

FAUSTO GUERRERO ENGINEER.
19552 SW 133rd AVENUE
MIAMI, FL 33177
PH: (786) 443-1685
FL. P.E. # 50465

JOB: ADDITION & INT. REMODELING FOR RESIDENCE OF
OWNER/S: VANESSA SHAPIRO.
ADDRESS: 7901 SW 136th STREET.
PINECREST, FL 33156.

STRUCTURAL CALCULATIONS

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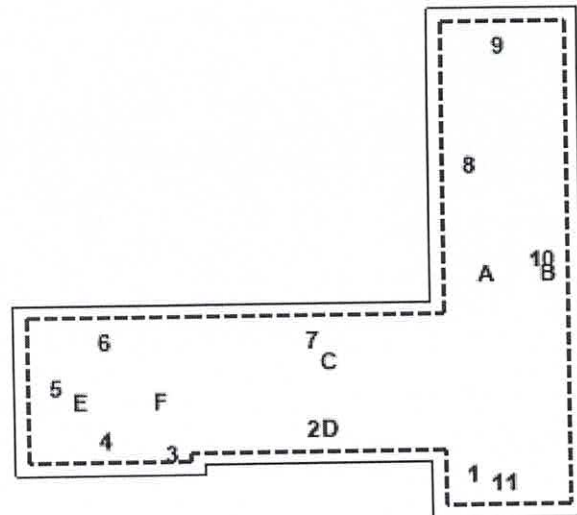
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ADDITION & INT. REMODELING FOR RESIDENCE

May 13, 2025

Title

Customer Name: VANESSA SHAPIRO
Address: 7901 SW 163th STREET, PINECREST, FL, 33156
Prepared By: FAUSTO GUERRERO ENGINEER FL. P.E. # 50465
Project Comments: WIND LOADS



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These calculations are derived from various editions of the ASCE 7 Standard (ASCE 7-98, ASCE 7-02, ASCE 7-05, ASCE 7-10, ASCE 7-16, ASCE7-22) to determine the minimum wind loads and performance goals for buildings, other structures and their nonstructural components that are subject to building code requirements. While the information presented by this program is believed to be correct, SDG, Inc. neither intends for this program to replace the sound judgment of a competent professional, having knowledge and experience in the relevant field(s) of practice, nor to substitute for the standard of care required of such a professional in interpreting and applying the results of the report provided by the WLS program.

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Signature / Stamp

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ADDITION & INT. REMODELING FOR RESIDENCE

May 13, 2025

Input

Site Information

Wind Dir.	Exposure
1	C
2	C
3	C
4	C

Basic Wind Speed: 175 mph
Topography: Flat

Optional Factors

This project uses load combinations from ASCE 7.

Structure Information

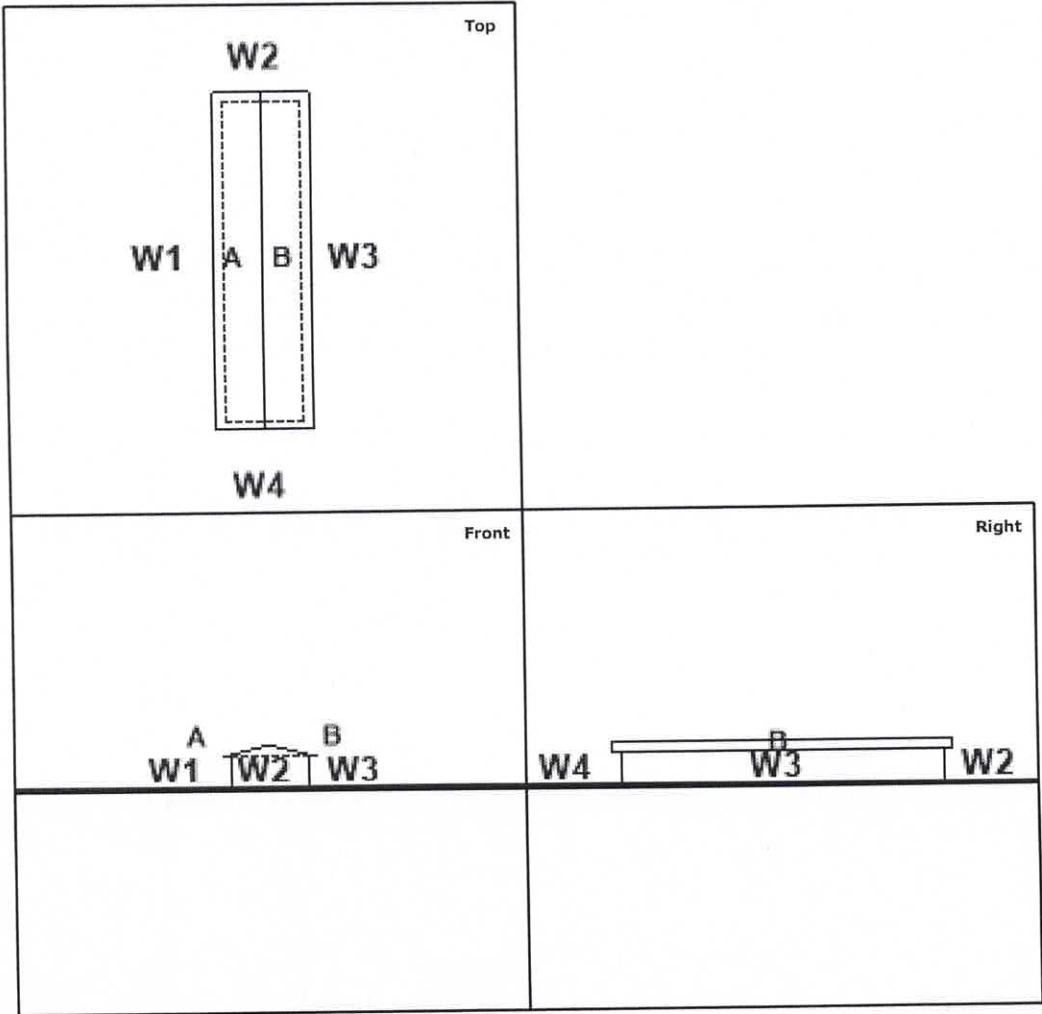
Structure Type: Building
Structure Category: II
Enclosure Classification: Enclosed

Main Section

Wall	Length (ft)	Overhang (ft)
1	74.4	2.00
2	18.0	2.00
3	74.4	2.00
4	18.0	2.00

Eave Height: 8.67 ft
Parapet Height: 0.00 ft
Parapet Enclosure: Solid
Roof Shape: Gabled

