375	2375	2375	2375	270	710	945
HHTA16R															
HHTA16-2R															
HHTA20	14	50	1 1/4	1 1/2	16	4	11	10d x 1-1/2	2375	2375	2375	2375	270	710	945
HHTA20R															
HHTA20-2R															
DHHTA16	14	50	1 1/4	1 1/2	12	4	16	10d x 1-1/2	2650	--	2650	--	1215	1310	1215
DHHTA16-2	14	50	1 1/4	1 1/2	12	4	16	10d x 1-1/2	--	2650	--	2770	1215	1310	1215
DHHTA20	14	50	1 1/4	1 1/2	16	4	16	10d x 1-1/2	2650	--	2650	--	1215	1310	1215
DHHTA20-2	14	50	1 1/4	1 1/2	16	4	16	10d x 1-1/2	--	2650	--	2770	1215	1310	1215

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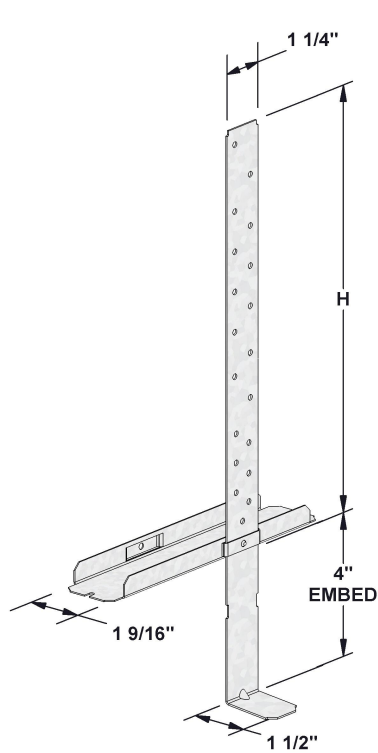


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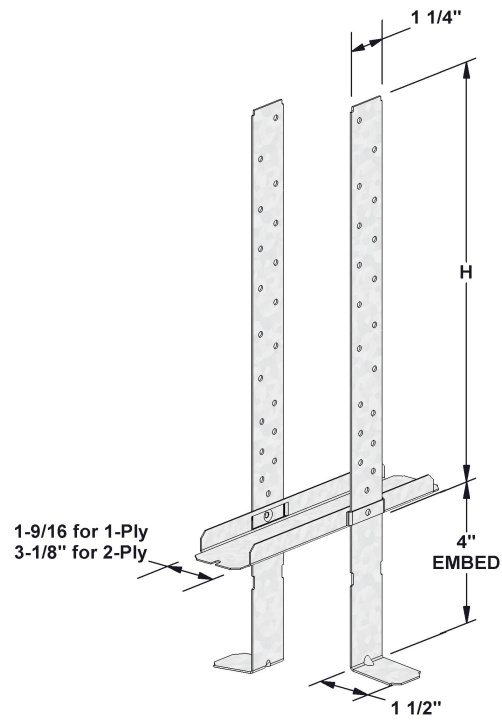
Name: HTA, HHTA, DHTA, DHHTA, LPTA
Embedded Truss Anchors

Sheet 2	Todd Grevious, P.E.
Date:	PROFESSIONAL ENGINEER
09/04/2026	License #: 88918

HTA, HHTA, DHTA, DHHTA EMBEDDED TRUSS ANCHOR DETAIL:

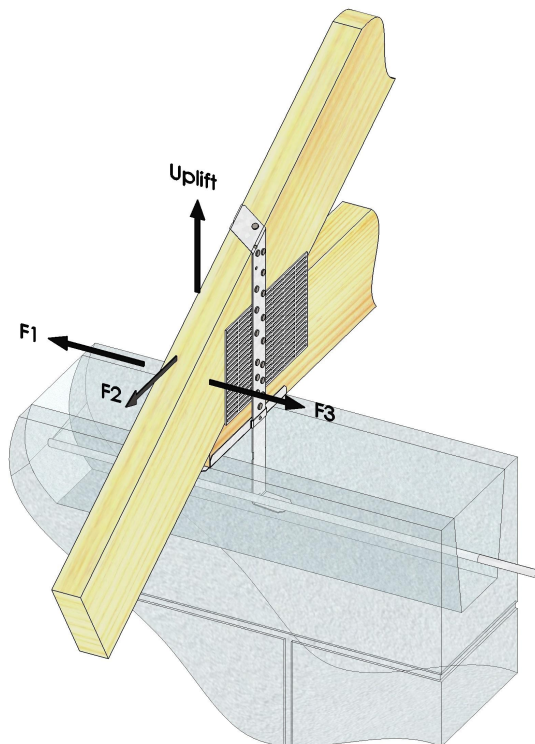


HTAxxR, HHTAxxR Truss Anchor
With Moisture Barrier

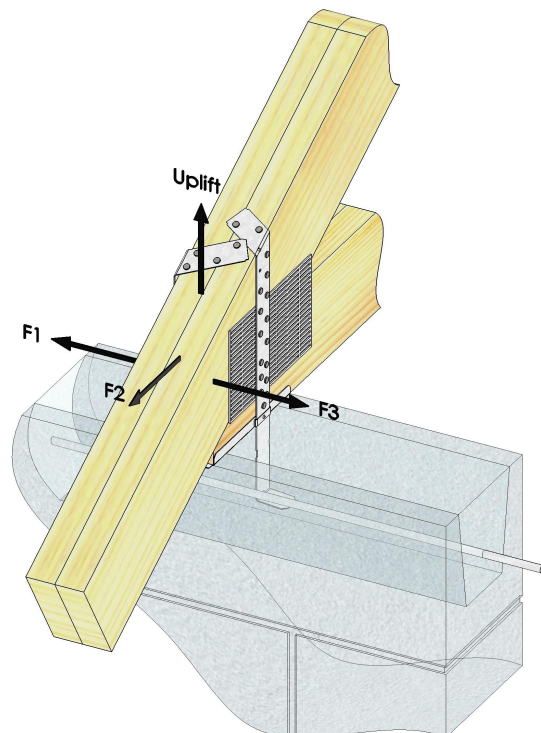


DHTA, DHHTA Truss Anchor
With Moisture Barrier

HTA, HHTA, DHTA, DHHTA EMBEDDED TRUSS ANCHOR INSTALLATION DETAIL:

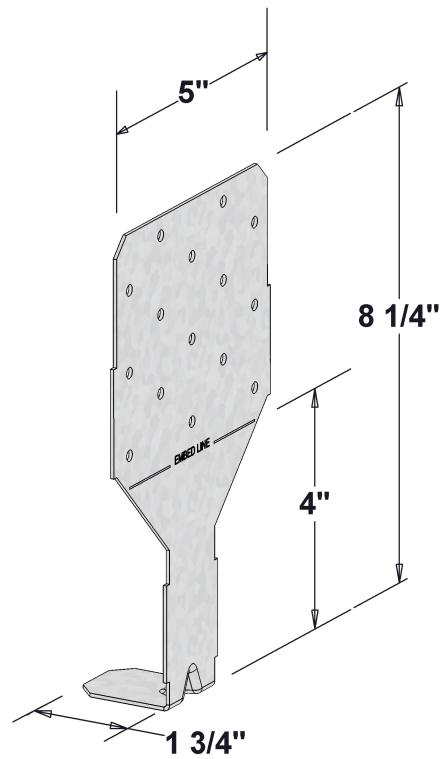


HTA, HHTA 1-Ply Application



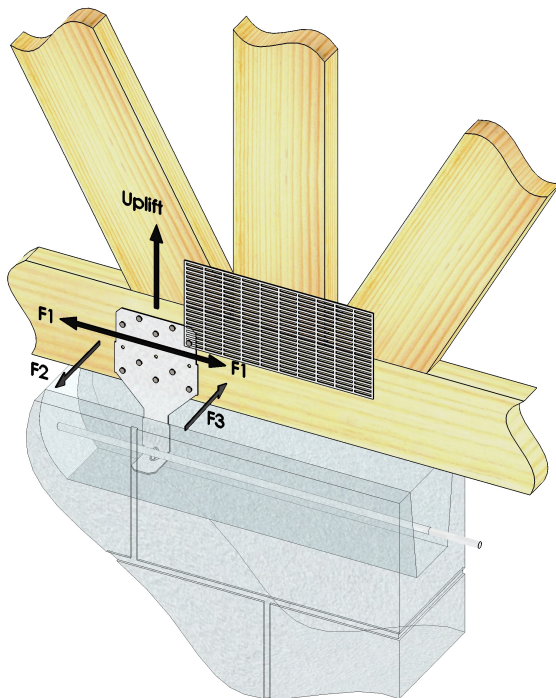
DHTA, DHHTA 2-Ply Application

LPTA EMBEDDED TRUSS ANCHOR DETAIL:

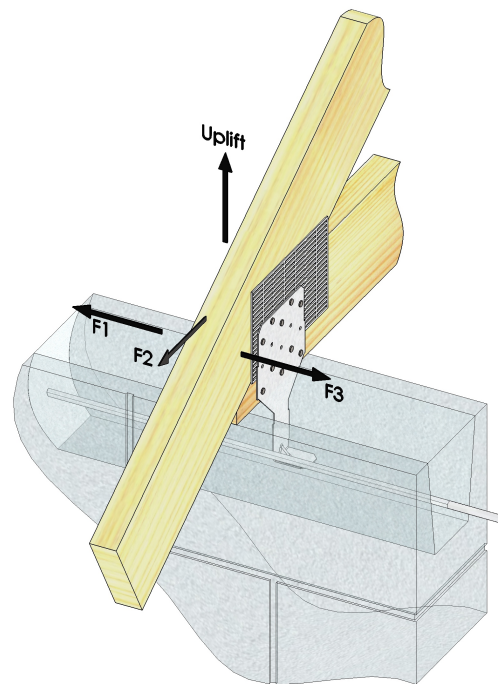


LPTA

LPTA EMBEDDED TRUSS ANCHOR INSTALLATION DETAIL



LPTA Parallel Application



LPTA Perpendicular Application