A. GENERAL

- 1. APPLICABLE CODES. ALL PROJECTS SHALL COMPLY WITH THE 2019 CALIFORNIA BUILDING CODE (CBC) AND/OR CALIFORNIA RESIDENTIAL CODE (CRC), 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA FIRE CODE (CFC), AND THE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (CBEES).
- 2. NOTES AND DETAILS OR THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE NOTES. THE DETAILS ON THE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, DETAILS OF A CHARACTOR SIMILAR TO THOSE SHOWN SHALL BE USED, SUBJECT TO REVIEW.
- 3. THIS PLAN DOES NOT ADDRESS FLOOD ZONES, WILDLAND URBAN INTERFACE (WUI), DISTANCE TO PROPERTY LINE, DISTANCE TO BUILDINGS ONSITE, ETC., SO THE DESIGNER HAS A CHOICE TO EITHER PROVIDE INFORMATION FOR SOME OR ALL THESE ITEMS NOW, FACE ADDITIONAL PLAN REVIEW AS THESE ISSUES ARISE UPON SUBMITTAL FOR PERMITS. OR BE LIMITED AS TO WHERE THESE UNITS MAY BE LOCATED.

B. ELECTRICAL, PLUMBING, AND MECHANICAL

- 1. EXTERIOR LIGHTING. ALL PROJECTS SHALL COMPLY WITH THE RESPECTIVE CITY'S MUNICIPAL CODE
- 2. GFCI OUTLETS. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLETS ARE REQUIRED IN BATHROOMS, AT KITCHEN COUNTERTOPS, AT LAUNDRY AND WET BAR SINKS, IN GARAGES, IN CRAWLSPACES, IN UNFINISHED BASEMENTS, AND OUTDOORS. (CEC 210.8)
- 3. AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR
- SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12) 4. LUMINAIRE REQUIREMENTS. INSTALLED LUMINAIRES SHALL MEET THE EFFICACY AND FIXTURE REQUIREMENTS OF CBEES 150.0(K)
- 5. SMOKE DETECTORS IN BUILDING REMODELS. SMOKE DETECTORS ARE REQUIRED IN EACH EXISTING SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS. AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. BATTERY-OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH NO CONSTRUCTION TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING
- FINISHES AND WITHOUT ACCESS VIA AN ATTIC. CRAWL SPACE. OR BASEMENT. CARBON MONOXIDE DETECTORS IN BUILDING REMODELS. CARBON MONOXIDE DETECTORS ARE SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH STORY OF INCLUDING BASEMENTS. BATTERY-OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING FINIS WITHOUT ACCESS VIA AN ATTIC, CRAWL SPACE, OR BASEMENT. (CRC R315.3)
- 7. WATER HEATER SEISMIC STRAPPING. MINIMUM TWO 3/4-INCH-BY-24-GAUGE STRAPS REQUIRED AROL HEATERS, WITH 1/4-INCH-BY-3-INCH LAG BOLTS ATTACHED DIRECTLY TO FRAMING. STRAPS SHALL WITHIN UPPER THIRD AND LOWER THIRD OF WATER HEATER VERTICAL DIMENSION. LOWER CONNECTION MINIMUM 4 INCHES ABOVE CONTROLS. (CPC 507.2)
- GAS APPLIANCES IN GARAGES. WATER HEATERS AND HEATING/COOLING EQUIPMENT VAPORS SHALL BE PLACED ON MINIMUM 18-INCH-HIGH PLATFORM UNLESS LISTING REPORT NUMBER SHOWING IGNITION-RESISTANT APPLIANCE. (CPC 507.13 AND CMC 305.1)
- 9. IMPACT PROTECTION OF APPLIANCES. WATER HEATERS AND HEATING/COOLING EQUIPMENT IMPACT SHALL BE PROTECTED BY BOLLARDS OR AN EQUIVALENT MEASURE. (CPC 507.13.1 AND CMC 10. WATER CLOSET CLEARANCE. MINIMUM 30-INCH-WIDE BY 24-INCH-DEEP CLEARANCE REQUIRED AT FR
- ENCOMPASS A 30-INCH-DIAMETER CIRCLE. SHOWER DOORS SHALL HAVE A MINIMUM 22-INCH UNOE
- (CPC 408.5 AND CPC 408.6) CONFIGURATIONS. (CMC 303.7.1)
- PASSES THROUGH ROOF. (CRC R1003.9)

MECHANICAL VENTILATION AND INDOOR AIR QUALITY (ASHRAE 62.2-2010) С.

- 1. TRANSFER AIR. VENTILATION AIR SHALL BE PROVIDED DIRECTLY FROM THE OUTDOORS AND NOT AS ATTICS. (CBEES 150.0(0))
- 2. INSTRUCTIONS AND LABELING. VENTILATION SYSTEM CONTROLS SHALL BE LABELED AND THE HOME OW
- SYSTEMS SHALL BE DESIGNED TO PREVENT BACK DRAFTING. (CBEES 150.0(0))
- 4. GARAGES. THE WALL AND OPENINGS BETWEEN OCCUPIABLE SPACES AND THE GARAGE SHALL BE SEAL SYSTEMS THAT INCLUDE AIR HANDLERS OR RETURN DUCTS LOCATED IN GARAGES SHALL HAVE TOTAL NO MORE THAN 6% OF TOTAL FAN FLOW WHEN MEASURED AT 0.1 IN. W.C. USING CALIFORNIA TITLE EQUIVALENTS. (CBEES 150.0(0))
- MINIMUM FILTRATION. MECHANICAL SYSTEMS SUPPLYING AIR TO OCCUPIABLE SPACE THROUGH DUCTWO
- PROVIDED WITH A FILTER HAVING A MINIMUM EFFICIENCY OF MERV 13 OR BETTER. (CBEES 150.0(0)) AIR INLETS. AIR INLETS (NOT EXHAUST) SHALL BE LOCATED AWAY FROM KNOWN CONTAMINANTS. (CBEES 150.0(0))
- AIR MOVING EQUIPMENT. AIR MOVING EQUIPMENT USED TO MEET EITHER THE WHOLE-BUILDING VENTILATION REQUIREMENT OR THE LOCAL VENTILATION EXHAUST REQUIREMENT SHALL BE RATED IN TERMS OF AIRFLOW AND SOUND. (CBEES 150.0(0)) ALL CONTINUOUSLY OPERATING FANS SHALL BE RATED AT A MAXIMUM OF 1.0 SONE.
 - INTERMITTENTLY OPERATED WHOLE-BUILDING VENTILATION FANS SHALL BE RATED AT A MAXIMUM OF 1.0 SONE.
 - C. INTERMITTENTLY OPERATED LOCAL EXHAUST FANS SHALL BE RATED AT MAXIMUM OF 3.0 SONE.
 - D. REMOTELY LOCATED AIR-MOVING EQUIPMENT (MOUNTED OUTSIDE OF HABITABLE SPACES) NEED NOT MEET SOUND REQUIREMENTS IF AT LEAST 4 FEET OF DUCTWORK BETWEEN FAN AND INTAKE GRILL.

D. FOUNDATION

- 1. COMPACTION REPORT. COMPACTION REPORT REQUIRED FOR FILL MATERIAL 12 INCHES OR MORE IN DEPTH. (CBC
- 1803.5.8)
- 2. FOUNDATION REINFORCEMENT. CONTINUOUS FOOTINGS AND STEM WALLS SHALL BE PROVIDED WITH A MINIMUM TWO
- LONGITUDINAL NO. 4 BARS, ONE AT THE TOP AND ONE AT THE BOTTOM OF THE FOOTING. (CRC R403.1.3.3) 3. INTERIOR BRACED WALL FOUNDATION SUPPORT. BRACED WALLS SHALL BE SUPPORTED BY CONTINUOUS FOUNDATIONS. (CRC 403.1.3.4)
- 4. HORIZONTAL REINFORCEMENT SHALL BE THE LONGEST LENGTHS PRACTICAL. WHERE SPLICES ARE NECESSARY IN REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE 40 BAR DIAMETERS. THE MAXIMUM GAP BETWEEN NONCONTACT PARALLEL BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER OF ONE-FIFTH THE REQUIRED LAP LENGTH AND 6 INCHES [SEE FIGURER608.5.4(1)]
- VAPOR RETARDER. A 6-MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED MINIMUM 6 INCHES
- SHALL BE PLACED BETWEEN A CONCRETE SLAB-ON-GRADE AND THE BASE COURSE OR SUBGRADE. (CRC 506.2.3) 6. ANCHOR BOLTS AND SILLS. FOUNDATION PLATES OR SILLS SHALL BE BOLTED OR ANCHORED TO THE FOUNDATION OR FOUNDATION WALL PER THE FOLLOWING (CRC R403.1.6 AND CRC R602.11.1):
 - A. MINIMUM 1/2-INCH-DIAMETER STEEL BOLTS, ASTM F1554, GR36
 - B. BOLTS EMBEDDED AT LEAST 7 INCHES INTO CONCRETE OR MASONRY
 - C. BOLTS SPACED MAXIMUM 6 FEET ON CENTER MINIMUM TWO BOLTS PER PLATE/SILL PIECE WITH ONE BOLT LOCATED MAXIMUM 12 INCHES AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SILL PLATE/PIECE
- MINIMUM 3-INCH BY 3-INCH BY 0.229-INCH STEEL PLATE WASHER BETWEEN SILL AND NUT ON EACH BOLT 7. HOLD-DOWNS. ALL HOLD-DOWNS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION
- 8. PROTECTION OF WOOD AGAINST DECAY. NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS (CRC R317.1):
 - A. ALL WOOD IN CONTACT WITH GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH GROUND, OR EMBEDDED IN CONCRETE EXPOSED TO WEATHER
 - WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD

The following plan set is an example only. The sheets included in th set are pulled from four pre-reviewed plan sets that are available for local agencies in the San Joaquin Valley. The plans will require furtl CLOSETS. (CPC 402.5) 11. SHOWER SIZE. SHOWER COMPARTMENTS SHALL HAVE MINIMUM AREA OF 1024 SQUARE INCHES AND B 11. SHOWER SIZE. SHOWER COMPARTMENTS SHALL HAVE A MINIMUM AREA OF 1024 SQUARE INCHES AND B INCH-DIAMETER CIRCLE. SHOWER DOORS SHALL HAVE A MINIMUM 22-INCH UNOB 12. FIREPLACE APPLIANCES. FIREPLACES WITH GAS APPLIANCES ARE REQUIRED TO HAVE THE FLUE DAMPE **before they are made available to the public. Interested local agen** FIXED IN THE OPEN POSITION AND FIREPLACES WITH LPG APPLIANCES ARE TO HAVE NO 'PIT' OR 'SU 13. CHIMNEY CLEARANCE. MINIMUM 2-FOOT CHIMNEY CLEARANCE REQUIRED ABOVE BUILDING WITHIN 10-F Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the should fill in the "Technical Assistance Request" form on the San Joan Joan Should fill in the should fill the should fill in the should fill in the should fill in the should fill in the should fill Valley REAP Webpage at www.sjvcogs.org/reap/reap-technical-ass ADJACENT DWELLING UNITS OR OTHER SPACES, SUCH AS GARAGES, UNCONDITIONED CRAWLSPACES, O for ADUS. The full plan sets can be provided as CAD files. There is als attics. (CBEES 150.0(0)) 3. PROVIDED WITH INSTRUCTIONS ON HOW TO OPERATE THE SYSTEM. (CBEES 150.0(0)) 3. COMBUSTION AND SOLID-FUEL BURNING APPLIANCES. COMBUSTION APPLIANCES SHALL BE PROPERLY **funding available on a first come, first served basis for assistance w** revising the plan sets for approval by your agency.



E. WOOD FRAMING

MANUFACTURED ROOF TRUSSES WILL BE A DEFERRED SUBMITTAL

- FASTENER REQUIREMENTS. THE NUMBER, SIZE, AND SPACING OF FASTENERS CONNECTING WOOD MEMBERS/ELEMENTS SHALL NOT BE LESS THAN THAT SET FORTH IN CRC TABLE R602.3(1). (CRC R602.3) 2. SILL PLATE. STUDS SHALL HAVE FULL BEARING ON NOMINAL 2-INCH THICK OR LARGER SILL PLATE WITH WIDTH AT LEAST EQUAL TO STUD WIDTH. (CRC R602.3.4) BEARING STUDS. WHERE JOISTS, TRUSSES, OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH MEMBERS SHALL BEAR WITHIN 5 INCHES OF
 - THE STUDS BENEATH. (CRC R602.3.3) EXCETPTION: THE TOP PLATES ARE TWO 2-INCH BY 6-INCH OR TWO 3-INCH BY 4- INCH MEMBERS. DRILLING AND NOTCHING OF STUDS. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR
 - NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60% OF THE STUD WIDTH, THE EDGE OF THE HOLE I NO MORE THAN 5/8 INCH TO THE EDGE OF THE STUD. AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH. STUDS LOCATED IN EXTERIOR WALL OR BEARING PARTITIONS DRILLED OVER 40% AND UP TO 60% SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE STUDS BORED. (CRC R602.6) EXCEPTION: USE OF APPROVED STUD SHOES IS PERMITTED WHERE THEY ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.
- TOP PLATE. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES. JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE MINIMUM NOMINAL 2 INCHES THICK AND HAVE WIDTH AT LEAST EQUAL TO WIDTH OF STUDS. (CRC R602.3.2) 6. TOP PLATE SPLICES. TOP PLATE LAP SPLICES SHALL BE FACE-NAILED WITH MINIMUM 8 16D NAILS ON EACH SIDE

TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS ONE THICKNESS OF 23/32-INCH WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 23/32-INCH WOOD STRUCTURAL PANEL ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD 1/2-INCH GYPSUM BOARD 1/4-INCH CEMENT-BASED MILLBOARD BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OF OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10-FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS. UNFACED FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS-SECTION OF THE WALL CAVITY TO A MINIMUM HEIGHT OF 16 INCHES MEASURED VERTICALLY. WHEN PIPING, CONDUIT, OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. 18. FIREBLOCKING AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING AND FLOOR LEVEL. SUCH OPENINGS SHALL BE FIREBLOCKED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. (CRC R302.11) 19. FIREBLOCKING OF CHIMNEYS AND FIREPLACES. ALL SPACES BETWEEN CHIMNEYS AND FLOORS AND CEILINGS THROUGH WHICH CHIMNEYS PASS SHALL BE FIREBLOCKED WITH NONCOMBUSTIBLE MATERIAL SECURELY FASTENED IN PLACE. THE FIREBLOCKING OF SPACES BETWEEN CHIMNEYS AND WOOD JOISTS, BEAMS, OR HEADERS SHALL BE SELF-SUPPORTING OR BE PLACED ON STRIPS OF METAL OR METAL LATH LAID ACROSS THE SPACES BETWEEN COMBUSTIBLE MATERIAL AND THE CHIMNEY. (CRC R1003.19) 20. DRAFTSTOPPING. IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES (CRC R302.12): A. CEILING IS SUSPENDED UNDER THE FLOOR FRAMING B. FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS 21. DRAFTSTOPPING MATERIALS. DRAFTSTOPPING SHALL NOT BE LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH WOOD STRUCTURAL PANELS, OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED. (CRC R302.12.1) 22. COMBUSTIBLE INSULATION CLEARANCE. COMBUSTIBLE INSULATION SHALL BE SEPARATED MINIMUM 3 INCHES FROM RECESSED LUMINAIRES, FAN MOTORS, AND OTHER HEAT-PRODUCING DEVICES. (CRC R302.14)

SHEE ⁻	T INDEX
COVER	SHEETS
C1	COVER SHEET 1
C2	COVER SHEET 2
ARCHITE	ECTURAL SHEETS
A1	FLOOR PLAN
A2	SECTIONS
A3	ELEVATION A
A4	ELEVATION B
A5	ELEVATION C
STRUCT	URAL SHEETS
S1	FOUNDATION PLAN
S2	ROOF FRAMING PLAN
S3	STRUCTURAL DETAILS
ELECTRI	CAL SHEETS
E1	ELECTRICAL PLAN
CALGRE	EN FORMS
G 1	CALGREEN FORM PT. 1
G2	CALGREEN FORM PT. 2

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FOR STRUCTURAL ITEMS THAT DO MEET THE REQUIREMENTS OF

POSTS SHALL BE NO. 2 GRADE DOUGLAS FIR-LARCH OR BETTER. BE STUD-GRADE DOUGLAS FIR-LARCH OR BETTER WHEN supporting not more than one floor, ROOF, AND CEILING. STUDS LONGER THAN 8 FEET SHALL BE NO. 2

GRADE DOUGLAS FIR-LARCH OR BETTER.

2. STUCTURAL PLYWOOD SHALL CONFORM TO COMMERIAL STANDARD DOC PS 1-09 AND HAVE A PANEL GRADE OF C-D. WOOD BASED STRUCTURAL -USE PANELS (I.E. ORIENTED STRAND BOARD) SHALL CONFORM TO THE APA PRP-108 PERFORMANCE STANDARD OF THE VOLUNTARY PRODUCT STANDARD DOC PS 2-10. "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS". PUBLISHED BY THE DEPARTMENT OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION. ALL PLYWOOD AND STRUCTURAL-USE PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1. SHEATHING EXPOSED TO WEATHER SHALL BE GRADE C-C EXTERIOR WITH A RANGE INDEX AS TO MATCH BODY OF DIAGRAM SPECIFIED.

3. CONCRETE. THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE (CBC), EXCEPT ITEMS NOT SPECIFICALLY COVERED THERIN SHALL ALSO CONFORM TO ACI 318-14. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS (CRC R402.2)

4. REINFORCING STEEL. REINFORCING STEEL USED IN CONSTRUCTION OF REINFORCED CONCRETE STRUCTURES SHALL BE DEFORMED AND COMPLY WITH ASTM A 615., GRADE 40 (CRC R403.1.3.5.1) FASTENERS FOR PRESERVATIVE-TREATED WOOD. FASTENERS FOR PRESERVATIVE-TREATED AND

FIRE-RETARDANT-TREATED WOOD - INCLUDING NUTS AND WASHERS -- SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. (CRC R317.3.1) EXCEPTION: 1/2-INCH DIAMETER OR GREATER STEEL BOLTS

EXCEPTION: FASTENERS OTHER THAN NAILS AND TIMBER RIVETS MAY BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM EXCEPTION: PLAIN CARBON STEEL FASTENERS ACCEPTABLE IN SBX/DOT AND ZINC BORATE

PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT

FASTENERS FOR FIRE-RETARDANT-TREATED WOOD. FASTENERS FOR FIRE-RETARDANT-TREATED WOOD USED IN EXTERIOR APPLICATIONS OR WET OR DAMP LOCATIONS SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. (CRC R317.3.3)



DISCLAIMER: BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE COUNTY OF ____ _ FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

