

CHAPTER 3

PROVISIONS FOR ALL COMPLIANCE METHODS

User note:

About this chapter: Chapter 3 explains the three compliance options for alterations and additions available in the code. In addition, this chapter also lays out the methods to be used for seismic design and evaluation throughout this code. Finally, this chapter clarifies that provisions in other I-Codes® related to repairs, alterations, additions, relocation and changes of occupancy must also be addressed unless they conflict with this code. In that case, this code takes precedence.

[S] SECTION 301 (ADMINISTRATION) COMPLIANCE METHODS

[S] **301.1 Applicability.** All repairs, alterations, changes of occupancy, additions and relocations of buildings shall comply with this chapter. The ~~((repair,))~~ alteration, change of occupancy, addition or relocation of all existing buildings and structures shall also comply with Section 301.2, 301.3 or 301.4. ~~((The provisions of Sections 302 through 309 shall apply to all alterations, repairs, additions, relocation of structures and changes of occupancy regardless of compliance method.))~~

301.1.1 Bleachers, grandstands and folding and telescopic seating. Existing bleachers, grandstands and folding and telescopic seating shall comply with ICC 300.

301.2 Repairs. Repairs shall comply with the requirements of Chapter 4.

[S] **301.3 Alteration, addition or change of occupancy.** The alteration, addition or change of occupancy of all existing buildings and structures shall also comply with one of the methods listed in Section 301.3.1, 301.3.2 or 301.3.3 as selected by the applicant. Sections 301.3.1 through 301.3.3 shall not be applied in combination with each other.

Exception: Subject to the approval of the code official, alterations ~~((complying))~~ that comply with the laws in existence at the time the building or the affected portion of the building was built shall be considered in compliance with the provisions of this code unless the building is undergoing a substantial alteration. New structural members added as part of the alteration shall comply with the *International Building Code*. This exception shall not apply to the following:

1. Alterations for accessibility required by Section 306.
2. Alterations that constitute substantial improvement in flood hazard areas, which shall comply with ~~((Sections 503.2, 701.3 or 1301.3.3))~~ Section 314.

~~((3. Structural provisions of Section 304, Chapter 5 or to the structural provisions of Sections 706, 805 and 906.))~~

301.3.1 Prescriptive compliance method. Alterations, additions and changes of occupancy complying with Chapter 5 of this code in buildings complying with the *International Fire Code* shall be considered in compliance with the provisions of this code.

301.3.2 Work area compliance method. Alterations, additions and changes of occupancy complying with the applicable requirements of Chapters 6 through 12 of this code shall be considered in compliance with the provisions of this code.

301.3.3 Performance compliance method. Alterations, additions and changes of occupancy complying with Chapter 13 of this code shall be considered in compliance with the provisions of this code.

[S] **301.4 Relocated buildings.** Relocated buildings shall comply with the requirements of ~~((Chapter 14))~~ Section 313.

[S] SECTION 302 (GENERAL PROVISIONS) ADDITIONAL REQUIREMENTS FOR ALL COMPLIANCE METHODS

[S] **302.1 ~~((Dangerous conditions))~~ Reserved.** ~~((The code official shall have the authority to require the elimination of conditions deemed dangerous.))~~

[S] **302.2 Additional codes.** ~~((Alterations))~~ Regardless of the compliance method, alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions and changes of occupancy or relocation, respectively, in this code and the *International Energy Conservation Code*, *International Fire Code*, *International Fuel Gas Code*, *International Mechanical Code*, ~~((International))~~ *Uniform Plumbing Code*, ~~((International Private Sewage Disposal Code, International Property Maintenance Code, International Residential Code))~~ *Seattle Boiler and Pressure Vessel Code*, *Seattle Electrical Code* and NFPA 70. Elevators and other conveyances shall

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comply with the *International Building Code*. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.

Note: Additional requirements relating to elevators and other conveyances are in the Seattle Building Code. Most requirements are located in Chapter 30.

302.2.1 Additional codes in health care. In existing Group I-2 occupancies, ambulatory health care *facilities*, outpatient clinics and hyperbaric *facilities, alterations, repairs, additions and changes of occupancy* to, or relocation of, *existing buildings* and structures shall also comply with NFPA 99.

[S] 302.2.2 Fire prevention. Except as specifically provided for in this code, the provisions of the *International Fire Code* shall apply to matters affecting or relating to structures, processes and premises regarding:

1. The hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices;
2. Conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and
3. The construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

[S] 302.3 Existing materials. Materials already in use in a building (~~(in compliance)~~) complying with requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use unless (~~(determined)~~) the materials are deemed unsafe by the code official. (~~(to be unsafe.)~~)

302.4 New and replacement materials. Except as otherwise required or permitted by this code, materials permitted by the applicable code for new construction shall be used. Like materials shall be permitted for *repairs* and *alterations*, provided that *unsafe* conditions are not created. Hazardous materials shall not be used where the code for new construction would not permit their use in buildings of similar occupancy, purpose and location.

[BS] 302.4.1 New structural members and connections. New structural members and connections shall comply with the detailing provisions of the *International Building Code* for new buildings of similar structure, purpose and location.

Exception: Where alternative design criteria are specifically permitted.

302.5 Occupancy and use. Where determining the appropriate application of the referenced sections of this code, the occupancy and use of a building shall be determined in accordance with Chapter 3 of the *International Building Code*.

[S] 302.6 Safeguards during construction. Regardless of compliance method, *alterations, repairs, additions and changes of occupancy* to, or relocation of, *existing buildings* and structures shall comply with the provisions of Chapter 15.

[S] 302.7 Occupant load increases in Group A occupancies. Regardless of which compliance method is used, when the occupant load in an existing Group A occupancy is increased, an automatic sprinkler system shall be installed in the fire area containing the Group A occupancy if a sprinkler system would be required by *International Building Code* Section 903.2.1 for new construction.

Exception: A sprinkler system is not required if all the following conditions are met:

1. The increase in occupant load is either 50 occupants or less, or no more than 10 percent of the occupant load of the existing Group A occupancy, whichever is greater; and
2. The existing means of egress has adequate capacity to accommodate the additional occupant load; and
3. The total occupant load in the Group A occupancy does not exceed one occupant per 5 square feet; and
4. The increase in occupant load is not part of a *substantial alteration*.

