G2 Consulting Group, Inc.
JOAQUIN MONTESINO,P.E
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PH (786)2940032, Fax (786)2940032
Lic # 69969

BY:JM DATE12/17/24 SUBJECT:6783 RESIDENCE SHEET No.1OF
CHECK BY:JM DATE:12/1724 PINECREST, FLORIDA JOB #:2001

CALCULATION TITLE SHEET

Job Name : INTERIOR REMODELING

Client :
6783 SW 104TH ST.
PINECREST, FLORIDA 33156

Job Type : RESIDENTIAL

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by JOAQUIN MONTESINO
Date: 2024.12.17 12:28:35 -05'00'

Building Code : .F.B.C.-2023-8TH Edition

Building Dept : VILLAGE OF PINECREST

The undersigned hereby certifies that the enclosed structural calculations were prepared either by myself or under my direct supervision. For the computer runs, if any, input was prepared and the output data analyzed and interpreted in the same manner prior preparation of the construction documents. Therefore, I accept professional responsibility for my interpretation of any computer outputs.

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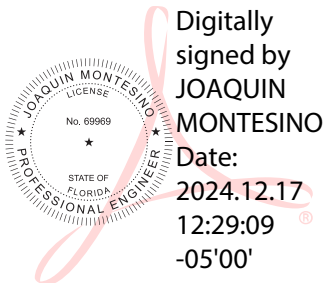
NOA'S



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Date: 2024.12.17 12:29:09 -05'00'

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Job: 6786
Sheet No:_____ of____
Calcul by: JM Date:10/14/24
Checked by JM: Date:10/14/24

WIND LOADS PER ASCE7-22

EXPOSURE :C Roof angle: (0 Deg.) **< θ < =** (7 deg)

Roof angle: $slope := \frac{2}{12}$ $\theta := \operatorname{atan}(slope)$ $\theta = 9.4623 \cdot deg$

$V := 175$ mph Mean hight $h := 16ft$

$\alpha := 9.8$ $Z_g := 2460$

Topographic Factor

$Kzt := 1.0$

Velocity pressure Exposure

$$Kz := \text{if}\left[(h < 15ft), \left[2.41 \cdot \left(\frac{15}{Z_g}\right)^{\frac{2}{\alpha}}\right], \left[2.41 \cdot \left(\frac{\frac{h}{ft}}{Z_g}\right)^{\frac{2}{\alpha}}\right]\right]$$ $Kz = 0.86$

Wind Directionality Factor

$Kd := 0.85$

Basic Velocity Pressure

$qh := \left[0.00256 \cdot Kz \cdot Kzt \cdot (V)^2\right] \cdot psf$

$qh = 67.62 \cdot psf$

Flat Roof

zone : 1',1

$A1j := 48ft^2$ $Gcpi := -0.18$

$$Gcp := \begin{cases} (-1.7) \text{ if } A1j \le 10ft^2 \\ \left(-1.8 + 0.100 \cdot \log\left(\frac{A1j}{ft^2}\right)\right) \text{ if } 10ft^2 \le A1j \le 100ft^2 \\ \left(-3.3168 + 0.8584 \cdot \log\left(\frac{A1j}{ft^2}\right)\right) \text{ if } 100ft^2 \le A1j \le 500ft^2 \end{cases}$$

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Checked by JM: Date:10/14/24

$Gcp = -1.6319$

$P1j := [qh \cdot Kd \cdot [Gcp - (-Gcpi)]] \cdot 0.6$ $P1j = -62.4803 \cdot psf$ (net wind pressure)

zone :2

$A2j := 48ft^2$

$$Gcp := \begin{cases} -2.3 & \text{if } A2j \le 10ft^2 \\ \left(-3.0063 + 0.7063 \cdot \log\left(\frac{A2j}{ft^2}\right)\right) & \text{if } 10ft^2 \le A1j \le 500ft^2 \\ (-1.1) & \text{if } A2j \ge 500ft^2 \end{cases}$$

$Gcp = -1.8188$

$P2j := [qh \cdot Kd \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P2j = -62.9275 \cdot psf$ (net wind pressure)

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zone :3

$A3j := 48ft^2$

$$Gcp := \begin{cases} -3.2 & \text{if } A3j \le 10ft^2 \\ \left(-4.4360 + 1.2360 \cdot \log\left(\frac{A3j}{ft^2}\right)\right) & \text{if } 10ft^2 \le A1j \le 500ft^2 \\ (-1.1) & \text{if } A3j \ge 500ft^2 \end{cases}$$

$Gcp = -2.358$

$P3j := [qh \cdot Kd \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P3j = -81.5193 \cdot psf$ (net wind pressure)

Wall Pressure for building h<60ft

Negative :zone4

$Gcpi := -0.18$

$A := \frac{(8.5ft)^2}{3}$ $A = 24.0833\ ft^2$

$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_4 = -1.0326$

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$p_4 := \left[qh \cdot Kd \cdot \left[Gcp_4 - (-Gcpi)\right]\right] \cdot 0.6$ $\quad p_4 = -41.815 \cdot psf$

Negative : zone5

$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_5 = -1.2652$

$p_5 := \left[qh \cdot Kd \cdot \left[Gcp_5 - (-Gcpi)\right]\right] \cdot 0.6$ $\quad p_5 = -49.8351 \cdot psf$

positive :zone4 & zone5

$A := \frac{(8.5ft)^2}{3}$ $\quad A = 24.0833\ ft^2$

$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_{4.5} = 0.9326$

$p_{4.5} := \left[qh \cdot Kd \cdot \left[Gcp_{4.5} + (-Gcpi)\right]\right] \cdot 0.6$ $\quad p_{4.5} = 38.3662 \cdot psf$

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window Pressures for building h<60ft

Negative :zone4

$A := 10ft^2$

$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_4 = -1.1$

$p_4 := 0.6 \cdot [qh \cdot Kd \cdot [Gcp_4 - (-Gcpi)]]$ $p_4 = -44.1392 \cdot psf$

Negative : zone5

$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_5 = -1.4$

$p_5 := 0.6 \cdot [qh \cdot Kd \cdot [Gcp_5 - (-Gcpi)]]$ $p_5 = -54.48 \cdot psf$

positive :zone4 & zone5

$A := 10ft^2$

$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_{4.5} = 1$

$p_{4.5} := 0.6 \cdot [qh \cdot Kd \cdot [Gcp_{4.5} + (-Gcpi)]]$ $p_{4.5} = 40.6908 \cdot psf$

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Door Pressures for building h<60ft

Negative :zone4

$A := 21ft^2$

$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_4 = -1.0431$

$p_4 := 0.6 \cdot \left[qh \cdot Kd \cdot \left[Gcp_4 - (-Gcpi)\right]\right]$ $p_4 = -42.1769 \cdot psf$

Negative : zone5

$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_5 = -1.2862$

$p_5 := 0.6 \cdot \left[qh \cdot Kd \cdot \left[Gcp_5 - (-Gcpi)\right]\right]$ $p_5 = -50.5598 \cdot psf$

positive :zone4 & zone5

$A := 21ft^2$

$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $Gcp_{4.5} = 0.9431$

$p_{4.5} := 0.6 \cdot \left[qh \cdot Kd \cdot \left[Gcp_{4.5} + (-Gcpi)\right]\right]$ $p_{4.5} = 38.7286 \cdot psf$

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Job:6786 Res
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Calc by:JM Date:9/29/24
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COMBINED AXIAL LOAD & BENDING COMPRESSION FOR MASONRY WALL:

VERTICAL LOADS : Wall : Zone 4

DEAD LOADS:

$DL := 450lbf$

ASCE7 – 22

ZONE4 :P=-41.9psf 8 " cmu

TRY : MASONRY WALL PARTIALLY GROUTED # 5 @48"

LIVE LOADS:

$LL := 0lbf$.

Maximun Calculated Axial Loads :

$P := DL + LL$

$P = 450 \cdot lbf$

Calculated Axial Stress:

$fa := \frac{P}{An}$ $An := 2 \cdot 1.25in \cdot 12in$

$An = 30 \cdot in^2$

$fa = 15 \cdot psi$

The Allowable Compression Stress is:

$f'm := 1500psi$ $h := 8.5ft$ $r := 2.66in$

$$Fa := .25 \cdot f'm \cdot \left[\left[1 - \left(\frac{h}{140 \cdot r} \right)^2 \right] \right]$$

$Fa = 346.867 \cdot psi$

Check Compressive Stress in Masonry

$$fb = \frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}$$

$b := 48in$

$d := 3.81in$

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Concrete Block: Block width: $h_{block} := \mathbf{7.625}in$

web thickness: $t_{web} := \mathbf{1}in$

Shell thickness: $t_{fs} := \mathbf{1.25}in$

Block cell width: $b_{cell} := 8in - 2 \cdot t_{web}$ $b_{cell} = 6 \cdot in$

Proposed spacing: $Spacing := 48in$ $No_R_Cell := 1$

Height of Wall: $h := 8.5ft$ $Ac := \left[(Spacing) \cdot t_{fs}\right] + \left[\left(\frac{h_{block}}{2} - t_{fs}\right) \cdot \left(b_{cell} + t_{web}\right)\right] \cdot No_R_Cell$

$Ac = 77.937 \cdot in^2$

$As := .31in^2$

$Es := 29000000psi$ $Em := 900 \cdot f'm$

$\rho := \frac{As}{Ac}$

$\rho = 3.978 \times 10^{-3}$

$n := \frac{Es}{Em}$

$n = 21.481$

$\rho \cdot n = 0.085$

$P := 41.9psf$

$w := Spacing \cdot P$

$w = 167.6 \cdot plf$ $l := 8.5ft$

$Mw := \frac{1}{8} \cdot w \cdot l^2$

$Mw = 1514 \cdot lbf \cdot ft$

$k := \sqrt{2 \cdot n \cdot \rho + (n \cdot \rho)^2} - n \cdot \rho$

$k = 0.337$

$j := 1 - \frac{k}{3}$ $Fb := \left(\frac{1}{3}\right) \cdot f'm$

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$j = 0.888$

$fb := \left(\frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}\right)$

$fb = 174.431 \cdot psi$

$Fb = 500 \cdot psi$

$\left(\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right)\right) = 0.392 \quad < 1.0$