Roof	Slope (X:12)
A & B	3.00



Section 1

Connected to:Main Section

Connected to Wall:W1

Position on W1:45.1 ft

Wall	Length (ft)	Overhang (ft)
1	20.7	2.00
2	36.8	2.00
3	20.7	2.00
4	36.8	2.00

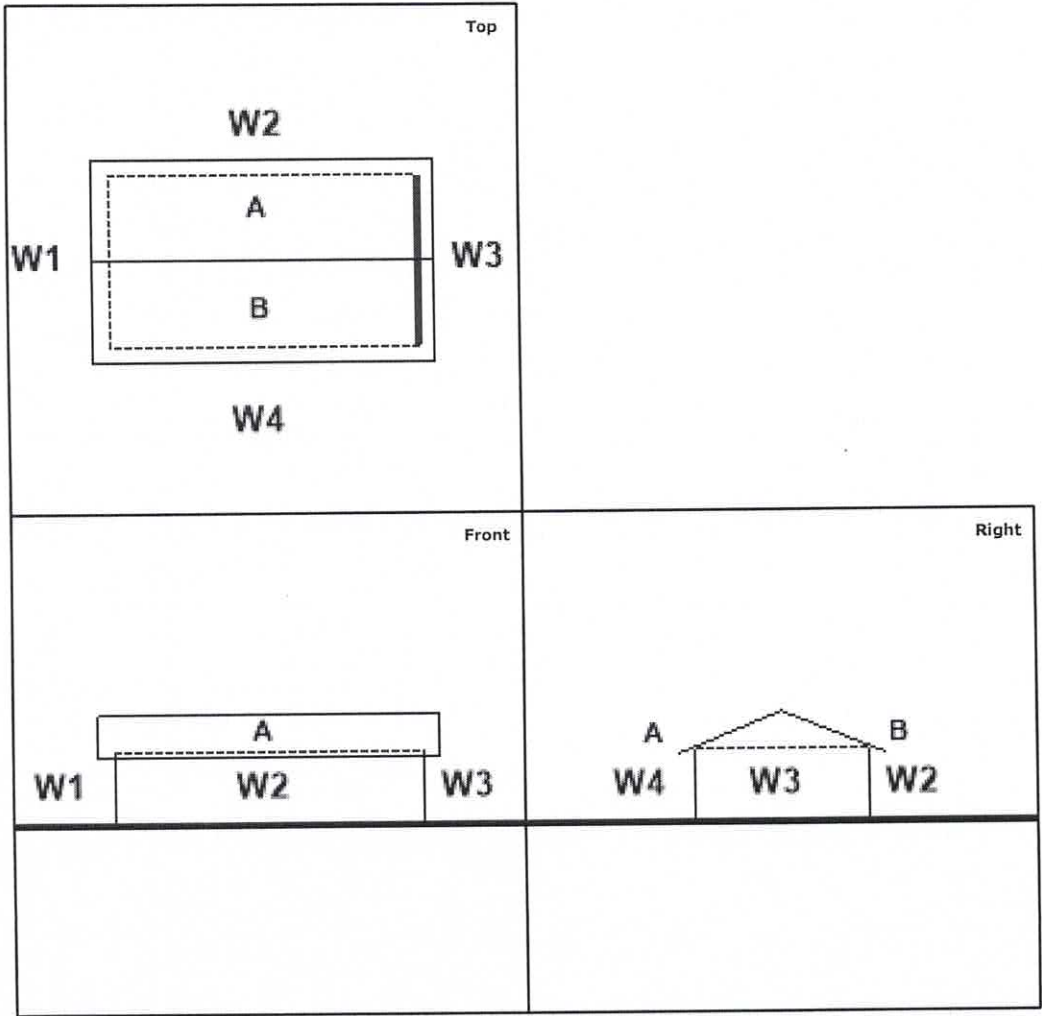
Eave Height:8.67 ft

Parapet Height:0.00 ft

Parapet Enclosure:Solid

Roof Shape:Gabled

Roof	Slope (X:12)
A & B	3.00



Section 2

Connected to:Section 1

Connected to Wall:W1

Position on W1:0.00 ft

Wall	Length (ft)	Overhang (ft)
1	22.1	2.00
2	23.4	2.00
3	22.1	2.00
4	23.4	2.00

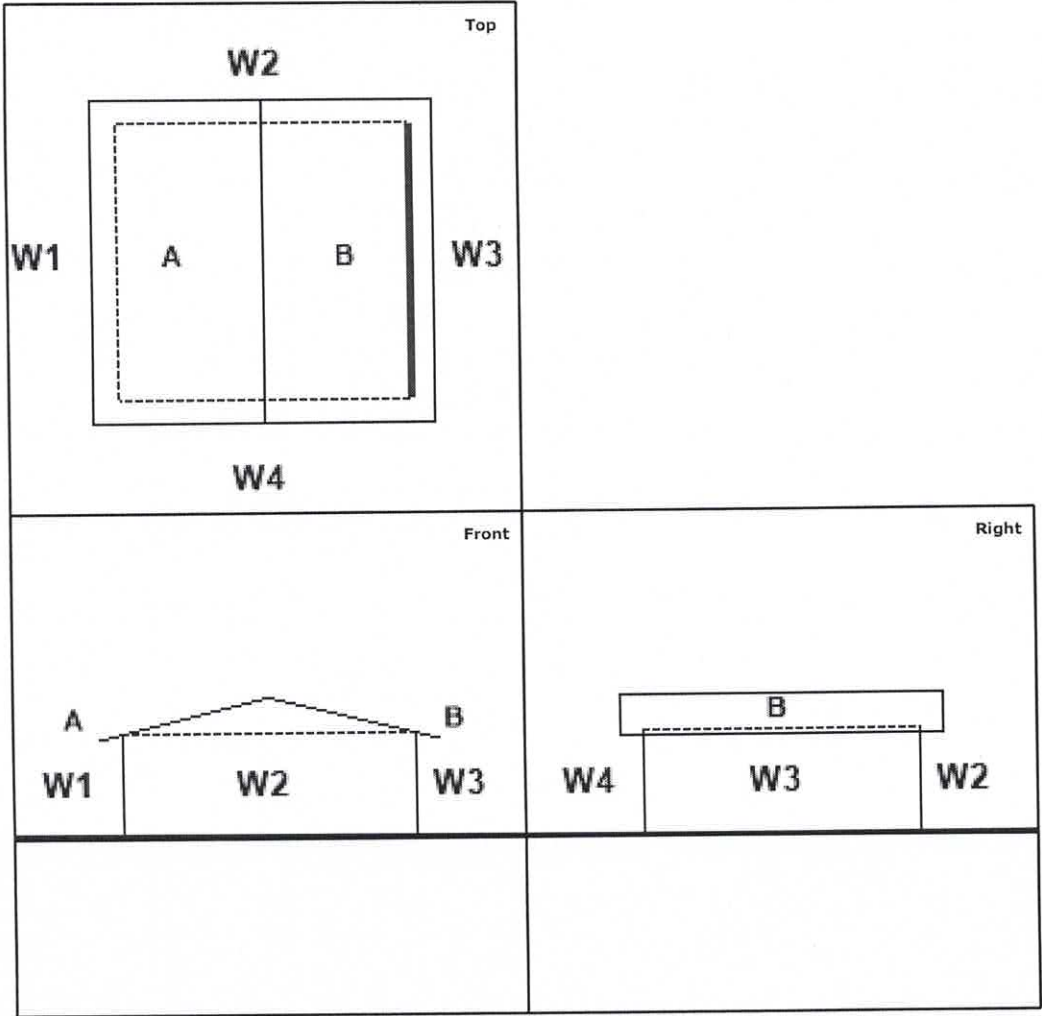
Eave Height:8.67 ft

Parapet Height:0.00 ft

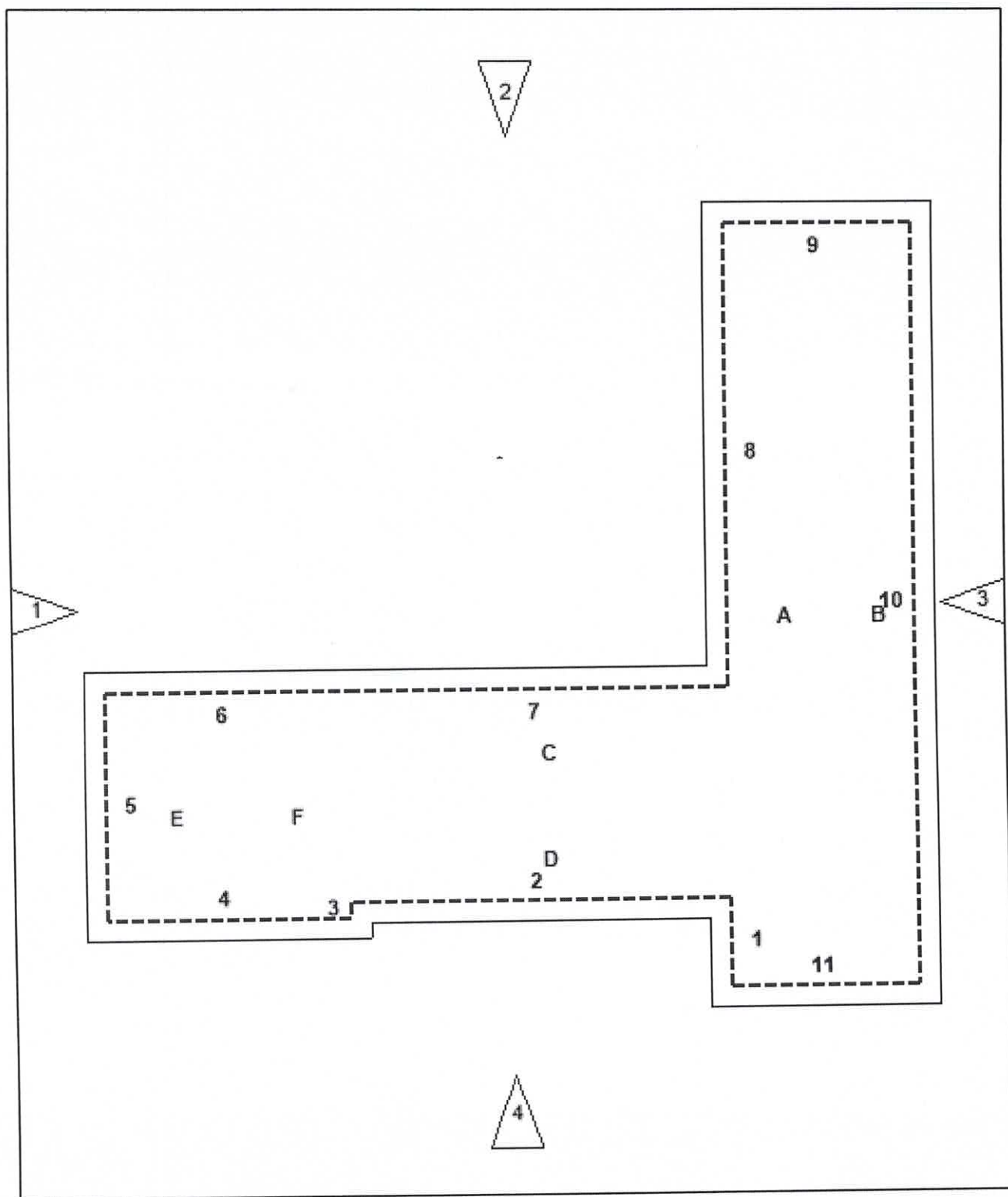
Parapet Enclosure:Solid

Roof Shape:Gabled

Roof	Slope (X:12)
A & B	3.00



Composite Drawing



ASCE 7-22 Wind Load Report

Components & Cladding

May 13, 2025

This data was calculated using the components and cladding method.

Component Description	Surface	Zone	z (ft)	q (psf)	GCp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
WOOD TRUSS	A	1	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-0.774		-43.9	-54.1	-33.7
			10.1	66.7	-1.56		-88.5		
		2	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-1.12		-63.6	-73.8	-53.4
			10.1	66.7	-1.91		-108		
		3	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-1.80		-102	-112	-91.8
			10.1	66.7	-2.59		-147		
GIRDER TRUSS	A	1	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-0.774		-43.9	-54.1	-33.7
			10.1	66.7	-1.56		-88.5		
		2	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-1.12		-63.6	-73.8	-53.4
			10.1	66.7	-1.91		-108		
		3	10.1	66.7	0.322	0.180	18.2	8.02	28.4
			10.1	66.7	-1.80		-102	-112	-91.8
			10.1	66.7	-2.59		-147		
END JACK	A	1	10.1	66.7	0.501	0.180	28.4	18.2	38.6
			10.1	66.7	-1.56		-88.6	-98.8	-78.4
			10.1	66.7	-2.49		-141		
		2	10.1	66.7	0.501	0.180	28.4	18.2	38.6
			10.1	66.7	-2.14		-121	-131	-111
			10.1	66.7	-3.06		-173		
		3	10.1	66.7	0.501	0.180	28.4	18.2	38.6
			10.1	66.7	-2.82		-160	-170	-150
			10.1	66.7	-3.75		-212		
CORNER JACK	A	1	10.1	66.7	0.431	0.180	24.4	14.2	34.6
			10.1	66.7	-1.26		-71.2	-81.4	-60.9
			10.1	66.7	-2.13		-120		
		2	10.1	66.7	0.431	0.180	24.4	14.2	34.6
			10.1	66.7	-1.74		-98.7	-109	-88.5
			10.1	66.7	-2.61		-148		
		3	10.1	66.7	0.431	0.180	24.4	14.2	34.6
			10.1	66.7	-2.28		-129	-139	-119
			10.1	66.7	-3.15		-179		
GROSS PRESSURES	B	1	10.1	66.7	0.600	0.180	34.0	23.8	44.2
			10.1	66.7	-2.00		-113	-123	-103
			10.1	66.7	-3.00		-170		
		2	10.1	66.7	0.600	0.180	34.0	23.8	44.2
			10.1	66.7	-2.70		-153	-163	-143
			10.1	66.7	-3.70		-210		
		3	10.1	66.7	0.600	0.180	34.0	23.8	44.2
			10.1	66.7	-3.60		-204	-214	-194
			10.1	66.7	-4.60		-261		

ASCE 7-22 Wind Load Report

Components & Cladding

8/46
May 13, 2025

This data was calculated using the components and cladding method.

Component Description	Surface	Zone	z (ft)	q (psf)	GCp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
BLOCK WALL	9	4	10.1	66.7	0.930	0.180	52.7	42.5	62.9
			10.1	66.7	-1.03		-58.4	-68.6	-48.2
		5	10.1	66.7	0.930		52.7	42.5	62.9
			10.1	66.7	-1.26		-71.4	-81.6	-61.2

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FOR RESIDENCE
Owner/s: VANESSA SHAPIRO
Date : 05/14/2025

LOAD COMB. FACTOR = 0.6WIND + 0.6DL⁰

Wind Factor:	0.6			
<u>GROSS PRESSURES:</u>	Z - 1	- 123.00	x 0.6 = - 73.8	PSF
	Z - 2	- 163.00	x 0.6 = - 97.8	PSF
	Z - 3	- 214.00	x 0.6 = - 128.4	PSF
 <u>BLOCK WALL:</u>				
	Z - 4	- 68.60	x 0.6 = - 41.16	PSF
	Z - 5	- 81.60	x 0.6 = - 48.96	PSF

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"a" Length.:

Load Analysis:

Dead Load:

Roof: Wood Trusses

Roof_{DL} := 30psf

Live Load:

Roof: Florida Building Code 2023 8th Edition
 Minimum Roof Live Loads - Roof w/ slope = 3":12"

Roof_{LL} := 30psf

Wind:

- Location Data:

Wind speed : $V = 175$ mph

Category Exposure : "C"

- Building Data:

Building Classification: "I"

Building: ENCLOSED

Mean Height: $H_{Bldg} := 8\text{ft} + 8\text{in}$

Roof Angle (0.25":12") $\theta_{rf} := 14.04\text{deg}$

"a" Calculation:

Least horizontal dimension :

$B_{horiz} := 18.00\text{ft}$

Wall height : $h_{wall} := 8.67\text{ft}$

```

a :=
  x1 ← 0.1 · Bhoriz
  x2 ← 0.4 · hwall
  x3 ← min(x1, x2)
  x4 ← 0.04 · Bhoriz
  x5 ← 3ft
  x6 ← max(x4, x5)
  x3 if x3 > x6
  x6 otherwise

```

$a = 3.0\text{ft}^{-1}\text{ft}$

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ROOF MEMBER: 22'-00" TRUSS

WIND LOAD AS PER ASCE 7/22 FOR MEAN ROOF ELEVATION LESS THAN 60 FEET

B = BUILDING MINIMUM WIDTH (FT) = 18.00

H = MEAN ROOF ELEVATION (FT) = 9.80

V= WIND VELOCITY (MPH) = 175

Kzt = TOPG. FACTOR = 1.00

EXPOSURE CATEGORY = C

TRIBUTARY WIDTH (FT) = 2.00

TRIBUTARY LENGTH (FT) = $\frac{\text{DIST/SUP}}{22.00} + \frac{\text{OVERHG}}{0} = 22.00$

TRIBUTARY AREA L X W (SF) = 44.00

TRIBUTARY AREA L X .3L (SF) = 145.20

FINAL TRIB. AREA (SF) = 145.20

ROOF GEOMETRY :

H (FT) = 3.00 L (FT) = 12.00

ROOF SLOPE (GR)= 14.03

Kz= EXPOSURE COEFFICIENTS 0.85 Kd = 0.85

V = VELOCITY PRESSURE = $0.00256 \times Kz \times Kzt \times V^2 = 66.64$ PSF

GCp COEFFICIENTS ZONE 1 = -0.80 ZONE 2 = -1.20

CPI COEFFICIENTS = + / - 0.18

DESIGN PRESSURE :

ZONE 1 : P 1 = -55.51 PSF

FINAL PRESSURE= -61.69 PSF

ZONE 2 : P 2 = -78.17 PSF

a = ZONE 2 EXTENSION (FT) = 3

SMALLER BETWEEN :
a=0.10 B= 1.8 AND
a=0.4 H = 3.92
= 1.8
BUT NOT LESS THAN :
4% OF B= 0.72 OR
3
= 3

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ROOF MEMBER: 22'-00" TRUSS

NOTE : Right supp. ; At end closest to overhang / Left supp. ; Opposite end

LOAD DATA

DLroof max = 10 PSF
DLsup = 20 PSF
LLroof = 30 PSF
WLroof = -61.69 PSF

DLroof min = 8 PSF

BEAM GEOMETRY

DIST. BETWEEN SUPPORTS= 22.00 FT
OVERHANG @ RIGHT END = 0 FT
SPACING = 2.00 FT

LOAD COMB. FACTOR = 0.60

LOAD COMBINATION DLroof+DLsup+LL

W = 120 PLF

R1 @ LEFT END = 1320.00 POUNDS

R2 @ RIGHT END = 1320.00 POUNDS

LOAD COMBINATION DLroof+WL

W = -58.03 PLF

R1 @ LEFT END = -638.31 POUNDS

R2 @ RIGHT END = -638.31 POUNDS

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ROOF MEMBER: 22'-00" GIRDER TRUSS.

WIND LOAD AS PER ASCE 7/22 FOR MEAN ROOF ELEVATION LESS THAN 60 FEET

B = BUILDING MINIMUM WIDTH (FT) = 18.00

H = MEAN ROOF ELEVATION (FT) = 9.80

V= WIND VELOCITY (MPH) = 175

Kzt = TOPG. FACTOR = 1.00

EXPOSURE CATEGORY = C
DIST/SUP OVERHG
TRIBUTARY LENGTH (FT) = 22.00 + 0 = 22.00

TRIBUTARY WIDTH (FT) = 3.5 + 1.0 = 4.50

FINAL TRIB. AREA (SF) = 99.00

ROOF GEOMETRY :

H (FT) = 3.00 L (FT) = 12.00

ROOF SLOPE (GR)= 14.03

Kz= EXPOSURE COEFFICIENTS 0.85 Kd = 0.85

V = VELOCITY PRESSURE = $0.00256 \times Kz \times Kzt \times V^2 =$ 66.64 PSF

GCp*Kd COEFFIC.= -0.91

CPI COEFFIC. = + / - 0.18

DESIGN PRESSURE :

P = -72.60 PSF

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ROOF MEMBER: 22'-00" GIRDER TRUSS.