[S] 302.8 Unsafe building appendages. Parapet walls, cornices, spires, towers, tanks, statuary and other appendages or structural members that are supported by, attached to, or a part of a building and that are in a deteriorated condition or are otherwise unable to sustain the design loads that are specified in this code, are hereby designated as *unsafe building appendages*. All such *unsafe building appendages* are public nuisances and shall be abated in accordance with Section 101.14.

[S] 302.9 Unreinforced masonry chimneys. Whenever an unreinforced masonry chimney is altered or *repaired*, or when the building in which such a chimney is located undergoes *substantial alteration*, the chimney shall conform to rules promulgated by the code official.

[S] ((SECTION 303 STORM SHELTERS

303.1 Storm shelters. This section applies to the construction of storm shelters constructed as rooms or spaces within *existing buildings* for the purpose of providing protection during storms that produce high winds, such as tornadoes and hurricanes. Such structures shall be designated to be hurricane shelters, tornado shelters, or combined hurricane and tornado shelters. Such structures shall be constructed in accordance with this code and ICC 500.

303.2 Addition to a Group E occupancy. Where an *addition* is added to an existing Group E occupancy located in an area where the shelter design wind speed for tornadoes is 250 mph (402.3 km/h) in accordance with Figure 304.2(1) of ICC 500 and the occupant load in the *addition* is 50 or more, the *addition* shall have a storm shelter constructed in accordance with ICC 500.

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Exceptions:

1. Group E day care facilities.
2. Group E occupancies accessory to places of religious worship.
3. *Additions* meeting the requirements for shelter design in ICC 500.

303.2.1 Required occupant capacity. The required occupant capacity of the storm shelter shall include all buildings on the site, and shall be the total occupant load of the classrooms, vocational rooms and offices in the Group E occupancy.

Exceptions:

1. Where an *addition* is being added on an existing Group E site, and where the *addition* is not of sufficient size to accommodate the required occupant capacity of the storm shelter for all of the buildings on-site, the storm shelter shall at a minimum accommodate the required capacity for the *addition*.
2. Where *approved* by the *code official*, the required occupant capacity of the shelter shall be permitted to be reduced by the occupant capacity of any existing storm shelters on the site.

303.2.2 Occupancy classification. The occupancy classification for storm shelters shall be determined in accordance with Section 423.3 of the *International Building Code*.)

**[S] SECTION 304
STRUCTURAL ((DESIGN LOADS AND EVALUATION AND DESIGN PROCEDURES))
REQUIREMENTS FOR ALL COMPLIANCE METHODS**

[S] 304.1 Structural provisions for alterations. Alterations to any building or structure shall comply with the requirements of Sections 304.1.1 through 304.1.8.

[BS] 304.1.1 New structural elements. New structural elements in alterations, including connections and anchorage, shall comply with the *International Building Code*.

[BS] 304.1.2 Minimum design loads. The minimum design loads on existing elements of a structure that do not support additional loads as a result of an *alteration* shall be the loads applicable at the time the building was constructed.

[BS] 304.1.3 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an *alteration* causes an increase in design ((dead, live or snow)) gravity load ((including snow drift effects,)) of more than 5 percent shall be strengthened, supplemented, replaced or otherwise altered as needed to carry the increased gravity ((loads)) load required by the *International Building Code* for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the *alteration* shall be shown to have the capacity to resist the applicable design ((dead, live and snow)) gravity loads ((including snow drift effects)) required by the *International Building Code* for new structures.

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((Exceptions)) Exception: ((+)) Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the ((altered)) existing building and its alteration ((complies)) comply with the conventional light-frame construction methods of the *International Building Code*, ((or the provisions of the *International Residential Code*.

2. Buildings in which the increased dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing single layer of roof covering.)

[BS] ((304.1)) 304.1.3.1 Live loads. Where an *addition* or *alteration* does not result in increased design live load, existing gravity load-carrying structural elements shall be permitted to be evaluated and designed for live loads *approved* prior to the *addition* or *alteration*. If the *approved* live load is less than that required by Section 1607 of the *International Building Code*, the area designated for the nonconforming live load shall be posted with placards of *approved* design indicating the *approved* live load. Where the *addition* or *alteration* results in increased design live load, the live load required by Section 1607 of the *International Building Code* shall be used.

[BS] 304.1.4 Existing structural elements carrying lateral load. ((Except as permitted by Section 503.13, where)) Where the *alteration* increases design lateral loads in accordance with Section 1609 or 1613 of the *International Building Code*, or where the *alteration* results in a prohibited structural irregularity as defined in ASCE 7, or where the *alteration* decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall be shown to meet the requirements of Sections 1609 and 1613 of the *International Building Code*. Reduced *International Building Code*-level seismic forces in accordance with Section 304.4.2 shall be permitted.

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Exception: Any existing lateral load-carrying structural element whose demand-capacity ratio with the *alteration* considered is not more than 10 percent greater than its demand-capacity ratio with the *alteration* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the *International Building Code*. Reduced *International Building Code*-level seismic forces in accordance with Section 304.4.2 shall be permitted. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction.

** [BS] 304.1.5 (~~Anchorage~~) **Wall anchorage for unreinforced masonry walls in major alterations.** Where the (~~work area~~) portion of the building undergoing the intended *alteration* exceeds 50 percent of the aggregate area of the building, (~~area~~) the building is assigned to Seismic Design Category C, D, E or F_s and the building's structural system includes unreinforced masonry (~~bearing~~) walls, the *alteration* work shall include installation of wall anchors at the (~~floor and~~) roof (~~lines~~) line to resist seismic forces, unless an evaluation demonstrates compliance of existing wall anchorage. (~~Reduced~~) For purposes of this section, reduced design seismic forces shall be permitted.

** [BS] 304.1.6 **Anchorage of unreinforced masonry partitions in major alterations.** Where the *work area* exceeds 50 percent of the building area, and where the building is assigned to Seismic Design Category C, D, E or F, unreinforced masonry partitions and nonstructural walls within the *work area* and adjacent to egress paths from the *work area* shall be anchored, removed or altered to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Use of reduced seismic forces shall be permitted.

