

# 2008 Oregon Residential Specialty Code Changes

Effective April 1, 2008

(Except, a grace period exists until June 30, 2008 where either the existing or the new code may be used. But, the two can not be mixed.)

These changes are not conclusive. There may be some that were missed or omitted. If you have any questions and need to verify the code as it is actually stated, **READ** the Code Book. Free On-Line access: <http://www2.iccsafe.org/states/oregon/>

- The **Electrical** and **Plumbing** provisions are no longer in the Oregon Residential Specialty Code.
- Appendix O, **Row Houses**, no longer exists.
- Appendix N, **Low-rise Multiple Family** structures is no longer in the residential code. Provisions are in the Structural Code.

## Chapter 1 - Administration

- R105.2 Work exempt from permit. #1 Nonhabitable, **added** “used as tool and storage sheds, playhouses and similar uses, . . . #5 **added** platforms, **removed** 30 inch rule.
- R106.1 Submittal Documents. Statement of **special inspections** required.
- R109.1 General. Work to remain **accessible** and **exposed** until approved.
- R109.1.5.3 Reinforced **masonry**, insulating concrete form (**ICF**) and conventionally formed **concrete wall inspection**.
- R110.1 **Certificate of Occupancy required**. Shall include names of contractors among other items. (C of O required as of April 1 regardless of code used.)
- R109.1.4.1 **Moisture Content**. After framing and prior to installation of interior finishes, the **Building Official shall be notified in writing by the general contractor** that all moisture-sensitive wood framing members... have a **moisture content of not greater than 19%** of the weight of dry wood.

## Chapter 2 – Definitions

- Several **new definitions** have been added.

## Chapter 3 – Building Planning

- Several **new definitions** have been added.
- R301.2.2.1.2 – NEW Seismic Zone E. (Oregon doesn't have any E categories)
- Table R301.5 Uniformly Distributed Loads. “**Sleeping Rooms**” are now allowed to be designed for **30 psf**.
- R302 Exterior Wall Location (*Fire separation distances*) Section is completely re-written. See tables.
- R303.1 Habitable Rooms. **Added #3**. Use of sunrooms. . . .
- R303.6.1 Light Activation. “... shall be a wall **switch at each floor level**... where the stairway has **six or more risers**.”
- R308.1 Identification (*safety glazing*) a “label” is now allowed in lieu of etching, embossing, etc.
- R309.1.1 Other Penetrations. **Penetrations through the garage separation** must be filled by an approved material to resist passage of flame and gas.
- R309.2 Separation Required. New language allows **detached garages less than 3 feet from dwelling** when protected w/ 1/2” gypsum wall board on the inside of the garage.

- R310.1 **Emergency Escape and Rescue Openings.** R310.1.2 Minimum opening height. "...net clear opening height shall be **24 inches** (610mm).
- R310.5 **Emergency escape windows under decks, porches and similar projections.** Now allowed when a 36 inch high path is maintained.
- R311.4.3 Landings at doors. Allowed slope 2%. Exception: #1 . . . other than the required exit door, a landing is **not required** for **three or fewer** risers, and **door does not swing over stairway.**
- R311.6.1 Maximum slope (**Ramps**). Changed to **1:12** (8.3%) slope with an exception for 1:8 (12.5%) where infeasible.
- SECTION R317 Dwelling Unit Separation.. Most of this is new under Townhouse. Looks as if they moved the a lot of the Rowhouse information to here.
- R317.1 Two-family dwellings. New exception for fire separation wall allowing attic draft stop when ceilings are 5/8" Type-X gypsum wall board.
- R318.2 **Moisture Content.** After framing and prior to installation of interior finishes, the **Building Official shall be notified in writing by the general contractor** that all moisture-sensitive wood framing members... have a **moisture content of not greater than 19%** of the weight of dry wood.
- R319.1 Location Required (**Protection against decay**) ...treated in accordance with AWP A U1.....shall be listed in Section 4 of AWP A U1. R319.1.1 Field cuts treated in accordance with AWP A M4.
- R319.1 Protection Against Decay. Item 2 now includes all sill plates in contact with concrete or masonry foundation walls.
- R319.1.5 Exposed glue-lam timbers . Pressure Treated or decay resistant wood.
- R319.3 **Fasteners.** Coating requirements for zinc-coated.
- **NEW SECTION R323 ELEVATORS AND PLATFORM LIFTS.** Section R323 Flood-Resistant Construction is now Section R324.
- **R324.2.1 Elevation requirements.** Elevations minimum of 1 foot above. . . #2(change) . . . **1 foot above the depth on the FIRM, or at least 3 feet if not specified.** #3 (add) Basement floors. . . . **at least 1 foot above DFE. ADD #4, crawl space.**
- R324.2.2 Enclosed area below design flood elevation. 2.2 gives **design option**
- R324.3.3 Foundations. **Paragraph added - Slabs, pools, pool decks and walkways. . . .**
- R324.3.6 Construction documents. **Deleted**