Project : ADDITION & INT. REMODELING
FOR RESIDENCE

Owner/s : VANESSA SHAPIRO.

Date : 05/15/2025

14/46

NOTE : Right supp. ; At end closest to overhang / Left supp. ; Opposite end

LOAD DATA

DLroof max = 10 PSF

DLsup = 20 PSF

LLroof = 30 PSF

WLroof = -72.60 PSF

DLroof min = 8 PSF

BEAM GEOMETRY

DIST. BETWEEN SUPPORTS= 22.00 FT

OVERHANG @ RIGHT END = 0 FT

SPACING = 4.50 FT

LOAD COMB. FACTOR = 0.60

LOAD COMBINATION DLroof+DLsup+LL

W = 270 PLF

R1 @ GIRDER END = 2,970.00 POUNDS

R2 @ TIE BM END = 2,970.00 POUNDS

LOAD COMBINATION DLroof+WL

W = -160.032 PLF

R1 @ GIRDER END = -1,760.35 POUNDS

R2 @ TIE BM END = -1,760.35 POUNDS

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Owner/s : VANESSA SHAPIRO.
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ROOF MEMBER: 9' -0" OUTLOOKER

WIND LOAD AS PER ASCE 7/22 FOR MEAN ROOF ELEVATION LESS THAN 60 FEET

B = BUILDING MINIMUM WIDTH (FT) = 18.00

H = MEAN ROOF ELEVATION (FT) = 9.80

V= WIND VELOCITY (MPH) = 175

Kzt = TOPG. FACTOR = 1.00

Kd = WIND DIRECT. FACTOR 0.85

EXPOSURE CATEGORY = C

TRIBUTARY WIDTH (FT) = 2.00

TRIBUTARY LENGTH (FT) = DIST/SUP + OVERHG = 9.00
7.00 2

TRIBUTARY AREA L X W (SF) = 18.00

TRIBUTARY AREA L X .3L (SF) = 24.30

FINAL TRIB. AREA (SF) = 24.30

ROOF GEOMETRY :

H (FT) = 0.25 L (FT) = 12.00

ROOF SLOPE (GR)= 1.19

Kz= EXPOSURE COEFFICIENTS 0.85

V = VELOCITY PRESSURE = $0.00256 \times Kz \times Kzt \times V^2 =$ 66.64 PSF

GCp COEFFICIENTS Zones 1,2 = -1.20

CPI COEFFICIENTS = + / - 0.18

DESIGN PRESSURE :

P = -78.17 PSF

FINAL PRESSURE= -78.17 PSF

a = ZONE 2 EXTENSION (FT) = 3

SMALLER BETWEEN : a=0.10 B= 1.8 AND
a=0.4 H = 3.92
= 1.8
BUT NOT LESS THAN : 4% OF B= 0.72 OR
3
= 3

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RAFTER SUPPORT REACTIONS (OUTLOOKER)

LOAD DATA

DLroof = 10.00 PSF
DLsup = 20.00 PSF
LLroof = 30.00 PSF
WLroof = -78.17 PSF

BEAM GEOMETRY

DIST. BETWEEN SUPPORTS= 7.00 FT
OVERHANG @ RIGHT END = 2.00 FT
SPACING = 2.00 FT

LOAD COMB. FACTOR = 0.60

SUPPORT REACTIONS AT EXISTING STRUCTURE

W g = 120 PLF
W u = -73.80 PLF

G @ LEFT END (AT EXIST. STRUCTURE) = **385.71** POUNDS

U @ LEFT END (AT EXIST. STRUCTURE) = **-237.22** POUNDS

SUPPORT REACTIONS AT NEW ROOF BEAM

W-G = 120 PLF
W-U = -73.80 PLF

G @ RIGHT END (AT NEW ROOF BEAM) = **694.29** POUNDS

U @ RIGHT END (AT NEW ROOF BEAM) = **-427.00** POUNDS

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ROOF MEMBER: 12' -09" DIAGONAL OUTLOOKER

WIND LOAD AS PER ASCE 7/22 FOR MEAN ROOF ELEVATION LESS THAN 60 FEET

B = BUILDING MINIMUM WIDTH (FT) = 18.00

H = MEAN ROOF ELEVATION (FT) = 9.80

V= WIND VELOCITY (MPH) = 175

Kzt = TOPG. FACTOR = 1.00

Kd = WIND DIRECT. FACTOR 0.85

EXPOSURE CATEGORY = C

TRIBUTARY WIDTH (FT) = 2.50

TRIBUTARY LENGTH (FT) = DIST/SUP + OVERHG = 12.75
9.92 2.83

TRIBUTARY AREA L X W (SF) = 31.88

TRIBUTARY AREA L X .3L (SF) = 48.77

FINAL TRIB. AREA (SF) = 48.77

ROOF GEOMETRY :

H (FT) = 0.25 L (FT) = 12.00

ROOF SLOPE (GR)= 1.19

Kz= EXPOSURE COEFFICIENTS 0.85

V = VELOCITY PRESSURE = $0.00256 \times Kz \times Kzt \times Kd \times V^2 =$ 56.64 PSF

GCp COEFFICIENTS Zones 1,2 = -1.20

CPI COEFFICIENTS = + / - 0.18

DESIGN PRESSURE :

P = -78.17 PSF

FINAL PRESSURE= -78.17 PSF

a = ZONE 2 EXTENSION (FT) = 3

SMALLER BETWEEN : a=0.10 B= 1.8 AND
a=0.4 H = 3.92
= 1.8
BUT NOT LESS THAN : 4% OF B= 0.72 OR
3
= 3

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RAFTER SUPPORT REACTIONS (DIGONAL OUTLOOKER)
LOAD DATA

DLroof = 10.00 PSF
DLsup = 20.00 PSF
LLroof = 30.00 PSF
WLroof = -78.17 PSF

BEAM GEOMETRY

DIST. BETWEEN SUPPORTS= 9.92 FT
OVERHANG @ RIGHT END = 2.83 FT
SPACING = 2.50 FT

LOAD COMB. FACTOR = 0.60

SUPPORT REACTIONS AT EXISTING STRUCTURE

W_g = 150 PLF
W_u = -92.25 PLF

G @ LEFT END (AT EXIST. STRUCTURE) = 683.45 POUNDS

U @ LEFT END (AT EXIST. STRUCTURE) = -420.34 POUNDS

SUPPORT REACTIONS AT NEW ROOF BEAM

W-G = 150 PLF
W-U = -92.25 PLF

G @ RIGHT END (AT NEW ROOF BEAM) = 1229.05 POUNDS

U @ RIGHT END (AT NEW ROOF BEAM) = -755.89 POUNDS

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	Zone 4	Zone 5
Wall- -->	Standar Wall (Enclosed):	
	Zone4 ₁ := 41.16psf	Zone5 ₁ := 48.96psf

Masonry Wall Design :

Standard Wall

Wall height between floor and Roof :	$H_{wall} := 8\text{ft} + 8\text{in}$	Tributary Length of Roof :	$L_{trib1} := 11\text{ft} + 0\text{in}$
	Wall Weight :	$w_{wall} := 65\text{psf}$	
- <u>Vertical load</u> :	Wall self-weight :	$sw_{wall} := w_{wall} \cdot (0.5 \cdot H_{wall})$	$sw_{wall} = 281.7\text{plf}$
	Dead load :	$w_{DL} := L_{trib1} \cdot \text{Roof}_{DL}$	$w_{DL} = 330\text{plf}$
	Live load :	$w_{LL} := L_{trib1} \cdot \text{Roof}_{LL}$	$w_{LL} = 330\text{plf}$
	Total load :	$w_{Tot} := sw_{wall} + w_{DL} + w_{LL}$	$w_{Tot} = 942\text{plf}$
- <u>Moments</u> :	Bending Moment : (due to wind)	$M_{wall} := 8^{-1} \cdot \text{Zone4}_1 \cdot H_{wall}^2$	$M_{wall} = 0.39 \frac{\text{Kip ft}}{\text{ft}}$

Masonry Geometric Section

Thickness of wall :	$t := 7.625\text{in}$	(Nominal Thickness of wall = 8 in.)
Thickness of flange :	$t_f := 1.25\text{in}$	
Distance comp. fiber to cent.reinf.	$d := 0.5 \cdot t$	$d = 3.81\text{in}$
Width oh section (max= 6t):	$b := 32\text{in}$	(Select bars spacing b"considering moment)
Equivalent solid thickness :	$t_{eq} := 4.9\text{in}$	for $t=8\text{ in}$ and $b = 32\text{ in}$
Wall's radius of gyration :	$r := t \cdot 12^{-0.5}$	$r = 2.2\text{ in}$
Modular ratio E_s / E_m :	$n := 25.8$	

FAUSTO GUERRERO ENGINEER
FL. P. E. # 50465
19552 SW 133rd AVENUE
MIAMI, FL. 33177
Ph. 786-443-1685.

Project: ADDITION & INT. REMODELING
FOR RESIDENCE
Owner: VANESSA SHAPIRO.
Date: 05/14/2025

- Masonry Stresses

Specified Compressive Strength of Masonry : partially grouted $f_m := 1500 \text{ psi}$

Specified tensile or compressive stress in reinforcement : $f_s := 24000 \text{ psi}$

Allowable Compressive Stress due Axial Load :

$$H_{cal_{wall}} := H_{wall}$$

For $h/r < 99$ slenderless limit formulae $H_{cal_{wall}} \cdot r^{-1} = 47$ $F_a := 0.25 f_m \left[1 - H_{cal_{wall}}^2 (140r)^{-2} \right]$ $F_a = 332 \text{ psi}$

Allowable Compressive Stress due Flexure :

$$F_b := 3^{-1} f_m \quad \text{Special inspection} \quad F_b = 500 \text{ psi}$$

Calculated Compressive Stress (f_a), axial load only :

$$f_{a,comp} := w_{Tot} (t_{eq})^{-1} \quad f_{a,comp} = 16.0 \text{ psi}$$

Compressed concrete section case - No tensioned steel

Available Compressive Stress due Flexure :

$$f_{b,avail} := \left(1.33 - \frac{f_{a,comp}}{F_a} \right) \cdot F_b \quad f_{b,avail} = 641 \text{ psi}$$

- Selecting reinforcement :

Estimate Reinforcement : $A_{s_{est}} := M_{wall} \cdot (f_s \cdot 0.89 \cdot d)^{-1}$ $A_{s_{est}} = 0.057 \frac{\text{in}^2}{\text{ft}}$

Proposed Reinforcement :

Bar := 5 $A_{s_{bar}} := \frac{\pi}{256.4} \cdot (\text{Bar} \cdot \text{in})^2$ $A_{s_{bar}} = 0.31 \text{ in}^2$ at $b = 32 \text{ in}$ $A_s := A_{s_{bar}} \cdot b^{-1}$ $A_s = 0.115 \frac{\text{in}^2}{\text{ft}}$

Reinforcing Ratio : $\rho := A_s \cdot b \cdot (b \cdot d)^{-1}$ $\rho = 0.0025$

Compression block location : $k := \sqrt{(n \cdot \rho)^2 + 2 \cdot n \cdot \rho} - n \cdot \rho$ $k = 0.3$
(for rectangular section)

Check Compression block : $k \cdot d = 1.1 \text{ in} > t_f = 1.3 \text{ in} \Rightarrow \text{design as T-beam}$

T-beam Design

Compression block location : $k := \left[\rho \cdot n + 0.5 \cdot \left(\frac{t_f}{d} \right)^2 \right] \cdot \left[\rho \cdot n + \left(\frac{t_f}{d} \right) \right]^{-1}$ $k = 0.3$
(for T-beam section)

Lever arm : $j := \left[6 - 6 \cdot \frac{t_f}{d} + 2 \cdot \left(\frac{t_f}{d} \right)^2 + \left(\frac{t_f}{d} \right)^3 \cdot \frac{\rho \cdot n}{2} \right] \cdot \left(6 - 3 \cdot \frac{t_f}{d} \right)^{-1}$ $j = 0.847$
(for T-beam section)

Resisting Moment : $\left\{ \begin{array}{l} M_s := A_s \cdot f_s \cdot j \cdot d \\ M_m := f_{b,avail} \cdot \left(1 - \frac{t_f}{2 \cdot k \cdot d} \right) \cdot t_f \cdot j \cdot d \end{array} \right.$ $M_s = 0.74 \frac{\text{Kip} \cdot \text{ft}}{\text{ft}}$
(Whichever is smaller) $M_m = 1.18 \frac{\text{Kip} \cdot \text{ft}}{\text{ft}}$

Checking : $M_{Resist} := \text{if}(M_m < M_s, M_m, M_s)$ $M_{Resist} = 0.74 \frac{\text{Kip} \cdot \text{ft}}{\text{ft}} > M_{wall} = 0.39 \frac{\text{Kip} \cdot \text{ft}}{\text{ft}} \Rightarrow \text{OK}$

MASONRY WALL REINFORCING - #5 Bar @ 32 in

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Owner: VANESSA SHAPIRO.
Date: 05/14/2025

Wall Footing 16" x 12" :

