Chapter 246-359 WAC
TEMPORARY WORKER HOUSING CONSTRUCTION
STANDARD

WAC
246-359-001 Purpose and scope.
246-359-005 Applicability.
246-359-010 Definitions.
246-359-020 Powers and duties of the department of health.
246-359-030 Cooperation with the department of health—Right of entry.
246-359-040 Appeals.
246-359-050 Minor variances to the temporary worker housing construction standard.
246-359-060 Architect or engineer of record and plan submittal responsibilities.
246-359-070 Application and construction documents required for plan review.
246-359-080 Plan review approval and expiration of plan approval.
246-359-090 Issuing and maintaining a construction permit.
246-359-100 Expiration and extension of construction permits.
246-359-110 Construction without a permit.
246-359-120 Required inspections.
246-359-130 Stop work orders.
246-359-140 Certificate of completion.
246-359-150 Site requirements.
246-359-160 Temporary worker housing minimum floor area and ceiling height.
246-359-170 Wood framed construction and concrete masonry unit (CMU) general limitations.
246-359-180 Concrete footings and foundations for wood framed construction.
246-359-200 Wood framed construction.
246-359-210 Treated wood foundations for wood framed construction.
246-359-220 Floor framing for wood framed construction.
246-359-230 Wall framing for wood framed construction.
246-359-240 Exterior wall covering for wood framed construction.
246-359-250 Roof framing for wood framed construction and concrete masonry units (CMU).
246-359-300 Ceiling framing for wood framed construction and concrete masonry units (CMU).
246-359-310 Roof sheathing for wood framed construction and concrete masonry units.
246-359-320 Roof covering materials for wood framed construction and concrete masonry units (CMU).
246-359-330 Roof framing ventilation for wood framed construction and concrete masonry units (CMU).
246-359-340 Nailing schedule wood framed construction and concrete masonry units.
246-359-350 Roof connections for concrete masonry units (CMU).
246-359-400 Concrete masonry unit (CMU).
246-359-405 Concrete masonry units (CMU) materials.
246-359-410 Foundations and footings for concrete masonry units (CMU) walls.
246-359-420 Placing of concrete masonry units (CMU).
246-359-430 Floors for concrete masonry units (CMU).
246-359-440 Walls of concrete masonry units (CMU).
246-359-500 Window construction requirements.
246-359-510 Door requirements.
246-359-520 Door landings, stairways and guardrails.
246-359-530 Interior finishes.
246-359-540 Lighting and electrical.
246-359-550 Smoke detectors.
246-359-560 Plumbing.
246-359-565 Cooking facilities.
246-359-570 Mechanical installations.
246-359-575 Energy and ventilation and indoor air quality requirements exemptions.
246-359-580 Heating and insulation.
246-359-590 Liquid petroleum gas (LP-gas) storage tanks.
246-359-600 Alternate construction.
246-359-700 Approval of factory assembled structures (FAS).
246-359-710 Installation of factory assembled structures (FAS)—Except for manufactured homes.
246-359-720 Installation requirements for manufactured homes.
246-359-730 Manufactured home installers.
246-359-740 Drain connector to factory assembled structures (FAS).
246-359-750 Water connector to factory assembled structures (FAS).
246-359-760 Gas connections to factory assembled structures (FAS).
246-359-800 WISHA requirements affecting building temporary worker housing.
246-359-990 Fees.

WAC 246-359-001 Purpose and scope. (1) Purpose.
The purpose of this chapter is to provide minimum requirements to safeguard the health and general welfare of occupants of temporary worker housing by regulating and controlling the design, construction, materials, location and maintenance of all buildings and structures within the authority of chapter 246-358 WAC (the temporary worker housing rules) and this chapter.

(2) Scope. This chapter implements the requirements established by RCW 70.114A.081 and 43.70.337 to provide minimum construction requirements for new, relocated, existing or altered buildings and structures or portions thereof intended for use as temporary worker housing. Such buildings and structures must be licensed by the Washington state department of health under chapter 246-358 WAC and designated as "temporary worker housing occupancies." Buildings and structures which are not licensed, inspected and approved by the department must meet the provisions of the state building code under the local authority having jurisdiction and local ordinances.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-001, filed 1/18/99, effective 2/18/99.]

WAC 246-359-005 Applicability. (1) This chapter applies only to temporary worker housing as:
(a) Defined in chapter 70.114A RCW; and
(b) Licensed under chapter 246-358 WAC (temporary worker housing rules) according to RCW 43.70.340 (Farmworker housing inspection fund—fee on labor camp operating license).

(2) Existing structures built as nonresidential buildings, according to the state building code, may be licensed as temporary worker housing by complying with the specific requirements of WAC 246-359-600, alternate construction, and approved under the authority of this chapter.

(3) Alterations to residential housing constructed according to the state building code and approved by the authority having jurisdiction must apply to:
(a) The authority having jurisdiction for issuing building permits; or
(b) The department in compliance with this chapter.

(4) Temporary worker housing meeting the requirements of subsection (1) of this section must:
(a) Be located on a rural worksite; and

(1/18/99)
WAC 246-359-010 Definitions. For the purposes of this chapter, the following words and phrases will have the following meanings unless the context clearly indicates otherwise:

1. "Alter" or "alteration" means any change, major repair, addition or modification in construction.
2. "Architect" means an individual licensed by chapter 18.08 RCW to practice in the state of Washington.
3. "Construction permit" means a permit issued by the department which allows the applicant to construct structures according to this chapter.
4. "Construction standard" means temporary worker housing construction code as defined in RCW 70.114A.081.
5. "Department" means the Washington state department of health.
6. "Dormitory" means a building or portion of a building, designed to provide group sleeping accommodations for temporary workers.
7. "Dwelling unit" means a shelter, building, or portion of a building, for a family that may include cooking, eating, sleeping and sanitation facilities and that is physically separated from other nonsleeping and common-use areas.
8. "Engineer" means an individual licensed by chapter 18.43 RCW to practice in the state of Washington.
9. "Factory assembled structures" or "FAS" means those structures under the authority of chapter 43.22 RCW including:
   a. Mobile and manufactured homes;
   b. Commercial coaches;
   c. Recreational vehicles;
   d. Recreational park trailers; and
   e. Factory-built housing which is any structure designed for human occupancy other than a manufactured or mobile home, where the structure or any room of which is either entirely or substantially prefabricated or assembled at a place other than a building site.
10. "Family" means two or more persons related by blood or marriage or a group of persons living together in a dwelling unit.
11. "Floor area" is the area included within the surrounding exterior walls of a building or portion thereof.
12. "Habitable room" or "habitable space" is a room or space in a structure with a minimum seven foot ceiling used for living, sleeping, eating, or cooking. Bathrooms, toilet compartments, closets, halls, storage or utility space, and similar areas, are not considered habitable space.
13. "Jurisdiction having authority" means, a local county or city building or health or zoning or public works department or state department of health or ecology or labor and industries, etc.
15. "Occupant" means a temporary worker or a person who resides with a temporary worker at a housing site.
16. "State building code" means the building code, plumbing code, mechanical code, and fire code as referenced under RCW 19.27.031.
17. "Special inspector" means a person paid at the applicant's expense to conduct special inspections when the department determines the required inspections are not sufficient.
18. "Temporary worker" means a person employed intermittently and not residing year-round at the same site.
19. "Temporary worker housing" or "TWH" means a place, area, or piece of land where sleeping places or housing sites are provided by an employer for his or her employees or by another person, including a temporary worker housing operator, who is providing such accommodations for employees, for temporary, seasonal occupancy, and includes "labor camps" under RCW 70.54.110.
20. "Temporary worker housing (TWH) occupancies" means buildings, structures or portions thereof used for occupancy by temporary workers.
21. "WISHA" means the Washington Industrial Safety and Health Act, chapter 49.17 RCW administered by the state of Washington department of labor and industries. Temporary labor camp requirements of WAC 296-307-16001 are in force for temporary labor camps.

WAC 246-359-020 Powers and duties of the department of health. The department:

1. Is authorized and directed to enforce all the provisions of this chapter, according to the laws as enacted by the Washington state legislature.

[Ch. 246-359 WAC p. 2]
(2) Has the power to issue written interpretations of this chapter as long as the interpretations are in conformance with the intent and purpose of this chapter and the regulated community is informed of these interpretations.

(3) May adopt and enforce rules and supplemental regulations to clarify the application of the provisions of this chapter consistent with the intent and purpose of this chapter.