## **Chapter 4 Foundations**

- R 401.3- Drainage- Impervious surfaces within 10 ft., **2 %** slope away from the building.
- R 402.1.2- Wood treatment- 0.60 retention level has been **removed.** Now refers to AWP A U1.
- R402.2 Concrete. ASTM C 1157 was permitted, this standard has been **removed.**
- Table 402.2 **Added footnote f** – for garage floors.
- Table R403.1 All **minimum** footing sizes are **12"**. All others remain the same.
- R403.1.4- Seismic reinforcing- footings w/ stem walls, (1) #4 within **3to 4 inches** of the bottom of the footing.
- R403.1.5.1- Frost protection- protection **not required** for freestanding accessory structures **600 sq. ft.** or less for light framed construction and 400 sq.ft. or less for other construction.
- R403.1.8- Foundation anchorage-**2 exceptions added** - #1, **walls 24"** or shorter connecting offset walls require **(1) ½ inch** anchor bolt, #2, **walls 12"** and shorter require **no** foundation anchorage.

- R403.1.8.1- Foundation anchorage in Seismic Design Categories C, D<sub>1</sub>-and D<sub>2</sub>. **3”x 3” x .229 plate washers(R602.11.1)** shall be required for all required braced wall lines. Cut washers permitted for wall lines not containing braced wall panels.
- SECTION 404 FOUNDATION – Now reads FOUNDATION AND **RETAINING WALLS. (Added)**
- R404.1.4 Seismic Design Categories D1 and D2. Item 6: Was paragraph after Item 5 and now is Item 6. **ICF walls are addressed.**
- **Unbalanced backfill height** footnote has **changed** in all Tables
- TABLE R404.1.1(1) Plain concrete **removed. (New table added for concrete).** Two **footnotes** have been **removed.** Two of the **soil classes** has been **removed.** **Many** of the nominal **wall thicknesses have increased.**
- TABLE R404.1.1(2) Lots of new information **added,** as well as Table R404.1.1(3); Table R404.1.1(4). **Max wall height to 10 feet added.**
- **NEW TABLE R404.1.1(5) Concrete Foundation Walls.**
- R404.4.1 Applicability limits. **Requirements** for Seismic Categories **D1** and **D2** have been **added.**
- TABLE R404.4(1); TABLE R404.4(2); TABLE R404.4(3); TABLE R404.4(4); TABLE R404.4(5) ICF Foundation Walls. **Soil descriptions** have **changed.** Some other slight changes.
- **R404.5 Retaining walls- NEW . . .**walls that are **not laterally supported** at the top and retain in excess of 48” of unbalanced back fill shall be designed. . .
- R406.2 Concrete and masonry foundation waterproofing. Three acceptable items have been **added: 6.** 60-mil flexible polymer cement. **7.** 1/8 “ cement-based, fiber-reinforced, waterproof coating. And **8.** 60-mil solvent-free liquid-applied synthetic rubber.
- R408.2 Openings for under-floor ventilation. **Deleted** covering material: **Perforated sheet metal plates – not allowed. Two** of the **Exceptions** have been **deleted.**

