

PLYWOOD ROOF DECKING:

1. DECKING SHALL BE 5/8" APA-CDX RATED PLYWOOD SHEATHING 32/16 (EXPOSURE 1)
2. CRENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT. END JOINT SHALL BE ALIGNED WITH THE MIDPOINT OF THE TWO ADJACENT PANELS. NO CONTINUOUS PANEL JOINTS ARE PERMITTED. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (NO SINGLE SPAN CONDITIONS)
3. ATTACHMENT OF PANEL TO WOOD FRAMING MEMBERS SHALL BE 10D NAILS AT THE FOLLOWING SPACINGS, UNLESS OTHERWISE NOTED:
4" AT ROOF PERIMETER
6" AT PANEL EDGES
12" AT INTER-MEDIATE SUPPORTS
4. EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

PLYWOOD WALL SHEATHING:

1. 1/2" APA-CDX SHEATHING FOR WOOD SHEAR WALLS
2. ATTACH SHEATHING TO WOOD STUDS WITH 8D NAILS AT FOLLOWING SPACINGS (UNLESS NOTED OTHERWISE) (SEE 5-91 FOR MORE INFORMATION)
6" PERIMETER OF SHEETS
12" INTER-MEDIATE STUDS
3. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x STUDS.

MASONRY:

1. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 308-11, AND ACI 308-11M
2. MASONRY SHALL BE MEDIUM-WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH f_m OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C210 TYPE S OR M. GROUT SHALL CONFORM TO ASTM C416, WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
3. REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60 UNLESS NOTED OTHERWISE.
4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED LACQUER TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 3 GAUGE SIDE RODS AND 3 GAUGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE CONFORMING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
5. MASONRY PLASTERS SHALL BE LOCATED ADJACENT TO CONTROL OR EXPANSION JOINTS PER TYPICAL DETAILS.
6. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
7. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
8. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
9. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING NOR 10 FEET.
10. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL. AREA NOT LESS THAN 24/2" x 3".
11. GROUTING SHALL BE STOPPED 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
12. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
13. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION.
14. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR.
15. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4" PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (2) #5 BARS CONTINUOUS TOP AND BOTTOM.
16. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.
17. ALL MASONRY WALLS SHALL BE ASSUMED TO BE RUNNING BOND, UNLESS NOTED OTHERWISE IN PLAN OR SECTION.
18. MASONRY MORTAR SHALL BE TYPE 'S' AND CONFORM TO ASTM C-270.

VERIFICATION AND SPECIAL INSPECTION:

1. THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTS DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY SECTIONS 1704, 1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION AND TEST REPORTS TO THE OWNER, ARCHITECT AND BUILDING OFFICIAL AND STRUCTURAL ENGINEER. REPORTS WHICH INDICATES THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS, REPORTS WHICH DOCUMENT THE RESULTS OF THE SPECIAL INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. ANNUAL REPORT DOCUMENTS ALL THE WORK HAS BEEN PERFORMED IN COMPLIANCE WITH CONTRACT DOCUMENTS SHALL BE SUBMITTED AT THE END OF THE PROJECT.
3. SEE THE PROJECT SPECIFICATIONS AND SECTION 1704 OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION AND TESTING DEFINITIONS.
 1. SPECIAL INSPECTION PERIODIC: A PART-TIME OR INTERMITTENT OBSERVATION WORKER PRESENT FOR THE REQUIRED PRESENCE WHEN THE WORK IS BEING PERFORMED. A PART-TIME OBSERVER OF THE WORK. PRESENCE AT THE JOB SITE SHALL BE WEAR THE INSPECTOR'S FULL-TIME OBSERVATION OF WORK REQUIRING CONTINUOUS JOB PRESENCE WHEN AND WHERE THE WORK IS BEING PERFORMED.