WAC 246-359-030 Cooperation with the department of health—Right of entry. (1) Department authority. The department has authority to enter any building or area used for temporary worker housing, at reasonable times to:

(a) Inspect the site for compliance with this chapter and related standards; and

(b) Determine, based on reasonable cause, if a building or condition on the premises is unsafe, dangerous or hazardous.

(2) Refusal of entry. When the owner or person having lawful control or supervision authority refuses entry or has required a warrant, the department will seek remedies provided by law to secure entry to the temporary worker housing site.

(3) Occupied temporary worker housing. The department must present credentials to the occupant and request the right to enter a dormitory or dwelling unit when temporary workers are in residence.

(4) Unoccupied temporary worker housing. When a dormitory or dwelling unit does not have temporary workers in residence, the department must make a reasonable effort to locate the owner or person having lawful control or supervision of the temporary worker housing to request entry.


WAC 246-359-040 Appeals. (1) The department may deny, suspend, modify, or revoke a permit in any case in which it finds that there has been a failure or refusal to comply with chapter 34.05 RCW, this chapter, and chapter 246-08 and 246-10 WAC. If a provision in this chapter conflicts with chapter 246-08 or 246-10 WAC, the provision in this chapter governs.


WAC 246-359-050 Minor variances to the temporary worker housing construction standard. An applicant may apply for a minor variance from the requirements of this chapter by filing a written request with the department.

(1) Responsibilities of applicant. If requesting a minor variance, an applicant must:

(a) Submit the following information in writing:

(i) The specific requirement or requirements from which the variance is requested;

(ii) Adequate justification that the variance is needed to obtain a beneficial use of the housing or to prevent a practical difficulty; and

(iii) How the variance will achieve the same result as the requirement and any specific alternative measures to be taken to protect the health and safety of the occupants;

(b) Pay a fee set by the department according to WAC 246-359-990, Table I; and

(c) Follow the process stated in WAC 246-359-060, alternate construction, when applicable.

(2) Department response. The department will provide a written response to the applicant within forty-five days of receipt of the minor variance request. The written response will state the acceptance or denial of the variance, including the reasons for the department's decision. At a minimum the department will make its decision based on:

(a) The applicant's request as described in subsection (1) of this section;

(b) Research into the variance request; and

(c) Expert advice.

(3) Applicant's response to denials. According to chapter 34.05 RCW the applicant has twenty-one days after receiving the department's written denial, of the variance request, to contest the decision.


WAC 246-359-060 Architect or engineer of record and plan submittal responsibilities. (1) The department will require construction documents to be prepared by an architect or engineer under:

(a) WAC 246-359-600, alternate construction;

(b) WAC 246-359-710, installation requirements for factory assembled structures;

(c) WAC 246-359-720, installation requirements for manufactured homes.

(2) The applicant must provide the name of the architect or engineer of record on the construction permit application.

(3) The applicant is responsible to notify the department, in writing, when the architect or engineer of record changes or is no longer able to review and coordinate all the necessary submittal documents for compatibility with the design of the building.

WAC 246-359-070 Application and construction documents required for plan review. (1) To have construction documents reviewed the applicant must submit to the department:
   (a) A completed and signed application, on a form provided by the department, for each structure (individual building);
   (b) The required plan review fee, according to WAC 246-359-990;
   (c) Two sets of construction documents, on substantial paper, including:
      (i) Plans and diagrams drawn to scale;
      (ii) Specifications;
      (iii) Computations; and
      (iv) Other documents needed to determine if the provisions of this chapter and related state rules are being met, for example solid waste disposal management plan or soil testing;
   (d) When applicable, manufacturer's installation instructions as required for factory assembled structures, WAC 246-359-710, and manufactured homes, WAC 246-359-720;
   (e) Proof of an adequate approved potable water supply to meet the intended use of the temporary worker housing and which meets the requirements of chapters 246-290 and 246-291 WAC (water rules) and WISHA;
   (f) Copy of the on-site sewage system permit from the jurisdiction having authority;
   (g) Proof of a water right permit from the department of ecology, when required;
   (h) Proof of current approval from labor and industries, when required, for factory assembled structures; and
      (i) Proof the project meets zoning requirements as established for height, setback and road access under the authority having jurisdiction.
(2) The plans and specifications must clearly identify in detail the location, nature and extent of the work proposed.
(3) The department will only begin plan review when:
   (a) All the documents required in this section are submitted; and
   (b) The plan review fee is received.
(4) The department can refund up to eighty percent of the plan review fee if the applicant submits a written request to stop the project before the plan review process is complete. Refunds are based on the plan review fee paid as required by Table I in WAC 246-359-990 and the amount of plan review completed as determined by the department.
(5) The department will charge an additional plan review fee according to Table I in WAC 246-359-990, when:
   (a) Site inspections determine the project has not been built according to the approved construction documents and an additional plan review is required; or
   (b) Revised construction documents are submitted after approval of the initial construction documents.

WAC 246-359-080 Plan review approval and expiration of plan approval. (1) The department will notify the applicant in writing:
   (a) With a "plan review approval letter" when the construction documents meet the requirements of this chapter; or
   (b) With a "not approved letter" when the construction documents do not meet the requirements of this chapter and a resubmission of plans or documents is required by the department for approval.
(2) The applicant has a period of one year from the date of the plan review approval letter to submit the construction permit fee or the plan review approval will expire.
(3) The department will destroy all construction documents related to the project when the plan review approval expires.
(4) To renew action on an expired plan review the applicant must resubmit the construction documents and pay a new plan review fee to the department as required in WAC 246-359-990.
(5) Construction documents modified after the department issues approval must be resubmitted for approval with an additional fee as specified in WAC 246-359-070.

WAC 246-359-090 Issuing and maintaining a construction permit. (1) The department will issue a construction permit when:
   (a) Construction documents are approved according to WAC 246-359-080; and
   (b) Permit and inspection fees are paid according to WAC 246-359-990.
   (2) Construction can begin after the applicant is issued a construction permit by the department;
   (3) The following conditions, at a minimum, must be met during construction:
      (a) The "inspection record card" must be posted in a visible location at the worksite and be readily accessible to the inspector at the worksite; and
      (b) The approved plans must be readily available to the inspector during all scheduled inspections.
   (4) The department will void the permit and the applicant's right to continue construction when:
      (a) The plans are changed, modified or altered without prior approval by the department as specified in WAC 246-359-080;
      (b) Any deviation in construction or design is made from the approved plans; and
      (c) The inspection record card and the approved plans are not readily and easily available to the inspector.

WAC 246-359-100 Expiration and extension of construction permits. (1) Permit expiration. The permit will be considered null and void one year from the date the permit was issued if the applicant:
   (a) Has not initiated the work authorized by the permit;
   (b) Suspends or abandons the authorized work at any time after the work has begun by not calling for the next required inspection within one year after a required inspection;
   (c) Has not applied for a time extension according to the requirements in subsection (2) of this section.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-080, filed 1/18/99, effective 2/18/99.]

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   (a) Has not initiated the work authorized by the permit;
   (b) Suspends or abandons the authorized work at any time after the work has begun by not calling for the next required inspection within one year after a required inspection;
   (c) Has not applied for a time extension according to the requirements in subsection (2) of this section.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-080, filed 1/18/99, effective 2/18/99.]

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   (a) Construction documents are approved according to WAC 246-359-080; and
   (b) Permit and inspection fees are paid according to WAC 246-359-990.
   (2) Construction can begin after the applicant is issued a construction permit by the department;
   (3) The following conditions, at a minimum, must be met during construction:
      (a) The "inspection record card" must be posted in a visible location at the worksite and be readily accessible to the inspector at the worksite; and
      (b) The approved plans must be readily available to the inspector during all scheduled inspections.
   (4) The department will void the permit and the applicant's right to continue construction when:
      (a) The plans are changed, modified or altered without prior approval by the department as specified in WAC 246-359-080;
      (b) Any deviation in construction or design is made from the approved plans; and
      (c) The inspection record card and the approved plans are not readily and easily available to the inspector.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-080, filed 1/18/99, effective 2/18/99.]