** [W][S][BS] 304.1.7 **Voluntary (~~lateral force-resisting system alterations~~) seismic improvements.** (~~Structural alterations~~) Alterations to existing structural elements or additions of new structural elements that are (~~intended exclusively to improve the lateral force-resisting system and are~~) not otherwise required by (~~other sections of this code~~) this chapter and are initiated for the purpose of improving the performance of the seismic force-resisting system of an existing structure or the performance of seismic bracing or anchorage of existing nonstructural elements (~~shall not be required to meet the requirements of Section 1609 or Section 1613 of the International Building Code, provided that all of the following apply~~) shall be permitted, if an engineering analysis is submitted demonstrating the following:

(~~1. The capacity of existing structural systems to resist forces is not reduced.~~)

1. The altered structure and the altered nonstructural elements are no less conforming to the provisions of the *International Building Code* with respect to earthquake design than they were prior to the *alteration*.

Exception: Any existing lateral load-carrying structural element whose demand-capacity ratio with the *alteration* considered is no more than 10 percent greater than its demand-capacity ratio with the *alteration* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces per Sections 1609 and 1613 of the *International Building Code*. For purposes of this exception, comparisons of demand capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction.

2. New structural elements are detailed and connected to existing or new structural elements as required by the (~~International Building Code for new construction~~) selected design criteria.

2.1. Where approved, the new lateral force-resisting systems are permitted to be of a type designated as "Ordinary" or "Intermediate" where ASCE 7 Table 12.2-1 states these types of systems are not permitted provided that both of the following apply:

2.1.1. The selected design criteria is the *International Building Code*.

2.1.2. The new "Ordinary" or "Intermediate" system provides deformation compatibility with the existing lateral force-resisting system.

3. New or relocated nonstructural elements are detailed and connected to existing or new structural elements as required (~~by the International Building Code~~) for new construction.

4. The *alterations* do not create a structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe.

(~~[BS] 304.2 Snow loads on adjacent buildings. Where an alteration or addition changes the potential snow drift effects on an adjacent building, the code official is authorized to enforce Section 7.12 of ASCE 7.~~)

** [S] 304.2 (~~Seismic loads (seismic force-resisting system)~~) **Structural provisions for changes of occupancy.** Where a *change of occupancy* results in a (~~building~~) structure being (~~assigned~~) reclassified to a higher *risk category* determined in accordance with Table 1604.5 of the *International Building Code*, or where the change is from a Group S or Group U occupancy to any occupancy other than Group S or Group U, the (~~building~~) structure shall (~~satisfy~~) conform to the seismic requirements for a new structure of the higher risk category. For purposes of this section, compliance with ASCE 41, using a Tier 3 procedure and the two-level performance objective in Table 304.4.1 for the applicable risk category, shall be deemed to meet requirements of Section 1613 of the *International Building Code*. (~~for the new risk category using full seismic forces.~~)

~~((Exceptions:~~

1. ~~Where the area of the new occupancy is less than 10 percent of the building area, the occupancy is not changing from a Group S or Group U occupancy, and the new occupancy is not assigned to Risk Category IV, compliance with this section is not required. The cumulative effect of occupancy changes over time shall be considered.~~
2. ~~Where a change of use results in a building being reclassified from Risk Category I or II to Risk Category III and the seismic coefficient, S_{DS} , is less than 0.33, compliance with this section is not required.~~
3. ~~Unreinforced masonry bearing wall buildings assigned to Risk Category III and to Seismic Design Category A or B, shall be permitted to use Appendix Chapter A1 of this code.~~
4. ~~Where the change is from a Group S or Group U occupancy and there is no change of risk category, use of reduced seismic forces shall be permitted.)~~

Exception: Specific seismic detailing requirements of Section 1613 of the *International Building Code* for a new structure shall not be required to be met where the seismic performance is shown to be equivalent to that of a new structure. A demonstration of equivalence shall consider the regularity, overstrength, redundancy and ductility of the structure.

[S] 304.3 Structural provisions for additions. Additions to any building or structure shall comply with the requirements of Sections 304.3.1 through 304.3.3.

[S][BS] 304.3.1 New structural elements. New structural elements in additions, including connections and anchorage, shall comply with the *International Building Code*.

[BS] 304.3.2 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an addition and its related alterations cause an increase in design ~~((dead, live or snow))~~ gravity load ~~((including snow drift effects,))~~ of more than 5 percent shall be strengthened, supplemented, replaced or otherwise altered as needed to carry the increased gravity ~~((loads))~~ load required by the *International Building Code* for new structures. Any existing gravity load-carrying structural element whose ~~((vertical))~~ gravity load-carrying capacity is decreased ~~((as part of the addition and its related alterations))~~ shall be considered ~~((to be))~~ an altered element subject to the requirements of Section ~~((503.3))~~ 304.1.3. Any existing element that will form part of the lateral load path for any part of the addition shall be considered ~~((to be))~~ an existing lateral load-carrying structural element subject to the requirements of Section ~~((502.5))~~ 304.3.3.

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~~((Exception: Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition together comply with the conventional light frame construction methods of the *International Building Code* or the provisions of the *International Residential Code*.)~~

[BS] 304.3.2.1 Design live load. Where the addition does not result in increased design live load, existing gravity load-carrying structural elements shall be permitted to be evaluated and designed for live loads approved prior to the addition. If the approved live load is less than that required by Section 1607 of the *International Building Code*, the area designed for the nonconforming live load shall be posted with placards of approved design indicating the approved live load. Where the addition does result in increased design live load, the live load required by Section 1607 of the *International Building Code* shall be used.

[BS] 304.3.3 Existing structural elements carrying lateral load. Where the addition is structurally independent of the existing structure, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the existing structure and its addition acting together as a single structure shall be shown to meet the requirements of Sections 1609 and 1613 of the *International Building Code*. ~~((using full seismic forces.))~~ For purposes of this section, compliance with ASCE 41, using a Tier 3 procedure and the two-level performance objective in Table 304.4.1 for the applicable risk category, shall be deemed to meet the requirements of Section 1613 of the *International Building Code*.

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((Exceptions)) Exception: ~~((+))~~ Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10 percent greater than its demand-capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the *International Building Code*. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction.

~~((2. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition together comply with the conventional light frame construction methods of the *International Building Code* or the provisions of the *International Residential Code*.)~~

[S][BS] ((304.3)) 304.4 Seismic evaluation and design procedures. Where required, seismic evaluation or design shall be based on the procedures and criteria ~~((in this section, regardless of which compliance method is used))~~ specified in the *International Building Code* or ASCE 41. The procedures contained in Appendix A of this code shall be permitted to be used as specified in Section 304.4.2.

