

ROOF VENT CALCULATION

FORMULA

1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING
 1.44 SQUARE INCHES = 1 SQUARE FOOT
 BUILDING CEILING (50 FT) x 144 = BUILDING (SQ IN)
 BUILDING (SQ IN) / 300 = SQ IN OF VENT REQUIRED

PER IRC SECTION R802.2, 40% MIN, BUT NOT MORE THAN 50% OF VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A MIN 3'-0" ABOVE EAVE

BASE OF CALCULATION:

(a) OFF RIDGE VENTS - STAMPCO W 36 SQ IN (IN/VA) PER LINEAL FT
 (b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W/ 9, 19 SQ IN (IN/VA) PER LINEAL FT

CALCULATED LINEAL FOOT OF SOFFIT VENT SHALL NOT INCLUDE UNIDENTIFIED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM PROPERTY LINE

AREA (SQ FT)	REQUIRED (SQ IN)	PROVIDED (SQ IN)

SOFFIT TABLE VENT SPECS

Double 5" perforated soffits has a 6.20 sq. inches/ sq. foot rating
 Triple 4" center vent soffits has a 1.95 sq. inches/ sq. foot rating
 Triple 4" full vent soffits has a 5.627 sq. inches/ sq. foot rating
 Triple 4" basketweave full vent has a 1.43 sq. inches/ sq. foot rating
 Triple 4" center vent has a 4.70 sq. inches/ sq. foot rating
 Beaded hidden vent soffits has 2.66 sq. inches/ sq. foot rating
 Triple 3-1/2" hidden vent soffits has a 9.19 sq. inches/ sq. foot rating

NOTE
 7/16" O.S.B. NAILED WITH 8D 6" O.C. IN FIELD & 4" O.C. ON EDGES

NOTE
 Simpson Strong-Tie Co. Strong-Drive 5DWC TRUSS Screws may be used for uplift connection in lieu of straps. Strong-Drive 5DWC TRUSS Screws to be installed per manufacturer's specifications.

Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8", maximum spacing of 24" o.c., may be used in lieu of 5/8"x10" anchor bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

ROOF SHEATHING FASTENING

- 4" O.C. GABLE END
- 6" O.C. EDGES (ALL ZONES)
- 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
- 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)

SEE FIGURE R803.2.3.1, SECTION R803.1, 2023 FLORIDA BUILDING CODE - RESIDENTIAL, 8TH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

ROOF FITCH LESS THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED
 OVERLAP ROOFING UNDERLAYMENT 4"(MIN) OVER HIP AND RIDGES
 BUTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY
 DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT AT EAVES
 ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION
 METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURERS SPECS
 1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING

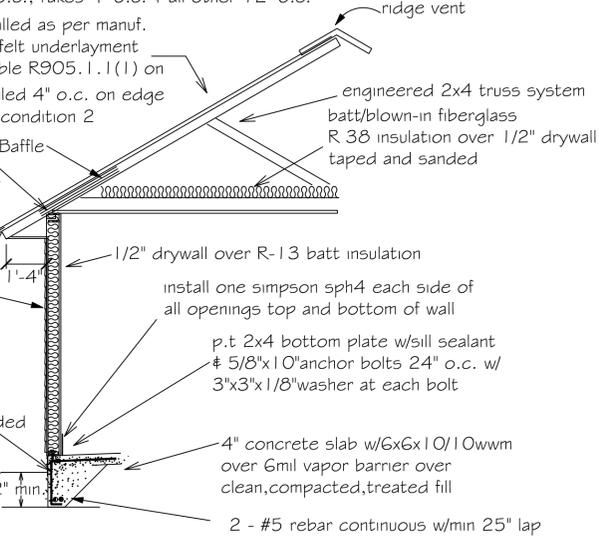
nailing of felt underlayment shall be hot dipped galv. roofing nails x 1" in length w/ tin or plastic tabs of 1" min. nom. dia. spacing: eaves 4" o.c., rakes 4" o.c. & all other 12" o.c.