WAC 246-359-100 Expiration and extension of construction permits. (1) Permit expiration. The permit will be considered null and void one year from the date the permit was issued if the applicant:
   (a) Has not initiated the work authorized by the permit;
   (b) Suspends or abandons the authorized work at any time after the work has begun by not calling for the next required inspection within one year after a required inspection;
   (c) Has not applied for a time extension according to the requirements in subsection (2) of this section.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-080, filed 1/18/99, effective 2/18/99.]
(2) Permit extension. The applicant can apply for a one time only extension when the request is made in writing to the department:
   (a) Before the permit expires;
   (b) Stating reasons satisfactory to the department;
   (c) The original plans and specifications will be used and no changes have been made or are planned to be made; and
   (d) The applicable standards have not changed.
(3) Any applicant who does not apply for an extension according to the requirements in this section cannot resume work unless the applicant:
   (a) Resubmits plans according to WAC 246-359-070; and
   (b) Pays full plan review and permit fee according to WAC 246-359-990.
(4) The department can refund up to eighty percent of the construction permit fee if the applicant submits a written request before construction starts. The refund will be determined by the department based on the permit fee paid as required by Table I in WAC 246-359-990.

WAC 246-359-110 Construction without a permit.
(1) Construction of temporary worker housing allowed by this chapter can only begin after a construction permit has been issued by the department as described in WAC 246-359-090.
(2) A person who begins any work without a construction permit will be subject to an investigation and an investigation fee as described in WAC 246-359-990 whether or not a permit is then or subsequently issued. An investigation and investigation fee will be in addition to any other "additional" inspections or fees described in WAC 246-359-990.
(3) The department will determine if the person initiating building or work without a required construction permit is:
   (a) Under the authority of this chapter and must follow the construction permit process defined in this chapter; or
   (b) Found to be outside the authority of this chapter and must be reported to the jurisdiction having authority and the prosecuting attorney of that jurisdiction.

WAC 246-359-120 Required inspections. The department or its designee, when notified by the applicant in writing has authority to conduct all of the inspections described in this section.
(1) Site/foundation inspection. To be made after excavations for footings are complete, and after any required forms and reinforcing steel are in place, but before any concrete has been placed.
(2) Concrete slab or under-floor inspection. To be made after all in-slab or under-floor building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.
(3) Framing/rough-in inspection. To be made after the roof, all framing, wall, and roof members are in place including fire blocking and bracing, heating, and rough electrical and plumbing has been installed.

WAC 246-359-130 Stop work orders.
(1) The department, upon notifying the applicant in writing, will order work to be stopped when the work being done is found to be contrary to:
   (a) The approved plans;
   (b) The requirements of this chapter; or
   (c) Other laws or ordinances required and necessary to enforce this chapter at a minimum as stated in WAC 246-359-005(4), applicability.
(2) If the department finds work being done contrary to subsection (1) of this section the department, in addition to notifying the applicant in writing, will post a "stop work order" on the construction site.
(3) The applicant is prohibited from continuing any work or causing any work to be performed until solutions to rectify the conditions causing the stop work order have been approved by the department.
(4) The department will document removal of the stop work order by:
   (a) Providing the applicant written authorization to proceed with the work; and

(1/18/99)
(b) Removing or causing the "stop work order" to be removed.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-130, filed 1/18/99, effective 2/18/99.]

WAC 246-359-140 Certificate of completion. (1) The department will issue a "certificate of completion" when:

(a) The inspector determines the project is completed in compliance with the approved construction documents;

(b) The department determines the project is in compliance with this chapter and related rules including:

(i) Proof the potable water supply is approved and adequate to meet the requirements of chapters 246-290 and 246-291 WAC (water rules) and WISHA;

(ii) Proof the sewage disposal system has been approved by the jurisdiction having authority, for example, city or county health or public works department, state department of health or state department of ecology; and

(iii) Proof the electrical system has been approved by the jurisdiction having authority, for example, Washington state department of labor and industries or the city building or planning departments.

(2) Approved to apply for a license. The applicant can apply for a temporary worker housing license according to chapter 246-358 WAC after receiving a certificate of completion from the department.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-140, filed 1/18/99, effective 2/18/99.]

WAC 246-359-150 Site requirements. (1) The site used for temporary worker housing must be:

(a) Adequately drained and not subject to periodic flooding;

(b) Located a distance of at least two hundred feet from all surface water;

(c) Located so the drainage from and through the temporary worker housing will not endanger any domestic or public water supply;

(d) Graded, ditched, and made free from depressions which allow water to become a nuisance;

(e) Adequate in size to prevent overcrowding of necessary structures; and

(f) Located on a slope which is not more than one unit (inches, feet, etc.) vertical per twenty units horizontal.

(2) Any structure used for sleeping or preparing and serving food must be located at least five hundred feet from any area in which livestock is kept.

(3) All temporary worker housing structures must be located a minimum of ten feet from any other structure or building.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-150, filed 1/18/99, effective 2/18/99.]

WAC 246-359-160 Temporary worker housing minimum floor area and ceiling height. (1) Rooms used for sleeping purposes only must have a minimum of fifty square feet of floor space for each occupant.

(2) Rooms used for cooking, living, and sleeping must have a minimum of seventy square feet for the first occupant and fifty-square feet for each additional occupant.

WAC 246-359-170 Wood framed construction and concrete masonry unit (CMU) general limitations. (1) When building with wood or CMU as required by WAC 246-359-200 through 246-359-580 the following requirements apply:

(a) Floor area must be limited to three thousand six hundred square feet per building;

(b) Height must be limited to one story; and

(c) All floor surfaces must be above grade, no basements.

(2) When building to WAC 246-359-600, alternate construction, the limitations in subsection (1) of this section do not apply.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-170, filed 1/18/99, effective 2/18/99.]

WAC 246-359-180 Concrete footings and foundations for wood framed construction. (1) Concrete used for footings and foundations must have a minimum compressive strength of two thousand pounds per square inch (psi). Concrete must be mixed and delivered in accordance with the requirements of ASTM C94 (Ready-Mix Concrete), or may be field mixed. Field mixed concrete will be subject to independent compressive strength testing and special inspection.

(2) Concrete footings must be placed on firm, undisturbed soil.

(3) Concrete footings must be continuous, be a minimum of twelve inches wide by six inches thick, be reinforced with a minimum of two No. 4 continuous rebar, and be at least eighteen inches below finished grade measured from the bottom of the footing.

(4) Concrete foundations must be a minimum of six inches thick, be reinforced with a minimum of two continuous horizontal No. 4 at the top, be reinforced vertically with No. 4 at twenty-four inches on center, extend at least six inches above the finished grade, and have a total height of not greater than forty-eight inches.

(5) Concrete foundations that are formed by a thickened concrete slab edge as part of a slab on grade floor must be reinforced with two pieces of No. 4 rebar in the upper part and two pieces of No. 4 rebar in the lower part of the foundation. The concrete floor will be reinforced according to WAC 246-359-430. The thickened concrete slab edge must extend at least eighteen inches below finished grade, be at least twelve inches in width, and provide a slab height of at least six inches above finished grade.

(6) Where the walls are of wood construction, the treated foundation plates or sills must be bolted to the foundation or foundation wall with not less than one-half inch nominal diameter steel bolts embedded at least seven inches into the concrete and spaced not more than seventy-two inches apart. There must be a minimum of two bolts per piece with one bolt located within twelve inches of each end of each piece. A
properly sized nut and washer must be tightened on each bolt to secure the place.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-180, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-200 Wood framed construction.** (1) Buildings constructed using wood materials must follow the requirements of WAC 246-359-001 through 246-359-340 to comply with this chapter.

(2) Wood structural members in contact with the ground, and/or concrete must be pressure treated and must bear the proper grade mark of an approved inspection/testing agency.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-200, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-210 Treated wood foundations for wood framed construction.** (1) All lumber and plywood used for wood foundation systems must be pressure treated and bear the grade mark FDN (foundation grade) or better.

(2) Where FDN lumber and plywood is cut or drilled after treatment, the cut surface must be field treated with a preservative that is designated for that purpose.

(3) Hot-dipped zinc-coated steel nails or stainless steel fasteners will be used as fasteners for treated wood foundation walls. Electrogalvanized nails or staples and hot-dipped zinc-coated staples cannot be used.

(4) Treated wood foundations must have composite footings consisting of a minimum two-by-eight lumber footing plate set eighteen inches below finished grade on top of a layer of gravel, coarse sand or crushed stone. The gravel, sand, or crushed stone footing will have a width of not less than sixteen inches and a depth of not less than six inches, and must be placed in firm, undisturbed soil.

(5) The gravel, sand, or crushed stone footing must consist of:

(a) Washed and graded gravel free from organic, clayey or silty soils with a maximum stone size not exceeding three-fourths inch;

(b) Coarse sand free from organic, clayey, or silty soils with a minimum grain size of one-sixteenth inch; or

(c) Crushed stone with a maximum size of one-half inch.