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[BS] ((304.3.1)) 304.4.1 Compliance with ((full)) International Building Code-level seismic forces. Where compliance ((requires the use of full seismic forces)) with the seismic design provisions of the International Building Code is required, the criteria shall be in accordance with one of the following:

1. One-hundred percent of the values in the *International Building Code*. Where the existing seismic force-resisting system is a type that can be designated as “Ordinary,” values of R , Ω_0 and C_d used for analysis in accordance with Chapter 16 of the *International Building Code* shall be those specified for structural systems classified as “Ordinary” in accordance with Table 12.2-1 of ASCE 7, unless it can be demonstrated that the structural system will provide performance equivalent to that of a “Detailed,” “Intermediate” or “Special” system.
2. ASCE 41, using a Tier 3 procedure and the two-level performance objective in Table ((304.3.1)) 304.4.1 for the applicable *risk category*.

**[BS] TABLE ((304.3.4)) 304.4.1
PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH
((FULL)) INTERNATIONAL BUILDING CODE-LEVEL SEISMIC FORCES**

RISK CATEGORY (Based on IBC Table 1604.5)	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-1N EARTHQUAKE HAZARD LEVEL	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-2N EARTHQUAKE HAZARD LEVEL
I	Life Safety (S-3)	Collapse Prevention (S-5)
II	Life Safety (S-3)	Collapse Prevention (S-5)
III	Damage Control (S-2)	Limited Safety (S-4)
IV	Immediate Occupancy (S-1)	Life Safety (S-3)

[BS] ((304.3.2)) 304.4.2 Compliance with reduced International Building Code seismic forces. Where seismic evaluation and design is permitted to use reduced seismic forces, the criteria used shall be in accordance with one of the following:

1. The *International Building Code* using 75 percent of the prescribed forces. Values of R , Ω_0 and C_d used for analysis shall be as specified in Section ((304.3.1)) 304.4.1 of this code.
2. Structures or portions of structures that comply with the requirements of the applicable chapter in Appendix A as specified in Items 2.1 through 2.4 and subject to the limitations of the respective Appendix A chapters shall be deemed to comply with this section.
 - 2.1. The seismic evaluation and design of unreinforced masonry bearing wall buildings in *Risk Category* I or II are permitted to be based on the procedures specified in Appendix Chapter A1.
 - ~~((2.2. Seismic evaluation and design of the wall anchorage system in reinforced concrete and reinforced masonry wall buildings with flexible diaphragms in Risk Category I or II are permitted to be based on the procedures specified in Chapter A2.))~~
 - ~~((2.3))~~ 2.2. Seismic evaluation and design of cripple walls and sill plate anchorage in residential buildings of light-frame wood construction in *Risk Category* I or II are permitted to be based on the procedures specified in Chapter A3.
 - ~~((2.4))~~ 2.3. Seismic evaluation and design of soft, weak or open-front wall conditions in multiple-unit residential buildings of wood construction in *Risk Category* I or II are permitted to be based on the procedures specified in Chapter A4.
3. ASCE 41, using the performance objective in Table ((304.3.2)) 304.4.2 for the applicable *risk category*. Footnote a of Table 11.4.2 and Item 3 of Section 11.4.8 of ASCE 7 do not apply.

[BS] TABLE ((304.3.2)) 304.4.2
 PERFORMANCE OBJECTIVES FOR USE IN ASCE 41 FOR COMPLIANCE WITH REDUCED SEISMIC FORCES

RISK CATEGORY (Based on IBC Table 1604.5)	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-1E EARTHQUAKE HAZARD LEVEL	STRUCTURAL PERFORMANCE LEVEL FOR USE WITH BSE-2E EARTHQUAKE HAZARD LEVEL
I	Life Safety (S-3). See Note a	Collapse Prevention (S-5)
II	Life Safety (S-3). See Note a	Collapse Prevention (S-5)
III	Damage Control (S-2). See Note a	Limited Safety (S-4). See Note b
IV	Immediate Occupancy (S-1)	Life Safety (S-3). See Note c

- a. For Risk Categories I, II and III, the Tier 1 and Tier 2 procedures need not be considered for the BSE-1E earthquake hazard level.
- b. For Risk Category III, the Tier 1 screening checklists shall be based on the Collapse Prevention, except that checklist statements using the Quick Check provisions shall be based on *MS*-factors that are the average of the values for Collapse Prevention and Life Safety.
- c. For Risk Category IV, the Tier 1 screening checklists shall be based on Collapse Prevention, except that checklist statements using the Quick Check provisions shall be based on *MS*-factors for Life Safety.

[S] 304.5 Seismic regulations for unreinforced masonry buildings. *URM buildings* meeting any of the following criteria shall comply with Section 304.5.1:

1. Where there is a significant increase in the occupant load of a *URM building*, as determined by the code official.
2. *URM buildings* voluntarily seeking to be defined as a *retrofitted URM building*.

304.5.1 URM Seismic regulations. *URM buildings* shall comply or be altered to comply with one of the following:

1. Section 304.4.2;
2. Appendix Chapter A6, Alternate Method for the Seismic Improvement of *Unreinforced Masonry (URM) Buildings*;
3. Previously permitted and completed retrofits that comply with one of the following:
 - a. *URM buildings* that have undergone a seismic retrofit due to a substantial alteration determination, permitted between September 16, 1996, and April 24, 2009, using the 1994 or later edition of the Seattle Building Code. A report confirming the retrofit work was completed shall be prepared by a licensed structural engineer and submitted to the code official.
 - b. *URM buildings* that have undergone a seismic retrofit due to a substantial alteration determination, permitted after April 24, 2009, using the 2006 or later edition of the Seattle Building Code.
 - c. Other seismic retrofits approved by the code official.

SECTION 305 IN-SITU LOAD TESTS

[BS] 305.1 General. Where used, in-situ load tests shall be conducted in accordance with Section 1708 of the *International Building Code*.

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS

[S] 306.1 Scope. The provisions of Sections 306.1 through 306.7.16 apply to maintenance and *repair, change of occupancy, additions and alterations to existing buildings*, including those identified as (~~*historic buildings*~~) *landmarks*.