## Chapter 5 – Floors

- **NEW** R502.1.6 Structural **log** members.
- **NEW** R502.2.1 Framing at braced wall lines. **Load path for lateral forces.**
- R502.2.2 Decks. **Exception removed.**
- Table R502.3.1(1) New footnote a. **Dead load limits for townhouses.** Same for Table 502.3.1(2) New footnote b. (same as above)
- Table R502.5(1) New column for **ground snow load of 70 psf**
- Table R503.2.1.1(1) New column for “**Allowable live load**”. **Footnote l added.**
- R504.3 Materials. **Added,** AWP A U1 “and shall bear the label of an accredited agency.”
- **NEW** R505.1.3 Floor trusses. For cold-formed steel trusses.
- R505.2 Structural framing. **Rearranged.** Hole in joist webs conditions: 6 New conditions.
- Table R505.2(3) Max. hole dimensions has been **deleted.**
- Figure R505.2(3) Has been slightly **modified.** Gives dimensions. (no Table)
- R505.2.1 Material. **Requirement 4** has **changed.**
- Figure R505.3. Building width **changed** to **40 ft. max.**
- R505.3.2 Allowable joist spans. **ADDED Blocking.**
- **Deleted Table R505.3.2. ADDED 3** new Tables R505.3.2(1); Table R505.3.2(2); Table R505.3.2(3).
- R505.3.6 Hole patching. **New Re-written.**
- **NEW** R506.2.4 Reinforcement support.

## **Chapter 6 – Wall Construction**

- R602.1.3 Structural log members. **NEW**.
- R602.3 Design and construction. Exterior walls.....**Studs shall be continuous from a support at the bottom to a support at the top** to resist loads perpendicular to wall. The support shall be a foundation or floor, ceiling or roof diaphragm or shall be designed in accordance with accepted engineering practice or other methods approved by the Building Official.
- Table R602.3(1) **ADDED**. Number & Type of Fastener for **nail guns**.
- Table R602.3(2) Alternate Attachment – **table has been modified**. Spacing reqmnts.
- R602.6 Drilling and notching-studs. No changes. This section rearranged.
- R602.8 Fireblocking required. Item 4 now includes around “cables and wires”.
- R602.10.6 – Arrangement has been changed. **New R602.10.6.2 Alternate braced wall panel adjacent to a door or window opening. Figure R602.10.6.2.**
- R602.10.7 Panel joints. **ADDED**. “and be fastened to, common joints.”
- R602.10.8 Connections. This section has been greatly added to. It now includes
  - R602.10.8.1 **Sole plate connections.**
  - R602.10.8.2 **Foundation sill plate connections.**
  - R602.10.8.3 **Top plate connections.** Provides prescriptive details to connect **cantilevered or stub heel trusses** to braced wall line.
    - Figure R602.10.8.3.1
    - Figure R602.10.8.3.2
- R602.10.11 Bracing in Seismic Design Categories C, D1, and D2 has been divided into 3 sections; **R602.10.11.1 Braced wall line spacing. R602.10.11.2 Braced wall panel location. And R602.10.11.3 Collectors. (NEW)**
- **R602.10.11.4 Renumbered** from R602.10.11.1 Two or less horizontally attached units.
- **R602.10.11.5 Renumbered** from R602.10.11.2 Three or more horizontally attached units.
- **R602.10.11.6 Renumbered** from R602.10.11.3 Sheathing attachment.
- **New R602.11.1 Wall anchorage. Plate washers minimum 3x3 inches. Hole requirements. No exceptions. Per IRC model code**
- R603.1.1 building width **increased to 40 feet; 10 feet in height removed.**
- Few changes to Sections R603 through R612, model code changes. Steel wall framing, masonry construction and the use of ICF blocks.
- R603.2 Structural framing. **Rearranged.**
- R603.3.2 Load-bearing walls. **Rewritten. Information added.** Need to read.
- R603.3.3 Stud bracing. **Added #3.**
- R603.3.5 Hole patching. **Rewritten, Significant changes.** Need to read.
- R603.6.1 Jack and king studs, and head track. **Head track added.**
- All Tables from R603.3.2(3) through R603.6(3) have been **renamed and changed completely. New Tables** go through R603.6(11).
- Figure R603.6 Header Detail. **Alternate Detail has changed** significantly.
- Table R603.6(4) **changed to R603.6(9) ADDED.** Size of opening now goes up to 18’.
- Changed Table R603.6(5) is now R603.6(10)
- R606.3 Corbeled masonry. **ADDED** information.
- R606.3.1 Support conditions **Changed to R606.4 and rewritten. ADDED** R606.4.1 Bearing on support and R606.4.2 Support at foundation. This caused the remainder to have new numbers.