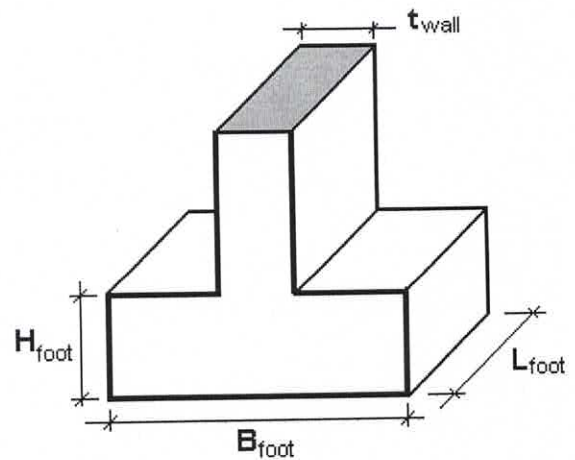
- General Data :

Allowable Bearing Soil Capacity: $\text{Soil}_{\text{allow}} := 2000\text{psf}$
Concrete strength : $f_c := 3000\text{psi}$
Reinforcing Steel: $f_y := 60000\text{psi}$

Masonry self-weight: $w_{\text{wall}} := 65\text{psf}$
Clear Rebar Cover : $\text{cov} := 3\text{in}$
 $w_c := 150\text{pcf}$

- Footing Dimensions :

Footing width : $B_{\text{foot}} := 16\text{in}$
Footing Length : $L_{\text{foot}} := 1\text{ft}$
(Considering unit length)
Footing Height : $H_{\text{foot}} := 12\text{in}$
Wall width : $t_{\text{wall}} := 8\text{in}$
Wall Total Height : $H_{\text{Tot}} := 9.67\text{ft}$
Wall Weight : $w_{\text{wall}} := 65\text{psf}$
Tributary Length: $L_{\text{Tri}} := 11.00\text{ft}$



- Loads Analysis :

	Dead Load	Live Load
Roof	$q_{R,DL} := \text{Roof}_{DL} L_{Tri}$ $q_{R,DL} = 330 \text{ plf}$	$q_{R,LL} := \text{Roof}_{LL} L_{Tri}$ $q_{R,LL} = 330 \text{ plf}$
Wall	$q_{W,DL} := H_{Tot} w_{\text{wall}}$ $q_{W,DL} = 628.6 \text{ plf}$	
Footing	$q_{F,DL} := w_c \cdot H_{\text{foot}} \cdot B_{\text{foot}}$ $q_{F,DL} = 200 \text{ plf}$	
	$q_{T,DL} := q_{R,DL} + q_{W,DL} + q_{F,DL}$ $q_{T,DL} = 1159 \text{ plf}$	$q_{T,LL} := q_{R,LL}$ $q_{T,LL} = 330 \text{ plf}$

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Service Load :	$Q_{serv} := q_{T.DL} + q_{T.LL}$	$Q_{serv} = 1489 \text{ plf}$
Factored Load :	$Q_{fact} := 1.2q_{T.DL} + 1.6q_{T.LL}$	$Q_{fact} = 1918 \text{ plf}$

- Minimum Width Footing Checking :

$$B_{min} := \frac{Q_{serv} \cdot (1\text{ft})}{\text{Soil}_{allow} \cdot L_{foot}}$$

$B_{min} = 0.74 \text{ ft} < B_{foot} = 1.33 \text{ ft}$

$\frac{B_{min}}{B_{foot}} = < 1$

$\frac{0.74}{1.33} = < 1$

- Concrete Shear Checking :

Factor Resistance : $\phi := 0.85$

Factored Shear :	$V_{u_{foot}} := Q_{fact} \cdot \left(\frac{B_{foot} - t_{wall}}{2} \right)$	$V_{u_{foot}} = 0.6 \text{ Kip}$
	$\phi V_{n_{foot}} := \left[\phi \cdot 2 \cdot \sqrt{f_c \cdot (\text{psi})} \cdot H_{foot} \cdot 1\text{ft} \right]$	$\phi V_{n_{foot}} = 13.4 \text{ Kip}$
$V_{u_{foot}} < \phi V_{n_{foot}} = 1$		IF =0, increase the depth of footing

Use WF-16"x12"
Footing Reinforcing
2-#5 cont. bottom



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

23/46

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Nu-Vue Industries, Inc.
1055 East 29th Street
Hialeah, FL 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series AB, NVSTA, NVHTA, NVTHJ, IKE, NVTT and NVHC-37 Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **JA-2029.3-23**, titled "SERIES AB, NVSTA, NVHTA, NVTHJ, IKE, NVTT AND NVHC-37 STEEL WOOD CONNECTORS", sheets 1 through 5 of 5, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 23-0221.06** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.2.

04/11/2024

NOA No. 24-0213.07
Expiration Date: May 22, 2028
Approval Date: April 11, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence Submitted Under Previous NOAs

A. DRAWINGS "Submitted under NOA #20-0901.05"

1. Drawing No. NU-1, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 08/18/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS "Submitted under NOA # 08-0325.02"

Test reports on wood connectors per ASTM D1761-88 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E.

	<u>Report No.</u>	<u>Wood Connector</u>	<u>Load Direction</u>	<u>Date</u>
1.	05-5195A	AB-5	F1 and F2	02/15/08
2.	05-5196A	AB-7	F1 and F2	02/15/08
3.	04-4995	NVTHJ-26	Upward	01/31/05
4.	04-4996	NVTHJ-28	Upward	01/31/05
5.	05-5612	IKE-1	Upward, L1 and L2	03/20/06
6.	06-5622	IKE-2	Upward, L1 and L2	05/01/06
7.	04-4908	NVTT	Upward and L1	07/21/04
8.	03-4631	NVTT	Upward and L1	06/21/04
9.	08-6711	NVHC-37	Upward, L1 and L2	03/14/08
10.	04-4641	NVSTA	Upward, L1 and L2	03/17/04
11.	04-4642	NVHTA	Upward, L1 and L2	03/22/04

C. CALCULATIONS "Submitted under NOA # 08-0325.02"

1. Shear value of common wire nails and steel plate tensile calculations, prepared by Vipin N. Tolat, P.E., Consulting Engineer, dated 03/20/2008, signed and sealed by Vipin N. Tolat, P.E.
2. Adjustment factor calculations per ASTM D7147, prepared by Vipin N. Tolat, P.E., Consulting Engineer, dated 03/06/2018, signed and sealed by Vipin N. Tolat, P.E.
"Submitted under NOA # 18-0312.06"

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC and no financial interest, dated 01/31/2013, signed and sealed by Vipin N. Tolat, P.E. "Submitted under NOA # 13-0206.17"
2. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC and of no financial interest, dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E. "Submitted under NOA # 17-0802.10"
3. Statement letter of code conformance to the 6th Edition (2017) and 7th Edition (2020) FBC and of no financial interest, dated 08/18/2020, signed and sealed by Vipin N. Tolat, P.E. "Submitted under NOA # 20-0901.05"

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.07
Expiration Date: May 22, 2028
Approval Date: April 11, 2024

25/46

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence Submitted under NOA # 23-0221.06 and newer

A. DRAWINGS

1. Drawing No. **JA-1958.3-22**, titled "NOA No. 20-0901.05 Revision", sheets 1 through 5 of 5, dated 01/05/2022, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 04/11/2023. *"Submitted under NOA # 23-0221.06"*
2. Drawing No. **JA-2029.3-23**, titled "SERIES AB, NVSTA, NVHTA, NVTHJ, IKE, NVTT AND NVHC-37 STEEL WOOD CONNECTORS", sheets 1 through 5 of 5, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024. *"Submitted under NOA # 24-0213.07"*

B. TESTS

1. None.

C. CALCULATIONS

1. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 04/11/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA # 23-0221.06"*
2. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA # 24-0213.07"*

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 7th Edition (2020) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 02/08/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA # 23-0221.06"*
2. Statement letter of code conformance to the 8th Edition (2023) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #24-0213.07"*



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.07
Expiration Date: May 22, 2028
Approval Date: April 11, 2024

NU-VUE INDUSTRIES, INC.

1055 EAST 29TH HIALEAH, FL 33013, TEL. 305-694-0397



JAYAD AHMAD PE, inc
 8800 NW 23rd St, Miami FL 33172
 Ph: (305) 424-8001
 support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FRAMING • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS
 Hialeah, FL 33013
 NU-VUE INDUSTRIES, INC.

drawing no. JA-2023-23
 date: 01/11/2024
 revision: 01/11/2024
 check by: BS
 drawn by: AG

drawing no. JA-2023-23
 date: 01/11/2024
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 check by: BS
 drawn by: AG

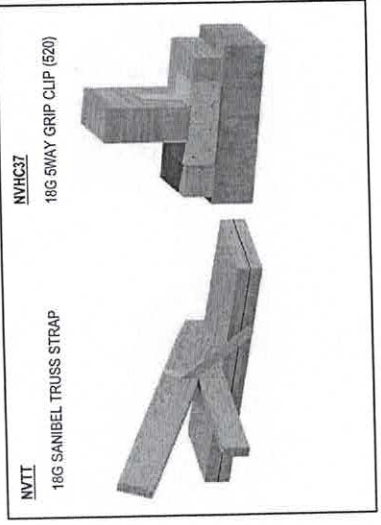
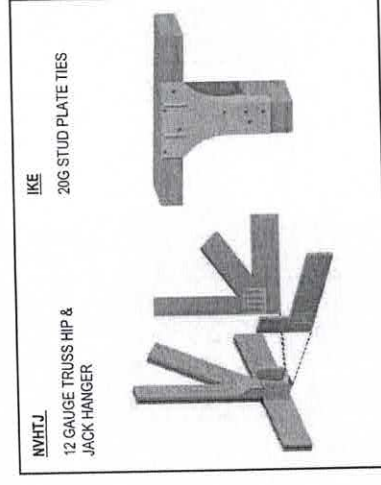
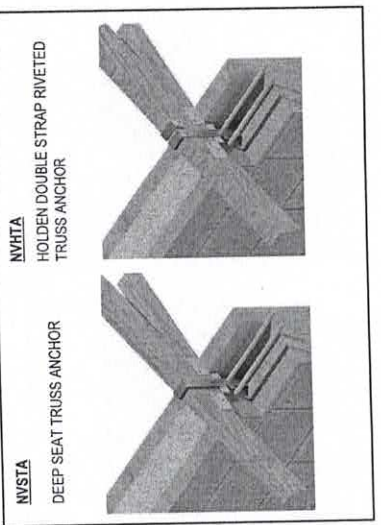
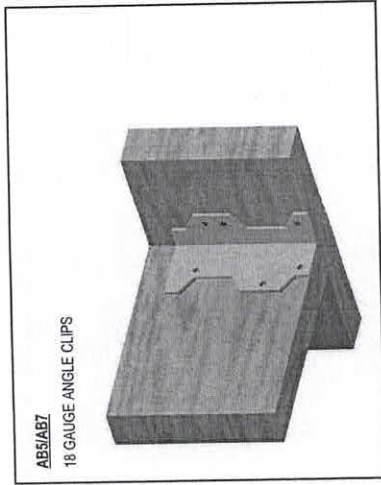
drawing no. JA-2023-23
 date: 01/11/2024
 revision: 01/11/2024
 check by: BS
 drawn by: AG

- GENERAL NOTES:**
- ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION 2018. ALLOWABLE LOADS FOR OTHER SPECIES OR CONDITIONS MUST BE ADJUSTED ACCORDING TO NDS 2018.
 - DESIGN LOADS ARE BASED ON SOUTHERN YELLOW PINE WOOD SPECIES WITH A SPECIFIC GRAVITY OF 0.45. ALLOWABLE LOADS FOR OTHER SPECIES OR CONDITIONS MUST BE ADJUSTED ACCORDING TO NDS 2018.
 - THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERSEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH CHANGES.
 - DESIGN LOADS DO NOT INCLUDE 10% INCREASE FOR STEEL AND CONCRETE.
 - ALLOWABLE UPLIFT LOADS HAVE BEEN ADJUSTED FOR LOAD DURATION FACTOR CD OF 1.6, APPLICABLE TO WIND AND EARTHQUAKE LOAD PER NDS 2018.
 - DESIGN CONFORMS TO 2023 EDITION OF FLORIDA BUILDING CODE AND NDS 2018.
 - COMBINED LOAD OF UPLIFT, L1 AND L2 SHALL SATISFY THE FOLLOWING EQUATION:

$$\frac{ACTUAL\ UPLIFT}{ALLOWABLE\ UPLIFT} + \frac{ACTUAL\ L1}{ALLOWABLE\ L1} + \frac{ACTUAL\ L2}{ALLOWABLE\ L2} \leq 1.0$$
 - ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D-1781.
 - THE DESIGN LOADS LISTED ARE BASED ON THE LEAST VALUE OF THE FOLLOWING:
 1. THE LOWEST ULTIMATE LOAD DIVIDED BY THREE.
 2. THE LOWEST LOAD PRODUCING 18" DEFLECTION.
 3. CALCULATIONS BASED ON NDS AND OTHER APPLICABLE CODES.