$Check := if\left[\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right) > 1.0, "NO\ GOOD", "OK"\right]$

$Check = "OK"$

$\frac{fb}{Fb} = 0.349$

CHECK BARS TENSION

$M_w := \frac{1}{8} \cdot w_1 \cdot l^2$ $\quad w_1 := 41.9psf$ $\quad l := 8.5ft$ $\quad F_s := 24ksi$ $\quad d := 3.81in$

$M_w = 378 \cdot lbf \cdot \frac{ft}{ft}$

$A_{s'} := \frac{M_w}{j \cdot d \cdot F_s}$ $\quad A_{s'} = 0.056 \cdot \frac{in^2}{ft}$ $\quad A_s := .31in^2$

SPACING OF BARS

$S := \frac{A_s}{A_{s'}}$ $\quad S = 66.503 \cdot in$

Zone 4 :Used # 5 @ 48"

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Job:6786 Res
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Calc by:JM Date:9/29/24
Checked by:JM Date:9/29/24

COMBINED AXIAL LOAD & BENDING COMPRESSION FOR MASONRY WALL:

VERTICAL LOADS : Wall : Zone 5

DEAD LOADS:

$DL := 450lbf$

ASCE7 – 22

ZONE5 :P=-49.9psf 8 " cmu

TRY : MASONRY WALL PARTIALLY GROUTED # 5 @48"

LIVE LOADS:

$LL := 0lbf$.

Maximun Calculated Axial Loads :

$P := DL + LL$

$P = 450 \cdot lbf$

Calculated Axial Stress:

$fa := \frac{P}{An}$ $An := 2 \cdot 1.25in \cdot 12in$

$An = 30 \cdot in^2$

$fa = 15 \cdot psi$

The Allowable Compression Stress is:

$f'm := 1500psi$ $h := 8.5ft$ $r := 2.66in$

$$Fa := .25 \cdot f'm \cdot \left[\left[1 - \left(\frac{h}{140 \cdot r} \right)^2 \right] \right]$$

$Fa = 346.867 \cdot psi$

Check Compressive Stress in Masonry

$$fb = \frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}$$

$b := 48in$

$d := 3.81in$

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Checked by:JM Date:9/29/24

Concrete Block: Block width: $h_{block} := \mathbf{7.625}in$

web thickness: $t_{web} := \mathbf{1}in$

Shell thickness: $t_{fs} := \mathbf{1.25}in$

Block cell width: $b_{cell} := 8in - 2 \cdot t_{web}$ $b_{cell} = 6 \cdot in$

Proposed spacing: $Spacing := 48in$ $No_R_Cell := 1$

Height of Wall: $h := 8.5ft$ $Ac := \left[(Spacing) \cdot t_{fs}\right] + \left[\left(\frac{h_{block}}{2} - t_{fs}\right) \cdot \left(b_{cell} + t_{web}\right)\right] \cdot No_R_Cell$

$Ac = 77.937 \cdot in^2$

$As := .31in^2$

$Es := 29000000psi$ $Em := 900 \cdot f'm$

$\rho := \frac{As}{Ac}$

$\rho = 3.978 \times 10^{-3}$

$n := \frac{Es}{Em}$

$n = 21.481$

$\rho \cdot n = 0.085$

$P := 49.9psf$

$w := Spacing \cdot P$

$w = 199.6 \cdot plf$ $l := 8.5ft$

$Mw := \frac{1}{8} \cdot w \cdot l^2$

$Mw = 1803 \cdot lbf \cdot ft$

$k := \sqrt{2 \cdot n \cdot \rho + (n \cdot \rho)^2} - n \cdot \rho$

$k = 0.337$

$j := 1 - \frac{k}{3}$ $Fb := \left(\frac{1}{3}\right) \cdot f'm$

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Calc by:JM Date:9/29/24
Checked by:JM Date:9/29/24

$j = 0.888$

$fb := \left(\frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}\right)$

$fb = 207.735 \cdot psi$

$Fb = 500 \cdot psi$

$\left(\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right)\right) = 0.459 < 1.0$

$Check := if\left[\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right) > 1.0, "NO\ GOOD", "OK"\right]$

$Check = "OK"$

$\frac{fb}{Fb} = 0.415$

CHECK BARS TENSION

$M_w := \frac{1}{8} \cdot w_l \cdot l^2$ $w_l := 49.9psf$ $l := 8.5ft$ $F_s := 24ksi$ $d := 3.81in$

$M_w = 451 \cdot lbf \cdot \frac{ft}{ft}$

$A_{s'} := \frac{M_w}{j \cdot d \cdot F_s}$ $A_{s'} = 0.067 \cdot \frac{in^2}{ft}$ $A_s := .31in^2$

SPACING OF BARS

$S := \frac{A_s}{A_{s'}}$ $S = 55.841 \cdot in$

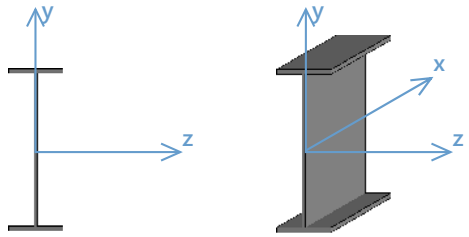
Zone 5 :Used # 5 @ 48"

Company : g2
Designer : jm
Job Number :
Model Name : DESIGN STL BM

12/13/2024
9:33:00 PM
Checked By : jm

Detail Report: M1

Load Combination: LC 1: dl+ll **Code check:** 0.441 (axial/bending)



Input Data

Shape:	W12X19	**I Node:**	N1
Member Type:	Beam	**J Node:**	N2
Length (ft):	14	**I Release:**	Fixed
Material Type:	Hot Rolled Steel	**J Release:**	Fixed
Design Rule:	Typical	**I Offset:**	N/A
Internal Sections:	97	**J Offset:**	N/A
Design Code:	AISC 15th (360-16): ASD	**T/C Only:**	Both Way

Material Properties

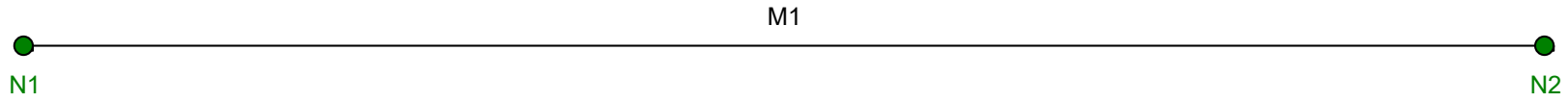
Material:	A36 Gr.36	**Therm. Coeff. (/1E5 F):**	0.65	**F_u (ksi):**	58
E (ksi):	29000	**Density (k/ft^3):**	0.49	**R_t:**	1.2
G (ksi):	11154	**F_y (ksi):**	36		
Nu:	0.3	**R_y:**	1.5		

Shape Properties

d (in):	12.2	**Area (in^2):**	5.57	**r_T (in):**	0.998
b_f (in):	4.01	**Z_{yy} (in^3):**	2.98	**J (in^4):**	0.18
t_f (in):	0.35	**Z_{zz} (in^3):**	24.7	**k_{det} (in):**	0.875
t_w (in):	0.235	**C_w (in^6):**	131	**k_{des} (in):**	0.65
I_{yy} (in^4):	3.76	**W_{no} (in^2):**	11.9		
I_{zz} (in^4):	130	**S_w (in^4):**	4.17		

Design Properties

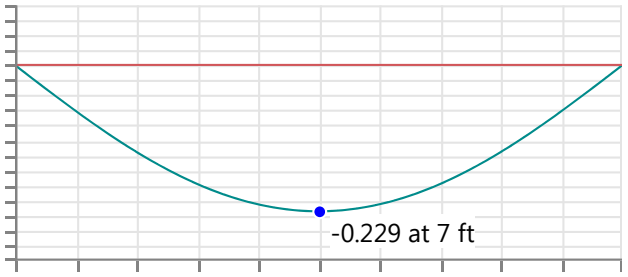
$L_{b\ y\text{-}y}$ (ft):	14	**$K_{y\text{-}y}$:**	1	**Seismic DR:**	None
$L_{b\ z\text{-}z}$ (ft):	14	**$K_{z\text{-}z}$:**	1	**Max Defl Ratio:**	L/733
$L_{comp\ top}$ (ft):	0	**y sway:**	No	**Max Defl Location:**	7
$L_{comp\ bot}$ (ft):	14	**z sway:**	No	**Span:**	1
L_{torque} (ft):	14	**Function:**	Lateral	**τ_b:**	1



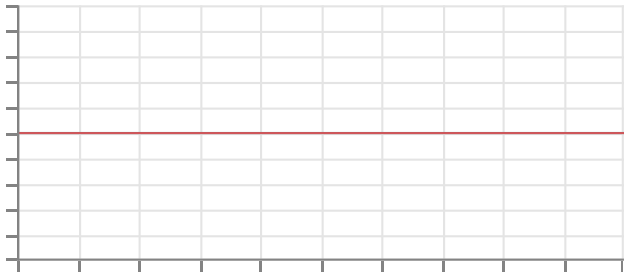
Company : g2
Designer : jm
Job Number :
Model Name : DESIGN STL BM

12/13/2024
9:33:00 PM
Checked By : jm

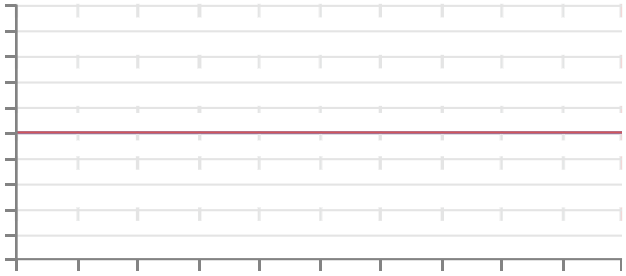
Diagrams:



