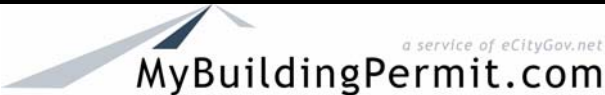


|   |   |
|---|---|
| Bellevue    Bothell    Burien    Duvall    Issaquah    Kenmore    Kirkland                |   |
|          | <b>CONSTRUCTION TIP SHEET</b><br><b>2003 vs. 2006 IRC Non-Structural</b><br><b>Summary</b><br>June 2007 |
| Mercer Island    Mill Creek    Sammamish    Snohomish County    Snoqualmie    Woodinville |   |

2003/2006 IRC

| <b>2003 IRC</b>  | <b>2006 IRC</b>  |
|--|--|
| <b>R105.2 Work exempt from permit<sup>2</sup></b>  |  |
| 1. One-story detached accessory structures, provided the floor area does not exceed 200 square feet (18.58 m2).  | 1. One-story detached accessory structures <u>used as tool and storage sheds, playhouses and similar uses</u> , provided the floor area does not exceed <u>120 / 200</u> square feet (11.15 m2). (check with your local jurisdiction for allowable area)   |
| <b>R308.4 Hazardous locations<sup>2</sup></b>  |  |
| The following shall be considered specific hazardous locations for the purposes of glazing:  |  |
|  | <u>10. Glass block panels complying with Section R610</u>  |
| Exception: The following products, materials and uses are exempt from the above hazardous locations:   |  |
| 4. Glazing in Section R308.4, Item 6, in walls perpendicular to the plane of the door in a closed position or where access... R308.4, Item 7.                  | 4. Glazing in Section R308.4, Item 6, in walls perpendicular to the plane of the door in a closed position, <u>other than the wall toward which the door swings when opened</u> , or where access... Item 7.   |
| <b>R310.1 Emergency escape and rescue required<sup>2</sup></b>   |  |
| Basements with habitable space and every sleeping room shall have at least one openable emergency escape and rescue opening. Where basements... Section 310.3. | Basements and every sleeping room shall have at least one operable emergency and rescue opening. <u>Such opening shall open directly into a public street, public alley, yard or court.</u> Where basements... Section R310.2. <u>Emergency escape and rescue openings shall open directly into a public way, or to a yard or court that opens to a public way.</u><br><u>Exception: Basements used only to house mechanical equipment and not exceeding total floor area of 200 square feet (18.58 m2).</u> |
| <b>R311.6.1 Maximum slope<sup>2</sup></b>  |  |
| Ramps shall have a maximum slope of one unit vertical in eight units horizontal (12.5-percent slope).  | Ramps shall have a maximum slope of one unit vertical <u>in twelve units horizontal (8.3-percent slope).</u><br><u>Exception: Where it is technically infeasible to comply because of site constraints, ramps may have a maximum slope of one unit vertical in eight horizontal (12.5 percent slope).</u>  |
| <b>VIAQC Ch 5: Radon Resistive Construction Standards</b>  | <b>R327 Protection Against Radon</b>   |
| VIAQC chapter 5 to be used for Single Family Homes designed in accordance with the IRC.  | <u>The radon control provisions of Appendix F of this code shall apply to buildings constructed in High Radon Potential Counties (zone 1) designated in Table AF101(1).</u> <u>The radon control provisions of Appendix F of this code shall also apply to all buildings constructed using the provisions of Section R408.3. Unvented crawl space compliance method.</u>   |