G. ROOFING AND WEATHERPROOFING

- 1. ROOF COVERING. ALL ROOF COVERING SHALL BE INSTALLED PER APPLICABLE REQUIREMENTS OF CBC 1507. ROOF COVERINGS SHALL BE AT LEAST CLASS A RATED IN ACCORDANCE WITH ASTM E 108 OR UL 790, WHICH SHALL INCLUDE COVERINGS OF SLATE, CLAY OR CONCRETE ROOF TILE, EXPOSED CONCRETE ROOF DECK, FERROUS OR COPPER SHINGLES OR SHEETS.
- 2. ROOF FLASHING. FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, AT GUTTERS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION, AND AROUND ROOF OPENINGS. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION-RESISTANT WITH A THICKNESS OF NOT LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET). (CRC R903.2.1)
- 3. CRICKETS AND SADDLES. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERING SHALL BE SHEET METAL OR THE SAME MATERIAL AS THE ROOF COVERING. (CRC R903.2.2).
- CRICKETS AND SADDLES. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERING SHALL BE SHEET METAL OR THE SAME MATERIAL AS THE ROOF COVERING. (CRC R903.2.2)
- 4. WATER-RESISTIVE BARRIER. A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT SHALL BE ATTACHED TO STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER MINIMUM 2 INCHES. WHERE JOINTS OCCUR, FELT SHALL BE LAPPED MINIMUM 6 INCHES. THE FELT SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MAINTAIN A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. (CRC R703.2)
- 5. WALL FLASHING. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE FASHION AT THE FOLLOWING LOCATIONS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS (CRC R703.8):
 - A. EXTERIOR DOOR AND WINDOW OPENINGS, EXTENDING TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE
 - WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE B. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS
 - C. UNDER AND AT THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS
 - D. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM WHERE EXTERIOR PORCHES, DECKS, OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION F. AT WALL AND ROOF INTERSECTIONS
- G. AT BUILT-IN GUTTERS DAMPPROOFING. DAMPPROOFING MATERIALS FOR FOUNDATION WALLS ENCLOSING USABLE SPACE BELOW GRADE SHALL BE INSTALLED ON THE EXTERIOR SURFACE OF THE WALL, AND SHALL EXTEND FROM THE TOP OF THE FOOTING TO FINISHED GRADE. (CRC R406.1)
- 7. WEEP SCREED. A MINIMUM 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C 92. THE WEEP SCREED SHALL BE PLACED A MINIMUM 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE ALLOWING TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. (CRC R703.7.2.1)
 - H. GREEN BUILDING STANDARDS CODE (CALGREEN) REQUIREMENTS
 - 1. APPLICABILITY. CALGREEN RESIDENTIAL MANDATORY MEASURES SHALL APPLY TO EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE AND WITHIN ANY ADDITION OR ALTERATION INCREASING A BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. (CALGREEN 101.3, CALGREEN 301.1.1)
 - EXCEPTION: ALL RESIDENTIAL BUILDINGS UNDERGOING PERMITTED ALTERATIONS, ADDITIONS, OR IMPROVEMENTS SHALL REPLACE NONCOMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES PER CALGREEN 301.1.1
 - AND CALGREEN 4.303.1. 2. WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING PER CALGREEN 4.303.1:
 - A. WATER CLOSETS: MAXIMUM 1.28 GALLONS PER FLUSH
 - B. URINALS: MAXIMUM 0.5 GALLONS PER FLUSH
 - C. SINGLE SHOWERHEADS: MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI D. MULTIPLE SHOWERHEADS SERVING ONE SHOWER: MAXIMUM COMBINED FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI E. LAVATORY FAUCETS: MAXIMUM FLOW RATE OF 1.2 GALLONS PER MINUTE AT 60 PSI, MINIMUM FLOW RATE OF 0.8 GALLONS
 - PER MINUTE AT 20 PSI F. KITCHEN FAUCETS: MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI
- EXCEPTION: TEMPORARY INCREASE ALLOWED TO MAXIMUM 2.2 GALLONS PER MINUTE AT 60 PSI IF FAUCET DEFAULTS BACK TO MAXIMUM 1.8 GALLONS PER MINUTE AT 60 PSI 3. IRRIGATION CONTROLLERS. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING SHALL COMPLY WITH THE FOLLOWING
- (CALGREEN 4.304.1): A. CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN
- RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE
- CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT. 4. JOINTS AND OPENINGS. OPENINGS IN THE BUILDING ENVELOPE SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE NEEDED TO ACCOMMODATE UTILITY AND OTHER PENETRATIONS MUST BE SEALED IN COMPLIANCE WITH THE CALIFORNIA ENERGY CODE. (CALGREEN 4.406.1)
- EXCEPTION: ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENING WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
- CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING. REDUCE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS. (CALGREEN 4.408.1)
- EXCEPTION: EXCAVATED SOIL AND LAND-CLEARING DEBRIS EXCEPTION: ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE
- THE CITY OF OAKLEY, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING. CONSTRUCTION WASTE MANAGEMENT PLAN. A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE PREPARED AND AVAILABLE ON SITE DURING CONSTRUCTION. DOCUMENTATION DEMONSTRATING COMPLIANCE WITH THE PLAN SHALL BE ACCESSIBLE DURING
- CONSTRUCTION FOR THE ENFORCING AGENCY. (CALGREEN 4.408.2) THE PLAN: A. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING. REUSE
- ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE
- B. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM)
- C. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE TAKEN
- D. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- E. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

7. OPERATION AND MAINTENANCE MANUAL. PRIOR TO FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE, OR OTHER ACCEPTABLE MEDIA WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING (CALGREEN 4.410.1): A. DIRECTIONS TO OWNER OR OCCUPANT THAT MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.

- B. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
- EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEM, PHOTOVOLTAIC SYSTEMS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
- II. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
- III. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
- IV. LANDSCAPE IRRIGATION SYSTEMS. V. WATER REUSE SYSTEMS
- C. INFORMATION FROM LOCAL UTILITY, WATER, AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- D. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
- E. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
- F. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. G. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET
- AWAY FROM THE FOUNDATION.
- H. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING. ETC.
- I. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. J. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR CODE.

- 8. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. (CALGREEN 4.504.1)
- 9. ADHESIVES, SEALANTS, CAULKS, PAINTS, AND COATINGS POLLUTANT CONTROL. ADHESIVES (INCLUDING CARPET ADHESIVES), SEALANTS, CAULKS, PAINTS, AND COATINGS SHALL COMPLY WITH VOC LIMITS PER CALGREEN 4.504.2. VERIFICATION OF COMPLIANCE SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. (CALGREEN 4.504.2.1)
- 10. CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING (CALGREEN 4.504.3): A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM (ALL CARPET CUSHION MUST MEET THE REQUIREMENTS OF
 - THIS PROGRAM). B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR THE TESTING OF VOCS (SPECIFICATION 01350).
 - C. NSF/ANSI 140 AT THE GOLD LEVEL. D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD.
- 11. RESILIENT FLOORING SYSTEMS. AT LEAST 80 PERCENT OF THE FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OF OR MORE OF THE FOLLOWING (CALGREEN 4.504.4):
 - A. VOC EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE
 - B. PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM
 - CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM
 - D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND
 - EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION
- 01350) 12. COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD
- PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN CALGREEN TABLE 4.504.5. THE FOLLOWING LIMITS ARE IN PARTS PER MILLION (CALGREEN 4.504.5):
- A. HARDWOOD PLYWOOD VENEER CORE
- HARDWOOD PLYWOOD COMPOSITE CORE 0.05
- PARTICLE BOARD
- MEDIUM-DENSITY FIBERBOARD (MDF)
- 0.13 THIN MDF (5/16 INCH OR LESS)
- 13. MOISTURE CONTENT OF BUILDING MATERIALS. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING (CALGREEN 4.505.3):
 - A. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER.

0.05

0.09

0.11

- MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED. C. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH
- DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

- 14. BATHROOMS WITH A BATHTUB AND/OR SHOWER SHALL BE MECHANICALLY VENTILATED PER THE FOLLOWING (CALGREEN 4.506.1): FANS SHALL BE ENERGY STAR COMPLIANT AND DUCTED TO TERMINATE OUTSIDE BUILDING Α. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE-HOUSE VENTILATION SYSTEM, FANS SHALL HAVE HUMIDITY
- CONTROLS CAPABLE OF ADJUSTMENT MANUALLY OR AUTOMATICALLY -- BETWEEN A RELATIVE HUMIDITY RANGE OF 50% TO 80%. 15. HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED, AND
 - HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS (CALGREEN 4.507.2):
 - A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J, ASHRAE HANDBOOKS, OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
 - DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D 2009, ASHRAE HANDBOOKS, OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ACCA 36-S MANUAL S OR OTHER EQUIVALENT DESIGN
 - SOFTWARE OR METHODS

FOR SI: 1 INCH - 25.4MM, 1 FOOT - 304.9 MM, 1 MILE PER HOUR - 0.447 M/S, 1 KSI - 6.895 MPA.

- NAILS ARE SMOOTH COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH. AND 100 KSI FOR SHANK DIAMETERS OF 0.142 OR LESS.
- STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16 INCH ON DIAMETER CROWN WIDTH. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
- 4-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
- SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2)
- FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH.
- GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING
- Η. MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
- WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CIELING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.
- RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

LIST OF DEFERRED ITEMS:

J.