- Table R611.2 Footnote d added for Seismic Zones A,B and C.
- Table R611.4(2) **Removed.**
- R611.7.1.2 Vertical steel. **ADDED. Specific** information to **1<sup>st</sup> paragraph.**
- R611.7.4 Minimum length of wall without openings. **Removed paragraph** for Seismic Design Categories D1 and D2.
- R611.8.2 Ledger bearing. **ADDED** information.
- R611.9.1 ICF. **Changed** spacing from 24” to **16” maximum. ADDED** at the end **rafter attachment.**
- R613.1 General. **ADDED.** Window & sliding door openings shall be **flushed R703.8.**
- R613.4 Testing and labeling. **Changed Required Specifications. 2 exceptions removed.**
- R613.4.1 Comparative analysis. **NEW Section.** Was one of the exceptions removed above.
- R613.6 Other exterior window and door assemblies. **NEW Section.**
- R613.9.1 Mullions. **Criteria Changed.**

## Chapter 7 – Wall Covering

- **New section** from IRC model code. R702.3.7 **Horizontal gypsum board diaphragm ceilings.** R702.3.8 **Water-resistant gypsum** backing board. R702.3.8.1 Limitations. Table R702.3.7
- R702.4.2 **renamed** to Cement, fiber-cement and glass mat **gypsum backers.** Gypsum backer has been completely deleted. R702.4.3 Limitations. **Removed** section.
- R703.1 General. Has been **added** to and now has Exceptions from the IRC model code. Exception 1. **weather-resistant** changed to **water-resistant.**
- R703.2 **changed** to **Water-resistive** barrier. One layer of No. 15 asphalt felt. Has been **added to** and **exceptions has changed.**
- R703.4 Attachments. **Added information** for basic wind speed of **110 mph** or higher.
- Table R703.4 **Weather-Resistant Siding Attachment. ADDED.** Several of the siding materials require a water-resistive barrier. Footnote **removed** about treating joints. **NEW** footnote re: Adhered masonry veneer compliance.
- R703.6 Exterior plaster. **ADDED,** Installation compliance standards.
- R703.6.2.1 Weep screeds. R703.6.3 Water-resistive barriers. **NEW** Sections.
- R703.7 Stone and masonry veneer, general. **Conditions** have been **removed.** Exceptions **ADDED.**
- **NEW** Table 703.7(1) and Table 703.7(2). New Figure R703.7(1).
- R703.7.4.2 Air space. **Removed** not requiring weather-resistant membrane.
- R703.8 Flashing. **Changed Exception 1. ORS Box ADDED.**
- R703.9.1 **Water-resistive** barrier. **Changed** from weather -resistive
- **NEW** R703.11 Vinyl siding. R703.11.1 Installation.

## Chapter 8 –Roof-Ceiling Construction

- **NEW** section R802.1.5 **Structural log members.**
- R802.2 Design and construction. **ADDED** minimum slope 3:12 (25%).
- R802.3.1 **Ceiling joist and rafter connections. Removed reference** to Table R602.3(1) in second paragraph, refers to Table R802.5.1(9). Second and Third paragraphs have been **deleted and replaced.** Need to read. **Changed Rafter ties min. 2x4 in.**
- **Table R802.5.1(1) thru R802.5.1(8), the “Rafter Span Adjustment Factor” Hc/Hr** numbers in footnote has changed. And **ADDED** to Table R802.5.1(9).
- Figure R802.5.1 – **Slight Changes.**

- R802.7.2 Engineered wood products. **ADDED** Specifies alterations.
- **NEW section R802.10.2.1 Applicability limits.**
- R802.10.3 Bracing. **Added BCSI 1-03.** (if no bracing requirements provided)
- R803.2.2 Allowable spans. **ADDED** or APA E30.
- Table R802.11 – **Slight Changes.**
- **SECTION R804 – STEEL ROOF FRAMING**
- R804.1.1 Applicability Limits. Rafter or truss span **Change from 36 to 40 feet in width. Height limitation deleted.**
- R804.1.3 Roof trusses. **Truss members shall not be notched, cut . . . without approved design.**
- R804.2 Structural framing. **Rearranged. Hole width changed** from 1-1/2” to .5 times member **not to exceed 2-1/2”**. Hole **length changed** from 4” to **4-1/2”**.
- R804.2.1 Material. Number **4 changed.**
- Figure R804.2(3) – **Minor changes** (in accordance with R804.2).
- Tables R804.3.1(1) thru R804.3.1(8) **are all new tables.**
- Table R804.3.3(1) and R804.3.3.1 Building width **ADDED** 40 ft.
- R804.3.6 Hole patching. **Rearranged and some Changes.** Need to read.
- **NEW R806.4 Unvented attic assemblies.**

