

TOWN OF RIDGEFIELD

Building Department

(For Existing Basements Only)

BASEMENT PLANS - MINIMUM INFORMATION REQUIRED

- Please address all items indicated in red and return this entire package with revised plans.
Thank you.
- Show entire area finished/unfinished including any garage. LABEL All Areas.
- Plans need to have dimensions for all areas with the location of all mechanical equipment.
- Furnace: No access allowed through bathroom or bedroom. Provide combustion air based on BTU's of furnace. Exceptions: Direct Vent Appliance (See attached Sheet).
- Electric panel not allowed in bathrooms or closets, working space 30" wide and 36" in front of panel from floor to 6' 6" high. Nothing can be located in this space.
- Provide drawing of wall showing size and spacing of members.
Indicate pressure treated sill - Fire blocking and wall finish (See attached sheet).
- Required Ceiling Height – 6'10 "minimum.
- Beams and Girders not less than 6' 4" clear ceiling height.
- Common wall garage to living space requires 5/8" fire code sheetrock.
Doors to be 1 3/4" solid wood, 1 3/4" solid or honey comb core steel door,
OR 20 minute fire-rated door and shall be fitted with self-closing device.
- Storage under stairway requires one layer of 1/2" sheetrock.
- Smoke Detectors shall be provided on all levels and all bedrooms
(or provide note on your plan if they already exist in required locations).
- Egress Window- One each in sleeping room and must meet all of the following:
 - 1) 20 inch minimum clear opening width.
 - 2) 24 inch minimum clear opening height.
 - 3) 5.7 square feet or 820.9 square inches.
 - 4) 44 inch maximum window sill height above floor.
 - 5) Indicate if window is tilt and takeout and style double hung, casement or slider.
- Insulation shall comply with R-13 for walls.
- Stair detail to include riser height, tread depth, handrail, width and headroom off nosing.

State modification required when you can't comply with the code. Form must be completed by Applicant and returned to this office for submission to State for approval.

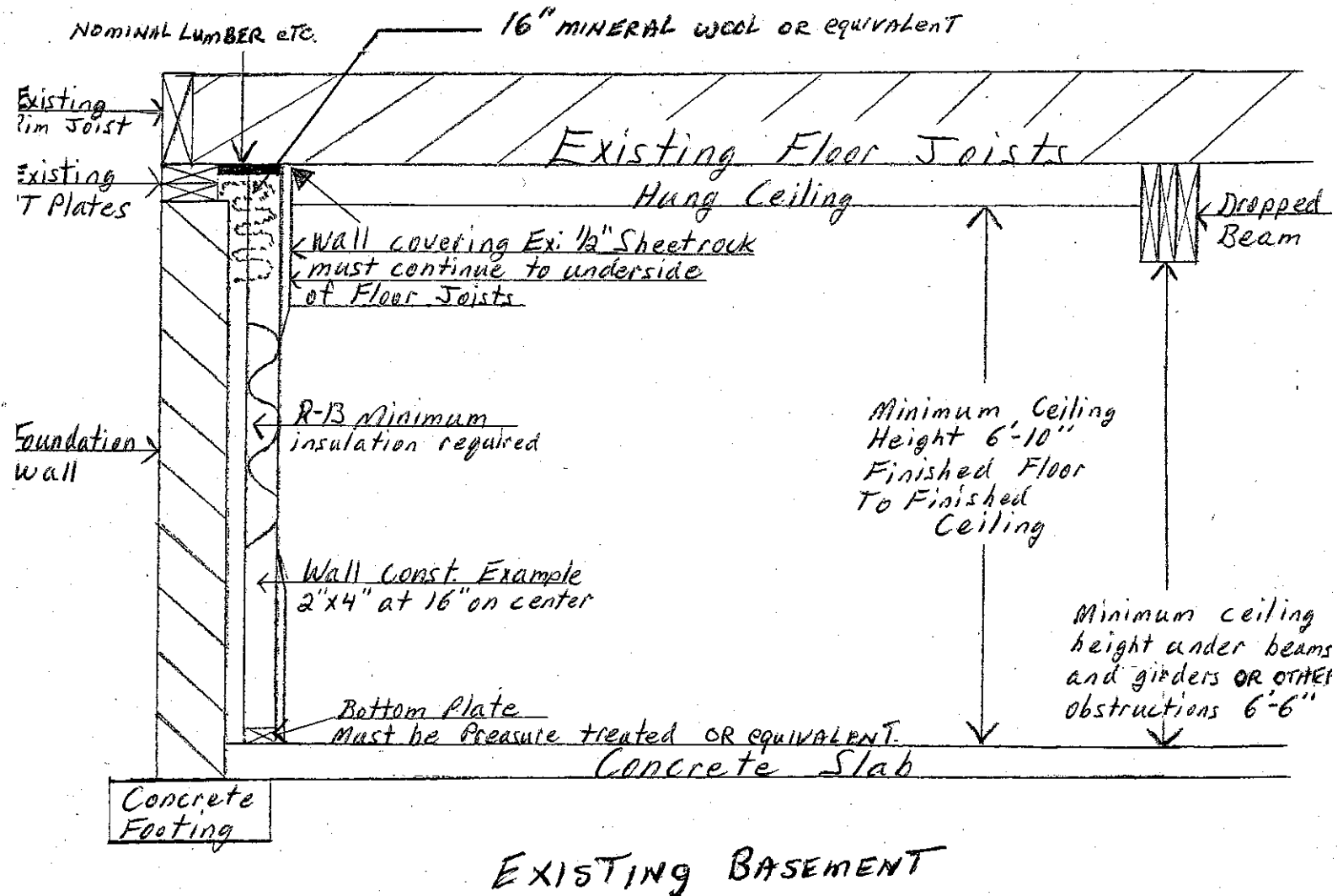
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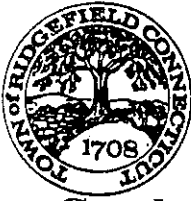
R602.8 Fireblocking required. Fireblocking shall be provided to cut off all concealed draft openings (both vertical and horizontal) and to form an effective fire barrier between stories, and between a top story and the roof space. Fireblocking shall be provided in wood-frame construction in the following locations.