- FIRE SPRINKLERS (UNLESS THE PRIMARY HOUSE IS NOT SPRINKLERED)
- ROOF TRUSSES
- С. ENERGY CALCULATIONS (THESE SHALL BE SPECIFIC TO THE ORIENTATION ON EACH LOT AND SHALL BE INCORPORATED ONTO THE PLANS AND BE READABLE)
- THIS ITEM IS NOT DEFERRED AND SHALL BE COMPLETED UPON SUBMITTAL SHEETS G1 & G2 SHALL BE COMPLETED. EACH ITEM SHALL BE MARKED YES OR N/A AND THE PARTY RESPONSIBLE FOR EACH ITEM (DESIGNER, CONTRACTOR, OWNER, ETC.) SHALL BE IDENTIFIED). SOLAR PV
- F. HVAC / MECHANICAL

THESE ARE MINIMUM REQUIREMENTS AND SHALL NOT SUPERSEDE MORE RESTRICTIVE SPECIFICATIONS ON THE PLANS OR AS REQUIRED BY APPLICABLE CODE.

6d Commo (2.0" × 0.113") 8d Common (2.5" ×

0.131")

DESCRIP

- ITEM DESCRIPT BUILDING E Blocking betw joists or rafter Ceiling joists Ceiling joist no to parallel raft partitions (see R802.5.2 and R802.5.2) Ceiling joist att parallel rafter ((see Section R802.5.2 and R802.5.2) Collar tie to rat or $1^{1}/_{4}$ × 20 o strap to rafter Rafter or roof Roof rafters to valley or hip ra rafter to minim Stud to stud (r wall panels) Stud to stud an studs at interse corners (at bra panels) Built-up heade header with 1 1 Continuous he 2 Top plate to to
- 3 Double top pla Bottom plate t joist, band jois (not at braced Bottom plate t joist, band jois (at braced wall 6 Top or bottom Top plates, lar ind intersect 1" brace to ea
- 1" × 6" sheathi

neathing to

) 1" × 8" and wi

		MINIMUM WOOD	MINIMUM NOMINAL PANEL THICKNESS	MAXIMUM WALL	PANEL NAIL SPACING		
	Penetration (inches)	SPAN RATING	(inches)	(inches)	Edges (inches o.c.)	Field (inches o.c.)-	
n	1.5	24/0	3/8	16	6	12	
n			7.	16	6	12	
	1.75	24/16	1/16	24	6	12	

TION OF	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
	Roof	
een ceiling s to top plate	4-8d box (2 ¹ / ₂ " × 0.113") or 3-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail
o top plate	4-8d box (2 ¹ / ₂ " × 0.113"); or 3-8d common 2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" paile	Per joist, toe nail
ot attached er, laps over Section Table	4-10d box (3" × 0.128"); or 3-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" × 0.131" nails	Face nail
tached to (heel joint) Table	Table R802.5.2	Face nail
fter, face nail a. ridge	4-10d box (3" × 0.128"); or 3-10d common (3" × 0.148"); or 4-3" × 0.131"	Face nail each rafter
truss to	nalls 3-16d box nails (3 ¹ / ₂ " × 0.135"); or 3-10d common nails (3" × 0.148"); or 4- 10d box (3" × 0.128"); or 4-3" × 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss ⁱ
o ridge, afters or roof	4-16d (3 ¹ / ₂ " × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Toe nail
um 2" ridge	3-16d box 3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail
	Wall 16d common (3 ¹ / ₂ " ×	24" o o foco se"
not at braced	0.162") 10d box (3" × 0.128"); or	16" o.c. face pail
nd abutting	3" × 0.131" nails 16d box (3 ¹ / ₂ " × 0.135");	10 o.c. lace hall
ecting wall aced wall	or 3" × 0.131" nails 16d common (3 ¹ / ₂ " ×	12 U.C. lace hall
	0.162")	To o.c. face fiail
" spacer)	16d common (3 ¹ / ₂ " × 0.162")	16" o.c. each edge face nail
2 spacer)	16d box /21/." x 0.125")	12" o o each edge face
		nail
ader to stud	5-8d box (2 ¹ / ₂ " × 0.113"); or 4-8d common (2 ¹ / ₂ " × 0.131"); or 4-10d box (3" × 0.128")	Toe nail
n plate	16d common (3 ¹ / ₂ " × 0.162")	16" o.c. face nail
p piero	10d box (3" × 0.128"); or 3" × 0.131" nails	12" o.c. face nail
ate splice	8-16d common (3 ¹ / ₂ " × 0.162"); or 12-16d box (3 ¹ / ₂ " × 0.135"); or 12-10d box (3" × 0.126"); or 12-3" × 0.131" nails	Face nail on each side of end joint (minimum 24"lap splice length each side of end joint)
o joist, rim	16d common (3 ¹ / ₂ " × 0.162")	16" o.c. face nail
wall panels)	16d box (3 ¹ / ₂ " × 0.135"); or 3" × 0.131" nails	12" o.c. face nail
o joist, rim t or blocking I panel)	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" × 0.131" nails	3 each 16" o.c. face nail 2 each 16" o.c. face nail 4 each 16" o.c. face nail
plate to stud	$\begin{array}{l} \text{4-8d box} \ (2^1 l_2'' \times 0.113''); \\ \text{or } 3-16d \ \text{box} \ (3^1 l_2'' \times \\ 0.135''); \ \text{or } 4-8d \ \text{common} \\ (2^1 l_2'' \times 0.131''); \ \text{or } 4-10d \\ \text{box} \ (3'' \times 0.131''); \ \text{or } 4-3'' \\ \times 0.131'' \ \text{nails} \end{array}$	Toe nail
	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail
os at corners ons	5-100 pox (3" × 0.128"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 3-3" × 0.131" nails	Face nail
ch stud and	or 2-8d common (2 ¹ / ₂ × 0.113 ⁻); or 2-8d common (2 ¹ / ₂ × 0.131 ⁻); or 2-10d box (3" × 0.128"); or 2-10d box (3" x ⁰ .128"); or 2 staples 1 ³ / ₄ "	Face nail
ing to each	3-8d box (2 ¹ / ₂ " × 0.113"); or 2-8d common (2 ¹ / ₂ " × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1 ³ / ₄ " long	Face nail
der ach bearing	3-8d box (2 ¹ / ₂ " × 0.113"); or 3-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3 staples, 1" crown, 16 ga., 1 ³ / ₄ " long Wider than 1" × 8" 4-8d box (2 ¹ / ₂ " × 0.113"); or 3-	Face nail
	8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3"	