## **Chapter 9 – Roof Assemblies**

- **NEW R903.5 Hail exposure.** R903.5.1 Moderate hail exposure. R903.5.2 Severe hail exposure.
- **NEW Figure R903.5 Hail Exposure Map**
- R905.2.3 Underlayment **NEW ASTM D 6757**
- **NEW R905.2.4.1 Wind resistance of asphalt shingles.**
- R905.2.6 Attachment. **Class F added. Last 3 sentences changed.**
- R905.2.7 Underlayment application. **Distortions** are addressed.
- R905.2.7.1; R905.4.3.1; R905.5.3.1; R905.7.3.1; & R905.8.3.1 Ice barrier. **Renamed and reworded.**
- R905.2.8.2 Valleys. Several ASTM, Class and Types have **CHANGED.**
- **Changed completely.** R905.4.4 Material standards.
- Table R905.8.5 **minor change.** Materials listed.
- R905.10.2 Slope. **Re-arranged.**
- R905.10.3 Material standards. **ADDED** information on corrosion.
- R905.10.4 Attachment. **Slight Changes.**
- **NEW Table R905.9.2 Built-up Roofing Material Standards.**
- **TWO NEW TABLES R905.10.3(1)(was table R905.10.3) and Table R905.10.3(2)**
- R905.12.2; R905.13.2; R905.15.2 Material standards. Standards have **CHANGED.**
- **NEW R906.2 Material standards. And Table R906.2.**
- R907.3 Re-covering versus replacement. **ADD condition 4 and Exception 3.**

## Chapter 10 – Chimneys and Fireplaces

### **THIS CHAPTER HAS BEEN REARRANGED**

- **Section 1001** was Chimneys is **now Fireplaces.**
- Table R1003.1 **CHANGED TO Table R1001.1** Walls w/unlined flue **removed.**
- Figure R1003.1 **CHANGED TO Figure R1001.1**
- **DELETE R1001.12 Mantel and trim.**
- R1006 has been **CHANGED TO SECTION R1002 MASONRY HEATERS.**
- **NEW R1002.1** Definition.
- R1002.2 Installation. **CHANGED. NEW #2** Compliance.
- **NEW R1002.3** Footings and foundation.
- R1002.4 Seismic reinforcing. **Requirements have CHANGED.**
- **NEW R1002.5** Masonry heater clearance.
- **CHANGED** Section R1001 is **now R1003** Masonry Chimneys.
- **NEW R1003.1** Definition.
- **NEW R1003.2** Footings and foundations.
- **NEW R1003.3** Seismic reinforcing. R1003.3.1 Vertical reinforcing. & R1003.3.2 Horizontal reinforcing. General and support sections have been **removed.**
- **NEW R1003.4** Seismic anchorage. R1003.4.1 Anchorage.
- **NEW R1003.10.1** Masonry veneer chimneys.
- **ADD** the word “**Clay**” R1003.12 Clay Flue lining (installation).
- Table R1001.11(1) **changed to Table R1003.14(1).** Table R1001.11(2) changed to **Table R1003.14(2) This table is completely different.**
- R1003.15.1 Option 1 **ADDED Clay flue linings.**
- R1003.19 Chimney fireblocking. . . . beams or headers shall be **self-supporting or .**
- **SECTION R1005 FACTORY-BUILT CHIMNEYS** was R1004. **Everything but** Decorative shrouds was **removed. ALL NEW SECTION.**
- **SECTION R1006 EXTERIOR AIR SUPPLY** was R1005.