(6) Treated wood foundation walls must be constructed of two-by-six studs at a minimum of sixteen inches on center with a double two-by-six top plate. Cover the studs with a minimum one-half inch thick pressure treated exterior plywood sheathing placed on the exterior of the studs. Treated wood foundation walls will not be greater than forty-eight inches measured from the bottom of the footing plate to the top of the double top plate.

(7) Joints in the footing plate and top plates must be staggered at least one stud space. Framing at locations where openings occur in the wall and floor systems above, and at other points of concentrated loads must have studs added at those points to support the concentrated loads.

(8) Before backfilling, cover the gravel, sand, or crushed stone appearing outside the treated wood foundation wall with strips of six-mil thick polyethylene sheeting, Type 30 felt, or equivalent material with adjacent strips lapped to provide for water seepage while preventing excessive infiltration of fine soils.

(9) Backfill on the outside to eight inches or more below the top of the treated wood foundation walls. Backfill on the inside of the treated wood foundation walls (crawl space) a minimum depth of six inches above the top of the footing plate.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-210, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-220 Floor framing for wood framed construction.** (1) **Girders.**

(a) Girders supporting floor joists must be a minimum four-by-six Hem-Fir #2, spaced not more than eight feet on center, and placed at least twelve inches above ground.

(b) Girders must be continuous, or must be spliced over supports. When a girder is spliced over a support, a positive tie to the support must be provided.

(c) Each end of each girder member must have a minimum three inch of bearing on treated wood plates or treated wood posts.

(2) **Floor joists.**

(a) Floor joists must be a minimum two-by-six spaced sixteen inches on center or two-by-eight spaced twenty-four inches on center, Hem-Fir #2 or better, spanning not more than eight feet between supports, and placed at least eighteen inches above ground.

(b) Floor joists must be continuous or spliced only over a support with a minimum three-inch lap.

(c) The ends of each joist must have not less than three inch bearing on treated wood plate.

(d) Notsches on the ends of joists cannot exceed one-fourth the joist depth. Holes bored in joists cannot be within two inches of the top or bottom of the joist, and the diameter of any such hole cannot exceed one-third the depth of the joist. Notches in the top or bottom of joists cannot exceed one-sixth the depth and cannot be located in the middle third of the span.

(e) Floor joists must have solid blocking at the ends and at each support. Solid blocking cannot be less than two inches nominal in thickness and the full depth of the joist.

(3) **Interior bearing.** Interior bearing footings (pads) must be of plain concrete at least sixteen inches by sixteen inches by eight inches thick placed on firm undisturbed soil.

(4) **Ventilation.** Under floor areas (crawl spaces) must be ventilated by one-fourth inch screened openings of not less than one square foot of opening for each one hundred fifty square feet of under-floor area.

(5) **Supporting interior bearing partitions.** Interior bearing partitions perpendicular to floor joists must not be offset from support girders more than the joist depth. Interior bearing partitions parallel to the floor joists must be supported by a doubled floor joist located directly under the interior bearing partition.

(6) **Subflooring.** Subflooring must be structural wood panels (plywood or OSB), particleboard subfloor or combination subfloor-underlayment, or solid wood.

(a) Structural wood panels will be tongue-and-groove installed perpendicular to the floor joists with end joints occurring over floor joists. The minimum thickness must be five-eighths inches (eleven-sixteenths inches) over floor joists spaced sixteen inches on center and three-fourths inches (twenty-five thirty-seconds inches) over floor joists spaced
WAC 246-359-230 Wall framing for wood framed construction. (1) Exterior walls and interior partitions must be framed as follows:

(a) Studs must be minimum two-by-four wood, Hem-Fir stud grade or better, spaced not more than sixteen inches on center, support no more than one ceiling and one roof, nor exceed eight feet in height for exterior walls.

(b) Studs must be placed with their wide dimension perpendicular to the wall. Not less than three studs must be installed at each corner of an exterior wall.

(c) Studs must be capped with double top plates installed to provide overlapping at corners and at intersections with other partitions. End joints in double top plates must be offset one third the depth of the wall stud.

(d) Studs must have full bearing on a plate or sill not less than two inches nominal in thickness having a width not less than that of the wall stud.

(2) Headers. All openings four feet wide or less in bearing walls must be provided with headers consisting of either two pieces of two-by-eight Hem-Fir #2, or better, placed on edge and securely fastened together or one piece of four-by-eight Hem-Fir #2 or better. All openings over four feet and up to eight feet wide in bearing walls must be provided with headers consisting of two pieces of two-by-twelve Hem-Fir #2 or better, placed on edge and securely fastened together, or one piece of four-by-twelve Hem-Fir #2 or better.

(3) Wall bracing. Exterior walls must be braced with one of the following methods:

(a) Wood boards of five-eighths inch net minimum thickness applied diagonally to the studs and face nailed with 2-8d common nails per stud.

(b) Minimum forty-eight inch width of wood structural panel sheathing (plywood) with a minimum thickness of three-eighths inches applied vertically at each corner. Provide solid blocking at all edges not supported by studs and secure to studs with 6d common or deformed shank nails spaced at six inches on center at edges and twelve inches on center at intermediate supports. Sheathing must extend from treated plate through double top plate.

(c) Particleboard subfloor or combination subfloor-underlayment must be installed perpendicular to the floor joists. The minimum thickness must be five-eighths inches over floor joists spaced sixteen inches on center and three-fourths inches over floor joists spaced twenty-four inches on center. Particleboard must be grade stamped for use and span. Secure particleboard to the floor joist system by use of either nails or glue and nails combination as follows for:

(i) Wood strip flooring six inches or less must be nailed to each floor joist by "2-8d" common or box nails; or

(ii) Wood strip flooring greater than six inches must be nailed to each floor joist by "3-8d" common or box nails.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-220, filed 1/18/99, effective 2/18/99.]

WAC 246-359-240 Exterior wall covering for wood framed construction. (1) All weather-exposed surfaces must have a weather resistive barrier. Such barrier must be of waterproof building paper or asphalt saturated felt. Building paper, felt, or equivalent materials must be covered with siding as a protection against damage. Weatherproof sheathing may be used to meet this requirement.

(2) When weatherproof sheathing is used for the weather resistive barrier protection, it must be of the exterior type not less than three-eighths inch thick. Joints must occur over framing members and must be protected by built-in edge laps, a continuous wood batten, caulking, flashing, or by an equivalent material installed per the manufacturer’s specifications.

(3) All wood siding and trim must be painted to protect from weather damage.

(4) Flashing. All exterior openings exposed to the weather must be flashed in such a manner as to make them weatherproof.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-240, filed 1/18/99, effective 2/18/99.]

WAC 246-359-250 Roof framing for wood framed construction and concrete masonry units (CMU). (1) Roof framing must have a minimum slope of three units vertical to twelve units horizontal, and must be framed with one of the following methods:

(a) Factory built trusses. Installed per manufacturer's directions and spaced not more than twenty-four inches on center. Roof trusses must be supported laterally at points of bearing by solid blocking to prevent rotation and lateral displacement;

(b) Rafter spans. Allowable rafter spans for Hem-Fir #2 or better must be in accordance with the spans and load conditions listed in Tables 250-A, 250-B or 250-C;

(c) Rafters. Rafters must be framed directly opposite each other at the ridge. There must be a ridge board at least one inch nominal thickness at all ridges and not less in depth than the cut end of the rafter;

(d) Notching at the ends of rafters cannot exceed one fourth the depth. Notches in the top or bottom must not exceed one sixth the depth and must not be located in the middle one third of the span;

(e) Holes bored in rafters must not be within two inches of the top or bottom and their diameter must not exceed one third the depth of the rafter; and
(f) Rafters must be supported laterally at points of bearing by solid blocking of the same material to prevent rotation and lateral displacement.

<table>
<thead>
<tr>
<th>Table 250-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Wood Products Table for Hem-Fir #2</td>
</tr>
<tr>
<td>Rafter (L/240 Deflection Limit) 30# Snow Load and 10# Dead Load</td>
</tr>
<tr>
<td>Rafter Size</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>2 x 6</td>
</tr>
<tr>
<td>2 x 6</td>
</tr>
<tr>
<td>2 x 6</td>
</tr>
<tr>
<td>2 x 8</td>
</tr>
<tr>
<td>2 x 8</td>
</tr>
<tr>
<td>2 x 8</td>
</tr>
<tr>
<td>2 x 10</td>
</tr>
<tr>
<td>2 x 10</td>
</tr>
<tr>
<td>2 x 10</td>
</tr>
<tr>
<td>2 x 12</td>
</tr>
<tr>
<td>2 x 12</td>
</tr>
<tr>
<td>2 x 12</td>
</tr>
</tbody>
</table>

(2) The department will allow site built trusses accompanied by structural calculations prepared by a structural engineer.