		× 0.128"); or 4 staples, 1" crown, 16 ga., 1 ³ / ₄ " long		
		Floor		
21	Joist to sill, top plate or girder	4-8d box (2'/ ₂ " × 0.113"); or 3-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	То	e nail
	Disciplish hand is inter-	8d box (21/2" × 0.113")	4″ o.o	c. toe nail
22	kim joist, band joist or blocking to sill or top plate (roof applications also)	8d common (2 ¹ / ₂ " × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails	6" o.c. toe nail	
23	1" × 6" subfloor or less to each joist	3-8d box (2 ¹ / ₂ " × 0.113"); or 2-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1 ³ / ₄ " long	Fa	ce nail
24	2" subfloor to joist or girder	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162")	Blind ar	nd face nail
25	2" planks (plank & beam- floor & roof)	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162")	At each t	bearing, face nail
26	Band or rim joist to joist	3-16d common (3 ¹ / ₂ " × 0.162") 4-10 box (3" × 0.128"), or 4-3" × 0.131" nails; or 4-3" × 14 ga. staples, ⁷ / ₁₆ " crown	Er	nd nail
		20d common (4" × 0.192"); or	Nail each la follows: 32' and bottom staggered.	ayer as "o.c. at top n and
27	Built-up girders and beams, 2-inch lumber layers	10d box (3" × 0.128"); or 3" × 0.131" nails	24" o.c. fac and bottom opposite si	ce nail at top n staggered o des
		And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Face nail a each splice	at ends and al
28	Ledger strip supporting joists or rafters	4-16d box (3 ¹ / ₂ " × 0.135"); or 3-16d common (3 ¹ / ₂ " × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	At each joist or rafter face nail	
29	Bridging or blocking to joist	2-10d box (3" × 0.128"), or 2-8d common (2 ¹ / ₂ " × 0.131"; or 2-3" × 0.131") nails	Each end, toe nail	
			SPAC	CING OF
			FAS	TENERS
TEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	FAS Edges (inches) ^h	TENERS Intermediat supports ^{c, d} (inches)
TEM Wa	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal athing to framing [see Tabl	FAS Edges (inches) ^h I sheathing e R602.3(3)	TENERS Intermediat supports ^{c, r} (inches) to framing for wood
Wa a 30	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex ³ / ₈ " – ¹ / ₂ "	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal athing to framing [see Table terior wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ 8d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6	TENERS Intermediat supports ^{c, (} (inches) to framing) for wood] 12 ^f
тем а 30 31	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8" - 1/_2"$ $19/_{32}" - 1"$	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal thing to framing [see Table terior wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6	TENERS Intermediat supports ^{c, i} (inches) i to framing) for wood] 12 ^f
W(a 30 31 32	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8$ " - $1/_2$ " $1^9/_{32}$ " - 1" $1^{1}/_8$ " - $1^{1}/_4$ "	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal athing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ d common $(2^1/_2" \times 0.131")$ nail (roof); or RSRS- 01 $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$ nail (roof): or RSRS-01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 10d common (3" $\times 0.148")$ nail; or 8d $(2^1/_2" \times 0.131")$ deformed nail	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^f 12 ^f 12
Wa 30 31 32	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall she a structural panel ex $3/_8" - 1/_2"$ $1^9/_{32}" - 1"$ $1^{1}/_8" - 1^{1}/_4"$	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal thing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ d common $(2^{1}/_{2}" \times 0.131")$ nail (roof); or RSRS- 01 $(2^{3}/_{8}" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^{1}/_{2}" \times 0.131")$; or RSRS-01; $(2^{3}/_{8}" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^{1}/_{2}" \times 0.131")$; or RSRS-01; $(2^{3}/_{8}" \times 0.113")$ nail (roof) ¹ 10d common $(3" \times 0.148")$ nail; or 8d $(2^{1}/_{2}" \times 0.131")$ deformed nail ther wall sheathing ⁹	FAS Edges (inches) ^h I sheathing e R602.3(3) vall framing 6 6 6	TENERS Intermediat supports ^{c, i} (inches) to framing) for wood] 12 ^f 12 ^f 12 ^f
TEM a 30 31 32 33	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8" - 1/_2"$ $1^9/_{32}" - 1"$ $1^{1/_8"} - 1^{1/_4"}$ Of $1/_2"$ structural cellulosic fiberboard sheathing	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal athing to framing [see Table <i>terior</i> wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹ 10d common (3" × 0.148") nail; or 8d (2 ¹ / ₂ " × 0.131") deformed nail ther wall sheathing ⁹ 1 ¹ / ₂ " galvanized roofing nail, ⁷ / ₁₆ " head diameter, or, 1 ¹ / ₄ " long 16 ga. staple with ⁷ / ₁₆ " or 1" crown	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 6 3	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^r 12 ^r 12
TEM a 30 31 32 33 33 34	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex ${}^{3}/_{8}" - {}^{1}/_{2}"$ ${}^{19}/_{32}" - 1"$ ${}^{11}/_{8}" - {}^{11}/_{4}"$ Of ${}^{1}/_{2}"$ structural cellulosic fiberboard sheathing ${}^{25}/_{32}"$ structural cellulosic fiberboard sheathing	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal athing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ d common $(2^1/_2" \times 0.131")$ nail (roof); or RSRS- 01 $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$ nail (roof); or RSRS-01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 10d common nail $(2^1/_2" \times 0.131")$ nail; or 8d $(2^1/_2" \times 0.131")$ deformed nail ther wall sheathing ⁹ $1^1/_2"$ galvanized roofing nail, $7/_{16}"$ head diameter, or, $1^1/_4"$ long 16 ga. staple with $7/_{16}"$ or 1" crown $1^3/_4"$ galvanized roofing nail, $7/_{16}"$ head diameter, or, $1^1/_2"$ long 16 ga. staple with $7/_{16}"$ or 1" crown	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 6 3 3	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^f 12 ^f 12
TEM a 30 31 32 33 34 35	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8 = 1/_2$ $1^9/_{32} = 1^{\prime\prime}$ $1^9/_{32} = 1^{\prime\prime}$ $1^1/_8 = 1^1/_4$ Of $1/_2$ structural cellulosic fiberboard sheathing $2^5/_{32}$ structural cellulosic fiberboard sheathing $1/_2$ gypsum sheathing ^d	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wal thing to framing [see Table terior wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹ 10d common (3" × 0.148") nail; or 8d (2 ¹ / ₂ " × 0.131") deformed nail ther wall sheathing ⁹ 1 ¹ / ₂ " galvanized roofing nail, 7 ¹ / ₁₆ " head diameter, or, 1 ¹ / ₄ " long 16 ga. staple with 7 ¹ / ₁₆ " head diameter, or, 1 ¹ / ₂ " long 16 ga. staple with 7 ¹ / ₁₆ " or 1" crown 1 ¹ / ₂ " galvanized roofing nail; staple galvanized, 1 ¹ / ₂ " long; 1 ¹ / ₄ " screws, Type W or S	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 6 3 3 3 7	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^f 12 ^f 12 6 6 6 7
TEM a 30 31 32 33 34 35 36	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8$ " - $1/_2$ " $1^9/_{32}$ " - 1" $1^1/_8$ " - $1^1/_4$ " Of $1/_2$ " structural cellulosic fiberboard sheathing $2^5/_{32}$ " structural cellulosic fiberboard sheathing $1/_2$ " gypsum sheathing ^d $5/_8$ " gypsum sheathing ^d	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wall athing to framing [see Table <i>terior</i> wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹ 10d common (3" × 0.148") nail; or 8d (2 ¹ / ₂ " × 0.131") deformed nail ther wall sheathing ⁹ 1 ¹ / ₂ " galvanized roofing nail, 7/ ₁₆ " head diameter, or, 1 ¹ / ₄ " long 16 ga. staple with 7/ ₁₆ " or 1" crown 1 ³ / ₄ " galvanized roofing nail, 7/ ₁₆ " head diameter, or, 1 ¹ / ₂ " long 16 ga. staple with 7/ ₁₆ " or 1" crown 1 ¹ / ₂ " galvanized roofing nail; staple galvanized, 1 ¹ / ₂ " long; 1 ¹ / ₄ " screws, Type W or S 1 ³ / ₄ " galvanized roofing nail; staple galvanized, 1 ⁵ / ₈ " long; 1 ⁵ / ₈ " screws, Type W or S	FAS ^C Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 6 3 3 3 7 7 7	TENERS Intermediat supports ^{c, i} (inches) to framing for wood J 12 ^r 12 ^r 12 6 6 7 7 7
TEM a 30 31 32 33 34 35 36 V	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8 = 1/_2$ $19/_{32} = 1''$ $1^{1}/_8 = 1^{1}/_4$ $1^{1}/_8 = 1^{1}/_4$ Of $1/_2$ structural cellulosic fiberboard sheathing $25/_{32}$ structural cellulosic fiberboard sheathing $1/_2$ gypsum sheathing $1/_2$ gypsum sheathing $1/_2$ gypsum sheathing $1/_2$ gypsum sheathing	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wall athing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ d common $(2^1/_2" \times 0.131")$ nail (roof); or RSRS- 01 $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$ nail (roof); or RSRS- 01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 10d common nail $(2^1/_2" \times 0.131")$ nail; or 8d $(2^1/_2" \times 0.131")$ deformed nail ther wall sheathing ⁹ $1^1/_2"$ galvanized roofing nail, $7/_{16}"$ head diameter, or, $1^1/_4"$ long 16 ga. staple with $7/_{16}"$ or 1" crown $1^3/_4"$ galvanized roofing nail; staple galvanized, $1^1/_2"$ galvanized roofing nail; staple galvanized, $1^1/_2"$ long; $1^1/_4"$ screws, Type W or S $1^3/_4"$ galvanized roofing nail; staple galvanized, $1^5/_6"$ long; $1^5/_6"$ screws, Type W or S	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 6 3 3 3 7 7 7 7	TENERS Intermediat supports ^{c, i} (inches) to framing for wood J 12 ^f 12 ^f 12 ^f 6 6 7 7 7 o framing
TEM W(a 30 31 32 33 34 35 36 V 37	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shea structural panel ex $3/_8" - 1/_2"$ $1^9/_{32}" - 1"$ $1^1/_8" - 1^1/_4"$ Of $1/_2"$ structural cellulosic fiberboard sheathing $2^5/_{32}"$ structural cellulosic fiberboard sheathing $1/_2"$ gypsum sheathing ^d $5/_8"$ gypsum sheathing ^d Vood structural panels, co	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wall thing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ 8d common $(2"/_2" \times 0.131")$ nail (roof); or RSRS- 01 $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$; nail (roof); or RSRS-01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$; nail; or RSRS-01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 10d common $(3" \times 0.148")$ nail; or 8d $(2^1/_2" \times 0.131")$ deformed nail ther wall sheathing ⁹ $1^{1}/_{2}"$ galvanized roofing nail, $7/_{16}"$ head diameter, or, $1^{1}/_{4}"$ long 16 ga. staple with $7/_{16}"$ or 1" crown $1^{3}/_{4}"$ galvanized roofing nail; staple galvanized, $1^{1}/_{2}"$ long; 1^{6} ga. staple with $7/_{16}$ " or 1" crown $1^{3}/_{4}"$ galvanized roofing nail; staple galvanized, $1^{1}/_{2}"$ long; $1^{1}/_{4}"$ screws, Type W or S $1^{3}/_{4}"$ galvanized roofing nail; staple galvanized, $1^{5}/_{8}"$ long; $1^{5}/_{8}"$ screws, Type W or S ombination subfloor unde 6d deformed ($2" \times 0.120"$) nail; or 8d common ($2^{1}/_{2"}" \times 0.131"$) nail	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 3 3 7 7 7 7 rlayment to 6	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^f 12 ^f 12 6 6 7 7 7 7 0 framing 12
TEM W(a 30 31 32 33 34 35 36 V 37 38	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shear structural panel ex $3/_8 = 1/_2$ $1^9/_{32} = 1^{\circ}$ $1^1/_8 = 1^1/_4$ Of $1/_2$ structural cellulosic fiberboard sheathing $2^5/_{32}$ structural cellulosic fiberboard sheathing $1/_2$ gypsum sheathing ^d $5/_8$ gypsum sheathing ^d Vood structural panels, co $3/_4$ and less $7/_8 = 1^{\circ}$	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wall thing to framing [see Table terior wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall) ¹⁸ d common (2 ¹ / ₂ " × 0.131") nail (roof); or RSRS- 01 (2 ³ / ₈ " × 0.113") nail (roof) ¹ 8d common nail (2 ¹ / ₂ " × 0.131"); or RSRS-01; (2 ³ / ₈ " × 0.113") nail (roof) ¹ 10d common (3" × 0.148") nail; or 8d (2 ¹ / ₂ " × 0.131") deformed nail ther wall sheathing ⁹ 1 ¹ / ₂ " galvanized roofing nail, ⁷ / ₁₆ " head diameter, or, 1 ¹ / ₄ " long 16 ga. staple with ⁷ / ₁₆ " or 1" crown 1 ³ / ₄ " galvanized roofing nail; staple galvanized, 1 ¹ / ₂ " galvanized roofing nail; staple galvanized, 1 ¹ / ₂ " long; 1 ¹ / ₄ " screws, Type W or S 1 ³ / ₄ " galvanized roofing nail; staple galvanized, 1 ⁵ / ₈ " long; 1 ⁵ / ₈ " screws, Type W or S mbination subfloor unde 6d deformed (2" × 0.120") nail; or 8d common (2 ¹ / ₂ " × 0.131") nail 8d common (2 ¹ / ₂ " × 0.120") nail	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 3 3 7 7 7 7 7 7 7 7 7 6 6	TENERS Intermediat supports ^{c, i} (inches) to framing for wood] 12 ^f 12 ^f 12 ^f 6 6 7 7 7 7 o framing 12 12
TEM a 30 31 32 33 34 35 36 V 37 38 39	DESCRIPTION OF BUILDING ELEMENTS ood structural panels, subf nd particleboard wall shear structural panel ex $3/_8 = 1/_2$ $1^9/_{32} = 1^{\circ}$ $1^1/_8 = 1^1/_4$ Of $1/_2$ structural cellulosic fiberboard sheathing $2^5/_{32}$ structural cellulosic fiberboard sheathing $1/_2$ gypsum sheathing ^d $5/_8$ gypsum sheathing ^d Vood structural panels, co $3/_4$ and less $7/_8 = 1^{\circ}$	NUMBER AND TYPE OF FASTENER ^{a, b, c} floor, roof and interior wall thing to framing [see Table terior wall sheathing to w 6d common $(2" \times 0.113")$ nail (subfloor, wall) ¹⁸ d common $(2^1/_2" \times 0.131")$ nail (roof); or RSRS- 01 $(2^3/_8" \times 0.113")$ nail (roof) ¹ 8d common nail $(2^1/_2" \times 0.131")$ nail (roof); or RSRS-01; $(2^3/_8" \times 0.113")$ nail (roof) ¹ 10d common $(3" \times 0.148")$ nail; or 8d $(2^1/_2" \times 0.131")$ deformed nail ther wall sheathing ⁹ $1^1/_2"$ galvanized roofing nail, $7/_{16}"$ head diameter, or, $1^1/_4"$ long 16 ga. staple with $7/_{16}"$ or 1" crown $1^3/_4"$ galvanized roofing nail; staple galvanized, $1^1/_2"$ long; $1^1/_4"$ screws, Type W or S $1^3/_4"$ galvanized roofing nail; staple galvanized, $1^5/_8"$ long; $1^5/_8"$ screws, Type W or S $1^3/_4"$ galvanized roofing nail; staple galvanized, $1^5/_8"$ long; $1^5/_8"$ screws, Type W or S mbination subfloor unde 6d deformed $(2" \times 0.120")$ nail; or 8d common $(2^1/_2" \times 0.131")$ nail 8d common $(3" \times 0.148")$ nail; or 8d deformed $(2^1/_2" \times 0.120")$ nail 10d common $(3" \times 0.148")$ nail; or 8d deformed $(2^1/_2" \times 0.120")$ nail 10d common $(3" \times 0.148")$ nail; or 8d deformed $(2^1/_2" \times 0.120")$ nail	FAS Edges (inches) ^h I sheathing e R602.3(3) rall framing 6 6 6 3 3 7 7 7 7 7 7 7 7 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6	TENERS Intermediat supports ^{c, i} (inches) to framing for wood 1 12 ^f 12 ^f 12 6 6 7 7 7 7 7 0 framing 12 12 12