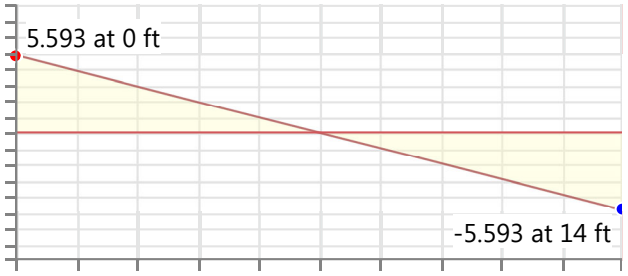
y Deflection (in)



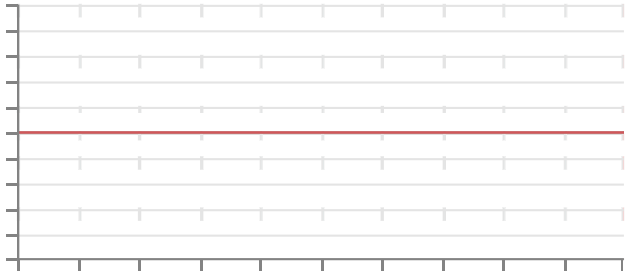
z Deflection (in)



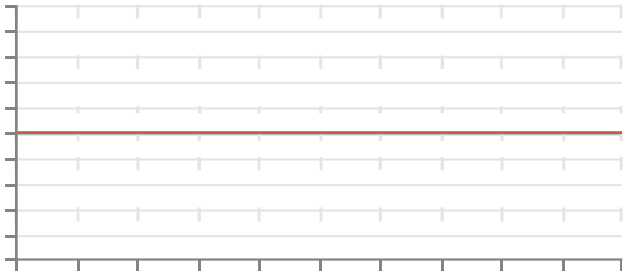
Axial Force (k)



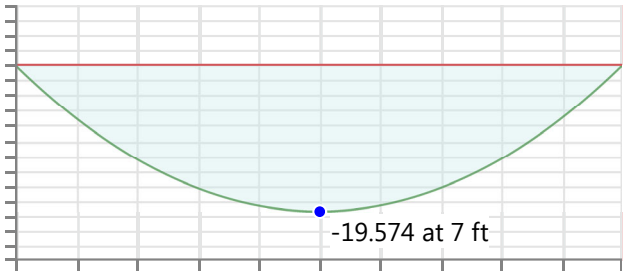
y Shear Force (k)



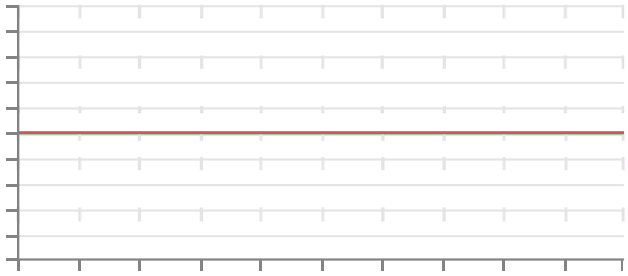
z Shear Force (k)



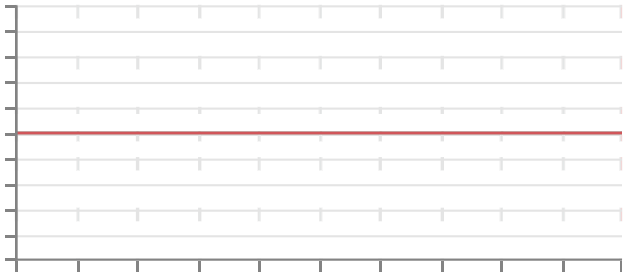
Torsion (k-ft)



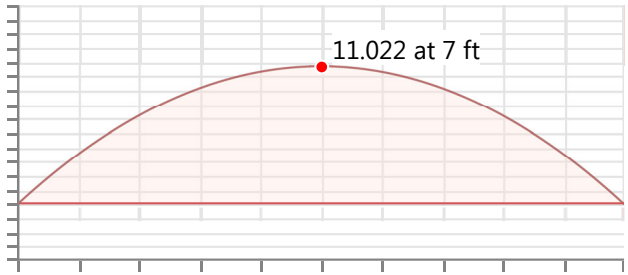
z-z Moment (k-ft)



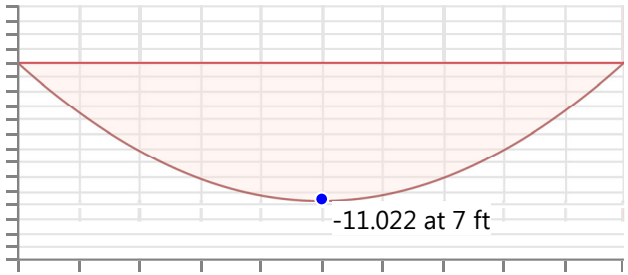
y-y Moment (k-ft)



Axial Stress (ksi)



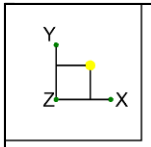
Bending Compression Stress (ksi)

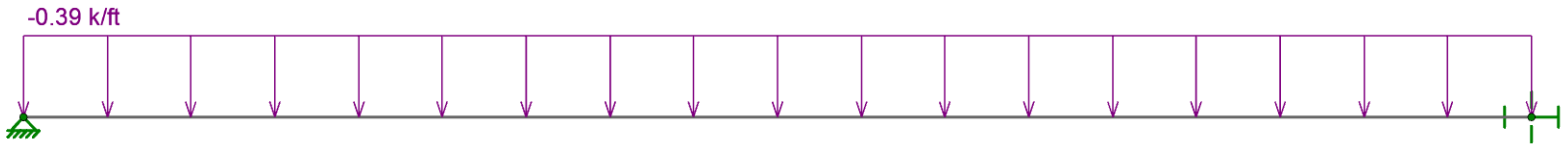


Bending Tension Stress (ksi)

AISC 15th (360-16): ASD Code Check

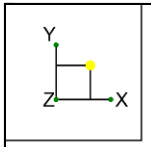
Limit State	Required	Available	Unity Check	Result
Applied Loading - Bending/Axial	-	-	-	-
Applied Loading - Shear + Torsion	-	-	-	-
Axial Tension Analysis	0 k	120.072 k	-	-
Axial Compression Analysis	0 k	20.024 k	-	-
Flexural Analysis (Strong Axis)	19.574 k-ft	44.371 k-ft	-	-
Flexural Analysis (Weak Axis)	0 k-ft	5.353 k-ft	-	-
Shear Analysis (Major Axis y)	5.593 k	41.285 k	**0.135**	**PASS**
Shear Analysis (Minor Axis z)	0 k	36.306 k	**0**	**PASS**
Bending & Axial Interaction Check (UC Bending Max)	-	-	**0.441**	**PASS**

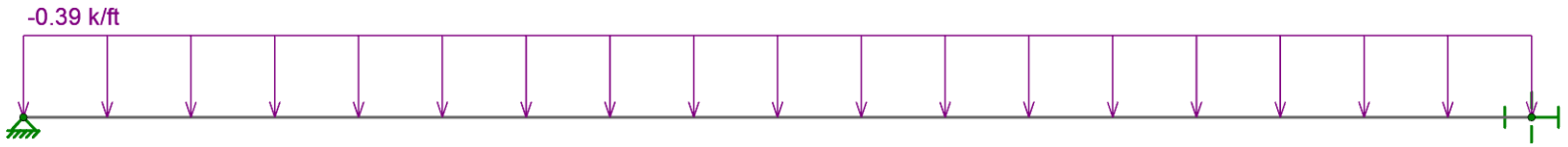




Loads: BLC 1, dl

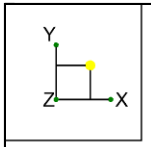
RISA A NEMETSCHEK COMPANY	g2	DESIGN STL BM	SK-1
	jm		Dec 13, 2024 at 09:30 PM
			STL BM.r3d





Loads: BLC 2, II

RISA A NEMETSCHEK COMPANY	g2	DESIGN STL BM	SK-2
	jm		Dec 13, 2024 at 09:31 PM
			STL BM.r3d

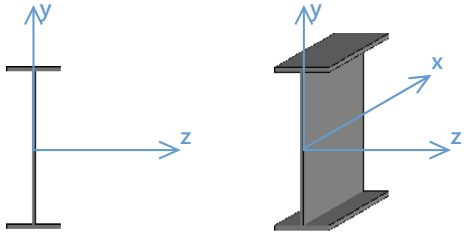


Loads: BLC 3, WIND

RISA A NEMETSCHEK COMPANY	g2	DESIGN STL BM	SK-3
	jm		Dec 13, 2024 at 09:31 PM
			STL BM.r3d

Detail Report: M1

Load Combination: LC 3: WIND **Code check:** 0.958 (axial/bending)



Input Data

Shape:	W12X19	**I Node:**	N1
Member Type:	Beam	**J Node:**	N2
Length (ft):	14	**I Release:**	Fixed
Material Type:	Hot Rolled Steel	**J Release:**	Fixed
Design Rule:	Typical	**I Offset:**	N/A
Internal Sections:	97	**J Offset:**	N/A
Design Code:	AISC 15th (360-16): ASD	**T/C Only:**	Both Way

Material Properties

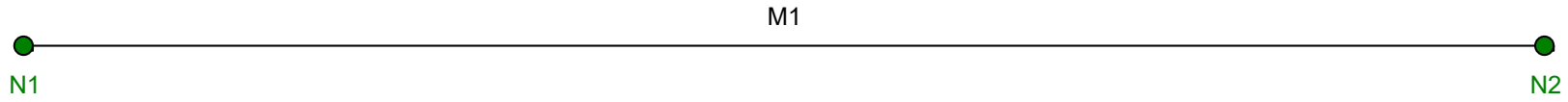
Material:	A36 Gr.36	**Therm. Coeff. (/1E5 F):**	0.65	**F_u (ksi):**	58
E (ksi):	29000	**Density (k/ft^3):**	0.49	**R_t:**	1.2
G (ksi):	11154	**F_y (ksi):**	36		
Nu:	0.3	**R_y:**	1.5		