TABLE 2304.3.1 FASTENING SCHEDULE

CONNECTION	FASTENING ^{a,b}	LOCATION
1. Joist to sill or girder	3 - 8d common (2 1/2" x 0.131") 3 - 3" x 0.131" nails 3 - 2" x 1/4" gage staples	Joist end
2. Bridging to joist	2 - 8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 2 - 3" x 1/4" gage staples	Joist end
3. 4" x 8" subfloor joists to each joist	2 - 8d common (2 1/2" x 0.131")	Face nail
4. Water than 1" x 8" subfloor to each joist	3 - 8d common (2 1/2" x 0.131")	Face nail
5. 2" subfloor to joist or girder	2 - 8d common (2 1/2" x 0.131") 1/2" (2 1/2" x 0.131") at 16" o.c. 1" x 1/4" gage staples at 12" o.c.	End and face nail
6. Sill plate to joist or blocking	3 - 1/2" x 0.131" nails at 24" o.c. 3 - 1/4" gage staples at 12" o.c.	Special face nail
7. Sill plate to post or blocking at braced wall panel	3 - 1/2" x 0.131" nails at 24" o.c. 3 - 1/4" gage staples at 12" o.c.	Braced wall panels
8. Top plate to stud	2 - 3" x 0.131" nails 3 - 1/4" gage staples	End nail
9. Stud to sill plate	4 - 8d common (2 1/2" x 0.131") 4 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
10. Double studs	2 - 8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	End nail
11. Double studs	1/2" (2 1/2" x 0.131") at 24" o.c. 3/4" x 0.131" nail at 8" o.c. 3" x 1/4" gage staples at 8" o.c.	Face nail
12. Enable top plates	1/2" (2 1/2" x 0.131") at 10" o.c. 3/4" x 0.131" nail at 12" o.c. 3" x 1/4" gage staples at 12" o.c.	Typical face nail
13. Double top plates	2 - 8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Top splice
14. Blocking between joists or refers to top plate	3 - 8d common (2 1/2" x 0.131") 3 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Joist end
15. Rim joist to top plate	2 - 8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails at 8" o.c. 3" x 1/4" gage staples at 8" o.c.	Joist end
16. Top plates, laps and intersections	2 - 10d common (3 1/2" x 0.162") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
17. Continuous header, two pieces	2 - 10d common (3 1/2" x 0.162") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	16" o.c. along edge
18. Ceiling joists to plate	3 - 8d common (2 1/2" x 0.131") 3 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
19. Continuous header to stud	4 - 8d common (2 1/2" x 0.131")	Joist end

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING REINFORCING TENDONS AND PLACEMENT.		X	ACI 308-11, 308-11M	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.3.2 ITEM 2B.		X	AWS D14, ACI 308-11M	
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.		X	ACI 308-11, 308-11M	1910.5
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X	ACI 308-11, 308-11M	1910.5
5. VERIFYING USE OF REQUIRED DESIGN PK.		X	ACI 308-11, 308-11M	1910.5
6. AT THE TIME THE FRESH CONCRETE IS SHAVED TO FURNISH SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C172, ASTM C31, ACI 308-11, 308-11M	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	ACI 308-11, 308-11M	1910.6, 1910.7, 1910.8
8. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	ACI 308-11, 308-11M	1905.1, 1905.1B, 1910.9
9. INSPECTION OF STRESSED CONCRETE, INCLUDING APPLICATION OF TENDONS, TENSIONING FORCE, GROUTING AND CURING TENDONS IN PRECAST/PREFABRICATED SYSTEMS.	X		ACI 308-11, 308-11M	1910.18, 20, ACI 308-18, 18.4
10. INSPECTION OF PRECAST CONCRETE MEMBERS.		X	ACI 308-11, 308-11M	
11. INSPECTION OF IN-SITU CONCRETE STRENGTH PRIOR TO PRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X	ACI 308-11, 308-11M	1910.6.2
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 308-11, 308-11M	1910.6.11

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION & INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

