

## Appendix A - International Residential Code Amendments

The International Residential Code shall be amended as follows:

Section R113.1      **Unlawful Acts.** This section shall be amended by adding the following:

A penalty of 100% of the permit fee shall be added to the cost of a permit if construction is started before a permit is issued.

Refer to the fee schedule in the *Municipal Code Book, Chapter 14*, for building permit fees.

Section R113.4      **Violation Penalties.** This section shall be amended to read as follows:

Any person, firm, or corporation who violates, disobeys, omits, neglects, or refuses to comply with, or who resists the enforcement of any of the provisions of this Building Ordinance, including provisions adopted by reference, or who refuses to remedy a violation of any such provision or to remedy a hazard or fire, explosion, collapse, contagion, or spread of infectious disease found to exist and duly ordered eliminated shall be fined not more than \$500.00 for each offense, and each day upon which each violation continues shall constitute a separate offense.

Table R301.2(1)      **Climatic and Geographic Design Criteria.** This section shall be amended by adding the following:

Ground Snow Load - 25  
Wind Speed<sup>e</sup> (mph) – 90  
Seismic Design Category<sup>s</sup> – B  
Subject to Damage from Weathering<sup>a</sup> – Yes severe  
Subject to Damage from Frost line depth<sup>b</sup> – 42 inches  
Subject to Damage from Termite<sup>c</sup> – Moderate - heavy  
Subject to Damage from Decay<sup>d</sup> – Yes  
Winter Design Temp<sup>f</sup> – 4  
Ice Shield Underlayment Required<sup>i</sup> – Yes  
Flood Hazards<sup>h</sup> – July 2005  
Air Freezing Index<sup>j</sup> – 2000  
Mean Annual Temp<sup>k</sup> – 56°

Table R301.5      **Minimum Uniformly Distributed Live Load.** This section shall be amended by adding the following:

Stairs - must support 100 pounds per square foot.

The minimum live load for living area shall be 40 pounds per square foot. All other areas shall be as addressed in *Table No. R301.5*.

Section R302            **Location on Lot.** This section shall be amended by adding the following:

As regulated by the *Spring Grove Zoning Ordinance*.

Section, R303.1        **Habitable Room Exceptions.** This section shall be amended by adding the following:

The vent shall extend through the roof or other acceptable means acceptable to the building inspector.

Section R304.2        **Other Rooms.** The first sentence shall be amended to read as follows:

Other habitable rooms shall have a floor area of not less than 100 sq. ft.

Section R305.1        **Minimum Height.** The first sentence shall be amended to read as follows:

Habitable rooms, hallways, corridors, bathrooms, toilet rooms, laundry room and basements shall have a ceiling height of not less than 8 feet.

Section R309.1        **Opening Protection.** The second sentence shall be amended to read as follows:

Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 ¾ inches in thickness, solid or honeycomb core steel doors not less than 1 ¾ inches thick, or 20- minute fire-rated doors. Other openings between the garage and residence shall be equipped with an approved door closer.

Section R309.2        **Separation Required.** This section shall be amended to read as follows:

The garage shall be separated from the residence and its attic area by not less than 5/8 inch gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8 inch Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the separation shall also be protected by not less than 5/8 inch gypsum board or equivalent.



Section R404.1 **Concrete and Masonry Foundation Walls.** This section shall be amended by adding the following:

Full Basement foundation walls shall be insulated with a minimum of 2 inch thick rigid insulation from top of foundation wall to 4 feet below grade on the exterior. Crawl spaces shall be insulated on interior or exterior walls with a minimum of 2-inch thick rigid insulation from top of foundation wall to top of footings.

Section R404.1.3 **Design Required.** This section shall be amended by adding the following:

Foundation walls shall extend at least 6 inches above the finish grade adjacent to the foundation at all points.

Section R408.4 **Removal of Debris.** This section shall be amended by adding the following:

Such material shall be replaced with granular fill or pea gravel with a vapor barrier. A minimum clearance of 24 inches under floors or girders is required.

Section R502.8 **Drilling and Notching.** This section shall be amended to read as follows:

The cutting and notching of joists is prohibited unless specifically approved by the Building Inspector.