## Chapter 11 – Energy Efficiency (OREGON ONLY)

- R1101.2.3 Change of occupancy or use. **This section more specific.**
- **NEW Section N1101.2.3.1 Change of use. And Section N1101.2.3.2 Change of occupancy. Both refers to Table N1104.1(2) Footnote d.**
- N1101.3 Additions. **Exception ADDED. 30% of existing building heated space floor area or 400 square feet, not required to comply with Table 1101.1(2).**
- **NEW Table N1101.1(1). Standard Base Case and Log Homes Only.**
- **NEW Table N1101.1(2) Additional Measures (select one) in addition to Table N1101.1(1).**
- **NEW Definition – TOTAL SOLAR RESOURCE FRACTION.**
- N1104.1 General. Reworded to use new Tables. **ADDED to incorporate passive solar elements.**
- Table N1104.1(1) – **Rearranged. ADDED two footnotes about skylights & Exterior door.**
- **N1104.3** Exterior doors. Exception **#3 changed**, with glazing considered exterior doors.
- N1104.4 Windows. **ADDED Requirement #3.**
- **NEW N1104.5.2 Intermediate framing for walls. 1. Walls. 2. Corners and intersections. 3. Headers.**

- **NEW N1104.7.1 Slab-on-grade floors with hydronic heat.**
- **N11014.9.1 CHANGED TO Vapor retarders. Numbers 1, 2 & 3 have been removed. Exceptions remain with one added Below grade walls are not required to have a vapor retarder.**
- **N1105.2 Insulation of ducts. ADDED Exception: existing ducts not required to be insulated to current code.**
- **REARRANGED R1105.3.4.1 Heat pump controls. Information deleted. ADDED NEW N1105.3.4.1.1 Outdoor thermostat required.** (transferred from R1105.3.4.1)
- **REARRANGED N1105.5 Equipment performance requirements. N1105.5.1 Heat pumps. More specific and HSPF not less 7.7 and SEER 13. NEW N1105.5.2 Air conditioners. NEW N1105.5.3 Furnaces. N1105.5.3.1 Oil-fired furnaces. N1105.5.3.2 Gas-fired furnaces. NEW N1105.5.4 Boilers. N1105.5.5 Packaged terminal air conditioners. N1105.5.6 Packaged terminal heat pumps.**
- **Same table NEW number. Was Table N1105.5.3; NEW number Table N1105.5.5**
- **NEW SECTION ADDED. SECTION N1107 LIGHTING. N1107.1 General. N1107.2 High-efficiency interior lighting systems. (New 50% rule)**
- **SECTION NA1107 CHANGED TO NA1108 and everything in sequential order.**

## **Chapter 12 thru 24 – Mechanical Administration**

- **M1201.1 Scope. ADDED Systems not addressed refer to Section R104.11**
- **REMOVED Section M1203 Service Utilities. MOVED TO Section R111.**
- **Wood stoves deleted and referred to as solid-fuel-burning devices per OAR.**
- **M1305.1 All appliances shall have a 30" x 30" clear work space on the control side of the appliances.**
- **M1305.1.3 Exception #2 ADDED.** Attic and under floor appliance passageways have been extended to a maximum of 50 ft in length when the passageway is 6 ft in height and 22 in wide.
- **M1305.1.4 Appliances under floors. Added new exception. Passageway unobstructed and not less than 6 feet high and 22 inches wide for its entire length, shall not be limited.**
- **N1307.4.1 Natural ventilation. CHANGED.**
- **M1307.4.3 Mechanical ventilation. ADDED . . .source of ignition is below the mechanical ventilation outlet(s). reads the same as per IRC Model Code.**
- **M1307.6 Used wood stoves. DELETED.** Incorporated with insert from state.
- **NEW. M1308.3 Foundation and supports for outdoor mechanical systems shall be 3 inches above grade.**
- **Table M1309.4 footnote e (for plumbing piping deleted).**
- **M1411.3.1 Auxiliary & secondary drains shall slope 1%. ADDED (1/8 unit vertical in 12 units horizontal) ADDED Method #4 - A water level detection device may replace an auxiliary/secondary drain if it conforms to UL 508.**
- **NEW M1411.3.1.1 Water level monitoring devices.**
- **NEW M1411.4 Auxiliary drain pan. + Exception Fuel-fired appliances that automatically shut down in the event of a stoppage, needs no auxiliary drain pan.**
- **M1411.5 Insulation of refrigerant piping. Now REFERS to Table N1106.1**
- **Changed M1501 to General. Each Section has been bumped up one. For Exp. M1501 is now M1502.**
- **M1501.1 A mechanical exhaust system shall be discharged to the outdoors, and shall not be discharged into an attic, soffit, ridge vent, or crawlspace.**