TABLE 2304.3.1—continued FASTENING SCHEDULE

CONNECTION	FASTENING ^{a,b}	LOCATION
17. Ceiling joists, laps over partitions (see Section 2308.10.4.1, Table 2308.10.4.1)	3 - 10d common (3 1/2" x 0.162") minimum, Table 2308.10.4.1 4 - 3" x 0.131" nails 4 - 3" x 1/4" gage staples	Face nail
18. Ceiling joists to parallel refers (see Section 2308.10.4.1, Table 2308.10.4.1)	3 - 10d common (3 1/2" x 0.162") minimum, Table 2308.10.4.1 4 - 3" x 0.131" nails 4 - 3" x 1/4" gage staples	Face nail
19. Refer to plate (see Section 2308.10.1, Table 2308.10.1)	3 - 8d common (2 1/2" x 0.131") 3 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
20. 1" diagonal brace to each stud and plate	2 - 8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
21. 1" x 8" sheathing to each bearing	3 - 8d common (2 1/2" x 0.131")	Face nail
22. Water than 1" x 8" sheathing to each bearing	3 - 8d common (2 1/2" x 0.131")	Face nail
23. Built-up corner studs	1/2" (2 1/2" x 0.131") 3" x 0.131" nails 3" x 1/4" gage staples	24" o.c. 18" o.c. 10" o.c.
24. Built-up girder and beams	2/4" common (4" x 0.162") 3" x 0.131" nails 3" x 1/4" gage staples	Face nail at top and bottom staggered on opposite sides
25. 2" planks	1/2" (2 1/2" x 0.131") 3" x 0.131" nails 3" x 1/4" gage staples	Face nail at top and bottom staggered on opposite sides
26. Corner tie in rafter	3 - 10d common (3 1/2" x 0.162") 4 - 3" x 0.131" nails 4 - 3" x 1/4" gage staples	Face nail
27. Jack rafter to hip	3 - 10d common (3 1/2" x 0.162") 4 - 3" x 0.131" nails 4 - 3" x 1/4" gage staples	Face nail
28. Roof rafter to 2-by ridge beam	2 - 10d common (3 1/2" x 0.162") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail
29. Joist to board joist	2 - 10d common (3 1/2" x 0.162") 2 - 3" x 0.131" nails 3 - 3" x 1/4" gage staples	Face nail

TABLE 2304.5.1—continued FASTENING SCHEDULE

CONNECTION	FASTENING ^{a,b}	LOCATION
30. E-edge edge	3 - 10d common (3 1/2" x 0.162") 4 - 3" x 0.131" nails 4 - 3" x 1/4" gage staples	Face nail at end of joist
31. Wood structural panels and particle board ^c (subfloor, roof and wall sheathing (to framing))	1/2" end nail 2 1/2" x 0.113" nail ^d 1 1/2" x 1/4" gage ^e 2 1/2" x 1/4" nail ^f 3/4" x 1/4" nail ^g 1/2" x 1/4" nail ^h 1/2" x 1/4" nail ⁱ 1/2" x 1/4" nail ^j 1/2" x 1/4" nail ^k 1/2" x 1/4" nail ^l 1/2" x 1/4" nail ^m 1/2" x 1/4" nail ⁿ 1/2" x 1/4" nail ^o 1/2" x 1/4" nail ^p 1/2" x 1/4" nail ^q 1/2" x 1/4" nail ^r 1/2" x 1/4" nail ^s 1/2" x 1/4" nail ^t 1/2" x 1/4" nail ^u 1/2" x 1/4" nail ^v 1/2" x 1/4" nail ^w 1/2" x 1/4" nail ^x 1/2" x 1/4" nail ^y 1/2" x 1/4" nail ^z 1/2" x 1/4" nail ^{aa} 1/2" x 1/4" nail ^{ab} 1/2" x 1/4" nail ^{ac} 1/2" x 1/4" nail ^{ad} 1/2" x 1/4" nail ^{ae} 1/2" x 1/4" nail ^{af} 1/2" x 1/4" nail ^{ag} 1/2" x 1/4" nail ^{ah} 1/2" x 1/4" nail ^{ai} 1/2" x 1/4" nail ^{aj} 1/2" x 1/4" nail ^{ak} 1/2" x 1/4" nail ^{al} 1/2" x 1/4" nail ^{am} 1/2" x 1/4" nail ^{an} 1/2" x 1/4" nail ^{ao} 1/2" x 1/4" nail ^{ap} 1/2" x 1/4" nail ^{aq} 1/2" x 1/4" nail ^{ar} 1/2" x 1/4" 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