CONTINUED



WINDOW SCHEDULE							
MARK DIMENSION TYPE TEMPERED NOTES							
A	6'-0" x 4'-0"	SLIDING					
B	4'-0" x 4'-0"	SLIDING					
\odot	3'-0" x 3'-0"	SLIDING		(NOT USED)			
D	3'-0" x 1'-0"	SLIDING	TEMPERED GLAZING	6' ABOVE FLOOR			

EXTERIOR WINDOWS, EXTERIOR GLAZED DOORS, GLAZED OPENINGS WITHIN EXTERIOR DOORS, GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS, AND EXTERIOR STRUCTURAL GLASS VENEER SHALL COMPLY WITH ONE OF THE FOLLOWING: (SELECT ONE)

MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, AND WHERE ANY GLAZING FRAMES MADE OF VINYL MATERIALS SHALL HAVE WELDED CORNERS, METAL REINFORCEMENT IN INTERLOCK AREA, AND BE CERTIFIED TO AAMA/WDMA/CSA 101/I.S.2/A40 MINIMUM 20-MIN FIRE-RESISTANCE-RATED.

MEET PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2 C.

MARK	DIMENSION	TYPE	
1	3'-0" x 6'-8"	SWINGING	1
2	2'-6" x 6'-8"	SWINGING	1
3	5'-0" x 6'-8"	SLIDING	
4	5'-0" x 6'-8"	BI-FOLD	w,





SECTION B - B

SECTION KEYNOTES

1	WALL INSULATION: R19
2	CEILING INSULATION: R32
3	ROOF INSULATION: R32
4	INTERIOR FINISH: $\frac{1}{2}$ GYPSUM BOARD
5	EXTERIOR WALL: 2x6 STUD WALL @ 24" O.C.
6	INTERIOR WALL: 2×4 STUD WALL @ 24" O.C.
7	RADIANT BARRIER IS REQUIRED
8	CLASS "A" ROOF
9	MANUFACTURED TRUSSES
10	MANUFACTURED DRAG TRUSS

SECTION NOTES

1. CEILING HEIGHT FOR HABITABLE SPACES SHALL BE 7 FT. CEILING HEIGHT FOR BATHROOMS SHALL BE 6'-8".
 WALLS SHALL NOT BE GREATER THAN 10 FT. IN HEIGHT









FRONT ELEVATION







- 3"X3"X0.229" PLATE WASHERS SHALL BE USED ON EACH SILL PLATE ANCHOR BOLT
- 3. FOR STANDARD CUT WASHERS PLACED BETWEEN PLATE WASHER AND NUT,
- 4. PROVIDE A MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE WITH ONE BOLT LOCATED MAXIMUM 12" AND MINIMUM 7 BOLT DIAMETERS FROM EACH
- 6. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS
- 7. NO LPG PIPING ASSEMBLIES ALLOWED IN OR BENEATH SLABS WITHIN THE

WALL BRACING SCHEDULE						
MATERIAL	NAILING/STAPLING					
B"STUCCO ¹	STAPLES 16 GA. 7/8" LEGS @ 6" O.C.					
B"PLYWD	6d NAILS; EDGES @ 6" O.C. , FIELD NAIL @ 12" O.C.					
NDED METAL STURAL PANI DING AREAS	OR WOVEN WIRE LATH STAPLED TO ALL STUDS, TOP AND BTM EL SHEATHING TO BE USED ON ALL EXTERIOR SURFACES ABOVE AND BELOW OPENINGS.					





TYP. WALL FRAMING AT OPENING

S		
RE-MFR. TRUSSES @ 24" O.C.		
/32" APA RATED PLYW'D OR OSB, P.I. 32/16, EDGE NAIL W/8D 6" O.C. & FIELD NAIL @ 12" O.C.		
8 D.F. # 2		
P OF NON-BEARING, NON-BRACED WALL (SEE DET. 4)		
E DET. 3 FOR END WALL TRUSS SHEAR TRANSFER DESIGN REQUIREMENT		
CATION OF 12"x18" GABLE END VENT		
DCATION OF 5 $\frac{1}{2}$ " x 22 $\frac{1}{2}$ " EVE VENT		
AMING PLAN DETAIL FOUND ON SHEET S3		
PROVIDE SIMPSON A35 CLIPS TOP & BTM. FOR OPENINGS UAP PLATES 4'-0" MIN. @ SPLICES & NAIL W/ (8) 16D. SPLICE OVER STUDS. (TYP, UN O) PROVIDE SIMPSON A35 CLIPS OVER 8'-0" WIDE (2)16d END NAILED OR (4) COMPARING OF (4)	n Valley	ON PLANNING
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	qui	LY ACTI
DBL OR TRIPLE 2x TOP & SLOPE WHERE REQ'D (6) 16d TO HEADER	n Joa	IONAL EAR
HEADER - SEE SCHED.	Sal	REG
2-A35 FOR OPENINGS OVER 6'-0" 2x SILL & - SEE SCHD. 10d @ 12" 0.0	REVISIONS	
BOLTS @ 72" OC 10		
O.C. <u>9"</u> <u>9"</u> <u>9"</u> <u>9"</u> <u>9"</u> <u>7"</u> MIN. EMB'T. <u>2</u> MAX. <u>MAX.</u> <u>9"</u> <u>MAX.</u> <u>7"</u> MIN. 2 BOLTS PER PIECE. (TYP. U.N.O.)	PROGRAM	
PROVIDE 3" SQ. X 0.229" WASHER @ EA. BOLT	ADU I	022

N.T.S.

RE. Έ

ADU SQFT

DRAWING SCALE

SHEET

375

 $\frac{1}{2}$ " = 1'

S2

HEADER SCHEDULE							
HE/ S	ADER IZE note 1	NUMBER OF NUMBER OF CRIPPLES KING STUDS		NUMBER OF SILL PLATES			
EARING WALL	NON-BRG WALL	BRG WALL	NON-BRG WALL	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR
4 x 8	4 x 6	1	1	1	1	1	1

1. 4x HEADER SIZE SHOWN IS FOR 2x4 STUD WALL. REVISE TO 6x FOR 2x6 STUD WALLS AND 8x FOR 2x8 STUD WALLS. 2. DETAILS AND MEMBER SIZES ARE TYPICAL UNLESS OTHERWISE NOTED OR DETAILED.

