

DATE:	7/30/2026	COMPANY:	Wanskus Architecture, P.C.		
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	JOHN P. WANSKUS, RA, AIA, NCARB		
CUSTOMER:	DANIEL FORNES	REVIEWED BY:	JOHN P. WANSKUS, RA, AIA, NCARB		
PROJ. ADDRESS:	7870 NW 163rd STREET MIAMI LAKES, FL 33016	PROJECT NAME:	FORNES		
LEVEL:	NOT YET ASSIGNED	LOADING:	ASD		
MEMBER NAME:	COLUMN	CODE:	8th Ed. (2023) Florida Building Code		
MEMBER TYPE:	COLUMN	NDS:	2018 NDS		
MATERIAL:	Solid Sawn				
Southern Pine	No. 2	8" Dia.	DRY	INCISED	

COLUMN PROPERTIES

Start (ft): 0 End (ft): 11.56

Area	Ix	Iy	BSW	Lams	G	Kcr
(in²)	(in⁴)	(in⁴)	(lbf/ft)			Creep Factor
50.27	201.06	201.06	6.99	1	0.55	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc⊥ (psi)	E (psi) x10³	Emin (psi) x10³
Base Values	1100	675	175	1450	565	1400	510
Adjusted Values	880	540	140	1160	565	1330	484
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	0.8	0.8	0.8	0.8	1	0.95	0.95
C _F	1	1	1	1	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

		Unbraced Length (ft)		Column End					
Span	Length (ft)	X	Y	Offset	CP	Ke (X Axis)	Ke (Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
1	11.56	7.56	7.56	0	0.48	1.00	1.00	25.92	11.34

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (98.3%)	3.7	224.0	11.56	D+0.6W(+)	1.6
Bending Stress Y (psi)	PASS (97.3%)	37.3	1406.4	6.474	D+0.6W(+)	1.6
Deflection Y (in)	PASS (96.3%)	0.021	0.578 (=L/240)	6.011	0.42W(+)	
Compressive Stress (psi)	PASS (95.7%)	21.5	500.6	0	D	0.9
Bearing Stress (psi)	PASS (97.6%)	25.1	1044.0	11.56	D	0.9
Bending-Compression (Unit)	PASS (97.1%)	0.03	1.00	6.474	D+0.6W(+)	1.6

REACTIONS

REACTIONS		Units for V: lbf		Units for M: lbf-ft
Z axis	DEAD	WIND +	WIND -	TOTAL
A	1081	0	0	1081
B	0	0	0	0
Y axis				
A	0	114	-114	0
B	602	234	-234	602
Reaction Location				
A B				

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Axial (lbf)		-1000	-1000	11.56	11.56	Dead	Z
Uniform (lbf/ft)	Uniform	45.95	45.95	4	11.56	WindPlus	Y
Uniform (lbf/ft)	Uniform	-45.95	-45.95	4	11.56	WindMinus	Y
Point (lbf)	Point	602	-	11.56	-	Dead	Y
Self Weight (lbf/ft)	-	6.99	6.99	0	11.56	Dead	Z

VMD DIAGRAMS

Load Combination: D

Y - Shear

D Not Applicable in the Y Direction

Y - Moment

D Not Applicable in the Y Direction

Y - Deflection

D Not Applicable in the Y Direction

Column LOAD DIAGRAM