Section R503.2 **Wood Structural Panel Sheathing.** This section shall be amended to read as follows:

The minimum thickness for floor sheathing is 3/4 inch.

Plywood sub-flooring 3/4 inch CDX tongue and groove is the minimum approved plywood for sub-flooring, however 5/8 inch CDX tongue and groove plywood may be used when it will be covered by 1/2 inch thick plywood underlayment.

Section R503.2.2 **Allowable Spans.** This section shall be amended to read as follows:

The maximum spacing of floor joists is 16 inches on center.

Section R503.3.1 **Identification and Grade.** This section shall be amended to read as follows:

Particleboard shall not be used for structural subflooring. Sub-flooring may not be omitted.

Section, R504 **Pressure Preservatively Treated-Wood Floors (on ground).** This section shall be amended to read as follows:

Treated wood floors are not allowed unless otherwise approved by the Building Inspector for accessory buildings.

Section R506.1 **General.** This section shall be amended to read as follows:

The minimum thickness of interior slabs is 4 inches, the minimum thickness of garage slabs is 5 inches, the minimum wire gauge of welded wire gauge of welded wire fabric 6 x 6 - W1.4 x W1.4.

Section R601.2 **Requirements.** This section shall be amended by adding the following:

All exterior walls shall be insulated with materials having a total R-factor of not less than 19. Box headers shall be insulated with a minimum of 6 inches of insulation. Sill seal shall be installed under all foundation plates.

Section 602.2 **Grade.** This section shall be amended to read by adding the following and the paragraph labeled "Exception" is omitted:

Utility grade lumber is not allowed.

Section 602.3.2 **Top Plate.** This section shall be amended to read as follows:

All partitions must have 2 top plates. All plates must be lapped or laced. The maximum spacing for studs is 16 inches on center.

Table R602.3(1) **Fastener Schedule for Structural Members.** This section shall be amended as follows:

Staples are not allowed.

The minimum ceiling height is 8 feet.

Joists may not be cut or notched.

- Table R602.3(2)     **Alternate Attachments.** This section shall be amended as follows:
- Plywood wall sheathing minimum 15/32 3-ply.
- Sill plate anchor bolt spacing to 4 foot on center.
- No metal bracing is allowed unless specifically approved by the Building Inspector for metal accessory buildings.
- Revise drawings to indicate that the maximum spacing for all bolts shall not exceed 5 feet on center.
- Table R602.3(3)     **Allowable Stud Spacing for Wood Structural Panel Wall Sheathing.** This section shall be amended to state:
- Minimum ½ inch thickness, OSB wall sheathing.
- Table R602.3(4)     **Allowable Spans for Particleboard Wall Sheathing.** This section shall be amended to read as follows:
- Maximum stud spacing 16 inches on center.
- Section R602.5     **Interior Nonbearing Walls.** This section shall be amended to read as follows:
- Interior non-bearing partitions shall be constructed, framed, and fire stopped as specified for exterior walls with 2 x 4 studs at least 16 inches on center. Interior non-bearing partitions should have double top plates.
- Section R602.7     **Headers.** This section shall be amended by adding the following:
- Where headers support concentrated loads or are subjected to other unusual loading conditions the headers shall be specifically designed."
- Section R702.1     **Application.** This section shall be amended by adding the following:
- A minimum ½ inch gypsum wall and/or ceiling board shall be required on all framing up to and including 16 inch center; minimum 5/8 inch gypsum wall and/or ceiling board shall be required on all framing over 16 inch center.

- Section R703.1      **General.** This section shall be amended by adding the following:
- Plywood. The minimum thickness and grade of plywood for all wall sheathing shall be as follows: ½" CDX or equal.
- Particleboard shall not be used for roof sheathing or sub-flooring.
- Chapter 16      **Duct Systems.** This section shall be amended by adding the following:
- Floor furnaces are not allowed. Wall furnaces are not allowed unless specifically permitted by the Building Inspector.
- Chapter 26      **General Plumbing Requirements.** This section shall be amended by adding the following:
- LPG tanks are not permitted except for portable equipment, appliances and vehicles.
- Chapter 29      **Water Supply and Distribution.** This section shall be amended by adding the following:
- Any portion of the current applicable State of Illinois Plumbing Code, which is more stringent or restrictive than this code, shall take precedence over this code.