

BASEMENT FINISHING

BUILDING CODE REQUIREMENTS AND INFORMATIONAL HANDOUT

1. Minimum ceiling height when altering *existing* basements = 6 feet 4 inches, R305.2.1.
2. Heat in all habitable rooms sustainable at 68 degrees 3-feet off the floor, 2-feet from exterior walls, R303.9. System must be balanced after installing heat ducts and cold air returns.
3. **Smoke alarms** shall be provided throughout the home on each level, in each bedroom and in the immediate vicinity outside of bedrooms. They must be hardwired and interconnected if access can be provided without removal of interior wall or ceiling finishes, R314.
4. **Carbon monoxide alarm** shall be installed within 10-feet **outside** of bedrooms, R315.
5. Basements and every sleeping room require an **emergency escape and rescue opening** that opens directly into a public way or to a yard or court that opens to a public way, R310.
6. **Egress window** minimum net clear openings are: 5.7 total square feet (5 square feet if at grade level) 24-inch height, 20-inch width and maximum sill height of 44-inches from floor, R310.1.1.
Replacement windows are exempt from these requirements when window is not smaller in size with same operating style that provides equal or greater opening of existing window, R310.1.5.
7. **Window wells** require at least 9 square feet of net clear area with a minimum horizontal projection and width of 36-inches. An attached ladder or steps is required when the vertical depth below grade exceeds 44-inches. The ladder or rungs shall be at least 12-inches wide, project at least 3 inches from the wall and spaced not more than 18-inches apart, R310.2. *A window well drainage system is required when not in well drained soils, R310.2.2.*
8. Bathroom with no openable window requires an exhaust fan. Exhaust duct must be insulated to minimum R-3.3 for first 3-feet from exterior wall, R303.3 and Energy code R403.2.1.
9. Stairs with four or more risers require a continuous full-length handrail with no sharp edges on one side with a minimum 1 ½-inch space between the handrail and wall or guard, R311.7.
10. Enclosed accessible space under stairs shall be protected on the enclosed side with ½-inch gypsum board, R302.7.
11. Wood in contact with concrete or masonry that is in direct contact with the ground must be treated or separated from the concrete or masonry by an impervious moisture barrier, R317.
12. Minimum insulation requirements: exterior above ground walls R-20, foundation walls R15 (R-10 with exception) rim R-10, Energy Code Table R402.1.1 and R402.2.8.

State Plumbing Code requirements:

1. All new plumbing shall be inspected, tested and approved prior to being covered.
2. Refer to attached Plumbing Code Check list for additional requirements.

Inspections Required:

1. Plumbing rough-in
2. Heating rough-in
3. Electrical rough-in
4. Framing, (can be done with plumbing and heating rough-in after electrical rough-in is passed)
5. Insulation, (after framing is passed)
6. Plumbing final
7. Heating final
8. Electrical final
9. Building Final, (can be done with plumbing and heating final after electrical final is passed)

Notes:

1. To schedule inspections, or if you have any questions contact Andy Schreder at 763-291-3704 or by email at: andy@rumrivercc.com.
2. Electrical work requires a separate permit by homeowner or licensed electrician. To schedule electrical inspections call Eugene Boyle @ 763-389-0397.
3. Plumbing and Heating work may be done by homeowner without obtaining separate permits. Separate Plumbing and Heating permits are required when contractors do the work.

Sketch of Basement Area

Label use and dimensions of all rooms and total square feet of finished space