- REFERENCES:**
- ANSI 300-16
 - ANSI 300-16
 - FBC 2023
 - ACI 318-19

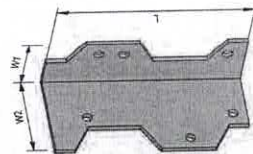
PRODUCT REVISED
 as complying with the Florida
 Building Code 24-0213.07
 NOA-No. 24-0213.07
 12-21-04
 -05'00"
 By: 
 Miami-Dade Product Control



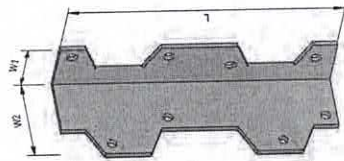
MATERIAL

- WOOD MEMBERS MUST BE S.P. NO. 1, SPECIFIC GRAVITY 0.45 OR AN APPROVED MEMBER WITH AN EQUIVALENT GRADE. DESIGN LOADS FOR OTHER SPECIES OR CONDITIONS MUST BE ADJUSTED PER NDS 2018. WOOD MEMBERS SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 1000 PSI. WOOD MEMBERS MUST BE USED UNDER CONTINUOUSLY DRY CONDITIONS AND WHERE SUSTAINED TEMPERATURES ARE LIMITED TO 100° F.
- PRESERVATIVE AND FIRE RETARDANT WOOD CONNECTORS OR FASTENERS USED IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE IN ACCORDANCE WITH SECTION 2304.10.5.
- ALL SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1667.
- STEEL SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1667. MATERIAL AND QUALITY OF MASONRY CONSTRUCTION MUST COMPLY WITH THE APPLICABLE SECTIONS OF THE FLORIDA BUILDING CODE.
- CONCRETE SHALL COMPLY WITH ASTM C96.
- CONCRETE SHALL COMPLY WITH ASTM C96. MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI.
- STEEL SHALL CONFORM TO ASTM A635 SS GRADE 316, MIN. YIELD 31 KSI, MIN. TENSILE STRENGTH 45 KSI AND MIN. GALVANIZED COATING OF G 60 PER ASTM A551.

18 GAUGE ANGLE CLIPS



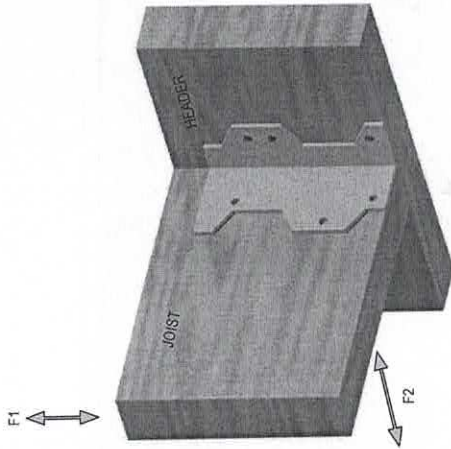
AB-5



AB-7

TABLE 1

18 GAUGE ANGLE CLIPS							
PRODUCT CODE	DIMENSIONS (in.)			FASTENER SCHEDULE		ALLOWABLE LOADS (lbs)	
	W1	W2	L	HEADER (10dx1-1/2")	JOIST (10dx1-1/2")	F1	F2
AB5	1-1/2	2-5/16	5	3	3	491	595
AB7	1-1/2	2-5/16	7	4	4	573	794



TYPICAL INSTALLATION

NOTES:

- SEE GENERAL NOTES, SHEET 1.
- NAIL WIDER ANGLE LEG TO JOIST AND SHORTER LEG TO HEADER.

PRODUCT REVISED
as complying with the Florida
Building Code **24-0213.07**
NOA-No. **202402.06**
Expiration Date **05/22/2028**

By *[Signature]*
Miami-Dade Product Control

Digitally
Signed
Javad Ahmad
01/11/2024
202402.06
12:22:52
-05'00'

2 2 OF 5

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NU-VUE INDUSTRIES, INC.
1055 East 29th Street
Hialeah, FL, 33013

SERIES AB, NVSTA, NVHTA, NVTHJ, IJE,
NVTT AND NVHC-37 STEEL WOOD
CONNECTORS

REVISION		No.	
DATE	DESCRIPTION	DATE	DESCRIPTION
01/11/2024	check by: ss		
01/11/2024	drawn by: ag		



27/46

NVSTA & NVHTA

DEEP SEAT TRUSS ANCHOR: THEY ARE DESIGNED TO RESIST LATERAL AND UPLIFT FORCES. THE STRAP IS MADE OF 14 GAUGE STEEL AND SEATS OF 20 GAUGE STEEL.

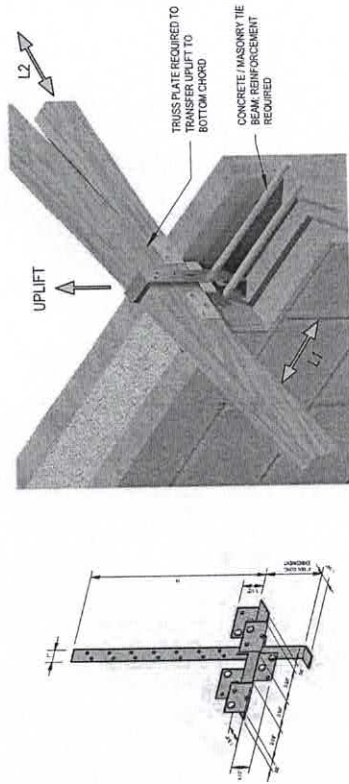


TABLE 2

ASSEMBLY PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAP 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)		
				UPLIFT*	L1*	L2*
NVSTA-12	12	5	6	1046	700	1049
NVSTA-16	16	6	6	1141	760	1144
NVSTA-20	20	7	6	1236	823	1239
NVSTA-22	22	8	6	1331	887	1335
NVSTA-24	24	9	6	1426	950	1430

HOLDEN DOUBLE STRAP RIVETED TRUSS ANCHOR: THEY ARE DESIGNED OF 14 GAUGE STEEL PLATES TO RESIST LATERAL AND UPLIFT FORCES. THE SEATS ARE MADE OF 20 GAUGE STEEL

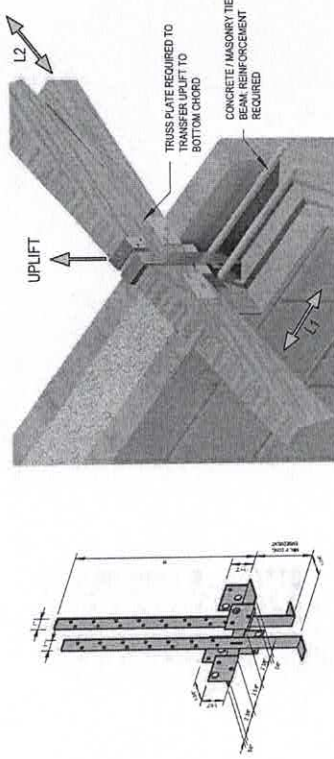


TABLE 3

ASSEMBLY PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAPS 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)		
				UPLIFT*	L1*	L2*
NVHTA-12	12	10	6	1506	1766	1450
NVHTA-16	16	12	6	1695	1987	1631
NVHTA-20	20	14	6	1883	2208	1812
NVHTA-22	22	16	6	2071	2429	1994
NVHTA-24	24	18	6	2259	2649	2175

NOTES:

1. NAILS ARE NECESSARY IN STRAPS AND SEAT TO ACHIEVE DESIGN LOADS.
2. NAILS THROUGH CHORDS SHALL NOT FORCE THE TRUSS PLATES.
3. *BASED ON MINIMUM 4000 PSI CONCRETE.
4. **FOR LOWER UPLIFT LOADS, CONCRETE SHALL BE 3000 PSI.
5. SEE GENERAL NOTES, SHEET 1

PRODUCT REVISED
as complying with the Florida
Building Code **24-0213.07**
NOA-No. **2024-06**
Expiration Date **05/22/2028**

By **Miami-Dade Product Control**

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com

SERIES AB, NVSTA, NVHTA, NVTH, IKE, NVTT AND NVHC-37 STEEL WOOD CONNECTORS

NU-VUE INDUSTRIES, INC.
1055 East 29th Street
Hialeah, FL 33013

drawing no.	JA-2029-3-23	drawn by:	AG
date:	01/11/2024	check by:	BS
REVISION			
#	DATE	BY	DESCRIPTION

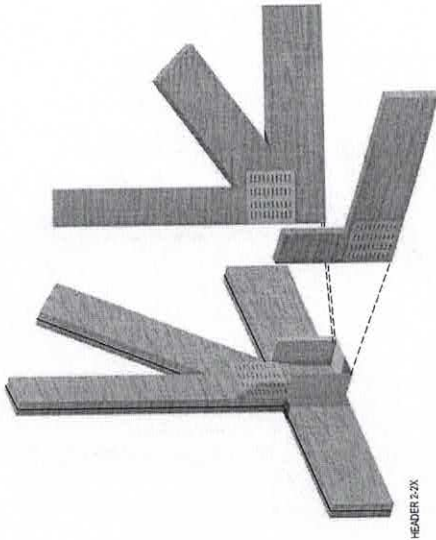
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Avhad Ahmad
05/05/2022
2024-06

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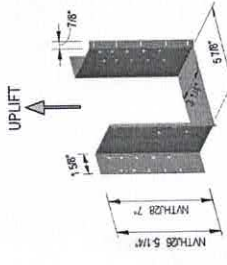
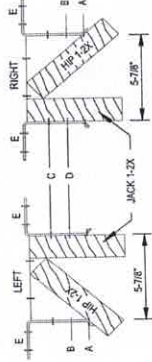
28/46

NVTHJ & IKE

12 GAUGE NVTHJ TRUSS HIP & JACK HANGER



NVTHJ-26 AS SHOWN
NVTHJ-28 SIMILAR



US PATENT NO. 4,964,253

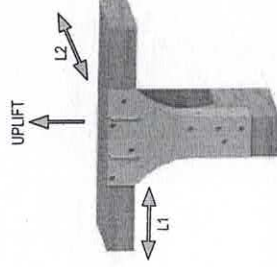
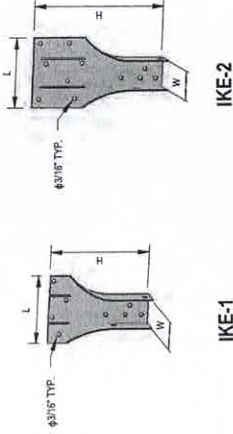
TABLE 4

PRODUCT CODE	NAIL SCHEDULE						ALLOWABLE LOADS (lbs)	
	HIP NAIL 10d			JACK NAIL 10d			HEADER NAILS 16d (E)	UPLIFT LOADS (lbs) S. PINE
	A	B	TOTAL	C	D	TOTAL		
NVTHJ26	4	3	7	2	3	5	16	1478
NVTHJ28	5	4	9	2	3	5	20	1931

NOTES:

- FOR 1-2X MEMBERS, 10d X 1-1/2" NAILS CAN BE USED
- SEE GENERAL NOTES, SHEET 1

20G STUD PLATE TIES



TYPICAL IKE-1 INSTALLATION

TABLE 5

PRODUCT CODE	DIMENSIONS (in.)			FASTENERS		ALLOWABLE LOADS (lbs.)		
	W	H	L	STUD	PLATE	UPLIFT	L1	L2
IKE 1	1-1/2	5	3-1/2	6-10d	4-10d	787	337	337
IKE 2	1-1/2	6-5/8	3-1/2	6-10d	7-10d	932	451	318

JAYAD AHMAD PE, inc
 8800 NW 23rd St, Miami FL 33172
 Ph: (305) 424-8001
 support@ja-pe.com

SERIES AB, NVSTA, NVHTA, NVTHJ, IKE, NVTT AND NVHC-37 STEEL WOOD CONNECTORS
NU-VUE INDUSTRIES, INC.
 1055 East 29th Street
 Hialeah, FL 33013

drawing no. JA-2023-23
 date: 01/11/2024
 drawn by: AS
 check by: BS
 REVISION
 NO. DATE BY DESCRIPTION

Digitally signed by Jayad Ahmad
 Building Code 24-0213.07
 NOA-No. 2024-02-06
 12/23/12 -05'00"

PRODUCT REVISED
 as complying with the Florida
 Building Code **24-0213.07**
 NOA-No. 2024-02-06
 Expiration Date **05/22/2028**
 By Miami-Dade Product Control

29/46

18 GAUGE NVHC 37 5WAY GRIP CLIP (520)

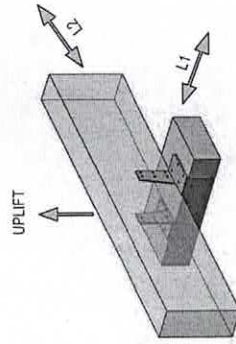
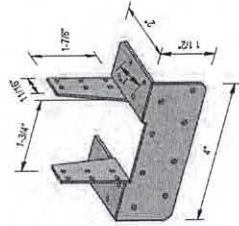


TABLE 7

PRODUCT CODE	DESCRIPTION	NAIL SCHEDULE		ALLOWABLE LOADS (lbs)		
		HEADER OR PLATE	JOIST OR STUD	UPLIFT	L1	L2
NV/HC 37	5 WAY CLIP	16-8d or 16-10d	12-8d or 12-10d	702	559	627