306.2 Design. Buildings and *facilities* shall be designed and constructed to be accessible in accordance with this code and the *alteration and existing building* provisions in ICC A117.1, as applicable.

306.3 Maintenance and repair. A *facility* that is constructed or altered to be accessible shall be maintained accessible during occupancy. Required accessible means of egress shall be maintained during construction, demolition, remodeling or *alterations and additions* to any occupied building.

Exception: Existing means of egress need not be maintained where *approved* temporary means of egress and accessible means of egress systems and *facilities* are provided.

306.3.1 Prohibited reduction in accessibility. An *alteration* that decreases or has the effect of decreasing accessibility of a building, *facility* or element, thereof, below the requirements for new construction at the time of the *alteration* is prohibited. The number of accessible elements need not exceed that required for new construction at the time of *alteration*.

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[S] **306.4 Extent of application.** ~~((An))~~ Maintenance, alterations, change of occupancy, additions to or relocations of existing buildings of an existing *facility* shall not impose a requirement for greater accessibility than that which would be required for new construction.

[S] **306.5 Change of occupancy.** *Existing buildings* that undergo a change of group or occupancy shall comply with Section 306.7.

Exception: Type B dwelling or sleeping units required by Section 1108 of the *International Building Code* are not required to be provided in *existing buildings* and *facilities* undergoing a *change of occupancy* in conjunction with *alterations* where the *work area* is 50 percent or less of the aggregate area of the building or less than a level 3 alteration.

[W] **306.6 Additions.** Provisions for new construction shall apply to *additions*. An *addition* that affects the accessibility to, or contains an area of, a *primary function* shall comply with the requirements in Section 306.7.1. Limited-use/limited-application elevators installed in accordance with ASME A17.1 shall be permitted as a component of an accessible route connecting the existing construction to the addition.

306.7 Alterations. A *facility* that is altered shall comply with the applicable provisions in Chapter 11 of the *International Building Code*, ICC A117.1 and the provisions of Sections 306.7.1 through 306.7.16, unless *technically infeasible*. Where compliance with this section is *technically infeasible*, the *alteration* shall provide access to the maximum extent technically feasible.

[W] **306.7.1 Alterations affecting an area containing a primary function.** Where an *alteration* affects the accessibility to, or contains an area of *primary function*, the route to the *primary function* area shall be accessible. ~~((The accessible route to))~~ Toilet facilities and drinking fountains serving the area of primary function ((area shall include toilet facilities and drinking fountains serving)) including the route from the area of primary function to these facilities, shall be accessible. Priority shall be given to the improvements affecting the accessible route to the primary function area.

Exceptions:

1. The costs of providing the accessible route are not required to exceed 20 percent of the costs of the *alterations* affecting the area of *primary function*.
2. This provision does not apply to *alterations* limited solely to windows, hardware, operating controls, electrical outlets and signs.
3. This provision does not apply to *alterations* limited solely to mechanical systems, electrical systems, installation or *alteration* of fire protection systems and abatement of hazardous materials.
4. This provision does not apply to *alterations* undertaken for the primary purpose of increasing the accessibility of a *facility*.
5. This provision does not apply to altered areas limited to Type B dwelling and sleeping units.

306.7.2 Accessible means of egress. Accessible means of egress required by Chapter 10 of the *International Building Code* are not required to be added in existing *facilities*.

306.7.3 Alteration of Type A units. The *alteration* to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a Type B dwelling unit.

306.7.4 Type B units. Type B dwelling or sleeping units required by Section 1108 of the *International Building Code* are not required to be provided in *existing buildings* and *facilities* undergoing *alterations* where the *work area* is 50 percent or less of the aggregate area of the building.

306.7.5 Entrances. Where an *alteration* includes *alterations* to an entrance that is not accessible, and the *facility* has an accessible entrance, the altered entrance is not required to be accessible unless required by Section 306.7.1. Signs complying with Section 1112 of the *International Building Code* shall be provided.

306.7.6 Accessible route. Exterior accessible routes, including curb ramps, shall be not less than 36 inches (914 mm) minimum in width.

306.7.7 Elevators. Altered elements of existing elevators shall comply with ASME A17.1. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.

[W] **306.7.8 Platform lifts.** ~~((Platform))~~ Vertical and inclined platform (wheelchair) lifts complying with ICC A117.1 and installed in accordance with ASME A18.1 shall be permitted as a component of an accessible route.

Limited-use/limited-application elevators installed in accordance with ASME A17.1 shall be permitted as a component of an accessible route.

[S] **306.7.9 Stairways and escalators in existing buildings.** ~~((Where))~~ In alterations, change of occupancy, or additions where an escalator or stairway is added where none existed previously and major structural modifications are necessary for installation, an accessible route complying with Section 1104.4 of the *International Building Code* is required between levels served by such escalator or stairway.

306.7.10 Determination of number of units. Where Chapter 11 of the *International Building Code* requires Accessible, Type A or Type B units and where such units are being altered or added, the number of Accessible, Type A and Type B units shall be determined in accordance with Sections 306.7.10.1 through 306.7.10.3.

306.7.10.1 Accessible dwelling or sleeping units. Where Group I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being altered or added, the requirements of Section 1108 of the *International Building Code* for Accessible units apply only to the quantity of spaces being altered or added.

[S] **306.7.10.2 Type A dwelling or sleeping units.** Where more than 20 Group R-2 dwelling or sleeping units are being altered or added, the requirements of Section 1108 of the *International Building Code* for Type A units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being altered or added.

[S] **306.7.10.3 Type B dwelling or sleeping units.** Where four or more Group I-1, I-2, R-1, R-2, or R-3 (~~or R-4~~) dwelling or sleeping units are being added, the requirements of Section 1108 of the *International Building Code* for Type B units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being added. Where Group I-1, I-2, R-1, R-2, or R-3 (~~or R-4~~) dwelling or sleeping units are being altered and where the work area is greater than 50 percent of the aggregate area of the building, the requirements of Section 1108 of the *International Building Code* (~~for Type B units~~) apply only to the quantity of the spaces being altered.

Exception: When using the provisions of Chapter 9, Group I-1, I-2, R-2, or R-3 dwelling or sleeping units where the first certificate of occupancy was issued before March 15, 1991, are not required to provide Type B dwelling or sleeping units.