- SECTION M1502 – This section has been **REARRANGED** and **CHANGED**.
- M1502.2 Clothes dryer **exhaust** must **terminate not less than 3 feet** from an opening
- M1502.3 Clothes dryer **ducts** shall be **at least 4 inches in diameter**.
- M1502.5 The entire clothes dryer exhaust ducts, excluding transition ducts shall be supported and secured in place.
- M1502.7 **Exception #2** Booster fans are no longer an exception for the maximum length of 25 feet for a clothes dryer duct. A **new exception** allows for large radius bends as an alternative method.
- M1502.1 General. **Exception ADDED**
- M1503.1 General. Ductless hoods **Exception has been deleted**.
- **NEW** M1503.3 Clearance. Construction not less than 28 gage metal and clearance of at least 24 inches. 2 Exceptions.
- M1503.4 Kitchen exhaust rates. **Exception ADDED**
- **NEW** M1507.1.1 Duct sizing.
- M1507.2 Recirculation of air. **ADDED** All Exhaust air shall be exhausted directly to the outdoors.
- M1507.3.1.1 & M1507.3.1.2 There is a new sound rating for exhaust fans: 1.0 sone for continuous fans and 3.0 sone for intermittent fans. (bath fans)
- Table M1507.3 This section has **ADDED** information. **Exhaust rates** for residential Dwellings have **changed**.  
Kitchens - 150 cfm intermittent or 25 cfm continuous  
Bathing and spa facilities - 80 cfm intermittent or 20 cfm continuous  
Toilet rooms without bathing facilities – 50 cfm
- Table M 1507.4 – New Exhaust duct sizing chart

CFM	Minimum Flex (diameter)	Max Length	Minimum Ridged (diameter)	Max Length	Max elbows (a)
50	4"	25 ft	4"	70 ft	3
	5"	90 ft	5"	100 ft	3
	6"	No Limit	6"	No Limit	3
80	4" (b)	N/A	4"	20 ft	3
	5"	15 ft	5"	100 ft	3
	6"	90 ft	6"	No Limit	3

a. For each additional elbow subtract 10 feet from length

b. Flex ducts of this diameter are not permitted with fans of this size

- **ADDED** information. M1507.4 Bath fans must be controlled by a de-humidistat, timer or similar means of automatic control.
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- M11601.1.1.1 **DELETED** Building cavities used for return air duct or plenums. **CHANGED** name to – M11601.1.1.1 Use of building cavities in new construction. **NOT ALLOWED**
- **NEW M11601.1.1.2** Use of building cavities in existing buildings.
- M1601.2.2 Vibration isolators. **Half** of this was **DELETED**.
- M1601.3.2 All ducts shall be mechanically fastened.
  1. Flex ducts fasteners must comply with UL181B & 181B-C
  2. Ridged ducts must have 3 screws or rivets equally spaced
- M1601.3.5 Duct insulation. **#3** Requirement was **DELETED**

## **NEW SECTION M1704 – COMBINED USE OF INDOOR AND OUTDOOR AIR**

- **Table M1804.1 ADDED** – Pellet vents under vent types.
- M1804.3.2 Size of multiple-appliance venting systems. **Requirement #7 DELETED.**
  
- **CHANGED M1901.2** Domestic appliances and M1901.3 Prohibited location have been deleted and changed to M1901.2 Cooking appliances.
- **ADDED M1906 GASEOUS HYDROGEN SYSTEMS**
- M1906.1 Installation. In accordance with the applicable requirements of Sections M1307.4 and M1905.1 and the Mechanical Code and the Fire Code and the Building Code.
  