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| <b>2003 IRC</b>  | <b>2006 IRC</b>   |
|--|---|
| <b>R406.2 Concrete and masonry foundation waterproofing<sup>2</sup></b>  |   |
| <p>In areas where a high water table... finished grade. The membrane shall consist of 2-ply hot-mopped felts, 55 pound (25 kg) roll roofing, 6-mil (0.15 mm) polyvinyl chloride, 6-mil (0.15 mm) polyethylene or 40-mil (1 mm) polymermodified asphalt. The joints in the membrane shall be lapped and sealed with an adhesive compatible with the waterproofing membrane.</p>         | <p>In areas where a high water table... finished grade. Walls shall be waterproofed in accordance with one of the following:</p> <ol style="list-style-type: none"> <li>1. 2-ply hot-mopped felts.</li> <li>2. 55 pound (25 kg) roll roofing.</li> <li>3. 6-mil (0.15 mm) polyvinyl chloride.</li> <li>4. 6-mil (0.15 mm) polyethylene.</li> <li>5. 40-mil (1 mm) polymer-modified asphalt.</li> <li>6. <u>60-mil (1.5 mm) flexible polymer cement.</u></li> <li>7. <u>1/8 inch (3 mm) cement-based, fiber-reinforced, waterproof coating.</u></li> <li>8. <u>60-mil (0.22 mm) solvent-free liquid-applied synthetic rubber.</u></li> </ol>   |
| <b>R408.2 Openings for under-floor ventilation<sup>2</sup></b>   |   |
| <p>The minimum net area of ventilation openings... exceed ¼ inch (6.4 mm):</p> <ol style="list-style-type: none"> <li>1. Perforated...</li> <li>6. ...1/8 inch (3.2 mm).</li> </ol> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. <b>Deleted</b></li> <li>2. <b>Deleted</b></li> <li>3. <b>Deleted</b></li> <li>4. <b>Deleted</b></li> <li>5. <b>Deleted</b></li> </ol> | <p>The minimum net area of ventilation openings...exceed ¼ inch (6.4 mm):</p> <ol style="list-style-type: none"> <li>1. Perforated...</li> <li>6. ...1/8 inch (3.2 mm).</li> </ol>  |
| <b>R408.3 Unvented crawl space - NEW<sup>2</sup></b>   |   |
|  | <p><u>Ventilation openings in under-floor spaces specified in Sections R408.1 and R408.2 shall not be required where:</u></p> <ol style="list-style-type: none"> <li>1. <u>Exposed earth is covered with a continuous vapor retarder. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall; and</u></li> <li>2. <u>One of the following is provided for the under-floor space:</u> <ol style="list-style-type: none"> <li>2.1. <u>Continuously operated mechanical exhaust ventilation at a rate equal to 1 cfm (0.47 L/s) for each 50 ft<sup>2</sup> (4.7 m<sup>2</sup>) of crawlspace floor area, including an air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.8;</u></li> <li>2.2. <u>Conditioned air supply sized to deliver at a rate equal to 1 cfm (0.47 L/s) for each 50 ft<sup>2</sup> (4.7 m<sup>2</sup>) of under-floor area, including a return air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.8;</u></li> <li>2.3. <u>Plenum complying with Section M1601.4, if under-floor space is used as a plenum.</u></li> </ol> </li> </ol> |

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| <b>R613.2 Window sills - NEW<sup>2</sup></b>                                  |  |
|   | <p><u>In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches (610 mm) shall be fixed or have openings through which a 4-inch-diameter (102 mm) sphere cannot pass.</u></p> <p><u>Exceptions:</u></p> <ol style="list-style-type: none"> <li><u>1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.</u></li> <li><u>2. Openings that are provided with window guards that comply with ASTM F 2006 or F 2090.</u></li> </ol>   |
| <b>R613.5 Vehicular access doors - NEW<sup>2</sup></b>                        |  |
|   | <p><u>Vehicular access doors shall be tested in accordance with either ASTM E 330 or ANSI/ DASHMA 108, and shall meet the acceptance criteria of ANSI/DASHMA 108.</u></p>  |
| <b>R702.4.2 Cement, fiber-cement and glass mat gypsum backers<sup>2</sup></b> |  |
|   | <p><u>Cement, fiber-cement or glass mat gypsum backers in compliance with ASTM C 1288, C 1325 or C 1178 and installed in accordance with manufacturers' recommendations shall be used as backers for wall tile in tub and shower areas and wall panels in shower areas.</u></p>  |
| <b>R703.1 Exterior Covering: General</b>                                      |  |
| <p>Exterior walls... R703.2.</p>  | <p><u>Exterior walls... R703.2 and a means of draining water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with Chapter 11 of this code.</u></p> <p><u>Exceptions:</u></p> <ol style="list-style-type: none"> <li><u>1. A weather-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapter 6 and flashed according to Section R703.7 or R703.8.</u></li> <li><u>2. Compliance with the requirements for a means of drainage, and the requirements of Section R703.2 and Section R703.8, shall not be required for an exterior wall envelope that has been demonstrated to resist wind-driven rain through testing of the exterior wall envelope, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions:</u> <ol style="list-style-type: none"> <li><u>2.1. Exterior wall envelope test assemblies shall include at least one opening, one control joint, one wall/eave interface and one wall sill. All tested openings and penetrations shall be representative of the intended end-use configuration.</u></li> <li><u>2.2. Exterior wall envelope test assemblies shall be at least 4 feet (1219 mm) by 8 feet (2438 mm) in size.</u></li> </ol> </li> </ol> |