[S] **306.7.11 Toilet rooms.** Where it is *technically infeasible* to alter existing toilet rooms to be accessible, one accessible single-user toilet room or one accessible family or assisted-use toilet room constructed in accordance with Section 1110.2.1 of the *International Building Code* is permitted. This toilet room shall be located on the same floor and in the same area as the existing toilet rooms. The number of toilet facilities and water closets required by the *International Building Code* is permitted to be reduced by one, in order to provide accessible features. At the inaccessible toilet rooms, provide directional signs indicating the location of the nearest such toilet room. (~~shall be provided.~~) These directional signs shall include the International Symbol of Accessibility, and sign characters shall meet the visual character requirements in accordance with ICC A117.1.

306.7.12 Bathing rooms. Where it is *technically infeasible* to alter existing bathing rooms to be accessible, one accessible single-user bathing room or one accessible family or assisted-use bathing room constructed in accordance with Section 1110.2.1 of the *International Building Code* is permitted. This accessible bathing room shall be located on the same floor and in the same area as the existing bathing rooms. At the inaccessible bathing rooms, directional signs indicating the location of the nearest such bathing room shall be provided. These directional signs shall include the International Symbol of Accessibility, and sign characters shall meet the visual character requirements in accordance with ICC A117.1.

306.7.13 Additional toilet and bathing facilities. In assembly and mercantile occupancies, where additional toilet fixtures are added, not fewer than one accessible family or assisted-use toilet room shall be provided where required by Section 1110.2.1 of the *International Building Code*. In recreational facilities, where additional bathing rooms are being added, not fewer than one family or assisted-use bathing room shall be provided where required by Section 1110.2.1 of the *International Building Code*.

306.7.14 Dressing, fitting and locker rooms. Where it is *technically infeasible* to provide accessible dressing, fitting or locker rooms at the same location as similar types of rooms, one accessible room on the same level shall be provided. Where separate-sex facilities are provided, accessible rooms for each sex shall be provided. Separate-sex facilities are not required where only unisex rooms are provided.

306.7.15 Amusement rides. Where the structural or operational characteristics of an amusement ride are altered to the extent that the amusement ride's performance differs from that specified by the manufacturer or the original design, the amusement ride shall comply with requirements for new construction in Section 1111.4.8 of the *International Building Code*.

[S] **306.7.16 ((Historic)) Accessibility provisions for landmark structures.** Where compliance with the requirements for accessible routes, entrances or toilet rooms would threaten or destroy the historic significance of the ((historic)) landmark structure, as determined by the ((authority having jurisdiction)) code official, the alternative requirements of Sections 306.7.16.1 through 306.7.16.5 for that element shall be permitted.

Exceptions:

1. Accessible means of egress required by Chapter 10 of the *International Building Code* are not required to be provided in ((historic)) landmark structures.
2. The altered element or space is not required to be on an accessible route, unless required by Sections 306.7.16.1 or 306.7.16.2.

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306.7.16.1 Site arrival points. Not fewer than one exterior accessible route, including curb ramps from a site arrival point to an accessible entrance, shall be provided and shall not be less than 36 inches (914 mm) minimum in width.

306.7.16.2 Multiple-level buildings and facilities. An accessible route from an accessible entrance to public spaces on the level of the accessible entrance shall be provided.

306.7.16.3 Entrances. Where an entrance cannot be made accessible in accordance with Section 306.7.5, an accessible entrance that is unlocked while the building is occupied shall be provided; or, a locked accessible entrance with a notification system or remote monitoring shall be provided.

Signs complying with Section 1112 of the *International Building Code* shall be provided at the public entrances and the accessible entrance.

306.7.16.4 Toilet facilities. Where toilet rooms are provided, not fewer than one accessible single-user toilet room or one accessible family or assisted-use toilet room complying with Section 1110.2.1 of the *International Building Code* shall be provided.

306.7.16.5 Bathing facilities. Where bathing rooms are provided, not fewer than one accessible single-user bathing room or one accessible family or assisted-use bathing rooms complying with Section 1110.2.1 of the *International Building Code* shall be provided.

306.7.16.6 Type A units. The *alteration* to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a Type B dwelling unit.

[S] **306.7.16.7 Type B units.** Type B dwelling or sleeping units required by Section 1108 of the *International Building Code* are not required to be provided in (~~historic buildings~~) landmarks.

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SECTION 307 SMOKE ALARMS

[S] **307.1 Smoke alarms.** Where an *alteration, addition, change of occupancy* or relocation of a building is made to an *existing building* or structure of a Group R and I-1 occupancy, the *existing building* shall be provided with smoke alarms in accordance with the *International Fire Code*, (~~or Section R314 of the International Residential Code.~~)

Exception: Work classified as Level 1 *Alterations* in accordance with Chapter 7.

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SECTION 308 CARBON MONOXIDE DETECTION

308.1 Carbon monoxide detection. Where an *addition, alteration, change of occupancy* or relocation of a building is made to Group I-1, I-2, I-4 and R occupancies and classrooms of Group E occupancies, the *existing building* shall be provided with carbon monoxide detection in accordance with the *International Fire Code* or Section R315 of the *International Residential Code*.

Exceptions:

1. Work involving the exterior surfaces of buildings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks.
2. Installation, alteration or *repairs* of plumbing or mechanical systems, other than fuel-burning appliances.
3. Work classified as Level 1 *Alterations* in accordance with Chapter 7.

SECTION 309 ADDITIONS AND REPLACEMENTS OF EXTERIOR WALL COVERINGS AND EXTERIOR WALL ENVELOPES

309.1 General. The provisions of Section 309 apply to all *alterations, repairs, additions*, relocations of structures and *changes of occupancy* regardless of compliance method.

309.2 Additions and replacements. Where an *exterior wall covering* or *exterior wall envelope* is added or replaced, the materials and methods used shall comply with the requirements for new construction in Chapter 14 and Chapter 26 of the *International Building Code* if the added or replaced *exterior wall covering* or *exterior wall envelope* involves two or more contiguous stories and comprises more than 15 percent of the total wall area on any side of the building.

**[S] SECTION 310
LANDMARKS**

[B] 310.1 Landmarks. The provisions of this code relating to the construction, *repair, alteration, addition, restoration and movement of structures, and change of occupancy* shall be mandatory for landmarks. Landmarks shall comply with the accessibility requirements of Section 306.7.16.