Shape Properties

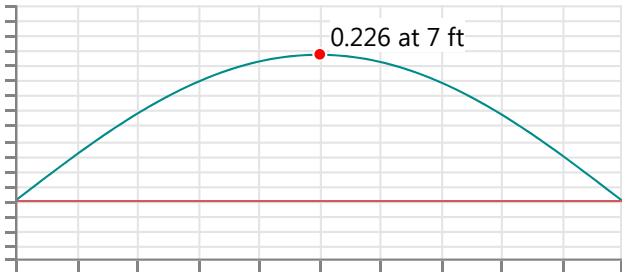
d (in):	12.2	**Area (in^2):**	5.57	**r_T (in):**	0.998
b_f (in):	4.01	**Z_{yy} (in^3):**	2.98	**J (in^4):**	0.18
t_f (in):	0.35	**Z_{zz} (in^3):**	24.7	**k_{det} (in):**	0.875
t_w (in):	0.235	**C_w (in^6):**	131	**k_{des} (in):**	0.65
I_{yy} (in^4):	3.76	**W_{no} (in^2):**	11.9		
I_{zz} (in^4):	130	**S_w (in^4):**	4.17		

Design Properties

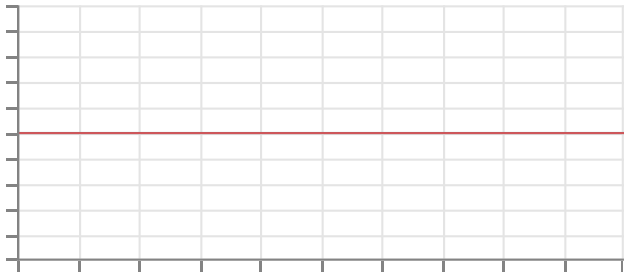
$L_{b\ y\text{-}y}$ (ft):	14	**$K_{y\text{-}y}$:**	1	**Seismic DR:**	None
$L_{b\ z\text{-}z}$ (ft):	14	**$K_{z\text{-}z}$:**	1	**Max Defl Ratio:**	L/742
$L_{comp\ top}$ (ft):	0	**y sway:**	No	**Max Defl Location:**	7
$L_{comp\ bot}$ (ft):	14	**z sway:**	No	**Span:**	1
L_{torque} (ft):	14	**Function:**	Lateral	**τ_b:**	1



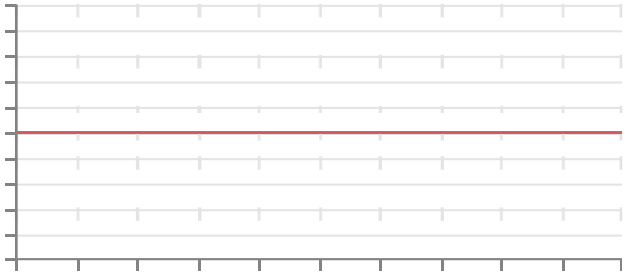
Diagrams:



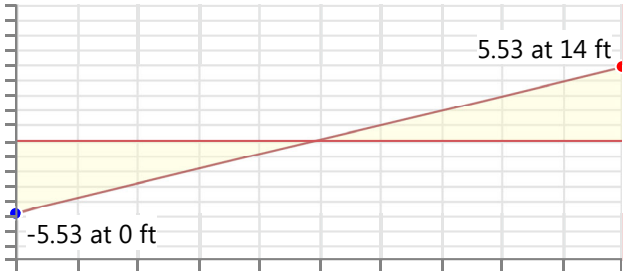
y Deflection (in)



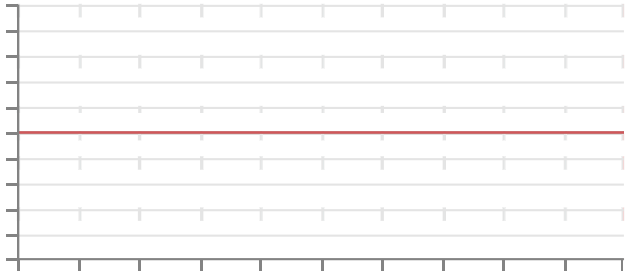
z Deflection (in)



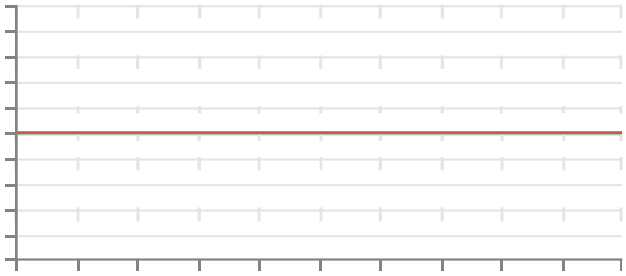
Axial Force (k)



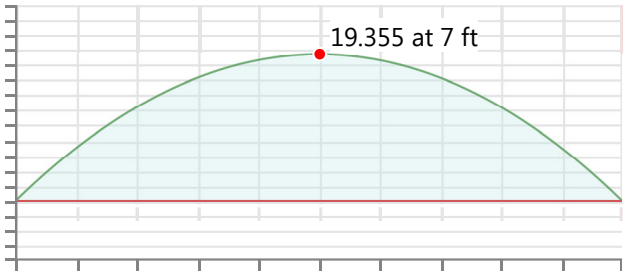
y Shear Force (k)



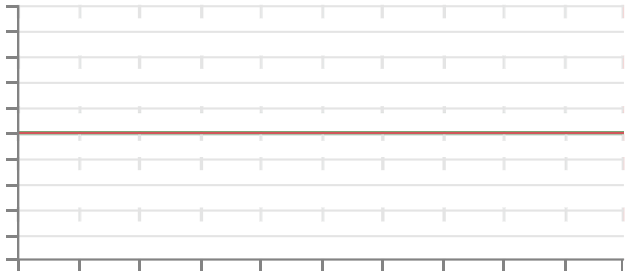
z Shear Force (k)



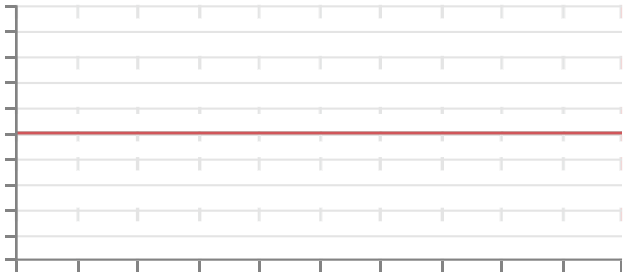
Torsion (k-ft)



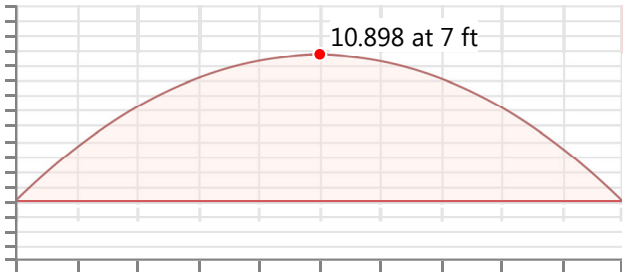
z-z Moment (k-ft)



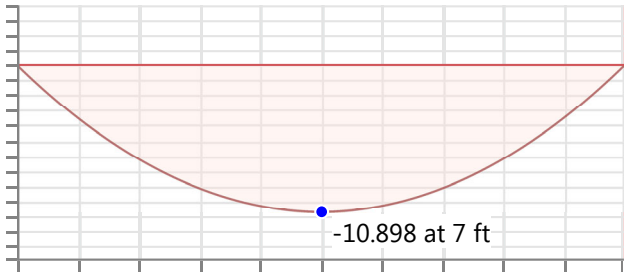
y-y Moment (k-ft)



Axial Stress (ksi)



Bending Compression Stress (ksi)



Bending Tension Stress (ksi)

AISC 15th (360-16): ASD Code Check

Limit State	Required	Available	Unity Check	Result
Applied Loading - Bending/Axial	-	-	-	-
Applied Loading - Shear + Torsion	-	-	-	-
Axial Tension Analysis	0 k	120.072 k	-	-
Axial Compression Analysis	0 k	20.024 k	-	-
Flexural Analysis (Strong Axis)	19.355 k-ft	20.206 k-ft	-	-
Flexural Analysis (Weak Axis)	0 k-ft	5.353 k-ft	-	-
Shear Analysis (Major Axis y)	5.53 k	41.285 k	**0.134**	**PASS**
Shear Analysis (Minor Axis z)	0 k	36.306 k	**0**	**PASS**
Bending & Axial Interaction Check (UC Bending Max)	-	-	**0.958**	**PASS**

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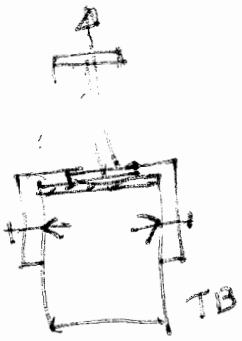
9725 SW 4 TERR MIAMI FL 33174
G2 CONSULTING GROUP, INC
PH/FAX:786-2940032

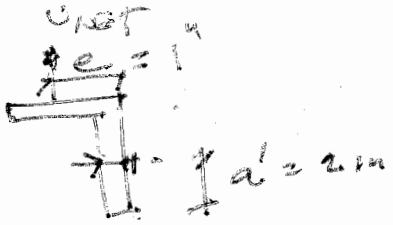
DESIGN STL BM CONN.