architectural shingles installed as per manuf. specs, 30# ASTM D226 felt underlayment applied w/ 19" laps per table R905.1.1(1) on 7/16" cdx plywood or osb nailed 4" o.c. on edge and 6" o.c. in field as per condition 2

simpson h2.5T at each truss or as required by truss designer or Simpson 5DWC 15600

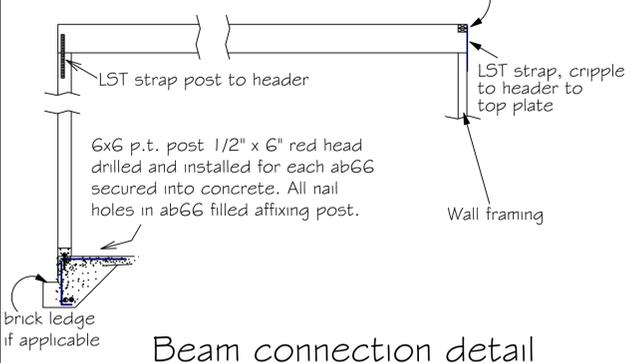
siding over vapor barrier over 7/16" Windboard O.S.B. nailed from bottom plate to top of double top plate with 8d @ 4" o.c. on edge and 6" o.c. in field as per condition 2

1 - #5 rod placed 72" O.C. up through footing into slab turned minimum 12" each way and embedded a minimum 6" into footing



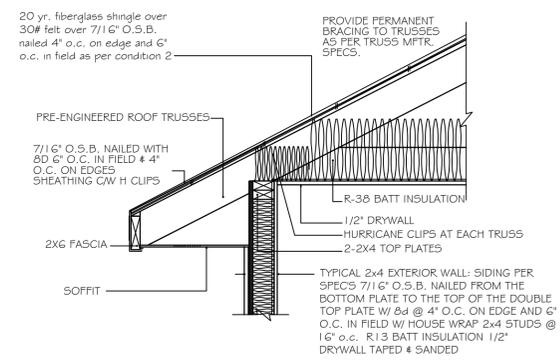
"AA" Windboard wall detail

Double 2" x 12" beam used without support posts for a maximum of 10' otherwise LVL must be used notched under double top plate with framing members under each beam. Fastened with 12d nails to top plate and framing members underneath.



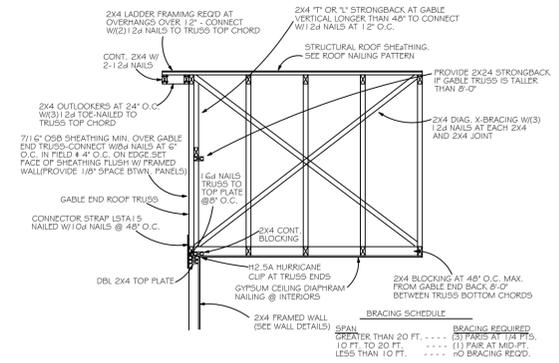
Beam connection detail

Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'
 Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
 Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One PA28 at both sides of opening embedded min 4" into concrete. LST 18 strap over trimmer to header each side.

