

MEHLVILLE FIRE PROTECTION DISTRICT SFD BASIC REQUIREMENTS

ROUGH-IN INSPECTION FOR SINGLE FAMILY DWELLINGS

Please call for inspection just before structure is ready for drywall. Call for inspection the day before the inspection is to be conducted.

Top and bottom plates of all walls shall be firestopped.

All soffits, dead spaces, ceilings above prefabricated fireplaces, drop ceilings and vaulted ceilings shall be firestopped where they meet the walls with: wood of 2-inch nominal thickness, 2-inch drywall, 24-gauge galvanized sheet metal or other approved noncombustible material.

All holes around air ducts and plumbing stacks, including tub drains, shall be closed tight.

Prefabricated fireplaces shall be installed in accordance with the manufacturer's instructions and bear the label of a nationally recognized testing laboratory.

All can lights which are installed in insulated areas shall be properly protected and checked before being covered with drywall. Minimum clearance to insulation shall be as stamped on the fixture, if not Type IC.

A readily-accessible access opening shall be provided into any attic area 30-inches or more in height. The minimum size of the opening is 22" by 30". Not acceptable in a closet unless a walk-in closet. If in the garage, the lid must be supported by a 2-inch nominal wood or angle iron frame, or other approved material.

A minimum of 2-inch clearance shall be maintained between prefabricated flues and chimneys and any combustible material; unless listed for less clearance by a nationally recognized testing laboratory.

All bedrooms and habitable basements shall have at least one window that complies with the following:

- Top of sill not over 44-inches above the floor
- Net clear opening shall be 5.0 sq. ft. on grade floor, or 5.7 sq. ft. on all other floors
- Minimum net clear openings are:
Height 24-inches Width 20-inches

NOTE: Net clear opening shall be obtained by the normal operation of the window from inside. Window must be installed at time of rough-in inspection.

No outlets or switches are allowed in return air spaces. Wire may run only across a return air spaces.

Cold air returns may remove air from one floor level only. Cold air returns are not permitted in garage separation walls; unless ducted.

All range hoods and bathroom vents, which are designed to be vented, shall be vented to the exterior of the building.

Floor trusses must be draftstopped every 500 square feet.

The following shall apply to masonry fireplaces:

- Rear and side walls of fireplaces that will be concealed behind walls must have a minimum clearance of 4-inches to combustibles. Chimneys must have a minimum clearance of 2-inches to combustibles.
- Refractory fire clay mortar shall be used with the refractory brick in walls of fireplace.

FINAL INSPECTION FOR SINGLE FAMILY DWELLINGS

The following shall apply to masonry fireplaces:

- No combustible materials may be located within 6-inches of the fire box opening.
- Hearth extensions are to be measured from the face of the fireplace opening:
 - Fire box opening 6 sq. ft. or larger: 20" in front and 12" each side
 - Fire box opening less than 6 sq. ft.: 16" in front and 8" each side.
- Mantels shall be installed at least 6-inches above top of the fire box opening.

All vent connectors shall have a minimum of 3-inch per foot rise from the appliance to the vent flue and all joints must be secured.

Vent connections must be offset from each other at the connection to the main vent.

All flues, vents and chimneys shall terminate at least 3-feet above the highest point where they pass through the roof of the structure and at least 2-feet above any portion of the structure within 10-feet vertically, unless approved for a shorter height by a nationally recognized testing laboratory.

A 1-1/2-inch solid core wood door or 1-1/2-inch solid or honeycomb core steel door, shall be installed between attached garages, or basement garages, and the rest of the structure. The sill of such doors shall be raised a minimum of 4-inches above the garage floor.

- Interior living space shall be separated from attached garages with 2-inch type "X" drywall. The drywall shall extend from the foundation to the underside of the roof. If a ceiling is installed the 2-inch type "X" drywall may stop at the ceiling provided the ceiling is also 2-inch type "X" drywall. All drywall joints shall be taped and nail/screw heads treated.

If there is living space located above a garage, the separation wall(s) shall be covered with 5/8-inch type "X" drywall on both sides of the studs. Any exposed beams, columns and the ceiling shall be covered with 5/8-inch type "X" drywall. All drywall joints shall be taped and nail/screw heads treated.

- A smoke detector is required on every level of the residence, including the basement. In split level homes, a smoke detector on the upper level shall be sufficient for the adjacent lower level provided:
 - lower level is less than a full story below the upper level, and
 - there is no intervening door between adjacent levels, and
 - no bedroom is located on the lower level
- The detector on a floor with no bedrooms should be located in close proximity to the stairway above.
- Required locations:
 - In the immediate vicinity of all bedrooms
 - In all bedrooms
 - In each story within the dwelling unit, including basements
- When installing a smoke detector, maintain a clearance of 3-feet from cold air returns, heat registers, attic fans or other locations where normal air circulation will keep smoke from reaching the smoke detector.
- If wall mounted, the top of the smoke detector must be not less than 4-inches, nor more than 12-inches from the ceiling.
- All smoke detectors within an individual dwelling shall be wired in such a manner that actuation of one detector will actuate ALL alarms in the individual unit. AC powered UL listed smoke detectors with battery back-up power supply are required in all residences.
- Minimum audio level in the bedrooms is 70 dBA with the door to the bedroom closed.

