

(TYP.) INTERSECTING WALL FRAMING  
WOOD FRAME

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ROOF SHEATHING FASTENING TABLE (RAFTER / TRUSS $S_0 \leq 49$ )				
Wind Speed	Sheathing Thickness Plywood or OSB	Required Nail	Nail spacing along panel edges	Nail spacing along intermediate supports in the panel field
120 mph Exp. B	7/16"	ASTM F1667 RRSR-01 (2 3/8" x 0.113")	6" oc	12" oc
120 mph Exp. C	7/16"	ASTM F1667 RRSR-01 (2 3/8" x 0.113")	6" oc	6" oc
120 mph Exp. D	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	6" oc	6" oc
130 mph Exp. B	7/16"	ASTM F1667 RRSR-01 (2 3/8" x 0.113")	6" oc	6" oc
130 mph Exp. C	15/32"	ASTM F1667 RRSR-01 (2 3/8" x 0.113")	6" oc	6" oc
130 mph Exp. D	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	6" oc	6" oc
140 mph Exp. B	7/16"	ASTM F1667 RRSR-01 (2 3/8" x 0.113")	6" oc	6" oc
140 mph Exp. C	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	6" oc	6" oc
140 mph Exp. D	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	6" oc	6" oc
150 mph Exp. C	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	6" oc	6" oc
150 mph Exp. D	19/32"	ASTM F1667 RRSR-03 (2 1/2" x 0.131") or ASTM F1667 RRSR-04 (3" x 0.120")	4" oc	4" oc

Note: For sheathing located a minimum of 4 feet from the perimeter edge of the roof, including 4 feet on each side of ridges and hips, nail spacing is permitted to be 6 inches on center along panel edges and 6 inches on center along intermediate supports in the panel field. Note: This table specifies the code minimum thickness of roof sheathing. The thickness of the sheathing may need to be increased based on the type of roofing material being used. See manufacturer Florida product approval.

SPACE RAT RUN & DIAGONAL BRACE 6'-0" O.C.  
FOR GABLE HEIGHT UP TO 25'-0" 130 MPH, EXP. C, ENCLOSED

(TYP.) GABLE BRACING DETAIL  
WOOD FRAME

**TYPICAL HEADER STRAPING OR SCREW**  
**ONE STORY WOOD FRAME w/ STRAPS & ANCHORS**

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## SHEATHING FOR UPLIFT

### ATTACHMENT DETAILS

#### ONE STORY WOOD FRAME

(TYP.) GABLE WALL w/ VAULTED CEILING  
WOOD FRAME

DETAIL

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(TYP.) INTERIOR BEARING WALL  
ONE STORY WOOD FRAME w/ STRAPS & ANCHORS

- EXTEND GABLE SHEATHING TO BOTTOM OF HEADER RAISED WITH 60 NAILS (8) IN  
- INTO TRUSS BOTTOM CHORD AND INTO BEAM AT 1 1/2" FROM TOP & BOTTOM EDGE  
- ATTACH HEADER TO POST w/ (8) .131" x 3.25" TOE-NAIL

(TYP.) PORCH POST

ONE STORY WOOD

(TYP.) BEAM TO WALL  
WOOD FRAME w/ STRAPS & ANCHORS

ALLOWABLE UPLIFT  
1235 LB

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3/8" ROD USED IN PLACE OF  
OPENING UPLIFT STRAPPING  
(SEE PLAN FOR LOCATION)

EACH SIDE OF OPENINGS THAT REQUIRE UPLIFT STRAPPING  
EACH SIDE OF EACH CORNER  
AT BEAM TO WALL CONNECTIONS  
RODS FOR UPLIFT INSTEAD OF SHEATHING

(TYP.) GIRDER TRUSS HOLD DOWN DETAIL  
WOOD FRAME w/ STRAPS & ANCHORS

CONNECTOR TABLE					
Uplift SP	Uplift SP	Truss Connector	To Plate	To Truss/Rafter	
805	505	SDWC16500		-	
145	290	H5	4-8x4 1/2"	4-8x4 1/2"	
615	1245	H2A	5-8x4 1/2"	5-8x4 1/2"	
415	1015	H15A	9-10x1 9/16"	9-10x1 9/16"	
720	620	LT812-20	6-10x1 1/2"	6-10x1 1/2"	
1000	880	MTS12-30	7-10x1 1/2"	7-10x1 1/2"	
1450	1245	HT820-30	12-10x1 1/2"	12-10x1 1/2"	
Uplift SP	Uplift SP	Strap Ties	To One Member	To Other Member	
1235	1235	LS1724	9-10x1	9-10x1	
1640	1455	MTA274	9-10x1	9-10x1	
1030	1030	CS20	7-10x1	7-10x1	
Uplift SP	Uplift SP	Stud Plate Ties	To Stud	To Plate	
585	535	SP1	6-10x1	4-10x1	
1085	695	SP2	6-10x1		
771	771	LS1724	10-10x1	wrap under or over plate	
1235	1235	LS1724	14-10x1	wrap under or over plate	
Uplift SP	Uplift SP	Holdowns @ Stewall		Anchor	
1625	1800	DT722	8-SDS 1/4"x 12"	1/2"x12" Titen HD	
4235	3640	HT74	18-16x42 1/2"	1/2"x12" Titen HD	
Uplift SP	Uplift SP	Holdowns @ Mono		Anchor	
1855	1850	DT722	8-SDS 1/4"x 12"	1/2"x12" Titen HD	
4235	3640	HT74	18-16x42 1/2"	1/2"x12" Titen HD	
Uplift SP	Uplift SPF	Post Bases @ Stewwall	To Post	Anchor	
2400		AB1442	12-16x1	5/8"x12" Drill & Epoxy	
1475		AB1662	12-16x1	5/8"x12" Drill & Epoxy	
Uplift SP	Uplift SPF	Post Bases @ Mono	To Post	Anchor	
2400		AB1442	12-16x1	5/8"x12" Drill & Epoxy	
1475		AB1662	12-16x1	5/8"x12" Drill & Epoxy	