1. In concealed spaces of stud walls and partitions, including furred spaces and parallel rows of studs or staggered studs; as follows:
 - 1.1. Vertically at the ceiling and floor levels.
 - 1.2. Horizontally at intervals not exceeding 10 feet (3048 mm).
2. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.
3. In concealed spaces between stair stringers at the top and bottom of the run. Enclosed spaces under stairs shall comply with Section R311.2.2.
4. At openings around vents, pipes, and ducts at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion.
5. For the fireblocking of chimneys and fireplaces, see Section R1001.16.
6. Fireblocking of cornices of a two-family dwelling is required at the line of dwelling unit separation.

(Amd) R602.8.1 Materials. Except as provided in Section R602.8, Item 4, fireblocking shall consist of 2-inch nominal lumber, or two thicknesses of 1-inch nominal lumber with broken lap joints, or one thickness of 23/32-inch wood structural panels with joints backed by 23/32-inch wood structural panels or one thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard, or 1/2-inch gypsum board or 1/4-inch cement-based millboard. Minimum 16-inch vertical batts or blankets of mineral wool installed in such a manner as to be securely retained in place shall also be permitted as an acceptable fire block. Batts or blankets of mineral wool shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs.

R602.8.1.2 Fireblocking integrity. The integrity of all fireblocks shall be maintained.





Town of Ridgefield

TOWN HALL ANNEX - 66 PROSPECT STREET

RIDGEFIELD, CONNECTICUT 06877 • 203/431-2743

Combustion Air

2009 IRC

Chapter 24

Building Department

Direct vent appliances and appliances equipped with a combustion air kit, do not require additional combustion air.

All fuel burning appliances (Furnaces, Hot Water Heater, etc.) require air for combustion based on 50 cubic feet of air for each 1000 BTU'S of appliance(s).

The air may be taken from the space the appliance(s) is located if sufficient or adjacent spaces (if volume is sufficient & connected by two openings of required size).

To see if you comply, please do the following calculation below for your space.

Length _____ x Width _____ = Area _____ x Height _____ = SPACE VOL. of air in cubic feet _____

BTU'S of your Appliance(s) _____ x 50 Cubic Ft = required VOL. in cubic feet _____
1000

SPACE VOL. of air _____

APPLIANCE VOL. of air _____

The volume of air required for the appliance(s) must be equal to or less than the SPACE VOL. of air. If the space volume of air is less (not enough combustion air) outside air is required.

Connected spaces require two openings.

One opening must be located 12" from the floor the other must be located 12" from the ceiling.

Each opening shall have a clear opening equal to 1 sq. inch per 1000 Btu's but not be less than 100 sq. inches.

Calculations for openings:

Appliance BTU'S _____ x 1 sq. inch = _____ sq. inch of opening.
1000

Metal louvers are 75% efficient, Wood louvers are 25% efficient; use calculations below for the type of louvers used.

Metal _____ sq. inch of opening ÷ .75 = _____ required size of louver in sq. inches

Wood _____ sq. inch of opening ÷ .25 = _____ required size of louver in sq. inches