SEE DTL 4/S-3 1B/S-3



UPLIFT: -5.5^K

U_{NET} = Uplift/2 = 2.75^K



CHECK BSP: PLATE THICKNESS

Fy: 36 ksi

$F_b = \frac{M}{S}$; $S = \frac{M}{F_b}$; $\frac{M}{0.6F_y}$

$$S = \frac{U_{NET} \times e}{0.6\,F_y}$$

$$\frac{bt^2}{6} = \frac{U_{NET} \times e}{0.6 \times F_y}$$

$$t = \sqrt{\frac{U_{NET} \times e}{0.6 \times F_y} \times \frac{6}{b}}$$

$$= \sqrt{\frac{2.75^K \times 1" \times 6 \times 1in^2}{0.6 \times 36K \times 4in}}$$

$t = 0.43$ in

USE 1/2" STL BENT PL

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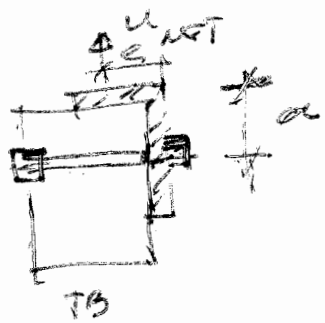
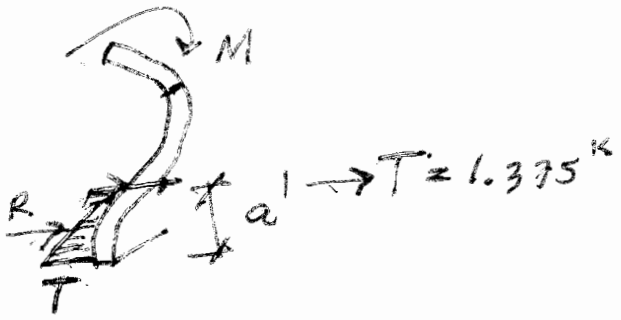
CHECK THRU BOLT: 5/8" ϕ A.B. A307





$M = U_{NOT} \times e = 2.75^{K} \times 1\,in$

$= 2.75\ K\cdot in$

$T = \frac{M}{a'} = \frac{2.75\ K\cdot in}{2\,in}$

$= 1.375^{K}$

5/8" ϕ A.B. THRU A307

$f_t = \frac{T}{A_{BOLT}} = \frac{1.375^{K}}{0.3068\,in^2} = 4.48\ \frac{K}{in^2}$

$F_T = 20\ KSI > 4.48\ \frac{K}{in^2}$ OK

CHECK CONCRETE BEARING STRENGTH

$R = \frac{T \times a'}{2} = \frac{2.75^{K} \times 2\,in}{2} = 2.75^{K}$

$f_c = \frac{R}{A} = \frac{2.75^{K}}{2\,in \times 4\,in} = 344\ \frac{\#}{in^2} << 0.35 \times 2500\ PSI$

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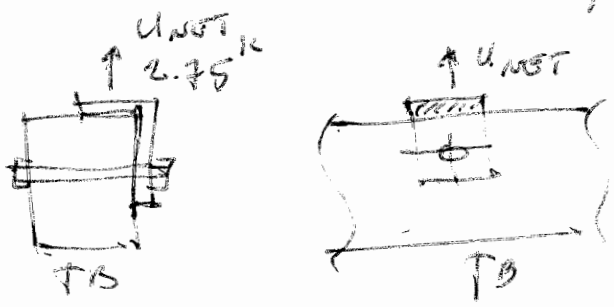
G2 CONSULTING GROUP, INC
PH/FAX:786-2940032

CHECK BEARING OF BOLT 5/8" ϕ MB A307



$$f_c = \frac{U_{NOT}}{A_{BOLT}} = \frac{2.75^K}{0.3608} = 4.523 \frac{K}{in^2}$$

$f = 0.35 \times 25000\ psi = 875\ psi$

$$\text{BOLT: } \frac{T}{T_{all}} + \frac{V}{V_{all}} = \frac{1375}{6100} + \frac{2750}{3100} = 0.22 + 0.88 = 1.1 < 1.33 \text{ OK}$$

$T_{all} = F_t \times A_b = 20\ ksi \times 0.3068\ in^2 = 6.1^K$

$V_{all} = V_t \times A_b = 10\ ksi \times 0.3068\ in^2 = 3.1^K$

BOLT BEARING

$$\frac{T}{A} = \frac{2750\ K}{8in \times 0.625"} \times 2 = 1100\ ksi > 0.35 \times 2500 \quad NG$$

USE 2 - 5/8" ϕ MB THRU A307

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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.**

MIAMI-DADE COUNTY APPROVED

S.Z.
04/11/2024

Nu-Vue Industries, Inc.

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.

	Report No.	Wood Connector	Direction	Date
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

Nu-Vue Industries, Inc.

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"***

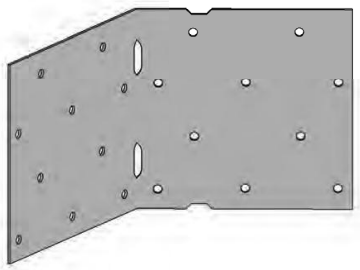
2. Statement letter of code conformance to the 8th Edition (2023) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. ***"Submitted under NOA #24-0213.05"***

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

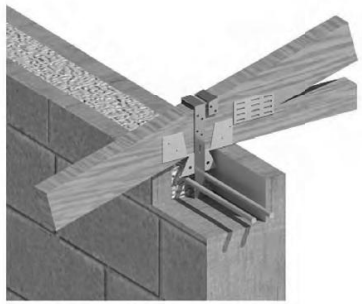
NU-VUE INDUSTRIES, INC.

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

NVSNP 3 SKEWED NAIL PLATE

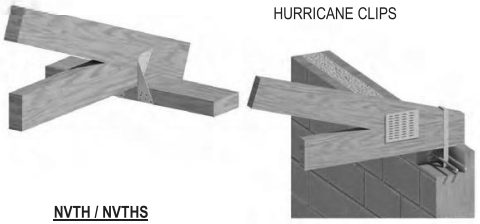


NV358 & NV458 18G SEATS WITH 14G NVTH STRAPS



NVHCR / NVHCL

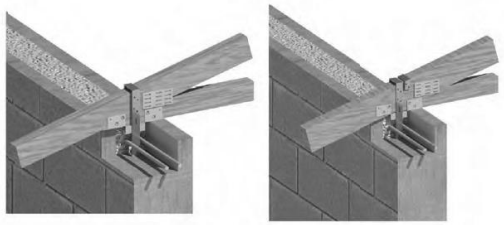
HURRICANE CLIPS



NVTH / NVTHS

TRUSS ANCHORS AND
RIVETED TRUSS ANCHORS

NVSTA & NVHTA HEAVY DUTY ANCHORS WITH 14G DOUBLE NVTH STRAPS



GENERAL NOTES:

1. ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION 2018.
2. 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 2018.
3. THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERCEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH CHANGES.
4. DESIGN LOADS DO NOT INCLUDE 33% 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, LI AND L2 SHALL SATISFY THE FOLLOWING EQUATION.

$$\frac{\text{ACTUAL UPLIFT}}{\text{ALLOWABLE UPLIFT}} + \frac{\text{ACTUAL L1}}{\text{ALLOWABLE L1}} + \frac{\text{ACTUAL L2}}{\text{ALLOWABLE L2}} <= 1.0$$

8. ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D-1761.
9. 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 1/8 " DEFLECTION.
   3. CALCULATIONS BASED ON NDS,AISI AND OTHER APPLICABLE CODES.

REFERENCES:

1. AISC 360-16
2. AISI S100-16
3. FBC 2023
4. ACI 318-19

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 (16 PERCENT FOR STRUCTURAL ENGINEERED LUMBER). WOOD MEMBERS MUST BE USED UNDER CONTINUOUSLY DRY CONDITIONS AND WHERE SUSTAINED TEMPERATURES ARE LIMITED TO 100° F.
2. *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.
3. *NAIL*
   NAILS SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1667.
4. *GFCMU MASONRY*
   MATERIAL AND QUALITY OF MASONRY CONSTRUCTION MUST COMPLY WITH THE APPLICABLE SECTIONS OF FBC 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*
   CONNECTOR STEEL SHALL CONFORM TO ASTM A653 SS 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
NOA–No. 24-0213.05
Expiration Date 07/30/2030
By
Miami–Dade Product Control

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

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

drawing no.	JA-2029.1-23
date:	01/11/2024
drawn by:	BVS
check by:	BS

REVISION

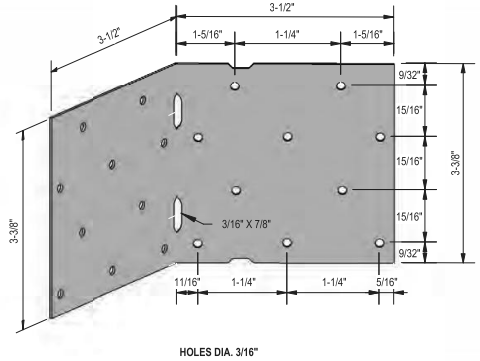
No.	DATE	BY	DESCRIPTION

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Javad Ahmad
Date: 2024.02.06 12:33:59 -05'00'

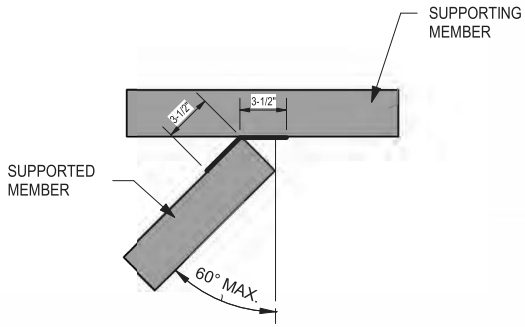
1

1 OF 5

NVSNP3



HOLES DIA. 3/16"



NVSNP3 INSTALLATION

TABLE 1
SKEWED NAIL PLATE

PRODUCT CODE	STEEL GAUGE	FASTENERS	ALLOWABLE LOADS (lbs.)	
		EACH END	GRAVITY	UPLIFT
NVSNP3	16	(6) 8d X 1-1/2"	570	570

NOTES:

1. SEE GENERAL NOTES, SHEET 1.
2. USE 6 NAIL HOLES IN EACH FLANGE.
3. DO NOT BEND NAIL PLATE MORE THAN ONCE.
4. SUPPORTING MEMBER SHALL BE IN THE ACUTE ANGLE SIDE WITH OTHER FLANGE BEHIND THE END OF SUPPORTED MEMBER (SEE SKETCH).