— ROOF SHEATHING

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# GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBOR. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, REACTION, UPLIFT, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL TRUSSES. THE DESIGNER SHALL PROVIDE THE FOLLOWING INFORMATION TO THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGN INFORMATION IS CORRECT AND THE ABOVE INFORMATION TO SELECT UPLIFT AND REACTION LOADS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEAM WALLS. BUILDER IS TO INSTRUCT TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR ALL TRUSS REACTION REACTION REACTION REACTION REACTION REACTION REACTION WITH MIN. UPLIFT CONNECTION 415LB EACH ENDS, 2X8 RAFTERS 700 LB EACH ENDS.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN.

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (APPROX. 1500 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOIL TEST PROVES OTHERWISE).

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F<sub>c</sub> = 2500 PSI.

WELDED WIRE REINFORCED SLAB: R# x W' x H' x 4' x 1' R# = 8X8KLS, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMED TO ASTM A186. LOCATED IN MIDSPAN OF ALL SUPPORTS. PROVIDE THE MANUFACTURER'S RECOMMENDATIONS FOR SPACING OF ALL REINFORCED MATERIALS TO ACHIEVE RATES OF CURE. NOT TO EXCEED 3".

FIBER CONCRETE SLAB: FIBER CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT CEMENT LAYER 12" THICK 102 CENTS. DOSAGE AMOUNTS FROM 1.5 TO 2.0 LBS PER CUBIC YARD. VERIFY THE MANUFACTURER'S RECOMMENDATIONS FOR FIBERS TO COMPLY WITH ASTM C 1116. SUPPLY TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB ON-GRADE SHALL BE LOCATED AT THE FOLLOWING LOCATIONS: (1) AT THE END OF EACH HOUR OF PLACEMENT. LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1:5. (2) TYPICAL SPACING OF JOINTS TO BE 12FT. DO NOT CUT W/M OR REINFORCING STEEL AT CONTROL JOINTS. PROVIDE 12" MIN. UPLIFT AND REACTION LOADS. VERIFY THE OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A615, GRADE 40, DEFORMED BARS, F<sub>y</sub> = 40 KSI. ALL SLAB SPICES 40" TO 48" FOR ALL REBAR. REBAR SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 305-86, U.N.O.

ROOF: SHEATHING: ALL ROOF AREAS ARE HORIZONTAL. DIAPHRAGMS, SHEATHING, UNLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONCRETE TO CONCRETE CONNECTIONS SHALL BE PROVIDED FOR EACH CONNECTION. PROVIDE AN EQUIVALENT DESIGN OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS MEETS THE REQUIREMENTS OF THE MANUFACTURER'S DESIGN AND IS SUBJECT TO OWNER AND CONTRACTOR TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 1" IN CONCRETE OR REINFORCED BOND BEAM OR TIEUP.

**BUILDER'S RESPONSIBILITY:**

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE NOT PART OF THIS PLAN AND ARE NOT THE DESIGN ENGINEER'S SCOPE OF WORK:

CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBOR REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU PROVIDE AN ALTERNATE LOAD PATH TO THE WIND LOAD ENGINEER, IT IS THE WIND LOAD ENGINEER IMMEDIATELY.

VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, REACTION, UPLIFT, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

**ROOF SYSTEM DESIGN:**

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBOR, IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN ACCORDANCE WITH FBOR. THE DESIGNER SHALL PROVIDE THE FOLLOWING INFORMATION TO THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER DESIGN ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN. THE BUILDER SHALL PROVIDE THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBOR REQUIRED LOADS. THE BUILDER SHALL PROVIDE THE TRUSS MANUFACTURER WITH A REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL MOVEMENT OF THE TRUSS MEMBER. THE BUILDER SHALL PROVIDE THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER AS ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEET.

#### DESIGN CRITERIA & LOADS:

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