3. NOTES AND MEMBER SIZES SHOWN ON FRAMING PLANS SHALL TAKE PRECEDENCE OVER SCHEDULE.







ELECTRICAL PLAN NOTES

1. LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.

SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6

CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5

4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.

A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.

AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.

7. WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE

8. LISTED GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAU

9. GFCI PROTECTION SHALL BE PROVIDED FOR THE DISHWASHER, KITCHEN SINK, AND BATHROOM SINK RECEPTICLES [CEC 210.8(D)].

10. SOLAR PLAN REQUIRED BY THIRD PARTY CONTRACTOR.

11. ALL EXTERIOR ELECTRICAL RECEPTACLES SHALL BE WP/GFCI PROTECTED.

12. STOVE RANGE EXHAUST SHALL HAVE A MINIMUM AIR FLOW RATE OF 100 CFM AND SHALL EXHAUST TO THE EXTERIOR.

LIGHTING PLAN NOTES

1. ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A

 ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8–2019" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS: //CACERTAPPLIANCES. ENERGY.CA.GOV/PAGES/ APPLIANCESEARCH.ASPX

3. ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8–2019–E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABSE AT HTTPS: //CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/ APPLIANCESEARCH.ASPX

4. RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED

5. BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR

6. ALL LUMINAIRES REQUIRING "JA8–2019" OR "JA8–2016–E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR EXCEPTION: CLOSETS LESS THAN 70 S.F. & HALLWAYS

7. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING: -PHOTOCONTROL AND MOTION SENSOR

-PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL

-ASTRONOMICAL TIME CLOCK

-ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(K)3AIIIC



PARTY	GREEN BUILDING	PARTY	
	SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the		4.106.4.2.1.1 Electric Vehi required by Section 4.106.2
	application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		1. The EV space shall be lo requirements of the <i>Cali</i> from the accessible park
	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.		2. The EV space shall be lo <i>Code,</i> Chapter 2, to the Exception: Electric
	Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.		California Building C Section 4.106.4.2.2,
	Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.		Note: Electric Vehicle char Building Code, Chapter 111 4 106 4 2 2 Electric vehicl
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.		designed to comply with the 1. The minimum len 2. The minimum wid 3. One in every 25 wide minimum ai minimum width o
	SECTION 302 MIXED OCCUPANCY BUILDINGS		a. Surface sl horizontal
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.		4.106.4.2.3 Single EV spa volt dedicated branch circu
	ABBREVIATION DEFINITIONS:HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and DevelopmentLLow Piso		diameter). The raceway sh cabinet, box or enclosure in documents shall identify th capacity to install a 40-amp installation of a branch circ
	HR High Rise AA Additions and Alterations N New		4.106.4.2.4 Multiple EV sp termination point and propo shall also provide informati electrical load calculations including any on-site distrib
	CHAPTER 4 DESIDENTIAL MANDATORY MEASURES		at all required EV spaces a 40-ampere minimum branc installed underground, enc
	DIVISION 4.1 PLANNING AND DESIGN		4.106.4.2.5 Identification.
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	_	with the California Electrica
	FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.		4.106.4.3 New hotels and capable of supporting futur of the EV spaces.
	WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.		Notes: 1. Construction docu
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 		or facilitating futur 2. There is no requir are installed for u 4.106.4.3.1 Number
	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.		Table 4.106.4.3.1. C nearest whole number TABLE 4.10
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. 		TOTAL NUMBE SPACES 0-9
	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.		10-25
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)		26-50 51-75
	 4. Tob.3 GRADING AND PAVING. Construction plans shall indicate how the site grading of drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 1. Swales 		76-100 101-150 151-200
	 Water collection and disposal systems French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. 		201 and over 4.106.4.3.2 Electric vehicle cl
_	Exception : Additions and alterations not altering the drainage path.		comply with the following: 1. The minimum lengt
	4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.		4.106.4.3.3 Single EV space r in accordance with Section 4.10
	 Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no commercial neuron supply 		4.106.4.3.4 Multiple EV space designed in accordance with Se
	 1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per 		4.106.4.3.5 Identification. The 4.106.4.2.5.
	dwelling unit. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.		4.106.4.3.6 Accessible EV spa hotels/motels and all EVSE, wh stations in the <i>California Buildir</i>
	4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway	2	DIVISION 4.2 ENERG
	shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.		 4.201 GENERAL 4.201.1 SCOPE. For the purposes of m Commission will continue to adopt n
	4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".		
	4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.		
	 Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. 		
	4 106 4 2 1 Electric vohicle charging anona (EV anona) locations. Construction documents shall		



N	I/A	RESPON. PARTY	N.		
			DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE		
			EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in		
			sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.		
	_		4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste		
			management ordinance. Exceptions:		
			 Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. 		
			The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.		
			in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.		
			 Identify the construction and demoniton waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste materials allocated will be 		
			 Identity diversion facilities where the construction and demolition waste material collected will be taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. 		
			 Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the 		
			enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1. Note: The owner or contractor may make the determination if the construction and demolition waste		
			 materials will be diverted by a waste management company. 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 		
			Ibs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined		
			weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1		NING
			 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4 Notes: 	× v	ON PLA
			 Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section 	quii	-Y ACTI
			 Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 4 410 BUILDING MAINTENANCE AND OPERATION 		AL EAR
			4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:	g	REGION
			 Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. Operation and maintenance instructions for the following: Equipment and appliances, including water saving devices and systems. HVAC systems 		
			 b. Roof and yard drainage, including gutters and downspouts. b. Roof and yard drainage, including gutters and downspouts. 	<u> </u>	-xxxx
			 d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce 		
			 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information option of the positive impacts of an interior relative humidity level in that range. 		
			 and impation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. 8. Information an required routing maintanance management including, but not limited to coulding. 	OGRAM	
			 a) painting, grading around the building, etc. a) Information about state solar energy and incentive programs available. b) A copy of all special inspections verifications required by the enforcing agency or this code. 	ADU PR	,2022
			4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.	- VALLEYMDE	мыым Е 10/14/
			Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.		
			DIVISION 4.5 ENVIRONMENTAL QUALITY	V JOAQUIN V	SJV REAP
			SECTION 4.501 GENERAL 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.	SAN EET DESCRII	ENCY
			SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	 J_SQFT	SA A
			AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.	91	10
			COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.	AWNG SCALE	
			DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.	-	-
				-ட 1	
				G	1