PRODUCT REVISED
as complying with the Florida Building Code
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NU-VUE INDUSTRIES, INC
1055 East 29th Street
Hialeah, FL. 33013

drawing no.	JA-2029.1-23
date:	01/11/2024
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No.	DATE	BY	DESCRIPTION
			REVISION

Digitally signed by Javad Ahmad
Date: 2024.02.06 12:34:16 -05'00'

LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

2

2 OF 5

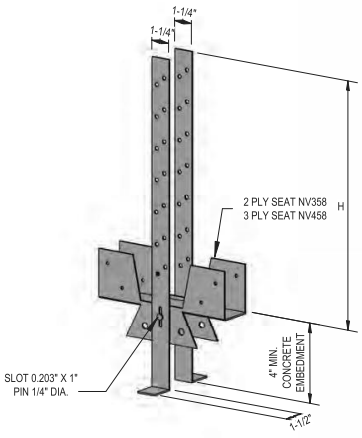
NV358 & NV458

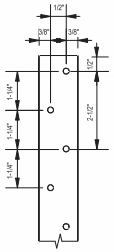
TABLE 2
NV358 - 14G DOUBLE NVTH STRAPS WITH 2 PLY 18G SEAT

ASSEMBLY PRODUCT CODE	14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN 2 STRAPS 10d X 3"	TOTAL NO. OF FASTENERS IN SEAT 10d X 3"	ALLOWABLE LOADS (lbs.)		
					UPLIFT	L1	L2
NV358-12	NVTH16	12	8	8	2245	1961	1839
NV358-14	NVTH18	14	10	8	2525	2206	2068
NV358-16	NVTH20	16	12	8	2806	2452	2298
NV358-20	NVTH24	20	14	8	3086	2697	2528
NV358-22	NVTH26	22	16	8	3367	2942	2758
NV358-24	NVTH28	24					
NV358-26	NVTH30	26					
NV358-32	NVTH36	32					
NV358-44	NVTH48	44					

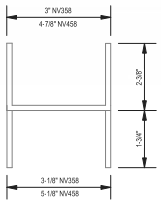
TABLE 3
NV458 - 14G DOUBLE NVTH STRAPS WITH 3 PLY 18G SEAT

ASSEMBLY PRODUCT CODE	14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN 2 STRAPS 10d X 3"	TOTAL NO. OF FASTENERS IN SEAT 10d X 3"	ALLOWABLE LOADS (lbs.)		
					UPLIFT	L1	L2
NV458-12	NVTH16	12	8	8	2245	2783	2078
NV458-14	NVTH18	14	10	8	2525	3131	2338
NV458-16	NVTH20	16	12	8	2806	3479	2597
NV458-20	NVTH24	20	14	8	3086	3827	2857
NV458-22	NVTH26	22	16	8	3367	4175	3117
NV458-24	NVTH28	24					
NV458-26	NVTH30	26					
NV458-32	NVTH36	32					
NV458-44	NVTH48	44					

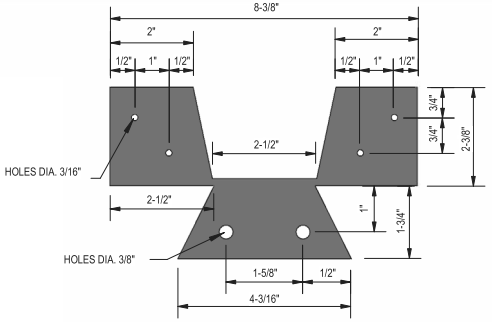




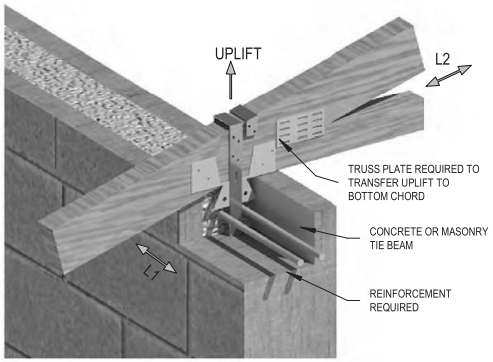
14G NVTH



SIDE VIEW



NV358 & NV458
18G SEAT DETAIL



NOTES:

1. MINIMUM 4" EMBEDMENT INTO CONCRETE.
2. NAILS ARE NECESSARY IN STRAPS AND SEAT TO ACHIEVE DESIGN LOADS.
3. NAILS THROUGH CHORDS SHALL NOT FORCE THE TRUSS PLATE ON THE OPPOSITE SIDE.
4. FOR GENERAL NOTES, SEE SHEET 1.

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

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8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
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CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

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

drawing no.	JA-2029.1-23	drawn by:	BVS
date:	01/11/2024	check by:	BS

No.	DATE	BY	DESCRIPTION
			REVISION

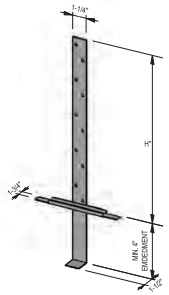
Digitally signed by Javad Ahmad
Date: 2024.02.06 12:34:28 -05'00'

3 | 3 OF 5

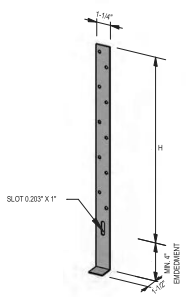
NVHCR/L & NVTH / NVTHS

TABLE 4
HURRICANE CLIPS

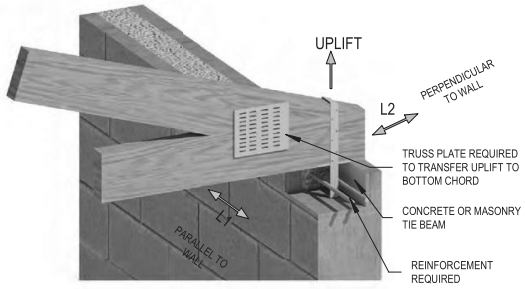
PRODUCT CODE	DESCRIPTION	GAUGE	FASTNERS 10d X 1-1/2"		ALLOWABLE LOADS (lbs)		
			HEADER	JOIST	UPLIFT	L1	L2
NVHCR	HURRICANE CLIP - RIGHT	18	6	6	525	253	333
NVHCL	HURRICANE CLIP - LEFT	18	6	6	525	253	333



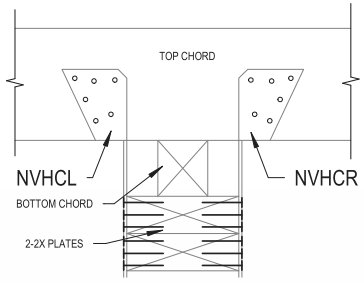
NVTHS



NVTH



TYPICAL NVTH/NVTHS INSTALLATION



CROSS-SECTION

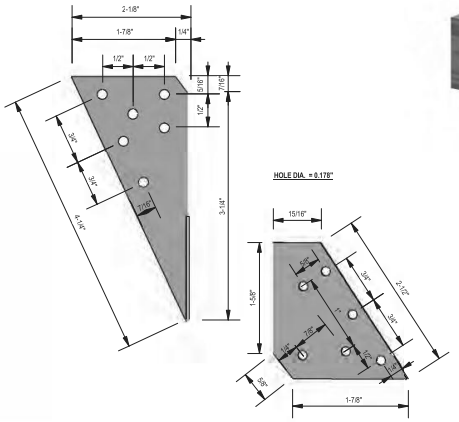
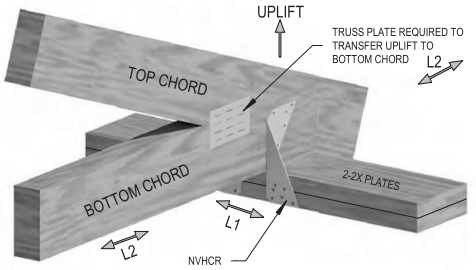


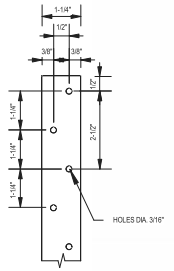
TABLE 5
TRUSS ANCHORS NVTH & RIVETED TRUSS ANCHORS WITH SEAT NVTHS

PRODUCT CODE		H	GAUGE	
		LENGTH(IN)	SEAT	STRAP
NVTH-16	NVTHS-212	12	18	14
NVTH-18	NVTHS-214	14	18	14
NVTH-20	NVTHS-216	16	18	14
NVTH-22	NVTHS-218	18	18	14
NVTH-24	NVTHS-220	20	18	14
NVTH-26	NVTHS-222	22	18	14
NVTH-28	NVTHS-224	24	18	14
NVTH-30	NVTHS-226	26	18	14
NVTH-36	NVTHS-232	32	18	14
NVTH-48	NVTHS-244	44	18	14

NO. OF FASTNERS IN EACH STRAP 10d x1-1/2"	MAXIMUM UPLIFT LOADS (lbs)		
	UPLIFT	L1	L2
5	1032	560	525
6	1222	671	630
7	1275	783	735
8	1329	783	735
9	1383	783	735
10	1437	783	735
11	1490	783	735
12	1544	783	735
13	1598	783	735



TYPICAL NVHCR/L INSTALLATION



NVTH, NVTHS FRONT VIEW

NOTES:

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

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

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

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

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

drawing no.	JA-2029.1-23	drawn by:	BYS
date:	01/11/2024	check by:	BS

REVISION

No.	DATE	BY	DESCRIPTION

Digitally signed by Javad Ahmad
Date: 2024.02.06 12:34:41 -05'00'