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| <b>R703.1 Exterior Covering: General cont.</b>  |   |
|   | <p><u>2.3. Exterior wall assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot (299 Pa).</u></p> <p><u>2.4. Exterior wall envelope assemblies shall be subjected to a minimum test exposure duration of 2 hours. The exterior wall envelope design shall be considered to resist wind-driven rain where the results of testing indicate that water did not penetrate: control joints in the exterior wall envelope; joints at the perimeter of openings penetration; or intersections of terminations with dissimilar materials.</u></p>   |
| <b>R703.2 Water-resistive barrier<sup>1,2</sup></b>   |   |
| <p><del>Asphalt-saturated felt</del> free from holes and breaks, weighing not less than 14 pounds per 100 square feet (0.683 kg/m<sup>2</sup>) and complying with ASTM D 226 or other approved weather-resistant material shall be applied over studs or sheathing of all exterior walls <del>as required by Table R703.4</del>. Such felt...</p> <p>Exception: Such felt or material is permitted to be omitted in the following situations:</p> <ol style="list-style-type: none"> <li>1. In detached accessory buildings.</li> <li><del>2. Under panel siding with shiplap joints or battens.</del></li> <li>3. Under exterior wall finish materials as permitted in Table R703.4.</li> <li>4. Under paperbacked stucco lath.</li> </ol> | <p><u>One layer of No. 15 asphalt felt, free from holes and breaks, complying with ASTM D 226 for Type 1 felt or other approved water-resistive barrier shall be applied over studs or sheathing of all exterior walls. Such felt...</u></p> <p><u>The felt or other approved material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.</u></p> <p>Exception: Omission of the water-resistive barrier is permitted in the following situations:</p> <ol style="list-style-type: none"> <li>1. In detached accessory buildings.</li> <li>2. Under exterior wall finish materials as permitted in Table R703.4.</li> <li>3. Under paperbacked stucco lath <u>when the paper backing is an approved weather-resistive sheathing paper.</u></li> </ol> |
| <b>R703.6.3 Water-resistive barriers (Exterior Plaster) - NEW<sup>2</sup></b>   |   |
|   | <p><u>Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper.</u></p> <p><u>Exception: Where the water-resistive barrier that is applied over wood-based sheathing has a water resistance equal to or greater than that of 60 minute Grade D paper and is separated from the stucco by an intervening, substantially non-water-absorbing layer or designed drainage space.</u></p>   |
| <b>R703.7 Stone and masonry veneer<sup>1,2</sup></b>  |   |
| <p>All stone and masonry veneer ...</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. In Seismic Design Categories A and B, exterior masonry veneer with a backing of wood or <del>old-formed</del> steel framing shall <del>not exceed 30 feet (9144 mm) in height above the noncombustible foundation, with an additional 8 feet (2348 mm) permitted for ends.</del></li> <li>2. <b>DELETED</b></li> <li>3. <b>DELETED</b></li> </ol>  | <p>Stone and masonry veneer ...</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. For all buildings in Seismic Design Categories A, B <u>and C, exterior stone or masonry veneer, as specified in Table R703.7(1), with a backing of wood or steel framing shall be permitted to the height specified in Table R703.7(1) above a noncombustible foundation. Wall bracing at exterior and interior braced wall lines shall be in accordance with Section R602.10 or R603.7, and the additional requirements of Table R703.7(1).</u></li> </ol>  |

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| <b>R703.7 Stone and masonry veneer<sup>1,2</sup> cont.</b> |   |
|  | <p><u>2. For detached one- or two-family dwellings in Seismic Design Categories D0, D1 and D2, exterior stone or masonry veneer, as specified in Table R703.7(2), with a backing of wood framing shall be permitted to the height specified in Table R703.7(2) above a noncombustible foundation. Wall bracing and hold downs at exterior and interior braced wall lines shall be in accordance with Sections R602.10 and R602.11 and the additional requirements of Table R703.7(2). In Seismic Design Categories D0, D1 and D2, cripple walls shall not be permitted, and required interior braced wall lines shall be supported on continuous foundations.</u></p> |
| <b>R806.4 Conditioned attic assemblies</b>                 |   |
|  | NOT ADOPTED BY THE STATE  |

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