Exception: Where *approved by the code official*, compliance with this code is not required where preservation of historic elements precludes complete compliance and a reasonable degree of safety to the public and the occupants of the building is provided.

**[S] SECTION 311
SUBSTANTIAL ALTERATION REQUIREMENTS FOR ALL COMPLIANCE METHODS**

[S] 311.1 Substantial alterations or repairs. Regardless of which compliance method is used, a building or structure to which *substantial alterations or repairs* are made shall conform with the requirements of this section and the following sections of the *International Building Code*:

1. Section 403 when applicable;
2. Special requirements for the Fire District found in Chapter 4 when applicable;
3. Section 717;
4. Chapter 8;
5. Section 903 and 905;
6. Sections 909.20.5, 909.20.6 and 909.21; and
7. Chapter 10.
8. Fire alarms shall be provided as required by the *International Fire Code*.

[S] 311.1.1 Definition. For the purpose of this section, *substantial alteration* or repair means any one of the following, as determined by the *code official*:

1. *Repair* of a building with a *damage ratio* of 60 percent or more.
2. Remodeling or an *addition* that substantially extends the useful physical or economic life of the building or a significant portion of the building, other than typical tenant remodeling.
3. A change of a significant portion of a building to an occupancy that is more hazardous than the existing occupancy, based on the combined life and fire risk as determined by the *code official*. The *code official* is permitted to use Table 311.1 as a guideline.
4. Reoccupancy of a building that has been substantially vacant for more than 24 months in occupancies other than Group R-3.

[S] 311.1.2 Seismic regulations. Buildings or structures to which *substantial alterations or repairs* are made shall comply with Section 304.4.2. In addition, the *code official* is authorized to require testing of existing materials when there is insufficient evidence of structural strength or integrity.

Exceptions:

1. If an *alteration* is substantial only because it is a change to a more hazardous occupancy, compliance with this subsection is required only if the life hazard risk increases, as determined by the *code official*.
2. For Group R-3 occupancies, when approved by the *code official*, the applicant is permitted to evaluate and strengthen portions of the building lateral support structure, such as foundations and cripple walls.
3. For permitted one- or two- family dwellings, less than four stories above grade plane, that are *substantial alterations* due to a move into the SBC, the applicant is permitted to evaluate and strengthen portions of the building lateral support structure, such as foundations and cripple walls, subject to the approval of the *code official*.

[S] 311.1.3 Seismic evaluation report. A proposal for structural rehabilitation shall be submitted based on a comprehensive report prepared by a licensed structural engineer according to rules promulgated by the *code official*. The report shall include an investigation and structural analysis of the building based on Section 304.4.2. The report shall specify the building's seismic deficiencies, and propose measures that will provide an acceptable degree of seismic safety considering the nature, size and scope of the project. This requirement shall also apply to Section 101.14 as conditions require.

A seismic evaluation report is not required when Exceptions 2 or 3 of Section 311.1.2 are met.

[S] 311.1.4 Energy use regulations. An *alteration or repair* described in Items 1, 2, or 4 of Section 311.1.1 shall comply with Section C503.8 of the *International Energy Conservation Code*.

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Exception: Existing residential buildings of three stories or less above grade plane are not required to comply with this section.

**[S] TABLE 311.1
RATING OF OCCUPANCIES BY DEGREE OF HAZARD**

OCCUPANCY	DESCRIPTION	LIFE	FIRE	COMBINED RATING
<u>A1</u>	<u>Assembly uses, usually with fixed seating, intended for the production and viewing of the performing arts or motion pictures</u>	4	3	12
<u>A2</u>	<u>Assembly uses intended for food and/or drink consumption</u>	4	3	12
<u>A3</u>	<u>Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A</u>	4	3	12
<u>A4</u>	<u>Assembly uses intended for viewing of indoor sporting events and activities with spectator seating</u>	3	1	3
<u>A5</u>	<u>Assembly uses intended for participation in or viewing outdoor activities</u>	3	1	3
<u>B</u>	<u>Office, professional or service-type transactions, including storage of records and accounts</u>	2	1	2
<u>B</u>	<u>Eating & drinking establishments with an occupant load of less than 50</u>	2	1	2
<u>B</u>	<u>Buildings or portions of buildings having rooms used for educational purposes beyond 12th grade</u>	2	1	2
<u>E</u>	<u>Any building used for educational purposes by six or more persons at any one time for educational purposes through the 12th grade</u>	3	2	6
<u>E</u>	<u>Day care centers for more than five children older than 2-1/2 years of age</u>	3	2	6
<u>I4</u>	<u>Facilities that provide accommodations for less than 24 hours for more than five unrelated adults and provides supervision and personal care services; facilities that provide supervision and personal care on less than a 24-hour basis for more than five children 2-1/2 years of age or less</u>	4	3	12
<u>F1</u>	<u>Moderate hazard factory and industrial</u>	2	2	4
<u>F2</u>	<u>Low-hazard factory and industrial</u>	1	1	1
<u>H1</u>	<u>Occupancies with a detonation hazard</u>	5	4	20
<u>H2</u>	<u>Occupancies which present a deflagration hazard or a hazard from accelerated burning</u>	5	4	20
<u>H3</u>	<u>Occupancies containing materials that readily support combustion or that pose a physical hazard</u>	5	4	20
<u>H4</u>	<u>Occupancies containing materials that are health hazards</u>	5	4	20
<u>H5</u>	<u>Semiconductor fabrication facilities</u>	5	4	20
<u>I1</u>	<u>Buildings, structures or portions thereof for more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised environment and receive custodial care</u>	3	3	9
<u>I2</u>	<u>Buildings and structures used for medical care on a 24-hour basis for more than five persons who are incapable of self-preservation</u>	4	3	12
<u>I3</u>	<u>Buildings and structures that are inhabited by more than five persons who are under restraint or security</u>	4	3	12
<u>M</u>	<u>Buildings used for display and sale of merchandise</u>	3	2	6
<u>R1</u>	<u>Occupancies containing sleeping units where the occupants are primarily transient in nature</u>	3	3	9
<u>R2</u>	<u>Occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature</u>	3	3	9
<u>R3</u>	<u>Residential 3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, or I</u>	2	1	2
<u>S1</u>	<u>Moderate hazard storage</u>	2	2	4
<u>S2</u>	<u>Low-hazard storage</u>	1	1	1
<u>U</u>	<u>Buildings and structures of an accessory character and miscellaneous structures</u>	1	1	1

**[S] SECTION 312
REROOFING**

**

[BS] 312.1 General. Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15 of the *International Building Code* and the *International Energy Conservation Code*.