- M2103.1 Hydronic piping has **ADDED** cross-linked polyethylene (PEX) tubing and polypropylene (PP) as approved materials.
- M2103.2 Hydronic piping joints has 2 new requirements.
  5. Polypropylene joints shall be installed with socket-type heat fused polypropylene fittings.
  6. Cross-linked polyethylene shall be joined using cold expansion, insert or compression fittings.
- M2103.3 Testing. **ADDED** an **Exception** for continuous loop systems using PEX or PP tubing. Test pressure allowed 100 psi for 30 minutes.
- **NEW** M2103.4 Pressurizing during installation. If imbedded in concrete, pressure test before and during pour.
  
- **NEW SECTION M2104 LOW TEMPERATURE PIPING**
  
- **NEW SECTION M2105 GROUND SOURCE HEAT PUMP SYSTEM LOOP PIPING**
  
- **NEW** M2201.7 Tanks abandoned or removed.
  
- **NEW DEFINITIONS – CHAPTER 24 – FUEL GAS**
- **DELETED** ACCESS (TO)
- CONNECTOR, APPLIANCE (Fuel)
- CONNECTOR, CHIMNEY OR VENT.
- **DELETED** MECHANICAL EXHAUST SYSTEM
- REGULATOR, MEDIUM-PRESSURE (MP Regulator)
- **DELETED** RELIEF OPENING
- VENT PIPING.
- POINT OF DELIVERY. Deleted last sent that reduces pressure to 2 psig.
  
- **NEW** G2404.8 Auxiliary drain pan.
- **NEW** G2405.3 Engineered wood products.
- G2406.2 Prohibited locations. This section has been **RE-WRITTEN**
- G2406.3 Outdoor locations. More explicit.
- G2407.11 Combustion air ducts. **DELETED #9.**
- **ADDED G2407.12** Protection from fumes and gases.
- **TABLE** G2413.4(1) (2) (3) (4) **ADDED** Length goes up to 2,000.
- **NEW** Table G2413.4(7) (8)
- **NEW** G2414.6.3 Regulator vent piping.

- G2415.1 Prohibited locations. **ADDED** . . . shall not extend through any townhouse unit.
- G2415.5 Protection against physical damage. Holes or notches increased to 1.5 inch from the nearest edge of the member, shall protect by shield plates; and shall extend a minimum of 2 inches above sole plates, etc.
- G2415.6 Piping in solid floors. **ADDED** last sentence. Vent conduit above grade to outdoors and prevent the entry of water and insects.
  
- **NEW SECTION G2419 – DRIPS AND SLOPED PIPING**
- **DELETED SECTION G2419 SEDIMENT TRAPS**
  
- **NEW TABLE G2420.1.1 MANUAL GAS VALVE STANDARDS**
- **CHANGE M2421.1 Pressure regulators.**
- **DELETED G2421.2** Line pressure regulators.
- **NEW G2421.2 MP regulators.**
- **NEW G2421.3.1** Vent piping.
- G2422.1 Connecting appliances. **ADDED #2** Corrugated stainless steel tubing (CSST), others 2, 3, 4 **changed** to 3, 4, 5, **ADDED #6.**
- **CHANGED AND ALL NEW.** G2422.1.2 Connector installation. G2422.1.2.1 Maximum length. G2422.1.2.2 Minimum size. G2422.1.2.3 Prohibited locations and penetrations. G2422.1.2.4 Shutoff valve.
- **NEW G2426.7** Protection against physical damage.
- G2427.5.3 Chimney termination. **ADDED** residential-type or low-heat appliances. Chimneys for medium-heat appliances shall extend at least 10 feet higher than any portion of any building within 25 feet.
- G2427.6.4 Gas vent termination. **Changed** from G2427.6.5. **DELETED #1** and **replaced** with new verbiage **ADDED #2.** #2 is now #3 and so on.
- **NEW G2427.6.6** Roof terminations. G2427.6.7 Forced air inlets. As per IRC Model Code G2427.6.5 and G2427.6.6.
- **NEW G2427.6.9.2** Vent offsets. Type B and L . . . .
- G2427.10.14 Passage through ceilings, floors or walls. Wording has change Exception has been deleted.
- **NEW G2428.3.9.1** Tee and wye fittings.
- **NEW G2428.3.19** Draft hood conversion accessories.
- G2445.7 Unvented decorative room heaters. **(name change)**
- **NEW G2445.7.1** Ventless firebox enclosures.
- G2426.7 Holes bored in framing members within 1.5 inches of the edge of the member needs to be protected with nail plates.

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