1. SEE GENERAL NOTES, SHEET 1
2. 1-1/8" X 1/2" NAIL IS PLACED ON EACH SIDE OF TRUSS AND 3-1/4" NAILS IN EACH LEG ARE PLACED IN TWO TOP PLATES
3. 3-1/4" DIA. X 1-1/2" LONG, 1-1/4" EMBED. TAPCONS ARE PLACED IN EACH LEG AND INTO HOLLOW CONCRETE MASONRY. MAINTAIN 2-1/2" EDGE DISTANCE FROM TOP OF THE BLOCK AND SPACING OF 3" BETWEEN THE TAPCONS
4. *DESIGN VALUE IS APPLICABLE FOR 8" OR GREATER CM MASONRY

Expiration Date 05/22/2028

By CP
Miami-Dade Product Control

TAPCONS
*DESIGN VALUE APPLICABLE FOR 8" OR GREATER CMU/MASONRY

By
Miami-Dade Product Control

1055 East 29th Street
Hialeah, FL 33013

drawing no.	JA-2029.3-23	drawn by:	AG																								
date:	01/11/2024	check by:	BS																								
<table border="1"> <tr> <th colspan="4">REVISION</th> </tr> <tr> <th>DATE</th> <th>BY</th> <th colspan="2">DESCRIPTION</th> </tr> <tr><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td colspan="2"> </td></tr> </table>				REVISION				DATE	BY	DESCRIPTION																	
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Digitally
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5	5 OF 5
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30/46



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

31/46

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Nu-Vue Industries, Inc.
1055 E. 29 Street
Hialeah, Florida 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series NVJH, NVTP/H, NVSO and NVHC Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **JA-2029.2-23**, titled "SERIES NVJH, NVTP/H, NVSO AND NVHC STEEL WOOD CONNECTORS", sheets 1 through 4 of 4, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: A permanent mark with the manufacturer's name, acronym or logo is to be located on each unit. A permanent label with the manufacturer's name or logo, city, state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each packaging carton.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises and renews NOA # 23-0314.04** and consists of this page 1 and evidence pages E-1, E-2, and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
04/11/2024

NOA No. 24-0213.09
Expiration Date: July 30, 2030
Approval Date: April 11, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS

1. Drawing No. **NU-3**, titled "NVJH Joist Supports, NVTP & NVTPH Plate Anchors, NVSO 236 Joist Hanger, NVHC 43 & NVHC 43/2 Hurricane Clip", sheets 1 through 3 of 3, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E. *"Submitted under NOA # 20-0610.01"*

B. TESTS *"Submitted under NOA # 03-0730.03"*

Test reports on wood connectors per ASTM D1761 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E.

	<u>Report No.</u>	<u>Wood Connector</u>	<u>Direction</u>	<u>Date</u>
1.	PT # 03-4303	NVTP4	Upward	04/21/03
2.	PT # 03-4343	NVTP4H	Upward	05/05/03
3.	PT # 03-4344	NVTP4	Upward	05/01/03
4.	PT # 03-4345	NVTP4H	Upward	05/02/03
5.	PT # 03-4349	NVSO236	Up & Down	05/19/03
6.	PT # 03-4357	NVSO236	Up & Down	05/20/03
7.	PT # 03-4358	NVJH24	Up & Down	05/30/03
8.	PT # 03-4385	NVJH26	Up & Down	05/30/03
9.	PT # 03-4386	NVSO236	Up & Down	05/13/03
10.	PT # 03-4387	NVJH28	Up & Down	05/30/03

C. CALCULATIONS *"Submitted under NOA # 05-0516.01"*

1. Report of Design Capacities, dated 07/13/2005, sheets 1 through 5 of 5, prepared, signed and sealed by Vipin N. Tolat, P.E.
2. Report of Design Capacities, dated 07/22/2003, sheets 1 through 13 of 13, prepared, signed and sealed by Vipin N. Tolat, P.E. *"Submitted under NOA # 03-0730.03"*
3. Verification calculations for compliance with the ASTM D7147-05 and ASTM D7147-11, prepared by Vipin N. Tolat, P.E. dated 05/17/2020, signed and sealed by Vipin N. Tolat, P.E. *"Submitted under NOA # 20-0610.01"*

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.09
Expiration Date: July 30, 2030
Approval Date: April 11, 2024

Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of code conformance to 2010 and 5th (2014) edition of the FBC, issued by Vipin N. Tolat, P.E., dated 04/29/2015, signed and sealed by Vipin N. Tolat, P.E.
2. Statement letter of code conformance, no financial interest and no change of product, dated 08/21/2008, issued, signed and sealed by Vipin N. Tolat, P.E.
"Submitted under NOA # 08-0828.02"
3. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E. *"Submitted under NOA # 17-0802.08"*
4. Statement letter of code conformance to the 6th Edition (2017) and the 7th Edition (2020) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 06/25/2020, signed and sealed by Vipin N. Tolat, P.E.
"Submitted under NOA # 20-0610.01"



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.09
Expiration Date: July 30, 2030
Approval Date: April 11, 2024

34/46

Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED NOA#23-0314.04 and newer

A. DRAWINGS

1. Drawing No. **JA-1958.2-22**, titled "NOA No. 20-0610.01 Revision", sheets 1 through 4 of 4, dated 02/28/2023, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 04/11/2023. *"Submitted under NOA # 23-0314.04"*
2. Drawing No. **JA-2029.2-23**, titled "SERIES NVJH, NVTP/H, NVSO AND NVHC STEEL WOOD CONNECTORS", sheets 1 through 4 of 4, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024. *"Submitted under NOA # 24-0213.09"*

B. TESTS

1. None.

C. CALCULATIONS

1. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 04/11/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA # 23-0314.04"*
2. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #24-0213.09"*

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 7th Edition (2020) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 03/01/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #23-0314.04"*
2. Statement letter of code conformance to the 8th Edition (2023) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #24-0213.09"*

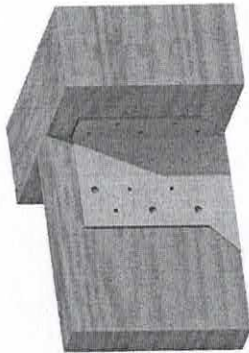


Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.09
Expiration Date: July 30, 2030
Approval Date: April 11, 2024

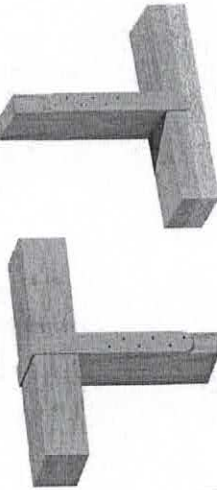
NU-VUE INDUSTRIES, INC.

1055 EAST 29TH HIALEAH, FL 33013, TEL. 305-694-0397

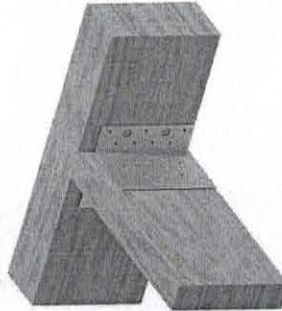
NVJH JOIST SUPPORTS



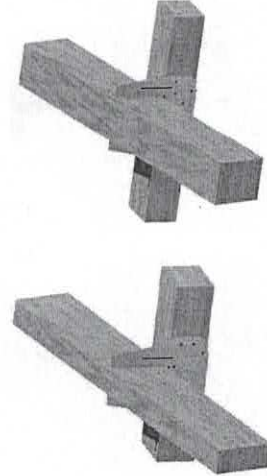
NVTP & NVTPH TOP PLATE ANCHORS



NVSO 236 FACE MOUNT JOIST HANGER



NVHC 43 & 43 1/2 HURRICANE CLIPS



GENERAL NOTES:

1. ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION.
2. ALLOWABLE LOADS ARE BASED ON SOUTHERN YELLOW PINE WOOD SPECIES WITH A SPECIFIC GRAVITY OF 0.55. ALLOWABLE LOADS FOR OTHER SPECIES OR CONDITIONS MUST BE ADJUSTED ACCORDING TO NDS 2018.
3. THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERSEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH.
4. DESIGN LOADS DO NOT INCLUDE 3% INCREASE FOR STEEL AND CONCRETE.
5. ALLOWABLE UPLIFT LOADS HAVE BEEN ADJUSTED FOR LOAD DURATION FACTOR CD OF 1.6, APPLICABLE TO WIND AND EARTHQUAKE LOAD PER NDS 2018.
6. DESIGN CONFORMS TO 2023 EDITION OF FLORIDA BUILDING CODE AND NDS 2018.
7. COMBINED LOAD OF UPLIFT, L1 AND L2 SHALL SATISFY THE FOLLOWING EQUATION.

$$\text{ACTUAL UPLIFT} + \text{ACTUAL L1} + \text{ACTUAL L2} \leq \text{ALLOWABLE L1} + \text{ALLOWABLE L2}$$
8. ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D-191.
9. THE DESIGN LOADS LISTED ARE BASED ON THE LEAST VALUE OF THE FOLLOWING:
 1. THE LOWEST UPLIFT LOAD DIVIDED BY THREE.
 2. THE LOWEST LOAD PRODUCING 1/8" DEFLECTION.
 3. CALCULATIONS BASED ON NDS AS AND OTHER APPLICABLE CODES.

REFERENCES:

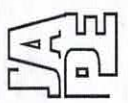
1. AISI 300-16
2. AISI 300-16
3. AISI 300-16
4. AISI 300-16

MATERIAL

1. WOOD
WOOD MEMBERS MUST BE S.P. NO. 1, SPECIFIC GRAVITY 0.55 OR AN APPROVED MEMBER WITH AN EQUIVALENT GRADE. DESIGN LOADS FOR OTHER SPECIES SHALL BE ADJUSTED PER NDS 2018. WOOD MEMBERS SHALL HAVE A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT. ALL WOOD SHALL BE STRUCTURAL ENGINEERED LUMBER. WOOD MEMBERS WITH REPAIRS OR KNOTS MUST BE CONTINUOUSLY DRY CONDITIONS AND FREE FROM DEFECTS. WOOD MEMBERS WITH REPAIRS OR KNOTS MUST BE CONTINUOUSLY DRY.
2. CONNECTORS OR FASTENERS USED IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE IN ACCORDANCE WITH SECTION 304.10.5.
3. NAILS
NAILS SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1687.
4. GROUT/MASONRY
GROUT/MASONRY SHALL BE USED TO SECURE THE CONNECTORS TO THE MASONRY. THE GROUT/MASONRY SHALL BE 2023 MINIMUM CONCRETE OR GROUT COMPRESSIVE STRENGTH SHALL BE 1500 PSI. CONCRETE MASONRY SHALL COMPLY WITH ASTM C90.
5. CONCRETE
MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI.
6. STEEL
STEEL SHALL CONFORM TO ASTM A563 S5 GRADE 33, MIN. YIELD 33 KSI, MIN. TENSILE STRENGTH 45 KSI AND MIN. GALVANIZED COATING OF G 60 PER ASTM A653.

PRODUCT REVISED
as complying with the Florida
Building Code **24-0213.09**
NOA-No. **24-0213.09**
Expiration Date **07/30/2030**

By 
Miami-Dade Product Control



JAYAD AHMAD PE, Inc

8800 NW 23rd St, Miami FL

Ph: (305) 424-8001

support@ja-pe.com

NU-VUE INDUSTRIES, INC

1055 East 29th Street

Hialeah, FL, 33013

SERIES NVJH, NVTP/H, NVSO AND NVHC

STEEL WOOD CONNECTORS

drawing no.		date:		revision	
JA-2029-23	01/11/2024	check by:	drawn by:	date:	description
BVS	SV				



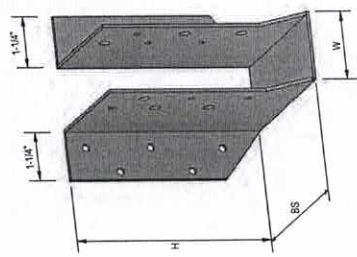
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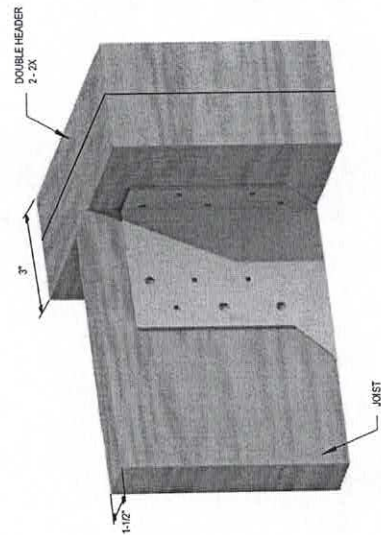
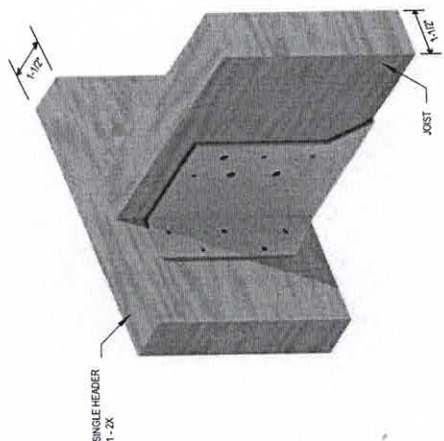
NVJH JOIST SUPPORTS

TABLE 1
JOIST SUPPORTS

18G NVJH JOIST SUPPORTS									
PRODUCT CODE	DIMENSIONS (in.)			JOIST SIZE	DOUBLE HEADER SIZE	SINGLE HEADER SIZE	FASTENERS		
	W	H	BS				DOUBLE HEADER	SINGLE HEADER	JOISTS
NVJH24	1-5/8	3-5/8	3	2x4 2x6	2 - 2x4 2 - 2x6	2x4 2x6	6 - 10d	6 - 10d x 1-1/2"	4 - 10d x 1-1/2"
NVJH26	1-5/8	5	3	2x6 2x8	2 - 2x6 2 - 2x8	2x6 2x8	10 - 10d	10 - 10d x 1-1/2"	6 - 10d x 1-1/2"
NVJH28	1-5/8	6-3/4	3	2x8 2x10 2x12	2 - 2x8 2 - 2x10 2 - 2x12	2x8 2x10 2x12	14 - 10d	14 - 10d x 1-1/2"	7 - 10d x 1-1/2"
							GRAVITY LOADS (100% LOADS)		UPLIFT LOADS (160% LOADS)
							DOUBLE HEADER	SINGLE HEADER	SINGLE & DOUBLE HEADERS
							744	744	-
							1240	1240	821
							1736	1736	1079



NVJH 26 AS SHOWN
NVJH 24 & 28 SIMILAR BUT
WITH DIFFERENT HOLES



NOTES:

- SEE GENERAL NOTES, SHEET 1.

