

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION

Roof: Gable / Hip Construction, Wood Trusses @ 24" O.C.
Walls: 8" CMU W/ (1) #5 VERTICAL @ 48" O.C. MAX
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous monolithic footing or /Stem Wall foundation system

ROOF DECKING

Material: 1/2" CDX Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 10d Ring-Shank Nails per schedule on sheet S.4

SHEARWALLS

Material: 8" CMU W/ (1) #5 VERTICAL @ 48" O.C. MAX AND BESIDE EACH OPENING

HURRICANE UPLIFT CONNECTORS

Truss Anchors: SIMPSON HETEL 16 W/ TSS
Truss Anchors (FRAME): SIMPSON H2.5A (OR EQUIVALENT), W/ 6 - 10d NAILS

Porch Column Base Connector:

Simpson ABU44/ABU66 @ each column

Porch Column to Beam Connector:

Simpson EPC44 or 66 /PC44 or 66 @ each column

FOOTINGS AND FOUNDATIONS

Footings:
House walls: 20"D x 16"W Cont. W/ (2) #5 Bars Cont. on chairs or (1) #3 Transverse @ 24" O.C.
Optional Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (9TH EDITION) AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE: "C"
BASED ON ANSI/AISC 1-10, 2023 FBC 16-09-A WIND VELOCITY: $V_{ult} = 140$ MPH
 $V_{des} = 108$ MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 20 PSF
SUPERIMPOSED LIVE LOADS: 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL 40 PSF
BALCONIES 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUF'R/MODEL	CAP.
TRUSS TO WALL:	"SIMPSON" HETEL 16 W/ TSS	1410#
PORCH BEAM TO POST (4x 4):	SIMPSON PC44/EPC44	1700#
PORCH BEAM TO POST (6x 6):	SIMPSON PC66/EPC66	1700#
PORCH POST TO FND.:	SIMPSON ABU44 or ABU 66	2200#
MISC. JOINTS	SIMPSON A34	315#/#240#

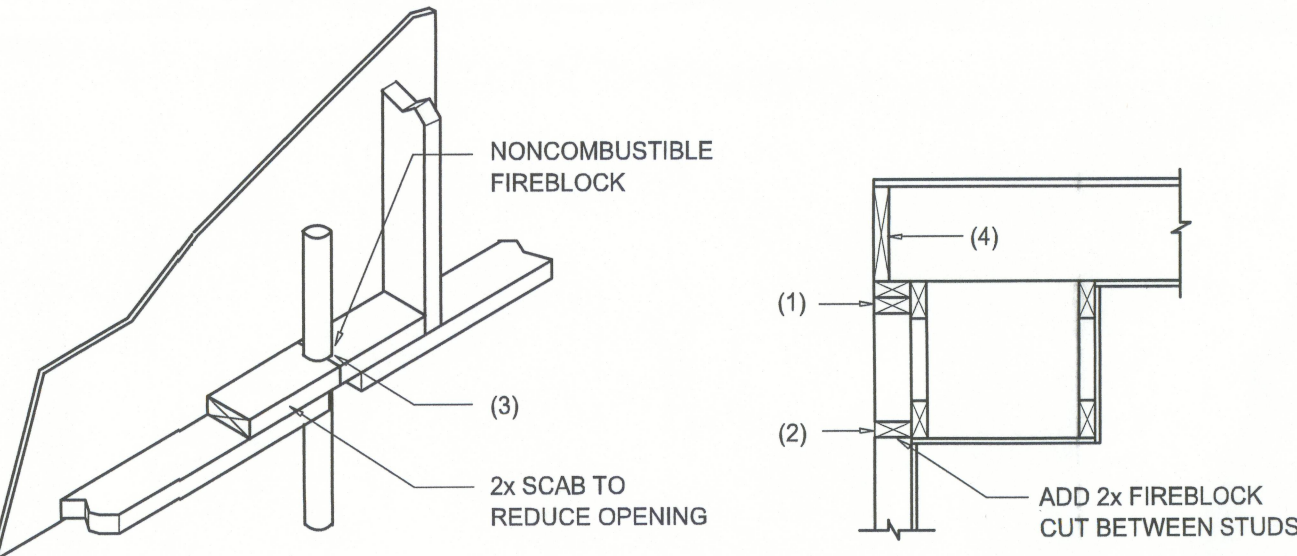
NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:
"SEMCO" PRODUCT APPROVAL:
MIAMI/DADE COUNTY REPORT #95-0818.15

NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04
SBCC1 NER-443, NER-393



PENETRATIONS

SOFFIT/DROPPED CLG.


FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.


Fire Stopping DETAILS

SCALE: NONE

A

 <div>45°</div> <div>21°</div> <div>1°</div> <div>BUILDING COMPONENTS & CLADDING LOADS</div> <div>MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"</div> <div>ROOF ANGLE 1° TO 21°</div>						
WIND ZONE	WIND DIRECTION	WIND SPEED (MPH)	WIND DIRECTION		WIND SPEED (MPH)	
			1	2	3	4
ROOF TO 21°	1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -21.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -21.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.3	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
WALL	4	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	4	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.1
	4	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
	5	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	5	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
WALL	6	10	19.5 / -21.1	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	6	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	6	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	7	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	7	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	8	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	8	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	8	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	9	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	9	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	10	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	10	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	10	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	11	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	11	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	12	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	12	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	12	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	13	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	13	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	14	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	14	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	14	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	15	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	15	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	16	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	16	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	16	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	17	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	17	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	18	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	18	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	18	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	19	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	19	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	20	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	20	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	20	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	21	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	21	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	22	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	22	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	22	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	23	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	23	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	24	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	24	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	24	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	25	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	25	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	26	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	26	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	26	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	27	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	27	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	28	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	28	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	28	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	29	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	29	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	30	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	30	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	30	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	31	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	31	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	32	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	32	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	32	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	33	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	33	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	34	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	34	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	34	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	35	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	35	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
WALL	36	10	19.5 / -21.1	23.2 / -25.4	27.2 / -34.3	31.6 / -39.8
	36	20	18.8 / -21.2	24.1 / -32.4	30.4 / -40.7	35.3 / -47.2
	36	50	18.5 / -24.6	23.2 / -39.3	29.0 / -38.0	33.7 / -44.0
	37	10	19.5 / -21.1	23.2 / -25.4	27.2 / -	

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.41
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 21° TO 45°						
	WIND ZONE		WIND DIRECTION		WIND SPEED (MPH)	
	1	2	1	2	1	2
	1	2	1	2	1	2
	1	2	1	2	1	2
	1	2	1	2	1	2
ROOF 21° TO 45°	1	10	19.9 / -21.8	23.7 / -25.9	27.8 / -30.4	32.3 / -35.3
	1	20	19.4 / -20.7	23.0 / -24.6	27.0 / -28.9	31.4 / -33.5
	1	50	18.6 / -19.2	22.2 / -22.8	26.0 / -26.8	30.2 / -31.1
	2	10	19.9 / -25.5	23.7 / -30.3	27.8 / -35.6	32.3 / -41.2
	2	20	19.4 / -24.3	23.0 / -29.0	27.0 / -34.0	31.4 / -39.4
	2	50	18.6 / -22.9	22.2 / -27.2	26.0 / -32.0	30.2 / -37.1
WALL	4	10	21.8 / -23.1	25.9 / -34.7	30.4 / -40.7	36.7 / -47.2
	4	20	20.8 / -22.6	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	4	50	19.5 / -21.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.6
	5	10	21.8 / -23.1	25.9 / -34.7	30.4 / -40.7	36.7 / -47.2
	5	20	20.8 / -22.6	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -21.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.6

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.41
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

NOTE !!!
ROOFSHINGLES SHALL BE AS MANUFACTURED BY "TAMKO ROOFING PRODUCTS" OF THE FOLLOWING MODELS:

GLASS-SEAL AR
ELITE GLASS-SEAL AR
HERITAGE 30 AR
HERITAGE 40 AR
HERITAGE 50 AR

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161 TYPE 1 MODIFIED TO 110 MPH WINDS & FBC TAS 100, USING 4 NAILS/SHINGLE

REVISIONS
March 08, 2024

SOFPLAN
ARCHITECTURAL DESIGN SOFTWARE

A CUSTOM HOME DESIGN FOR:
YASMANIS REYES
PROJECT ADDRESS: 301 NW COLEMAN PLACE, LAKE CITY, FLORIDA 32025

10/10/24
08 MAR 2024
AR0001005

NICHOLAS PAUL GEISHELT
ARCHITECT
N.C.A.R.B. Certified

1756 NW Brown Rd.
Lake City, FL 32055
(386) 365-4355

JOB NUMBER
20240227

SHEET NUMBER
S.3
OF 4 SHEETS