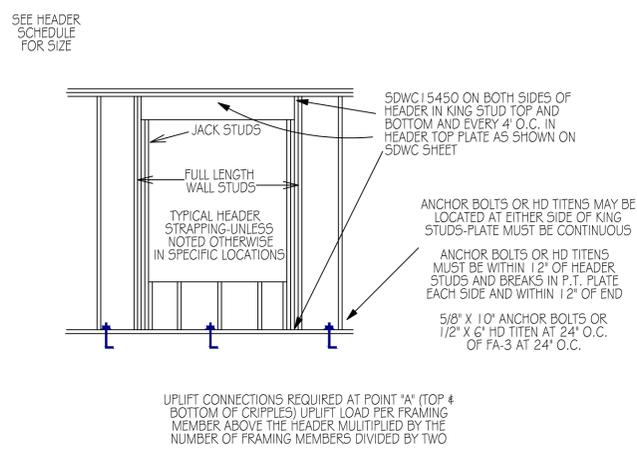


4" STUD EAVE

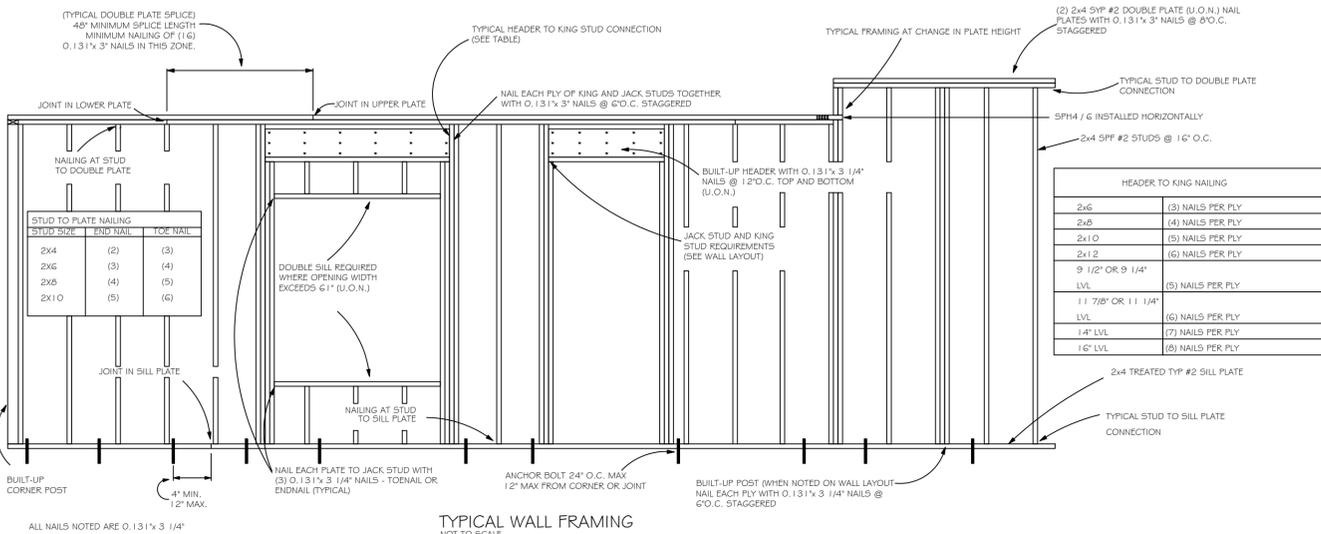
IF ANY DISCREPANCIES ARE FOUND IN THE PLANS, THE ENGINEERED PLANS SHALL APPLY.



GABLE END BRACING NOT TO SCALE



SDWC HEADER STRAPPING (TYPICAL)



TYPICAL WALL FRAMING NOT TO SCALE

HEADER SCHEDULE

2X STUD CONTINUOUS TO TOP PLATE
 HEADER - CONTINUOUS
 2 - 2X STUDS UNDER LINTELS WITH OPENINGS LARGER THEN 5'-0"

NOTE:
 UPLIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS AND AT TOP AND BOTTOM OF CRIPPLES

Opening Width	Bearing or Shear Wall	Non-Bearing Walls
0'-0" to 3'-0"	2 - 2 x 6's	2 - 2 x 4's
3'-1" to 5'-0"	2 - 2 x 10's	2 - 2 x 6's
5'-1" to 7'-0"	2 - 2 x 10's	2 - 2 x 8's
7'-1" to 10'-0"	2 - 2 x 10's	2 - 2 x 10's

Maximum Header Span	Number of Header Studs Supporting End of Header	Number of Full Length Studs at End of Header
3' 6' 9' 12' 15' 18'	1 1 2 2 2 2	2

CAROL CHADWICK, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO. 12566
 EXPIRES 12/31/2025

MARTIN GARAGE
 FRAMING DETAILS
 341 SW RIDGE STREET, LAKE CITY, FL

DATE: FEB. 4, 2025
 SHEET: 5-2