(3) Trimmer and header rafters must be doubled when the span of the header exceeds four feet. The ends of the header rafters more than six feet long must be supported by framing anchors or rafter hangers unless bearing on a beam, partition, or wall.

(4) Rafters must be nailed to adjacent ceiling joists to form a continuous tie between exterior walls when such joists are parallel to the rafters. Where not parallel, rafters must be nailed to minimum one-by-four cross ties.

(5) Rafter cross ties must be spaced not more than four feet on center, located immediately above the ceiling joists.

(6) Rafter and truss ties must be installed per manufacturer's instructions.

(7) Roof assembly must have rafter and truss ties to the wall below and spaced not more than four feet on center.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-250, filed 1/18/99, effective 2/18/99.]

WAC 246-359-300 Ceiling framing for wood framed construction and concrete masonry units (CMU). (1) Notching at the ends of ceiling joists must not exceed one fourth the depth. Notches in the top or bottom must not exceed one sixth the depth and must not be located in the middle one third of the span.

(2) Holes bored in ceiling joists must not be within two inches of the top or bottom and their diameter must not exceed one third the depth of the rafter.

(3) Ceiling joists must be supported laterally at points of bearing by solid blocking to prevent rotation and lateral displacement.

(4) Allowable ceiling joist spans for Hem-Fir #2 or better must be in accordance with the spans and load conditions listed in Table 300-A.

(5) The department will allow spans using other wood species or grade or other load conditions when accompanied by structural calculations prepared by a structural engineer.
## Table 300-A
Western Wood Products Table for Hem-Fir #2 Ceiling Joists 10# Dead Load

<table>
<thead>
<tr>
<th>Ceiling Joist Size</th>
<th>Spacing—inches on center</th>
<th>Span—inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 6</td>
<td>12</td>
<td>14-5</td>
</tr>
<tr>
<td>2 x 6</td>
<td>16</td>
<td>12-8</td>
</tr>
<tr>
<td>2 x 6</td>
<td>24</td>
<td>10-4</td>
</tr>
<tr>
<td>2 x 8</td>
<td>12</td>
<td>18-6</td>
</tr>
<tr>
<td>2 x 8</td>
<td>16</td>
<td>16-0</td>
</tr>
<tr>
<td>2 x 8</td>
<td>24</td>
<td>13-1</td>
</tr>
<tr>
<td>2 x 10</td>
<td>12</td>
<td>22-7</td>
</tr>
<tr>
<td>2 x 10</td>
<td>16</td>
<td>19-7</td>
</tr>
<tr>
<td>2 x 10</td>
<td>24</td>
<td>16-0</td>
</tr>
<tr>
<td>2 x 12</td>
<td>12</td>
<td>26-3</td>
</tr>
<tr>
<td>2 x 12</td>
<td>16</td>
<td>22-8</td>
</tr>
<tr>
<td>2 x 12</td>
<td>24</td>
<td>18-6</td>
</tr>
</tbody>
</table>

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-300, filed 1/18/99, effective 2/18/99.]

### WAC 246-359-310 Roof sheathing for wood framed construction and concrete masonry units.
Roof sheathing shall be structural wood panels (plywood, OSB) with a minimum five-eighths inch thickness, grade stamped for use and span. Secure roof sheathing panels to the roof framing with 8d common nails, spaced six inches on center at the edges and twelve inches on center at intermediate supports.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-310, filed 1/18/99, effective 2/18/99.]

### WAC 246-359-320 Roof covering materials for wood framed construction and concrete masonry units (CMU).
Roof sheathing must be protected by installing a material that has been designed as a roofing covering product. Installation of the selected roof covering material must be according to manufacturer's instructions and industry standards.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-320, filed 1/18/99, effective 2/18/99.]

### WAC 246-359-330 Roof framing ventilation for wood framed construction and concrete masonry units (CMU).
(1) Ventilation must be provided for enclosed roof framing spaces by providing sixteen-mesh screened openings at:

(a) The eaves;
(b) The gable ends;
(c) The ridge; or
(d) Any combination of (a) through (c) of this subsection.

(2) The minimum amount of ventilation openings must be at the rate of one square foot of net free opening for every three-hundred square feet of attic area.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-330, filed 1/18/99, effective 2/18/99.]

### Table 340 Nailing Schedule

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>NAILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Joist to sill or girder, toenail</td>
<td>3-8d</td>
</tr>
<tr>
<td>2. Bridging to joist, toenail each end</td>
<td>2-8d</td>
</tr>
<tr>
<td>3. 1&quot; x 6&quot; subfloor or less to each joist, face nail</td>
<td>2-8d</td>
</tr>
<tr>
<td>4. Wider than 1&quot; x 6&quot; subfloor to each joist, face nail</td>
<td>3-8d</td>
</tr>
<tr>
<td>5. 2&quot; subfloor to joist or girder, blind and face nail</td>
<td>2-16d</td>
</tr>
<tr>
<td>6. Sole plate to joist or blocking, typical face nail</td>
<td>16d at 16&quot; o.c.</td>
</tr>
<tr>
<td>Sole plate to joist or blocking, at braced wall panels</td>
<td>3-16d per 16&quot;</td>
</tr>
<tr>
<td>7. Top plate to stud, end nail</td>
<td>2-16d</td>
</tr>
<tr>
<td>8. Stud to sole plate</td>
<td>4-8d, toenail or 2-16d, end nail</td>
</tr>
<tr>
<td>9. Double studs, face nail</td>
<td>16d at 24&quot; o.c.</td>
</tr>
<tr>
<td>10. Doubled top plates, typical face nail</td>
<td>16d at 16&quot; o.c.</td>
</tr>
<tr>
<td>Doubled top plates, lap splice</td>
<td>8-16d</td>
</tr>
<tr>
<td>11. Blocking between joists or rafters to top plate, toenail</td>
<td>3-8d</td>
</tr>
<tr>
<td>12. Rim joist to top plate, toenail</td>
<td>8d at 6&quot; o.c.</td>
</tr>
<tr>
<td>13. Top plates, laps, and intersections, face nail</td>
<td>2-16d</td>
</tr>
<tr>
<td>14. Continuous header, two pieces</td>
<td>16d at 16&quot; o.c. along each edge</td>
</tr>
<tr>
<td>15. Ceiling joists to plate, toenail</td>
<td>3-8d</td>
</tr>
<tr>
<td>16. Continuous header to stud, toenail</td>
<td>4-8d</td>
</tr>
<tr>
<td>17. Ceiling joists, laps over partitions, face nail</td>
<td>3-16d</td>
</tr>
<tr>
<td>18. Ceiling joists to parallel rafters, face nail</td>
<td>3-16d</td>
</tr>
<tr>
<td>19. Rafter to plate, toenail</td>
<td>3-8d</td>
</tr>
<tr>
<td>20. 1&quot; brace to each stud and plate, face nail</td>
<td>2-8d</td>
</tr>
<tr>
<td>21. 1&quot; x 8&quot; sheathing or less to each bearing, face nail</td>
<td>2-8d</td>
</tr>
<tr>
<td>22. Wider than 1&quot; x 8&quot; sheathing to each bearing, face nail</td>
<td>3-8d</td>
</tr>
<tr>
<td>23. Built-up corner studs</td>
<td>16d at 24&quot; o.c.</td>
</tr>
<tr>
<td>24. Built-up girder and beams</td>
<td>20d at 32&quot; o.c. at top and bottom and staggered 2-20d at ends and at each splice</td>
</tr>
</tbody>
</table>

[Ch. 246-359 WAC p. 10]
**Table 340**

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>NAILING&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>25. 2&quot; planks</td>
<td>2-16d at each bearing</td>
</tr>
</tbody>
</table>

<sup>1</sup> Common or boxed nails must be used.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-350, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-350 Roof connections for concrete masonry units (CMU).** (1) Framing members must bear on a two-inch nominal thickness pressure treated plate anchored to the CMU wall with one-half inch diameter bolts. The anchor bolts must be spaced at maximum of six feet on center and a minimum of twelve inches from end of each plate member, and must be embedded into the top of the wall bond beam a minimum of four inches.