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Exceptions:

1. *Roof replacement* or roof recover of existing low-slope roof coverings shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 of the *International Building Code* for roofs that provide positive roof drainage.
2. Recovering or replacing an existing roof covering shall not be required to meet the requirement for secondary (emergency overflow) drains or scuppers in Section 1502 of the *International Building Code* for roofs that provide for positive roof drainage. For the purposes of this exception, existing secondary drainage or scupper systems required in accordance with this code shall not be removed unless they are replaced by secondary drains or scuppers designed and installed in accordance with Section 1502 of the *International Building Code*.

[BS] 312.2 Structural and construction loads. (~~Structural roof components shall be capable of supporting the roof covering system and the material and equipment loads that will be encountered during installation of the system.~~) Where addition or replacement of roofing or replacement of equipment results in additional dead loads, structural components supporting the reroofing equipment shall comply with Section 304.1.

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[BS] 312.3 Roof replacement. *Roof replacement* shall include the removal of all existing layers of roof coverings down to the roof deck.

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Exception: Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section 1507 of the *International Building Code*.

[BS] 312.3.1 Roof recover. The installation of a new roof covering over an existing roof covering shall be permitted where any of the following conditions occur:

1. The new roof covering is installed in accordance with the roof covering manufacturer's *approved* instructions.
2. Complete and separate roofing systems, such as standing-seam metal roof panel systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support, are installed.
3. Metal panel, metal shingle and concrete and clay tile roof coverings are installed over existing wood shake roofs in accordance with Section 312.4.
4. A new protective *roof coating* is applied over an existing protective *roof coating*, a metal roof panel, metal roof shingles, mineral-surfaced roll roofing, a built-up roof, modified bitumen roofing, thermoset and thermoplastic single-ply roofing or a spray polyurethane foam roofing system.

[BS] 312.3.1.1 Exceptions. A roof recover shall not be permitted where any of the following conditions occur:

1. The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. The existing roof covering is slate, clay, cement or asbestos-cement tile.
3. The existing roof has two or more applications of any type of roof covering.

[BS] 312.4 Roof recovering. Where the application of a new roof covering over wood shingle or shake roofs creates a combustible concealed space, the entire existing surface shall be covered with gypsum board, mineral fiber, glass fiber or other *approved* materials securely fastened in place.

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[BS] 312.5 Reinstallation of materials. Existing slate, clay or cement tile shall be permitted for reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled. Existing vent flashing, metal edgings, drain outlets, collars and metal counterflashings shall not be reinstalled where rusted, damaged or deteriorated. Aggregate surfacing materials shall not be reinstalled.

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[BS] 312.6 Flashings. Flashings shall be reconstructed in accordance with *approved* manufacturer's installation instructions. Metal flashing to which bituminous materials are to be adhered shall be primed prior to installation.

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**[S] SECTION 313
RELOCATED BUILDINGS AND STRUCTURES**

313.1 Nonresidential buildings or structures. Nonresidential buildings or structures relocated into or within the city shall comply with standards adopted by the code official. The code official is authorized to require an inspection of the building before or after relocation. The permit holder shall correct all deficiencies identified by the inspection. The code official is

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authorized to require that a bond or cash deposit in an amount sufficient to abate or demolish the building be posted prior to issuance of a permit. See Section 106 of the *International Building Code* for information required on plans. Any relocated building that is not in complete compliance with standards for relocated buildings within 18 months from the date of permit issuance and is found to be a public nuisance may be abated. Relocated buildings and structures shall also comply with the *International Energy Conservation Code*.

313.2 Residential buildings or structures. Residential buildings or structures relocated into or within the city are not required to comply with all of the requirements of this code if the original occupancy classification of the building or structure is not changed. Compliance with all of the requirements of this chapter will be required if the relocated residential buildings or structures undergo substantial alteration. Work performed on new and existing foundations shall comply with all of the requirements of this code for new construction.

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[S] SECTION 314 FLOOD HAZARD AREAS

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[BS] 314.1 Flood hazard areas. Buildings and structures in flood hazard areas established in Section 1612.3 of the *International Building Code* shall comply with Sections 314.1.1 through 314.1.3.

~~((In flood hazard areas, alterations that))~~ When any combination of repairs, alterations, or additions constitute substantial improvement, ~~((shall require that))~~ the existing building and all repairs, alterations, and additions shall comply with Section 1612 of the *International Building Code*. ~~((or Section R322 of the *International Residential Code*, as applicable.))~~

314.1.1 Repairs. Any repair that constitutes substantial improvement of the existing structure or buildings that have been substantially damaged, as defined in Section 202, shall comply with the flood design requirements for new construction, and all aspects of the existing structure shall be brought into compliance with the requirements for new construction for flood design according to Section 1612 of the *International Building Code*.

Any repairs that do not constitute substantial improvement or repair of substantial damage of the existing structure, as defined in Section 202, are not required to comply with the flood design requirements for new construction according to Section 1612 of the *International Building Code*.

Exception: For a new foundation or replacement foundation, the foundation shall comply with Section 1612 of the *International Building Code*.

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314.1.2 Alterations. Alterations that constitute substantial improvement of the existing structure shall comply with the flood design requirements for new construction, and all aspects of the existing structure shall be brought into compliance with the requirements for new construction for flood design according to Section 1612 of the *International Building Code*.

Any alterations that do not constitute substantial improvement of the existing structure are not required to comply with the flood design requirements for new construction according to Section 1612 of the *International Building Code*.

Exception: For a new foundation or replacement foundation, the foundation shall comply with Section 1612 of the *International Building Code*.

314.1.3 Additions. Additions shall comply with the flood design requirements for new construction according to Section 1612 of the *International Building Code*. If the addition constitutes substantial improvement, the existing structure shall be brought into compliance with the requirements for new construction for flood design according to Section 1612 of the *International Building Code*.