1			TABLE 4.504.2 - SEALANT VOC LIN	ИІТ
	compound to the "Base Reactive Organic Gas (ROG) Mixture" per weigh	in weight of ozone formed by adding a ht of compound added, expressed to	(Less Water and Less Exempt Compounds in Gr	ams per Liter)
	nundredths of a gram (g O ³ /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents ar	re specified in CCR, Title 17, Sections 94700	SEALANTS	VOC LIMIT
			ARCHITECTURAL	250
	MOISTURE CONTENT. The weight of the water in wood expressed in pr	ercentage of the weight of the oven-dry woo	MARINE DECK	760
	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for article. The PWMIR is the total product reactivity expressed to hundredth	all ingredients in a product subject to this no of a gram of ozone formed per gram of		300
	product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 1	7, Section 94521 (a).		250
	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the	e potential, once emitted, to contribute to	SINGLE-PLY ROOF MEMBRANE	430
	ozone formation in the troposphere.		SEALANT PRIMERS	
	VOC. A volatile organic compound (VOC) broadly defined as a chemical with vapor pressures greater than 0.1 millimeters of mercury at room ter	l compound based on carbon chains or rings	ARCHITECTURAL	
	hydrogen and may contain oxygen, nitrogen and other elements. See Co	CR Title 17, Section 94508(a).	NON-POROUS	250
		alad combustion type. Any installed	POROUS	775
	woodstove or pellet stove shall comply with U.S. EPA New Source Performance	prmance Standards (NSPS) emission limits a	MODIFIED BITUMINOUS	500
	pellet stoves and fireplaces shall also comply with applicable local ordina	ances.	MARINE DECK	760
	4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECH CONSTRUCTION. At the time of rough installation, during storage on the startup of the heating, cooling and ventilating equipment, all duct and oth openings shall be covered with tape, plastic, sheet metal or other metho reduce the amount of water, dust or debris which may enter the system.	IANICAL EQUIPMENT DURING the construction site and until final ther related air distribution component ds acceptable to the enforcing agency to	OTHER	750
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials	shall comply with this section.	TABLE 4 504 3 - VOC CONTENT I	LIMITS FOR
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant requirements of the following standards unless more stringent loc	and caulks used on the project shall meet th al or regional air pollution or air quality	ARCHITECTURAL COATINGS2,3	
	management district rules apply:		GRAMS OF VOC PER LITER OF COATING, L	LESS WATER & LESS EXEMPT
	1. Adhesives, adhesive bonding primers, adhesive primers shall comply with local or regional air pollution control of	s, sealants, sealant primers and caulks r air quality management district rules where	COATING CATEGORY	VOC LIMIT
	applicable or SCAQMD Rule 1168 VOC limits, as show Such products also shall comply with the Rule 1168 pro	n in Table 4.504.1 or 4.504.2, as applicable.	FLAT COATINGS	50
	compounds (chloroform, ethylene dichloride, methylene tricloroethylene) excent for aerosol products as specifi	e chloride, perchloroethylene and ied in Subsection 2 below	NON-FLAT COATINGS	100
	2 Aerosol adhesives and smaller unit sizes of adhesives	and sealant or caulking compounds (in	NONFLAT-HIGH GLOSS COATINGS	150
	units of product, less packaging, which do not weigh me than 16 fluid oursee) shell complusifier that wide V/22	ore than 1 pound and do not consist of more	SPECIALTY COATINGS	
	prohibitions on use of certain toxic compounds, of <i>Califi</i>	ornia Code of Regulations, Title 17,	ALUMINUM ROOF COATINGS	400
			BASEMENT SPECIALTY COATINGS	400
	4.504.2.2 Paints and Coatings. Architectural paints and coatings the ARB Architectural Suggested Control Measure, as shown in T	s snail comply with VOC limits in Table 1 of able 4.504.3, unless more stringent local lim		50
	apply. The VOC content limit for coatings that do not meet the de listed in Table 4.504.3 shall be determined by classifying the coati	finitions for the specialty coatings categories ing as a Flat, Nonflat or Nonflat-High Gloss	BOND BREAKERS	350
	coating, based on its gloss, as defined in subsections 4.21, 4.36, a Board, Suggested Control Measure, and the corresponding Flat, N	and 4.37 of the 2007 California Air Resource Nonflat or Nonflat-High Gloss VOC limit in	CONCRETE CUBING COMPOUNDS	350
	Table 4.504.3 shall apply.		CONCRETE/MASONRY SEALERS	100
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coa Limits for ROC in Section 94522(a)(2) and other requirements, inc	atings shall meet the Product-weighted MIR cluding prohibitions on use of certain toxic	DRIVEWAY SEALERS	50
	compounds and ozone depleting substances, in Sections 94522(e Regulations, Title 17, commencing with Section 94520; and in are	e)(1) and (f)(1) of <i>California Code of</i> as under the jurisdiction of the Bay Area Air	DRY FOG COATINGS	150
	Quality Management District additionally comply with the percent	VOC by weight of product limits of Regulatio	FAUX FINISHING COATINGS	350
	4 504 2 4 Varification Varification of compliance with this section	n shall be provided at the request of the	FIRE RESISTIVE COATINGS	350
	enforcing agency. Documentation may include, but is not limited f	to, the following:	FLOOR COATINGS	100
	1. Manufacturer's product specification.		FORM-RELEASE COMPOUNDS	250
	Field verification of on-site product containers.		GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
				420
	TABLE 4.504.1 - ADHESIVE VOC LIMIT	1,2		120
	(Less Water and Less Exempt Compounds in Grams p	per Liter)	MAGNESITE CEMENT COATINGS	450
	ARCHITECTURAL APPLICATIONS		MASTIC TEXTURE COATINGS	100
		50	METALLIC PIGMENTED COATINGS	500
	CARPET PAD ADHESIVES	50	MULTICOLOR COATINGS	250
		150	PRETREATMENT WASH PRIMERS	420
		100		
	OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES	100	PRIMERS, SEALERS, & UNDERCOATERS	100
	OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES	100 60 50	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS	100 350
	OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES	100 60 50 65	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS	100 350 250
	OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES	100 60 50 65 50	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS	100 350 250 50
	OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES	100 60 50 65 50 50 50	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS	100 350 250 50 250
	OUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVES	100 60 50 65 50 50 50 50	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR	100 350 250 50 250 730
	OUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVE	100 60 50 65 50 50 50 50 70	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE	100 350 250 50 250 730 550
	OUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVES	100 60 50 65 50 50 50 50 70 100	PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS &	100 350 250 50 250 250 730 550 100
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	Y	N/A	RESPON. PARTY			
				·		1
				TABLE 4.504.5 - FORMALDEHYDE L	IMITS₁	
				MAXIMUM FORMALDEHYDE EMISSIONS IN PAR		
				HARDWOOD PLYWOOD VENEER CORE	0.05	
				HARDWOOD PLYWOOD COMPOSITE CORE	0.05	
				PARTICLE BOARD	0.09	
				MEDIUM DENSITY FIBERBOARD	0.11	
				1. VALUES IN THIS TABLE ARE DERIVED FROM	/ THOSE SPECIFIED	
				BY THE CALIF. AIR RESOURCES BOARD, AIR T MEASURE FOR COMPOSITE WOOD AS TESTEI WITH ASTM E 1333. FOR ADDITIONAL INFORM CODE OF REGULATIONS, TITLE 17, SECTIONS 93120.12.	OXICS CONTROL D IN ACCORDANCE IATION, SEE CALIF. 93120 THROUGH	
				2. THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16" (8 MM).	A MAXIMUM	
-				DIVISION 4.5 ENVIRONMENTAL QUA 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior requirements of at least one of the following:	LITY (continue or shall meet the testing an	d product
				1. Carpet and Rug Institute's Green Label Plus Program.		
				 California Department of Public Health, "Standard Method for Organic Chemical Emissions from Indoor Sources Using En February 2010 (also known as Specification 01350). NSF/ANSI 140 at the Gold level. Scientific Certifications Systems Indoor Advantage™ Gold. 	or the Testing and Evaluati vironmental Chambers" Ve	on of Volatile ersion 1.1,
				4.504.3.1 Carpet cushion. All carpet cushion installed in the burrequirements of the Carpet and Rug Institute's Green Label prog	ilding interior shall meet th gram.	e
				4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring	requirements of Table 4.50 is installed , at least 80% o	4.1. of floor area receiving
				resilient flooring shall comply with one or more of the following:1. Products compliant with the California Department of Public	Health, "Standard Method	for the Testing and
				Evaluation of Volatile Organic Chemical Emissions from Ind Version 1.1, February 2010 (also known as Specification 01 in the Collaborative for High Performance Schools (CHPS)	oor Sources Using Enviror 350), certified as a CHPS High Performance Product	Imental Chambers," Low-Emitting Material s Database.
				 Products certified under UL GREENGUARD Gold (formerly Certification under the Resilient Floor Covering Institute (RF Meet the California Department of Public Health, "Standard 	the Greenguard Children & CI) FloorScore program. Method for the Testing and	Evaluation of
				February 2010 (also known as Specification 01350).	Jsing Environmental Cham	bers", Version 1.1,
F				4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, partic composite wood products used on the interior or exterior of the building	cleboard and medium dens gs shall meet the requirem	sity fiberboard ents for
				formaldehyde as specified in ARB's Air Toxics Control Measure for Co by or before the dates specified in those sections, as shown in Table 4	mposite Wood (17 CCR 9 504.5	3120 et seq.),
				4.504.5.1 Documentation. Verification of compliance with this by the enforcing agency. Documentation shall include at least of	section shall be provided a ne of the following:	as requested
				 Product certifications and specifications. Chain of custody certifications. 		
				3. Product labeled and invoiced as meeting the Compos CCR, Title 17, Section 93120, et seq.).	ite Wood Products regulat	ion (see
				 Exterior grade products marked as meeting the PS-1 Wood Association, the Australian AS/NZS 2269, Euro 0121, CSA 0151, CSA 0153 and CSA 0325 standards 	or PS-2 standards of the E opean 636 3S standards, a	ngineered nd Canadian CSA
				5. Other methods acceptable to the enforcing agency.		
				4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the	California Building Standa	ords Code.
				4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor	ons required to have a vap s required to have a vapor	or retarder by retarder by the
				4.505.2.1 Capillary break. A capillary break shall be installed in following:	n compliance with at least	one of the
				1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm)	or larger clean aggregate s	shall be provided with
				 a vapor barrier in direct contact with concrete and a c shrinkage, and curling, shall be used. For additional i ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing 3. A slab design specified by a licensed design profession 	oncrete mix design, which information, see American agency. onal.	will address bleeding, Concrete Institute,
				4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe	g materials with visible sigr In the framing members ex	ns of water damage ceed 19 percent
				moisture content. Moisture content shall be verified in compliance with1. Moisture content shall be determined with either a probe-typ	n the following: e or contact-type moisture	meter.Equivalent
				moisture verification methods may be approved by the enformation found in Section 101.8 of this code.2. Moisture readings shall be taken at a point 2 feet (610 mm)	rcing agency and shall sat to 4 feet (1219 mm) from t	isfy requirements ne grade stamped end
				of each piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a	on wall and floor framing w	vith documentation
				Insulation products which are visibly wet or have a high moisture conte	ent shall be replaced or allo	wed to dry prior to
				enclosure in wall or floor cavities. Wet-applied insulation products sha recommendations prior to enclosure.	Il follow the manufacturers	' drying
				4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanica following:	ally ventilated and shall cor	nply with the
				 Fans shall be ENERGY STAR compliant and be ducted to te Unless functioning as a component of a whole house ventila 	erminate outside the buildir tion system, fans must be	ng. controlled by a
				a. Humidity controls shall be capable of adjustment betw	veen a relative humidity rai	nge less than or
				adjustment. b. A humidity control may be a separate component to th integral (i.e., built-in)	ne exhaust fan and is not r	equired to be
				 Notes: 1. For the purposes of this section, a bathroom is a room tub/shower combination. 2. Lighting integral to between evenue form the section. 	which contains a bathtub	, shower or
				4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. He	ating and air conditioning s	systems shall be
				 sized, designed and have their equipment selected using the following The heat loss and heat gain is established according to ANS 	methods: SI/ACCA 2 Manual J - 2011	(Residential
				 Load Calculation), ASHRAE handbooks or other equivalent Duct systems are sized according to ANSI/ACCA 1 Manual ASHRAE handbooks or other equivalent design software or Select heating and cooling equipment according to ANSI/ACCA 	design software or method D - 2014 (Residential Duct methods. CCA 3 Manual S - 2014 (Re	ls. Systems), esidential
				Equipment Selection), or other equivalent design software o Exception: Use of alternate design temperatures necessary to	r methods. ensure the system functio	ns are

CHAPTER 7 **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
 Public utility training programs.
- 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- Certification by a national or regional green building program or standard publisher.
 Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

Y N/A RESPON. PARTY

 Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