(2) Each roof framing member must be secured to the treated plate by installation of a metal tie as approved by the department.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-350, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-400 Concrete masonry unit (CMU).** Buildings constructed using CMU must follow the requirements of WAC 246-359-001 through 246-359-170 and WAC 246-359-400 through 246-359-580 to comply with this chapter.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-400, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-405 Concrete masonry units (CMU) materials.** (1) Solid masonry units must not be used.

(2) Water. Water used in mortar or grout must be clean and free of deleterious amounts of acid, alkalis or organic material or other harmful substances.

(3) Cement. Cementitious materials for:

(a) Grout must be either lime or portland cement; and
(b) Mortar must be one or more of the following:

(i) Lime;
(ii) Masonry cement;
(iii) Portland cement; or
(iv) Mortar cement.

(4) Mortar. Mortar must consist of a mixture of cementitious materials and aggregate to which sufficient water has been added to achieve a workable, plastic consistency.

(5) Grout. Grout must consist of a mixture of cementitious materials and aggregate to which water has been added such that the mixture will flow without segregation of the materials.

(6) Handling, storage and preparation of materials. Handling, storage and preparation of materials at the site must conform to the following:

(a) Masonry materials must be stored so that at the time of use the materials are clean and structurally suitable for use.
(b) All metal reinforcement must be free from loose rust and other coatings that would inhibit reinforcing bond.
(c) Concrete masonry units must not be wetted.

(d) Mortar or grout mixed at the job site must be mixed for:

(i) A period of time not less than three minutes; or
(ii) More than ten minutes in a mechanical mixer with the amount of water required to provide the desired workability.

(e) Hand mixing of small amounts of mortar is permitted.

(f) Mortar may be retempered, except that mortar or grout which has hardened or stiffened due to hydration of the cement must not be retempered or used again.

(g) When water has been added to the dry ingredients, at the job site the mixed:

(i) Mortar must not be used after two and one-half hours has passed; and
(ii) Grout must not be used after one and one-half hours has passed.

(h) Mortar and grout dry mixes, blended in the factory, and mixed at the job site must be mixed in mechanical mixers until workable. The on-site mixing time must not exceed ten minutes if the mix is to be acceptable for use.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-405, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-410 Foundations and footings for concrete masonry units (CMU) walls.** (1) Footings for load bearing CMU walls must be continuous concrete having a minimum twelve width-by-ten inch thickness, placed a minimum eighteen inches below the finished grade, and reinforced with a minimum of two No. 4 continuous rebar.

(2) Foundations must be one of the following:

(a) Concrete reinforced vertically and horizontally with No. 4 rebar at twenty-four inches on center; or

(b) CMU reinforced vertically and horizontally with No. 4 rebar and having all cells below finished grade fully grouted.

(3) Vertical reinforcement must be spaced at four feet on center, within twelve inches of each corner, extend at least twenty inches up into the CMU wall, and extend at least six inches into the footing with an additional six inches bent at ninety degrees and tied to the horizontal footing rebar.

(4) Foundations must be six inches in width or the width of the CMU wall, whichever is greater.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-410, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-420 Placing of concrete masonry units (CMU).** (1) CMU must be laid in a running bond pattern with the units in each successive course overlapping the joints in the course below. At corners the length of the corner unit must alternate direction on each successive course.

(2) The mortar must be sufficiently plastic and the units must be placed with sufficient pressure to extrude mortar from the joint and produce a tight joint. Joint furrowing must not exceed the thickness of the shell.

(3) Head joints of open-end CMU designed for use as bond beams that are to be fully grouted need not be mortared.

(4) Surfaces to be in contact with mortar or grout must be clean and free of deleterious materials.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-420, filed 1/18/99, effective 2/18/99.]
WAC 246-359-430 Floors for concrete masonry units (CMU). (1) Floors must be concrete slab on grade and not less than three and one-half inches thick reinforced with "6 x 6 10/10 welded wire mesh (wwm)," and be constructed with not less than four sacks of cement per cubic yard.

(2) When concrete is used as the finished floor it must be sealed or finished according to WAC 246-359-530, interior finishes.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-430, filed 1/18/99, effective 2/18/99.]

WAC 246-359-440 Walls of concrete masonry units (CMU). (1) Wall thickness. CMU blocks used for bearing walls must have a minimum nominal thickness of six inches.

(2) Rebar cover. All rebar must be:

(a) Placed within the openings of the hollow masonry units;

(b) Completely embedded in mortar or grout; and

(c) Have a minimum cover of three-fourth inch including the masonry unit. Where masonry is exposed to weather, one and one-half inches of cover is required. Where masonry is exposed to soil, two inches of cover is required.

(3) Reinforcement.

(a) Masonry walls must have both vertical and horizontal reinforcement. Spliced rebar must overlap at least twenty inches. Reinforcement must be placed prior to grouting. Bolts must be accurately set and held in place to prevent dislocation during grouting.

(b) Vertical reinforcement must consist of No. 4 rebar placed four feet on center along the full length of walls, on each side of window and door openings, and at corners. Vertical rebar must extend from the top of the foundation to the top of the wall and be grouted in place.

(c) Horizontal reinforcement must consist of bond beams located at four feet above the foundation and repeated at four foot intervals, including one at the top of the wall. Bond beams must be constructed using bond beam masonry units with one continuous No. 4 rebar, grouted in place.

(d) Lintels over door and window openings must be provided and must be sixteen inches deep consisting of bond beam or lintel masonry units extending over the opening and at least twenty inches beyond each side, and with four pieces of No. 4 rebar running the full length of the lintel, grouted in place. The span of lintels over openings must not exceed twelve feet.

(4) Grouting.

(a) The grout space must be clean so that all spaces to be filled with grout do not contain mortar projections greater than one-half inch, mortar droppings or other foreign material. Cleanouts must be provided where necessary to clean and clear the spaces prior to grouting. When cleanouts are needed, they must be sealed before grouting.

(b) Grout must be placed so that all spaces designated to be grouted must be filled with grout and the grout must be confined to those specific spaces.

(c) Where bond beams occur, the grout pour must be stopped a minimum of one-half inch below the top of the masonry.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-440, filed 1/18/99, effective 2/18/99.]

WAC 246-359-500 Window construction requirements. (1) All habitable rooms and spaces must be provided with windows the total area of which must be not less than one-tenth of the floor area.

(2) At least one-half of each required window must be able to open for ventilation purposes.

(3) Every sleeping room must have at least one operable window or door for emergency escape or rescue directly opening to an outside area to provide a clear escape away from the building.

(4) Escape or rescue windows must have:

(a) A minimum net clear openable area of five point seven square feet; and

(b) A finished sill height not more than forty-four inches above the floor.

(c) The following minimum net clear openable dimensions:

(i) The height dimension of twenty-four inches; and

(ii) The width dimension of twenty inches.

(5) All operable window openings must be screened with sixteen-mesh material.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-500, filed 1/18/99, effective 2/18/99.]

WAC 246-359-510 Door requirements. Temporary worker housing habitable structures:

(1) Must have a primary entrance, which is at a minimum, three foot-by-six foot eight-inch exit door made of solid core wood or other material designed for use as an exterior door.

(2) Must have at least two exit doors when accommodating ten or more occupants. When two exit doors are required, the doors must be placed a distance apart equal to at least one-half of the length of the maximum overall diagonal dimension of the building area used.

(3) Must have all exterior door openings screened with sixteen-mesh material self-closing screen doors.

(4) With a calculated occupant load of fifty occupants or more must have a screen door which swings in the direction of exiting.

(5) With latched screen doors must have a roller type latch.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-510, filed 1/18/99, effective 2/18/99.]

WAC 246-359-520 Door landings, stairways and guardrails. (1) Door landings. Every door must have, at a minimum, a floor area or landing with:

(a) A width not less than the width of the door or the width of the stairway served, whichever is greater; and

(b) A length not less than thirty-six inches.

(2) Stairways. Every stairway having two or more risers must meet the following requirements:

(a) Rise and run. The rise of steps and stairs must not be less than four inches nor more than eight inches. The greatest riser height within any flight of stairs must not exceed the smallest by more than three-eighths inch. The run must not be less than nine inches. Stair treads must be of uniform size and shape except the largest tread run within any flight of stairs must not exceed the smallest by more than three-eighths inch.
(b) **Headroom.** Every stairway must have a headroom clearance of not less than 6 feet eight inches.

(3) **Handrails.**

(a) At least one handrail is required when a stairway has three or more risers;

(b) The top of a handrail must be placed not less than thirty-four inches or more than thirty-eight inches above the nosing of the treads.