PRODUCT REVISED
as complying with the Florida
Building Code **24-0213.09**
NOA-No. **20240206**
Expiration Date **07/30/2030**
By **Miami-Dade Product Control**

JAYAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FRACKERS • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

NU-VUE INDUSTRIES, INC
1055 East 29th Street
Hialeah, FL 33013

SERIES NVJH, NVTP/H, NVSO AND NVHC
STEEL WOOD CONNECTORS

REV	DATE	BY	DESCRIPTION

drawing no. **JA-2029.2-23** drawn by: **BVS** check by: **BS** date: **01/11/2024**

REVISION

Digitally signed by Jayad Ahmad
DN: cn=Jayad Ahmad, o=JA PE, ou=Engineering, email=jayad.ahmad@ja-pe.com, c=US

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2 of **4**

36/46

NVTP/NVTPH & NVSO 236

TABLE 2
TOP PLATE ANCHORS NVTP & NVTPH

SIZE	PRODUCT CODE	GAUGE	DIMENSIONS (in.)	
			A	B
2x4 / 4x4	NVTP4	20	3-5/8"	8"
2x6 / 4x6	NVTP6	20	5-5/8"	8"
2x8 / 4x8	NVTP8	20	7-3/8"	8"
2x4 / 4x4	NVTP4H	18	3-5/8"	8"
2x6 / 4x6	NVTP6H	18	5-5/8"	8"
2x8 / 4x8	NVTP8H	18	7-3/8"	8"

PRODUCT CODE	*TOTAL NUMBER OF FASTENERS 10d x 1-1/2" MAX. UPLIFT CAPACITY (lbs.)			
	6	8	10	12
NVTP 4,6,8	828	1087	1346	1605
NVTP 4H, 6H, 8H	938	1207	1476	1745

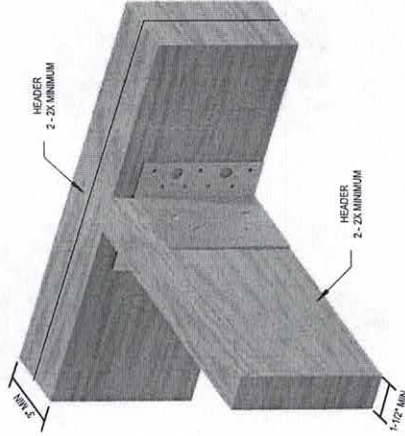
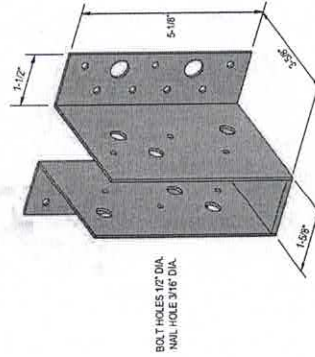
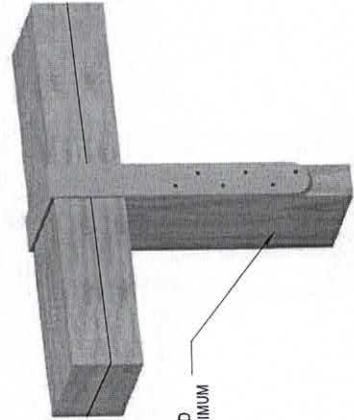
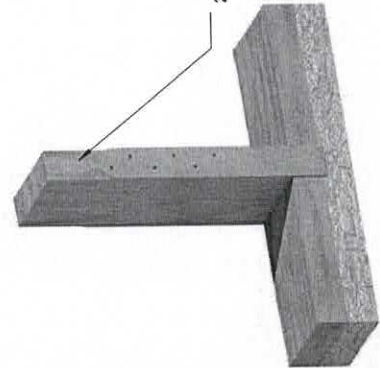
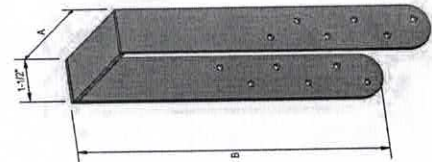


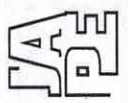
TABLE 3
NVSO 236, 16 GAUGE, HEAVY DUTY
FACE MOUNT JOIST HANGER

JOIST SIZE	HEADER SIZE	FASTENERS		ALLOWABLE LOADS (lbs.)	
		HEADER	JOIST	GRAVITY 100%	UPLIFT 160%
2x6 - 8	2 - 2x8 2 - 2x10 2 - 2x12	14-10d	6-10d	1688	1064
		14-16d	6-16d	1800	1228
	4 - 3/8" x 3" LAG SCREWS		6-16d	856	1168

NOTES:

- SEE GENERAL NOTES ON SHEET 1
- *ONE HALF OF ALL SPECIFIED FASTENERS SHALL BE USED ON EACH SIDE OF STUD TO ACHIEVE TABULATED VALUES.

PRODUCT REVISED
as complying with the Florida
Building Code **24-0213.09**
NOA-No.
Expiration Date **07/30/2030**
By **Miami-Dade Product Control**



JAYAD AHMAD PE, Inc
8800 NW 23rd St, Miami FL 33172
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NU-VUE INDUSTRIES, INC
1055 East 29th Street
Hialeah, FL 33013

Series NVJH, NVTPH, NVSO AND NVHC
STEEL WOOD CONNECTORS

drawing no. JA-2029-2-23
date: 01/11/2024
check by: SL
drawn by: BVS

REVISION

NO.	DATE	BY	DESCRIPTION

Digitally signed by Jayad Ahmad
DN: cn=Jayad Ahmad, o=JA PE, ou=Engineering, email=jayad.ahmad@ja-pe.com, c=US

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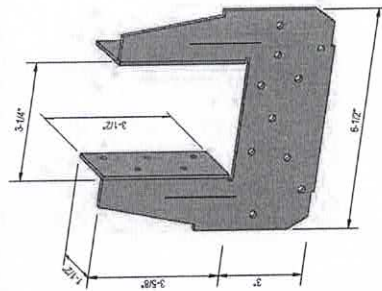
3 3 OF 4

37/46

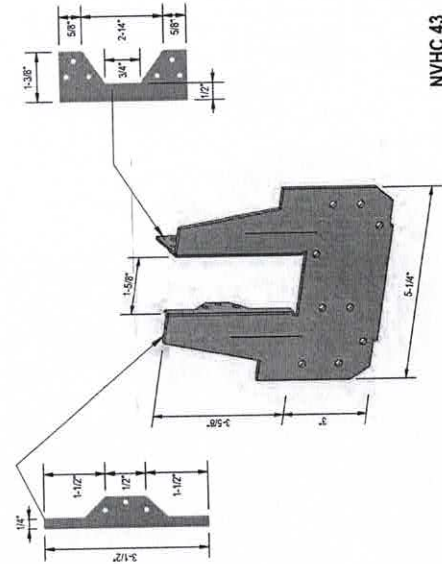
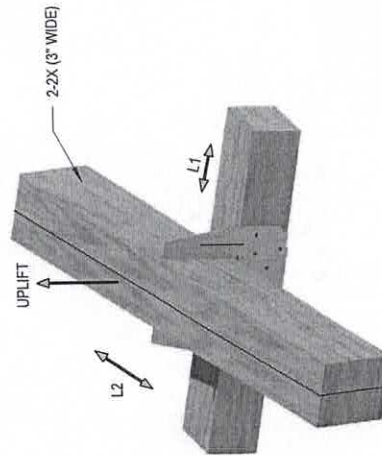
18G NVHC 43 & 43 1/2 HURRICANE CLIP

TABLE 4
18 GAUGE NVHC 43 & NVHC 43 1/2 HURRICANE CLIP

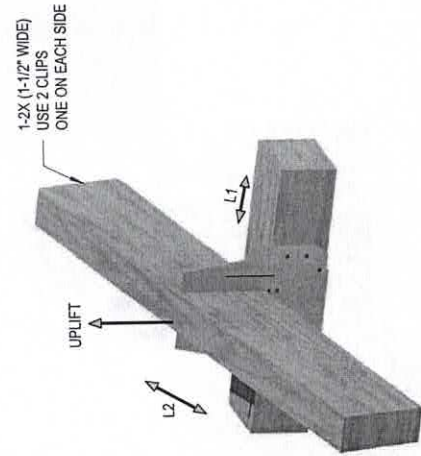
PRODUCT CODE	DESCRIPTION	FASTENERS		DESIGN LOADS (lbs.)		
		HEADER	JOIST	UPLIFT	L1	L2
NVHC 43	HURRICANE CLIP - WIDE	9-10d	9-10d	687*	407	308
NVHC 43 1/2	HURRICANE CLIP - WIDE x 2	10-10d	10-10d	917	547	432



NVHC 43 1/2



NVHC 43



NOTES:

- SEE GENERAL NOTES ON SHEET 1
- *FOR UPLIFT, USE TWO CLIPS, ONE ON EACH SIDE TO COMPLY WITH SECTION 2231.7 OF THE FBC

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0213.09
Expiration Date 07/30/2030

By Miami-Dade Product Control

JAYAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
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CONSULTING • STRUCTURAL DESIGN • PACKAGES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

NU-VUE INDUSTRIES, INC
1055 East 29th Street
Hialeah, FL 33013

SERIES NVJH, NVTP/H, NVSO AND NVHC
STEEL WOOD CONNECTORS

No.	DATE	BY	DESCRIPTION		
REVISION					
date:	01/11/2024	check by:	SU		
drawing no.	JA-2024-23	drawn by:	BVS		

Digitally
 Jayad Ahmad
Professional Engineer
No. 121456
Exp. 07/30/2030

38/46



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

39/46

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Nu-Vue Industries, Inc.
1055 East 29th Street
Hialeah, Florida 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series NVSNP, NV/NVTH, NVTHS, NVHC, NVSTA and NVHTA Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **JA-2029.1-23**, titled "SERIES NVSNP, NV/NVTH, NVTHS, NVHC, NVSTA AND NVHTA STEEL WOOD CONNECTORS", sheets 1 through 5 of 5, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: A permanent mark with the manufacturer's name, acronym or logo is to be located on each unit. A permanent label with the manufacturer's name or logo, city, state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each packaging carton.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # **23-0210.01** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
04/11/2024

NOA No. **24-0213.05**
Expiration Date: **July 30, 2030**
Approval Date: **April 11, 2024**
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS “Submitted under NOA #20-0526.05”

1. Drawing No. NU-5, titled “Skewed Nail Plate, NV358 & NV458 with Double NVTH Straps, NVTH/NVTHS Anchors & NVHC Hurricane Clips and NVSTA & NVHTA Heavy Duty Anchors with Seat”, sheets 1 through 4 of 4, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS “Submitted under NOA # 04-0510.03”

Test reports on wood connectors per ASTM D1761 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E.

	<u>Report No.</u>	<u>Wood Connector</u>	<u>Direction</u>	<u>Date</u>
1.	PT # 03-4482	NVSNP3	Downward	09/15/03
2.	PT # 03-4625	NVHCL/R	Up& Sideways	01/21/04
3.	PT # 04-4641	NVSTA-24H	Up& Sideways	03/17/04
4.	PT # 04-4698	NVTH24	Up& Sideways	04/15/04
5.	PT # 03-4590	NVTH26/NV458	Sideways	12/31/03
6.	PT # 04-4642	NVHTA-24H	Up& Sideways	03/22/04
7.	PT # 03-4543	NVTH20/NV358	Up& Sideways	12/19/03

C. CALCULATIONS”

1. Report of Design Capacities, dated 06/30/2009, sheets 1 through 12 of 12, prepared, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA # 09-0721.05
2. Report of Design Capacities dated 04/27/2004, sheet 1 through 12, prepared, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA # 04-0510.03”
3. Verification calculations for compliance with the ASTM D7147-05 and ASTM D7147-11, prepared by Vipin N. Tolat, P.E. dated 05/18/2020, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA #20-0526.05”

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC, issued by Vipin N. Tolat, P.E., dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA #17-0802.07”
2. Statement letter of code conformance, no financial interest and no change of product, dated 07/08/2009, issued, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA # 09-0721.05”
3. Statement letter of code conformance to the 6th Edition (2017) and the 7th Edition (2020) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 06/25/2020, signed and sealed by Vipin N. Tolat, P.E. “Submitted under NOA #20-0526.05”


Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.05
Expiration Date: July 30, 2030
Approval Date: April 11, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED NOA#23-0210.01 and newer

A. DRAWINGS

1. Drawing No. **JA-1958.1-22**, titled "NOA No. 20-0526.05 Revision", sheets 1 through 5 of 5, dated 01/18/2023, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 04/11/2023. *"Submitted under NOA #23-0210.01"*
2. Drawing No. **JA-2029.1-23**, titled "NOA No. 20-0526.05 Revision", sheets 1 through 5 of 5, dated 01/11/2024, prepared by Javad Ahmad PE, Inc., signed and sealed by Javad Ahmad, P.E. on 02/06/2024. *"Submitted under NOA #24-0213.05"*

B. TESTS

1. None.

C. CALCULATIONS

1. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 04/11/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #23-0210.01"*
2. Allowable loads calculations, prepared by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #24-0213.05"*

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 7th Edition (2020) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 02/03/2023, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #23-0210.01"*
2. Statement letter of code conformance to the 8th Edition (2023) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. *"Submitted under NOA #24-0213.05"*



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.05
Expiration Date: July 30, 2030
Approval Date: April 11, 2024

NU-VUE INDUSTRIES, INC.