4

4 OF 5

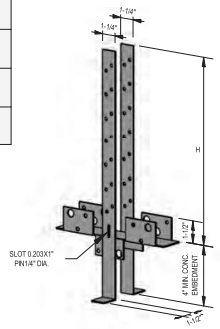
NVSTA & NVHTA

TABLE 6
NVSTA - HEAVY DUTY ANCHORS WITH 14G NVTH STRAPS AND 1 PLY 20G SEAT

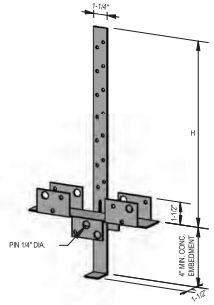
ASSEMBLY PRODUCT CODE	14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAP 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)		
					UPLIFT*	L1*	L2*
NVSTA-12H	NVTH16	12	5	6	1308	700	1049
NVSTA-14H	NVTH18	14	6	6	1426	760	1144
NVSTA-16H	NVTH20	16	7	6	1545	823	1239
NVSTA-20H	NVTH24	20	8	6	1664	887	1335
NVSTA-22H	NVTH26	22	9	6	1783	950	1430
NVSTA-24H	NVTH28	24					
NVSTA-26H	NVTH30	26					
NVSTA-32H	NVTH36	32					
NVSTA-44H	NVTH48	44					

TABLE 7
NVHTA - HEAVY DUTY ANCHORS WITH 14G DOUBLE NVTH STRAPS AND 1 PLY 20G SEAT

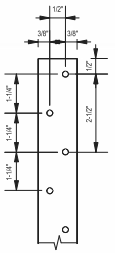
ASSEMBLY PRODUCT CODE	14G STRAP PRODUCT CODE	DIMENSION H (in.)	TOTAL NO. OF FASTENERS IN STRAP 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)			
					UPLIFT*	UPLIFT**	L1*	L2*
NVHTA-12H	NVTH16	12	10	6	1772	2078	1050	1450
NVHTA-14H	NVTH18	14	12	6	1994	2338	1181	1631
NVHTA-16H	NVTH20	16	14	6	2215	2598	1312	1812
NVHTA-20H	NVTH24	20	16	6	2437	2858	1444	1994
NVHTA-22H	NVTH26	22	18	6	2658	3117	1575	2175
NVHTA-24H	NVTH28	24						
NVHTA-26H	NVTH30	26						
NVHTA-32H	NVTH36	32						
NVHTA-44H	NVTH48	44						



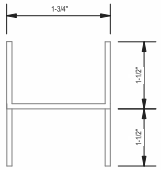
NVHTA WITH 14G DOUBLE NVTH STRAP



NVSTA WITH 14G SINGLE NVTH STRAP



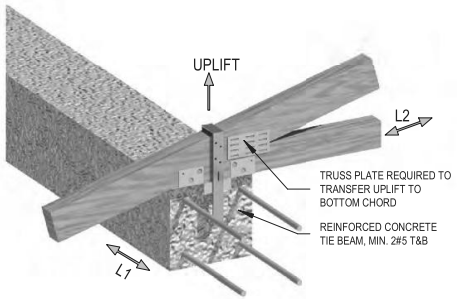
14G NVTH FRONT VIEW



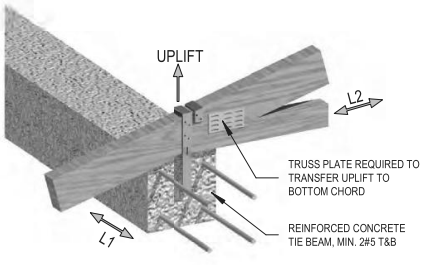
SIDE VIEW
20 GA. SEAT

NOTES:

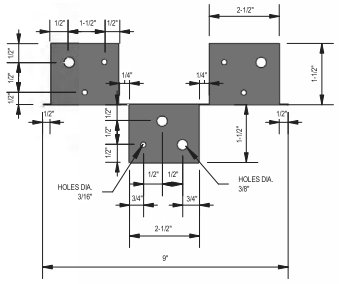
1. SEE GENERAL NOTES, SHEET 1.
2. NAILS ARE NECESSARY IN STRAPS AND SEAT TO ACHIEVE DESIGN LOADS.
3. NAILS THROUGH CHORDS SHALL NOT FORCE THE TRUSS PLATE.
4. **FOR HIGHER UPLIFT LOADS, CONCRETE SHALL BE 3000PSI.
5. *BASED ON MINIMUM 2500 PSI CONCRETE.



NVSTA
12H TO 44H INSTALLATION



NVHTA
12H TO 44H INSTALLATION



20 GA. SEAT

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

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

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

drawing no.	JA-2029.1-23
date:	01/11/2024
drawn by:	BYS
check by:	BS

No.	DATE	BY	DESCRIPTION
			REVISION

Digitally signed by Javad Ahmad
Date: 2024.02.06 12:34:52 -05'00'

5

5 OF 5

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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.**

MIAMI-DADE COUNTY APPROVED

S.Z.

04/11/2024

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

Nu-Vue Industries, Inc.

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.

	Report No.	Wood Connector	Load Direction	Date
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

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"***

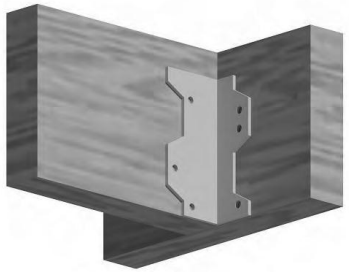
Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0213.07
Expiration Date: May 22, 2028
Approval Date: April 11, 2024

NU-VUE INDUSTRIES, INC.

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

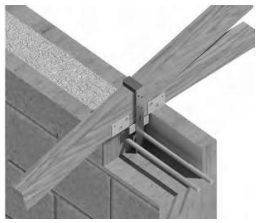
AB5/AB7

18 GAUGE ANGLE CLIPS



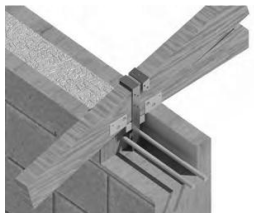
NVSTA

DEEP SEAT TRUSS ANCHOR



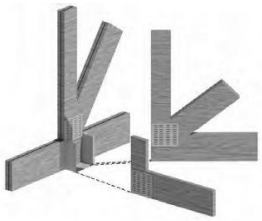
NVHTA

HOLDEN DOUBLE STRAP RIVETED TRUSS ANCHOR



NVHTJ

12 GAUGE TRUSS HIP & JACK HANGER

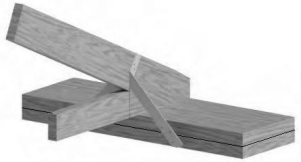


IKE

20G STUD PLATE TIES

NVTT

18G SANIBEL TRUSS STRAP



NVHC37

18G 5WAY GRIP CLIP (520)

GENERAL NOTES:

1. ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION 2018.
2. 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 2018.
3. THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERCEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH CHANGES.
4. DESIGN LOADS DO NOT INCLUDE 33% 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, LI AND L2 SHALL SATISFY THE FOLLOWING EQUATION.

$$\frac{\text{ACTUAL UPLIFT}}{\text{ALLOWABLE UPLIFT}} + \frac{\text{ACTUAL L1}}{\text{ALLOWABLE L1}} + \frac{\text{ACTUAL L2}}{\text{ALLOWABLE L2}} <= 1.0$$

8. ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D-1761.
9. 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 1/8 " DEFLECTION.
   3. CALCULATIONS BASED ON NDS,AISI AND OTHER APPLICABLE CODES.

REFERENCES:

1. AISC 360-16
2. AISI S100-16
3. FBC 2023
4. ACI 318-19

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 (16 PERCENT FOR STRUCTURAL ENGINEERED LUMBER). WOOD MEMBERS MUST BE USED UNDER CONTINUOUSLY DRY CONDITIONS AND WHERE SUSTAINED TEMPERATURES ARE LIMITED TO 100° F.
2. *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.
3. *NAIL*
   NAILS SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1667.
4. *GFCMU MASONRY*
   MATERIAL AND QUALITY OF MASONRY CONSTRUCTION MUST COMPLY WITH THE APPLICABLE SECTIONS OF FBC 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*
   CONNECTOR STEEL SHALL CONFORM TO ASTM A653 SS 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
NOA–No. 24-0213.07
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
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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-2029.3-23	drawn by:	AG
date:	01/11/2024	check by:	BS

No.	DATE	BY	DESCRIPTION
			REVISION

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

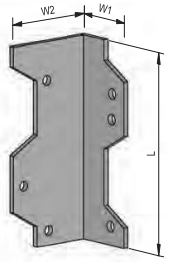
Digitally signed by Javad Ahmad
Date: 2024.02.06 12:21:04 -05'00'

24-0213.07

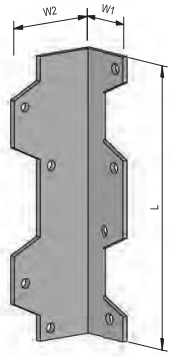
1

1 OF 5

18 GAUGE ANGLE CLIPS



AB-5



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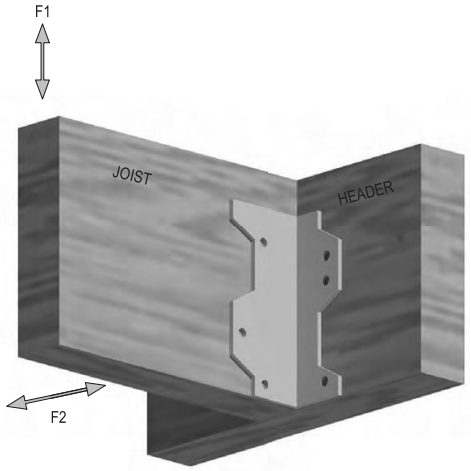

TYPICAL INSTALLATION

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

NOTES:

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

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

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

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-2029.3-23
date:	01/11/2024
drawn by:	AG
check by:	BS

No.	DATE	BY	REVISION DESCRIPTION

Digitally signed by Javad Ahmad
Date: 2024.02.06 12:22:52 -05'00'

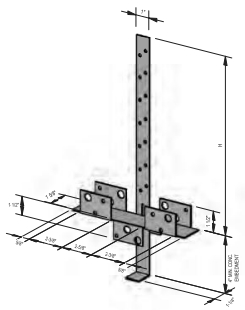
STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER JAVAD AHMAD No. 70592

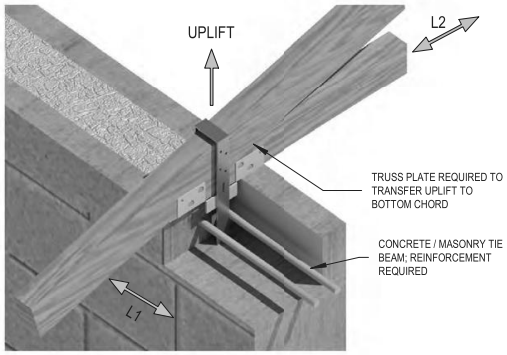
70592
STATE OF
FLORIDA
ONAL ENGINEER

2

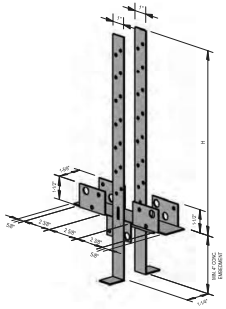
NVSTA & NVHTA

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.