(c) Handrails must be continuous the full length of the stairs.

(d) The handgrip portion of a handrail must:

(i) Not be less than one and one-quarter inches nor more than two inches in cross-sectional dimension; and

(ii) Have a smooth surface with no sharp corners.

(e) Handrails projecting from a wall must have a space of not less than one and one-half inches between the wall and the handrail.

(4) **Guardrails.** Unenclosed porches, balconies, and landings, which are more than thirty inches above grade or floor below must not be less than thirty-six inches in height and must have intermediate rails spaced such that a sphere four inches in diameter cannot pass through.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-520, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-530 Interior finishes.** (1) Floors must be finished to provide an easily cleanable surface. Acceptable finishes are paint, sheet vinyl, tile, or other materials designed for use as a finished floor surface. All materials must be installed per manufacturer's instructions.

(2) Walls and ceilings must be finished to prevent any injury to an occupant, for example, no protruding nails or other fasteners or any wires.

(3) In toileting and kitchen areas, walls must be finished to provide an easily cleanable surface impervious to moisture.

(4) If material to provide a finished surface for the walls is to be installed, then material such as one-half inch minimum thickness gypsum board (GB) must be secured to the wall structural members by fasteners approved for such attachment such as glue, nails, or screws. If GB is installed, then the joints must be fire taped and the wall surface sealed with paint or covered with another wall finish material.

(5) If materials are installed to provide a finished surface for the ceiling, then material such as five-eighths inch minimum thickness GB must be secured to the ceiling structural members by fasteners approved for such attachment such as nails or screws. If GB is installed, then the joints must be fire taped and the ceiling surface sealed with paint.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-530, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-540 Lighting and electrical.** (1) The installation of electrical systems and wiring must comply with the state electrical code, chapter 246-46 WAC, as administered by the department of labor and industries and according to the number of outlets or light fixtures required in subsection (2) of this section.

(2) Outlets and light fixtures provided in temporary worker housing must comply with the requirements of subsection (1) of this section and WISHA requirements, including:

(a) Each habitable room must have:

(i) One ceiling light fixture. Additional ceiling light fixtures will be required to comply with the foot candle requirements of chapter 246-358 WAC; and

(ii) One separate floor or wall outlet. Additional outlets will be required as determined by the department to prevent safety hazards when the housing is occupied;

(b) Laundry and toilet rooms, and rooms where people congregate must have at least one ceiling or wall light fixture. Additional ceiling or wall light fixtures will be required:

(i) To comply with the foot candle requirements of chapter 246-358 WAC; and

(ii) As determined by the department to prevent safety hazards when the housing is occupied.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-540, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-550 Smoke detectors.** (1) Temporary worker housing must be provided with approved smoke detectors installed according to the manufacturer's instructions.

(2) Smoke detectors must:

(a) Be installed in each sleeping room;

(b) Be installed at a central point in a corridor or area which gives access to each separate sleeping room; and

(c) Emit a signal when the batteries are low.

(3) In new construction, required smoke detectors must:

(a) Receive their primary power from the building wiring, when the wiring is served from a commercial source; and

(b) Be equipped with a battery backup.

(4) Smoke detector wiring must be permanent and without a disconnecting switch except as required for overcurrent protection.

(5) Battery operated smoke detectors will be accepted:

(a) In existing buildings;

(b) In buildings without commercial power; or

(c) During when alteration, repairs or additions are being conducted to a building.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-550, filed 1/18/99, effective 2/18/99.]

**WAC 246-359-560 Plumbing.** (1) The installation of plumbing systems, fixtures, and fittings must comply with the Uniform Plumbing Code and Uniform Plumbing Code Standards as adopted by the state building code council, chapters 51-46 and 51-47 WAC, except for the following parts of the plumbing code which do not apply:

(a) The provisions for "water conservation performance standards";

(b) The minimum plumbing facilities and requirements for minimum numbers of fixtures, instead the following ratios will apply:

(1/18/99)
### Temporary Worker Housing Construction Standard

#### Minimum Number of Required Plumbing Fixtures

<table>
<thead>
<tr>
<th>Dwelling Units</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Closets</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Shared Facilities, not in individual dwelling units.</td>
<td>1 per 15 or fraction thereof; with a minimum of 2. (See Note)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 per 15 or fraction thereof; with a minimum of 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 per 6 or fraction thereof.</td>
<td>1 per 6 or fraction thereof.</td>
</tr>
<tr>
<td></td>
<td>1 per 15 or fraction thereof; with a minimum of 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 per 6 or fraction thereof.</td>
<td>1 per 6 or fraction thereof.</td>
</tr>
</tbody>
</table>

#### Note: Where urinals are provided in addition to water closets, the urinals must be provided in a 1:25 ratio.

#### WAC 246-359-565 Cooking facilities.

1. Individual dwelling units. Cooking facilities in individual dwelling units must be sufficient to meet the requirements of WAC 246-358-125, temporary worker housing cooking and foodhandling facilities;
2. Common use cooking facilities. Cooking facilities separate from sleeping units and used by multiple individuals or families must:
   a. Meet the requirements of WAC 246-358-125, temporary worker housing cooking and foodhandling facilities;
   b. Comply with WAC 296-307-160, WISHA;
   c. Be located within one hundred feet of the dormitory structure; and
   d. Have mechanical ventilation installed with a one hundred cubic feet per minute (CFM) intermittent fan or a twenty-five CFM continual fan, vented to the outside for each cooking unit.
3. Dining halls with cooking facilities. Cooking facilities which are to be provided by the licensed operator for temporary workers residing in the temporary worker housing must comply with:
   a. WAC 246-358-125(3), dining hall rules for temporary worker housing;
   b. WAC 296-307-160; and
   c. Chapter 246-215 WAC, food service sanitation rules.

### WAC 246-359-570 Mechanical installations.

The installation of heating, ventilating, cooling, refrigeration systems, and other miscellaneous heat producing equipment must meet the requirements of the uniform mechanical code as adopted by the state building code council, chapter 51-42 WAC, except as exempted in WAC 246-359-575.

### WAC 246-359-575 Energy and ventilation and indoor air quality requirement exemptions.

Temporary worker housing as defined in this chapter are exempt from all versions of the Washington state energy code and the ventilation and indoor air quality code.

### WAC 246-359-580 Heating and insulation.

1. When the temporary worker housing is occupied from October 1st through May 1st:
   a. Department approved heat producing equipment must:
      i. Be available or installed; and
      ii. Comply with WISHA and chapter 246-358 WAC.
   b. A minimum of R-11 insulating material must be used to insulate ceilings and exterior walls.
2. When insulation is used it must be covered with material which is safe and sturdy and sufficient to protect the building occupants from the insulating material.

### WAC 246-359-590 Liquid petroleum gas (LP-gas) storage tanks.

Installed LP-gas, such as propane, propylene, butane, normal butane or isobutane, and butylenes, must comply with uniform fire code article 82 and uniform fire code standard 82-1.

### WAC 246-359-600 Alternate construction.

1. The department will allow alternate construction to the requirements stated in WAC 246-359-200 through 246-359-440 of this chapter when the plans are designed and stamped by an

[Ch. 246-359 WAC p. 14]
engineer or architect licensed to practice in the state of Washington.

(2) Any changes in the structural design must be stamped by an engineer including:

(a) Fixed construction, which cannot be dismantled and stored. Such fixed construction must comply with the structural requirements of the state building code, for example, wind forces, seismic forces, snow load, live load, and dead load.

(b) Nonfixed construction which can be dismantled and stored for use when ice or snow exceed the snow loads stated in this chapter. Such nonfixed construction must comply with the structural requirements of the state building code, for example, wind forces, seismic forces, live load, and dead load with the exception of snow loads.

(3) To determine compliance with this section the department may require a special inspector to conduct special inspections.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-600, filed 1/18/99, effective 2/18/99.]

WAC 246-359-700 Approval of factory assembled structures (FAS). No FAS will be approved unless the FAS has an insignia of approval installed by the manufacturer. Alterations to manufactured housing and mobile homes must be approved by the Washington state department of labor and industries.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-700, filed 1/18/99, effective 2/18/99.]

WAC 246-359-710 Installation of factory assembled structures (FAS)—Except for manufactured homes. The department will approve the installation of all FAS except for manufactured homes (see WAC 246-359-720) when the following requirements are met:

(1) New and relocated FAS must be installed according to the manufacturer's written instructions;

(2) If the manufacturer's written instructions are unavailable or insufficient to address safe installation the department will require installation instructions for FAS to be submitted by an engineer or architect;

(3) The department will inspect FAS installation to determine if the site is properly prepared and the FAS is anchored according to the:

(a) Manufacturer's installation instructions; or

(b) Design of an engineer or architect licensed in Washington.