1055 EAST 29TH HIALEAH, FL 33013, TEL. 305-694-0397

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPES • SYSTEM DESIGN • PRODUCT APPROVALS

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Ph: (305) 424-8001

33172

8800 NW 23rd St, Miami FL

JAYAD AHMAD PE, Inc

1055 East 29th Street

Hialeah, FL, 33013

NU-VUE INDUSTRIES, INC

SERIES NVSNP, NV/NVTH, NVTHS, NVHCH, NVSTA AND NVHTA STEEL WOOD CONNECTORS

NVSNP 3

SKEWED NAIL PLATE

NV358 & NV458

18G SEATS WITH 14G NVTH STRAPS

NVHCR / NVHCL

HURRICANE CLIPS

NVTH / NVTHS

TRUSS ANCHORS AND RIVETED TRUSS ANCHORS

GENERAL NOTES:

- ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION 2018.
- DESIGN LOADS ARE BASED ON SOUTHERN YELLOW PINE WOOD SPECIES WITH A SPECIFIC GRAVITY OF 0.55. ALLOWABLE LOADS FOR OTHER SPECIES OR CONDITIONS MUST BE ADJUSTED ACCORDING TO NDS.
- THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERSEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH CHANGES.
- DESIGN LOADS DO NOT INCLUDE 35% INCREASE FOR STEEL AND CONCRETE.
- ALLOWABLE LOADS ARE BASED ON DESIGN LOADS FOR LONG DURATION FACTOR CD OF 1.6. APPLICABLE TO WIND AND EARTHQUAKE LOADS PER NDS 2018.
- DESIGN CONFORMS TO 2021 EDITION OF FLORIDA BUILDING CODE AND NDS 2018.
- COMBINED LOAD OF UPLIFT, U AND L2 SHALL SATISFY THE FOLLOWING EQUATION.
- $$\frac{ACTUAL\ UPLIFT}{ALLOWABLE\ UPLIFT} + \frac{ACTUAL\ L1}{ALLOWABLE\ L1} + \frac{ACTUAL\ L2}{ALLOWABLE\ L2} \leq 1.0$$
- ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D177.
- THE DESIGN LOADS LISTED IN THIS CATALOG ARE THE MINIMUM TEST VALUE OF THE FOLLOWING:
 - THE LOWEST LOAD PRODUCING 18" DEFLECTION.
 - THE LOWEST LOAD PRODUCING 18" DEFLECTION.
 - CALCULATIONS BASED ON NDS AISI AND OTHER APPLICABLE CODES.

REFERENCES:

- AISC 360-16
- AISI 5100-16
- FBC 2021
- ACI 318-19

PRODUCT REVISED

as complying with the Florida Building Code 24-0213.05

NOA-No. 24-0213.05

Expiration Date 07/30/2030

By

Miami-Dade Product Control

Digitally signed by Jayad Ahmad

DN: cn=Jayad Ahmad, o=NU-VUE INDUSTRIES, INC, email=jayad.ahmad@nu-vue.com

1233:59

-05'00'

REV	DATE	DESCRIPTION
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2	01/11/2024	drawn by: BS

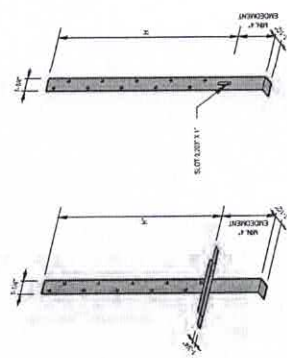
drawing no. 1A-2028-1-23

42/46

NVHCR/L & NVTH / NVTHS

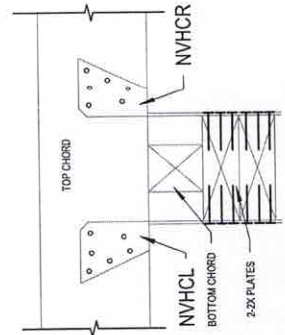
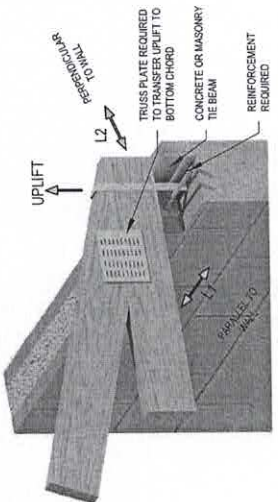
TABLE 4
HURRICANE CLIPS

PRODUCT CODE	DESCRIPTION	GAUGE	FASTENERS 10d X 1-1/2"				ALLOWABLE LOADS (lbs)		
			HEADER	JOIST	UPLIFT	L1	L2	L1	L2
NVHCR	HURRICANE CLIP - RIGHT	18	6	6	525	253	333		
NVHCL	HURRICANE CLIP - LEFT	18	6	6	525	253	333		



NVTH

TYPICAL NVTH/NVTHS INSTALLATION



CROSS-SECTION

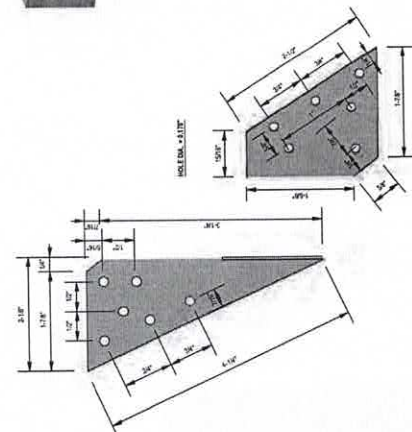
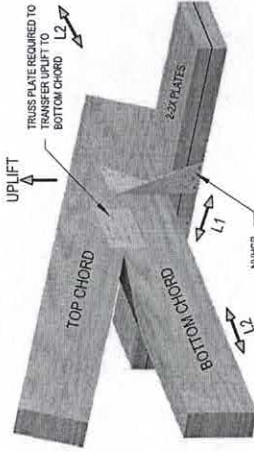


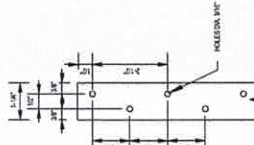
TABLE 5
TRUSS ANCHORS NVTH & RIVETED TRUSS ANCHORS WITH SEAT NVTHS

PRODUCT CODE	H	GAUGE		NO. OF FASTENERS IN EACH STRAP 10d X 1-1/2"	MAXIMUM UPLIFT LOADS (lbs)	
		LENGTH(IN)	SEAT STRAP		L1	L2
NVTH-16	12	18	14	5	1032	525
NVTH-18	14	18	14	6	1222	630
NVTH-20	16	18	14	7	1275	735
NVTH-22	18	18	14	8	1329	735
NVTH-24	20	18	14	9	1383	735
NVTH-26	22	18	14	10	1437	735
NVTH-28	24	18	14	11	1490	735
NVTH-30	26	18	14	12	1544	735
NVTH-36	32	18	14	13	1598	735
NVTH-48	44	18	14			



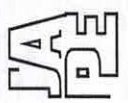
TYPICAL NVHCR/L INSTALLATION

NVTH, NVTHS FRONT VIEW



NOTES:

- SEE GENERAL NOTES, SHEET 1.
- FOR UPLIFT, USE TWO CLIPS, ONE ON EACH SIDE TO COMPLY WITH SECTION 2321.7 OF THE FBC



8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com

JAYAD AHMAD PE, inc

SERIES NVSNP, NV/NVTH, NVTHS, NVHCR, NVSTA AND NVHTA STEEL WOOD CONNECTORS

NU-VUE INDUSTRIES, INC
1055 East 29th Street
Hialeah, FL 33013

No.	DATE	BY	DESCRIPTION

REVISION

date: 01/11/2024
check by: BS
drawing no. JA-2024-1-23
drawn by: BVS

Digitally signed by Jayad Ahmad
as per Building Code 24-0213.05
NOA-No. 2024-02-06
12:34:41 -0500

4 4 OF 5

PRODUCT REVISED
as complying with the Florida
Building Code 24-0213.05
NOA-No. 2024-02-06
Expiration Date 07/30/2030
By Miami-Dade Product Control

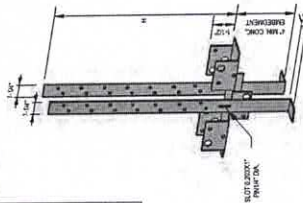
4/5/46

NVSTA & NVHTA

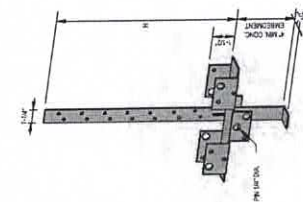
TABLE 6

NVSTA - HEAVY DUTY ANCHORS WITH 14G NVTH STRAPS AND 1 PLY 20G SEAT

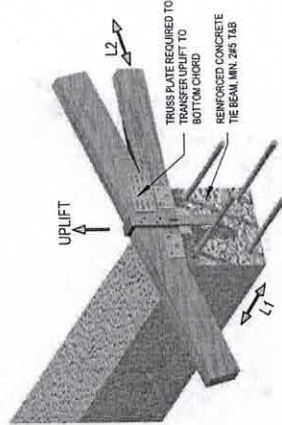
ASSEMBLY 14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAP 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)		
			UP LIFT*	L1*	L2*
NVSTA-12H	12	5	1308	700	1049
NVSTA-14H	14	6	1426	760	1144
NVSTA-16H	16	7	1545	823	1239
NVSTA-20H	20	8	1664	887	1335
NVSTA-22H	22	9	1783	950	1430



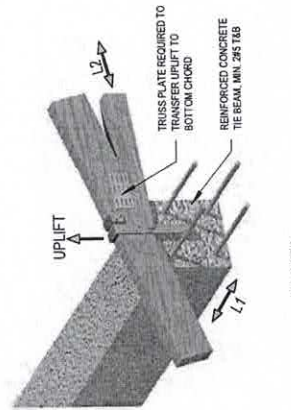
NVSTA WITH 14G DOUBLE NVTH STRAP



NVSTA WITH 14G SINGLE NVTH STRAP



NVSTA 12H TO 44H INSTALLATION

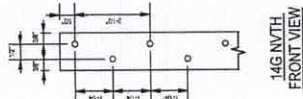


NVHTA 12H TO 44H INSTALLATION

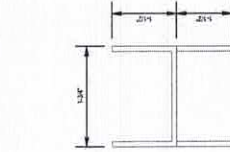
TABLE 7

NVHTA - HEAVY DUTY ANCHORS WITH 14G DOUBLE NVTH STRAPS AND 1 PLY 20G SEAT

ASSEMBLY 14G STRAP PRODUCT CODE	14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAP 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)		
					UP LIFT*	L1*	L2*
NVHTA-12H	NVTH16	12	10	6	1772	2078	1450
NVHTA-14H	NVTH18	14	12	6	1994	2338	1631
NVHTA-16H	NVTH20	16	14	6	2215	2598	1812
NVHTA-20H	NVTH24	20	16	6	2437	2858	1994
NVHTA-22H	NVTH26	22	18	6	2658	3117	2175



14G NVTH FRONT VIEW



20 GA SEAT SIDE VIEW

NOTES:

- SEE GENERAL NOTES, SHEET 1.
- NAILS ARE NECESSARY IN STRAPS AND SEAT TO ACHIEVE DESIGN LOADS.
- NAILS THROUGH CHORDS SHALL NOT FORCE THE TRUSS PLATE.
- *FOR HIGHER UPLIFT LOADS, CONCRETE SHALL BE 3000PSI.
- *BASED ON MINIMUM 2500 PSI CONCRETE.

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SERIES NVSNP, NV/NVTH, NVTHS, NVHC, NVSTA AND NVHTA STEEL WOOD CONNECTORS
NU-VUE INDUSTRIES, INC
 1055 East 29th Street
 Hialeah, FL 33013

REVISION		DATE	BY	DESCRIPTION
1	01/11/2024	check by:	BS	
2	01/11/2024	drawn by:	BVS	

Digitally signed by
Javad Ahmad
 DN: cn=Javad Ahmad, o=Javad Ahmad PE, inc, email=javad.ahmad@ja-pe.com, c=US
 2024.02.06 12:34:52 -0500