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



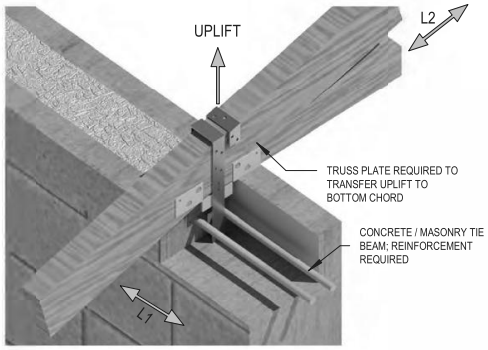


TABLE 2

ASSEMBLY PRODUCT CODE	DIMENSION	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.)		
	H (in.)			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

TABLE 3

ASSEMBLY PRODUCT CODE	DIMENSION	TOTAL NO. OF FASTENERS IN 2 STRAPS 10d X 1-1/2"	TOTAL NO. OF FASTENERS IN 20 GA. SEAT 10d X 1-1/2"	ALLOWABLE LOADS (lbs.)			
	H (in.)			UPLIFT*	UPLIFT**	L1*	L2*
NVHTA-12	12	10	6	1506	1766	1050	1450
NVHTA-16	16	12	6	1695	1987	1181	1631
NVHTA-20	20	14	6	1883	2208	1312	1812
NVHTA-22	22	16	6	2071	2429	1444	1994
NVHTA-24	24	18	6	2259	2649	1575	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 2500 psi CONCRETE
4. **FOR HIGHER UPLIFT LOADS, CONCRETE SHALL BE 3000 PSI.
5. SEE GENERAL NOTES, SHEET 1

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 24-0213.07
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
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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-2029.3-23
date:	01/11/2024
drawn by:	AG
check by:	BS

No.	DATE	BY	DESCRIPTION
			REVISION

Digitally signed by Javad Ahmad
Date: 2024.12.06 12:23:03 -05'00'

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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.**

MIAMI-DADE COUNTY APPROVED

S.Z.

04/11/2024

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

Nu-Vue Industries, Inc.

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.

	Report No.	Wood Connector	Direction	Date
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

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"***

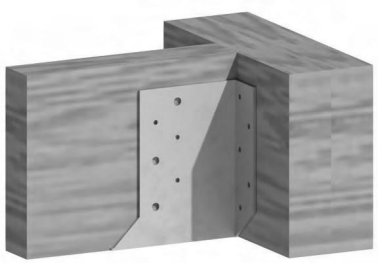
2. Statement letter of code conformance to the 8th Edition (2023) of the FBC and of no financial interest, issued by Javad Ahmad PE, Inc., dated 01/23/2024, signed and sealed by Javad Ahmad, P.E. ***"Submitted under NOA #24-0213.09"***

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.

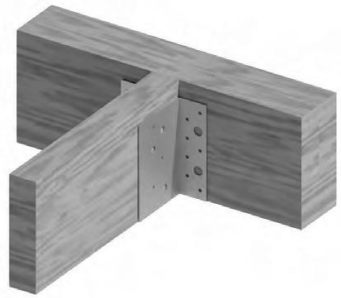
1055 EAST 29TH HIALEAH, FL 33013, TEL. 305-694-0397

NVJH **JOIST SUPPORTS**

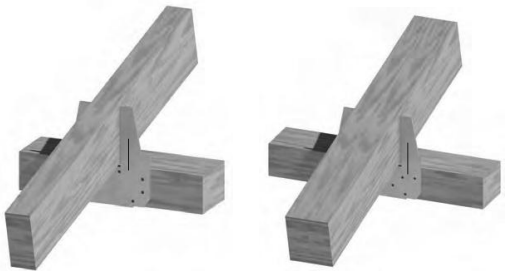


NVTP & NVTPH **TOP PLATE ANCHORS**

NVSO 236 **FACE MOUNT JOIST HANGER**



NVHC 43 & 43/2 **HURRICANE CLIPS**



GENERAL NOTES:

1. ALLOWABLE LOADS AND ALL FASTENERS ARE BASED ON NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION 2018.
2. 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 2018.
3. THIS CATALOG REFLECTS DESIGN CHANGES AND DESIGN ADJUSTMENTS TO SOME NU-VUE PRODUCTS. THE TABLES AND NOTES IN THIS CATALOG SUPERCEDE ALL PREVIOUS DOCUMENTS. NU-VUE RESERVES THE RIGHT TO CHANGE DESIGN SPECIFICATIONS WITHOUT NOTICE AND IS NOT LIABLE FOR SUCH CHANGES.
4. DESIGN LOADS DO NOT INCLUDE 33% 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, LI AND L2 SHALL SATISFY THE FOLLOWING EQUATION.

$$\frac{\text{ACTUAL UPLIFT}}{\text{ALLOWABLE UPLIFT}} + \frac{\text{ACTUAL L1}}{\text{ALLOWABLE L1}} + \frac{\text{ACTUAL L2}}{\text{ALLOWABLE L2}} <= 1.0$$

8. ALL TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH ASTM D-1761.
9. 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 1/8 " DEFLECTION.
   3. CALCULATIONS BASED ON NDS,AISI AND OTHER APPLICABLE CODES.

REFERENCES:

1. AISC 360-16
2. AISI S100-16
3. FBC 2023
4. ACI 318-19

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 (16 PERCENT FOR STRUCTURAL ENGINEERED LUMBER). WOOD MEMBERS MUST BE USED UNDER CONTINUOUSLY DRY CONDITIONS AND WHERE SUSTAINED TEMPERATURES ARE LIMITED TO 100° F.
2. *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.
3. *NAIL*
   NAILS SHALL MEET THE REQUIREMENTS IN TABLE AND THE REQUIREMENTS SPECIFIED IN ASTM F 1667.
4. *GFCMU MASONRY*
   MATERIAL AND QUALITY OF MASONRY CONSTRUCTION MUST COMPLY WITH THE APPLICABLE SECTIONS OF FBC 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*
   CONNECTOR STEEL SHALL CONFORM TO ASTM A653 SS 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
NOA–No. 24-0213.09
Expiration Date 07/30/2030
By
Miami–Dade Product Control

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

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

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

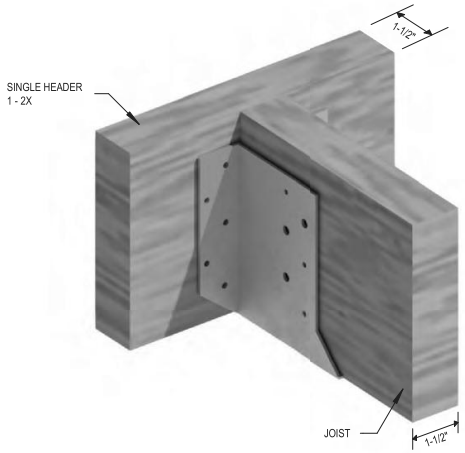
No.	DATE	BY	DESCRIPTION
			REVISION

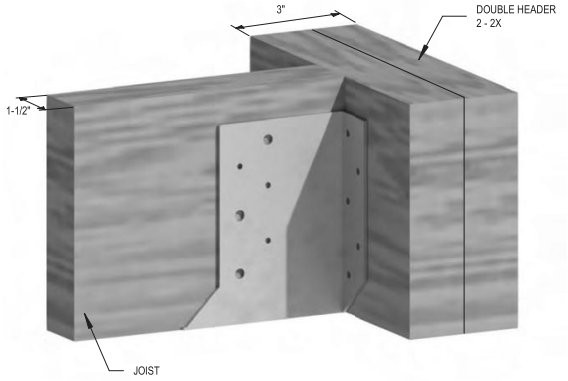
Digitally signed by Javad Ahmad
Date: 2024.02.06 12:13:33 -05'00'

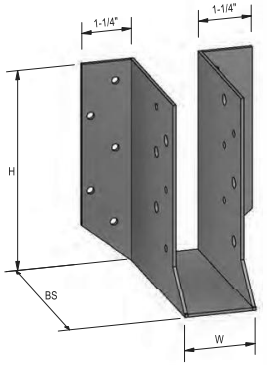
NVJH JOIST SUPPORTS

TABLE 1
JOIST SUPPORTS

18G NVJH JOIST SUPPORTS										ALLOWABLE LOADS (lbs.)		
PRODUCT CODE	DIMENSIONS (in.)			JOIST SIZE	DOUBLE HEADER SIZE	SINGLE HEADER SIZE	FASTENERS			GRAVITY LOADS (100% LOADS)		UPLIFT LOADS (160% LOADS)
	W	H	BS				DOUBLE HEADER	SINGLE HEADER	JOISTS	DOUBLE HEADER	SINGLE HEADER	SINGLE & DOUBLE HEADERS
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"	744	744	-
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"	1240	1240	821
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"	1736	1736	1079







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

NOTES:

1. SEE GENERAL NOTES, SHEET 1.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 24-0213.09
Expiration Date 07/30/2030
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SERIES NVJH, NVTP/H, NVSO AND NVHC
STEEL WOOD CONNECTORS

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

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

REVISION

No.	DATE	BY	DESCRIPTION

Digitally signed by Javad Ahmad
Date: 2024.12.06 12:14:07 -05'00'

STATE OF FLORIDA
JAVAD AHMAD
No. 70592
PROFESSIONAL ENGINEER