(4) The requirements stated in WAC 246-359-720 (5) through (8) apply to FAS installation.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-710, filed 1/18/99, effective 2/18/99.]

WAC 246-359-720 Installation requirements for manufactured homes. The department will use the following criteria for approving the installation of manufactured homes:

(1) New and relocated manufactured homes must be installed according to the manufacturer's written installation instructions;

(2) If the manufacturer's installation instructions are unavailable for manufactured homes, the department will accept the following:

(a) American National Standards Institute (ANSI) A225.1, 1994 edition, section 3; or

(b) The installation instructions of an engineer or architect licensed in Washington.

(3) The department will inspect the installation to determine if the manufactured home is placed on a properly prepared site and anchored according to the:

(a) Manufacturer's installation instructions;

(b) ANSI A225.1, 1994 edition, section 3; or

(c) Design of an engineer or architect licensed in Washington.

(4) The department will require, at a minimum, specific instructions be obtained from a licensed engineer or architect when a manufactured home is to be installed on a site where the specific soil bearing capacity is not addressed in the manufacturer's instructions.

(5) The department may review, at a minimum, the following installation requirements:

(a) Heat duct crossovers, except that heat duct crossovers supported above the ground by strapping or blocking to avoid standing water and to prevent compression and sharp bends to minimize stress at the connections are also accepted;

(b) Dryer vents exhausted to the exterior side of the wall or skirting, when installed; and

(c) Hot water tank pressure relief lines. These lines must be exhausted to the exterior side of the exterior wall or skirting and downward.

(6) Water lines, waste lines, gas lines and electrical systems must be installed according to the requirements of this chapter.

(7) When skirting is used the skirting must:

(a) Be made of a material suitable for ground contact including all metal fasteners which must be made of galvanized, stainless steel or other corrosion resistant material;

(b) Be recessed behind the siding or trim and attached in such a manner to prevent water from being trapped between the skirting and siding or trim; and

(c) Have a net area of not less than one square foot for each one hundred fifty square feet of under floor area.

(8) Provide access to the under floor area of the manufactured home so that all areas under the home are available for inspection. The opening must not be less than eighteen inches by twenty-four inches. The cover must be of metal, pressure treated wood or vinyl.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-720, filed 1/18/99, effective 2/18/99.]

WAC 246-359-730 Manufactured home installers. A manufactured home may be installed by:

(1) The applicant;
(2) A certified installer as required by WAC 296-150M-0630;
(3) An individual supervised by an on-site certified installer; or
(4) A specialty trades person, for certain aspects of installation.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-730, filed 1/18/99, effective 2/18/99.]

WAC 246-359-740 Drain connector to factory assembled structures (FAS). (1) A FAS containing plumbing fixtures must be connected to the drain inlet by a drain connector:
(a) Approved by the department;
(b) Consisting of pipe not less than Schedule 40 with appropriate fittings and connectors; and
(c) Not less in size than the FAS outlet.
(2) The fitting connected to the drain inlet must be a directional fitting to discharge the flow into the drain inlet.
(3) A drain connector must be:
(a) Installed and maintained with a grade not less than one-fourth inch per foot;
(b) Gas-tight and no longer than necessary to make the direct connection between the mobile home outlet and drain inlet at the site.
(4) Each drain inlet must be maintained gas-tight when not in use.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-740, filed 1/18/99, effective 2/18/99.]

WAC 246-359-750 Water connector to factory assembled structures (FAS). (1) A FAS with plumbing fixtures must be connected to the water service outlet by a flexible connector, such as copper tubing or other approved material, not less than three-fourths inch interior diameter.
(2) A separate water service shutoff valve installed on the supply side at or near the water service outlet for each FAS.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-750, filed 1/18/99, effective 2/18/99.]

WAC 246-359-760 Gas connections to factory assembled structures (FAS). (1) A FAS, when using gas for heating or cooking purposes, must be connected to the gas outlet by an approved mobile or manufactured home connector. Gas connectors must be of adequate size to supply the total demand of the connected FAS and have a maximum length of six feet.
(2) A shutoff valve controlling the flow of gas to the entire gas piping system must be:
(a) Installed for each FAS;
(b) Readily accessible;
(c) Identified as the "shutoff valve"; and
(d) Installed near the point of connection to the service piping or supply connection of the liquified petroleum gas (LP-gas) tank.
(3) The installation and size of each section of LP-gas piping is determined by the uniform mechanical code.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-760, filed 1/18/99, effective 2/18/99.]

WAC 246-359-800 WISHA requirements affecting building temporary worker housing. (1) A separate sleeping area must be provided for the husband and wife in all family units in which one or more children over six years of age are housed.
(2) If a camp is used during cold weather, adequate heating equipment must be provided.

Note: All heating, cooking, and water heating equipment must be installed according to state and local ordinances and codes regulating installations.

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-800, filed 1/18/99, effective 2/18/99.]

WAC 246-359-990 Fees. (1) General fee information.
(a) The plan review fee and permit or inspection fees for:
(i) Wood framed construction and concrete masonry units will be charged based on square footage and the time required to complete the work, according to Table I, Parts A through C;
(ii) The installation of factory assembled structures will be based on Table I, Part D; and
(b) Each fee must be received before the department will:
(i) Conduct plan review of construction or installation documents;
(ii) Issue a construction permit; or
(iii) Conduct any on-site inspection.
(2) Plan review fee for construction and installation documents. The plan review fee is:
(a) A separate and additional fee from the construction permit fees or inspection fees;
(b) Based on the initial plan review and assumes all documents required by WAC 246-359-070, application process and WAC 246-359-080, required documents for plan review, have been submitted.
(c) An additional plan review fee will be charged as stated in Table I, Part E when:
(i) The documents submitted are incomplete;
(ii) Plans previously reviewed and approved have been changed;
(iii) The department has determined, by inspection, that the approved plans were not followed during construction.
(3) Variance requests. Written variance requests must be accompanied by a fee as stated in Table I, Part E.
(4) Construction permit fee, includes required inspections. The construction permit fee:
(a) Is a separate and additional fee from the plan review fee;
(b) Includes the required inspections as stated in WAC 246-359-120 (1) through (4);
(c) Is based on the time required to conduct an inspection and assumes all of the requirements for application and plan review as required by subsection (2) of this section have been met and the plans are approved.
(5) Additional inspections. When the department determines additional inspections are necessary to determine compliance with this chapter the additional inspection fee will be charged according to Table I, Part F.
(6) Investigation inspections. If the department finds a person has initiated building or work without a permit, a fee
(7) Special inspections. When an applicant is building to alternate construction standards and the required inspections in this chapter are not deemed sufficient by the department to determine compliance with this chapter special inspections may be required. The applicant must pay the full cost of the special inspections. The department will notify the applicant what is required and the reasons for requiring a special inspection.

(8) The department will provide on-site technical assistance at the applicant's request. A fee will be charged according to Table I, Part G.

Table I, Fee Table

<table>
<thead>
<tr>
<th>Square footage of project review</th>
<th>Construction plan review fee</th>
<th>Construction permit or inspection fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A. Up to 1000 square feet</td>
<td>$330</td>
<td>$550</td>
</tr>
<tr>
<td>Part B. For each additional 100 square feet feet or fraction thereof</td>
<td>$15</td>
<td>$30</td>
</tr>
<tr>
<td>Part C. Preapproved plans For each additional 100 square feet feet or fraction thereof</td>
<td>$66</td>
<td>$550</td>
</tr>
<tr>
<td>Part D. Factory Assembled Structures, for example, manufactured homes, park trailers, modular buildings</td>
<td>$66</td>
<td>$550</td>
</tr>
<tr>
<td>Part E. Additional plan reviews, conducted after initial approval; and Variance requests</td>
<td>$3</td>
<td>$30</td>
</tr>
<tr>
<td>Part F. Additional and investigation inspections</td>
<td>$47 per hour (two hour minimum)</td>
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</tr>
<tr>
<td>Part G. On-site technical assistance visits</td>
<td>$47 per hour (two hour minimum)</td>
<td></td>
</tr>
</tbody>
</table>

[Statutory Authority: RCW 70.114A.081. WSR 99-03-065, § 246-359-990, filed 1/18/99, effective 2/18/99.]