Stairway treads and risers:

- Riser 4-inches to 8 3/4-inches in height
- Tread minimum depth 9-inches

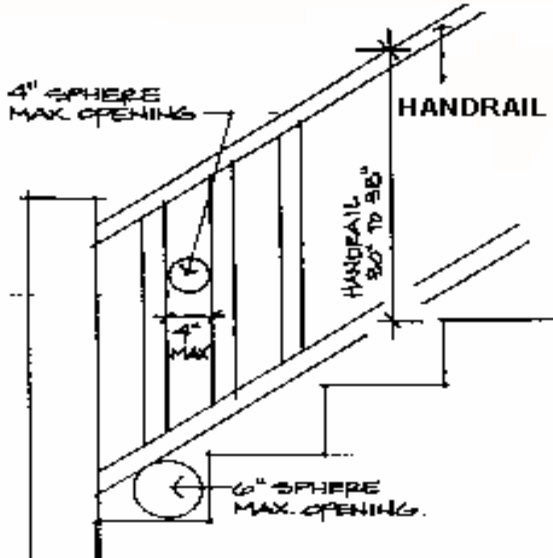
Handrail height is 30 to 38-inches measured vertically above the nosing of treads or finished floor of landing.

Exception: Handrails that form part of a guardrail may be 34 to 42-inches high.

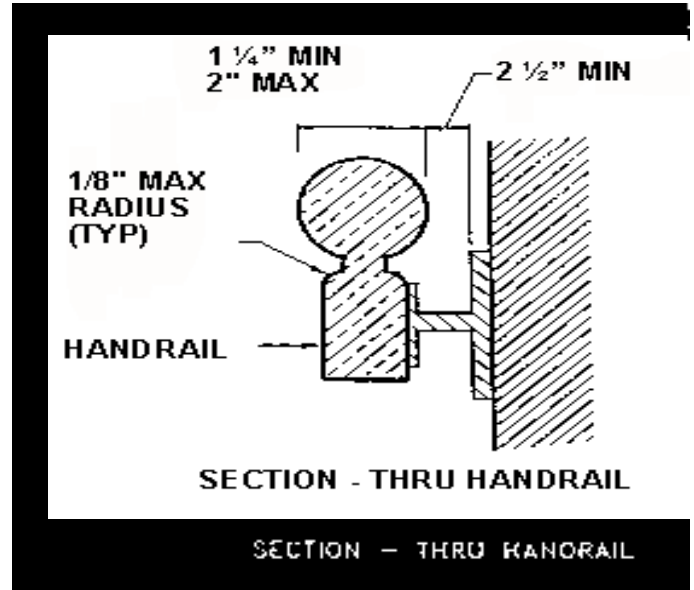
- Handrails shall have a circular cross section with an outside diameter of at least 1 3/4-inches and not greater than 2-inches. Handrails are required to have a clear space of not less than 2 3/4" between the handrail and the adjacent wall on stairways. The allowable projection into the required stairway width must not exceed 4 2".

Exception: Other approved shapes of equivalent graspability with a graspable perimeter dimension of at least 4-inches, but not greater than 6 3/4-inches within the graspable area, and with the largest cross-sectional dimension not exceeding 2 3/4-inches within the graspable area.

- Handrails shall be continuous from the bottom tread to the top tread in each stair run. If the handrail is off-set, the ends of the two sections of handrail shall be overlapped so that one can easily transfer one's grip from handrail to handrail.



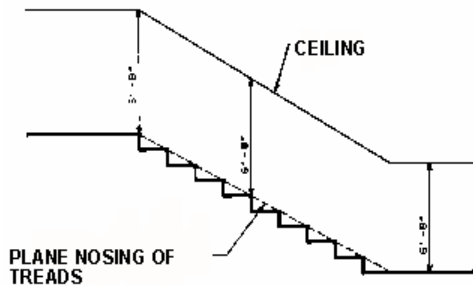
GUARDS



HANDRAILS

Guards along open-sided floor areas, mezzanines and landings shall be not less than 36-inches in height.

- Shall have balusters or other construction so that a sphere with a diameter of 4-inches cannot pass through the opening. Guards shall not have an ornamental pattern that would provide a ladder effect.
- The triangular openings formed by the riser, tread and bottom rail at the open side shall be of a maximum size that a sphere 6-inches in diameter cannot pass through the opening



The minimum headroom in all parts of a stairway shall be not less than 80" measured vertically from the tread nosing or from the floor surface of the landing or platform.

At least the main entrance/exit door from the structure must be operable from the inside without the use of a key. Double key entry deadbolts are prohibited, unless the key cannot be removed from the lock when the door is locked from the side from which egress is to be made (capture key).

Permanent utilities (electric and gas) must be provided at the time of final inspection.

The fee for each Reinspection shall be Fifty Dollars (\$50).

NOTE: The permit fee includes all approved partial or complete rough and final inspections, as well as 1 reinspection on the rough and 1 reinspection on the final. If the reinspection fails, you will be charged for each additional reinspection. **All reinspection fees must be paid prior to requesting a reinspection.**

No structure is to be occupied prior to a final inspection approval by the Mehlville Fire Protection District.



SINGLE FAMILY DWELLING

CHECKLIST



MEMBER