

FIREPLACE / WOOD STOVE

Village of Carol Stream

500 N. Gary Avenue, Carol Stream, IL 60188
Tel: 630-871-6230 Fax: 630-665-1064

CHECKLIST

Completed by Permit Applicant and reviewed by Community Development Staff at submittal.
Additional items required will be circled by Community Development Staff.

- _____ Completed **Application For Permit**
 - _____ Two (2) copies of the **Plat of Survey**, drawn to scale, showing all existing structures on the lot and showing the location of the proposed fireplace chimney, if applicable, with dimensions to the nearest property line
 - _____ One (1) set of **installation instructions** for a prefab fireplace or woodstove, or one (1) set of plans for a masonry fireplace showing footing detail, detailed cross-section of flue, firebox, damper, hearth, etc., with dimensions and materials listed
 - _____ One (1) set **plans** showing chimney and roof line elevation details
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Completed by Community Development Staff upon review of submittal:

- _____ All documentation required for the permit application has been submitted.
- _____ Items circled have not been properly submitted and we are returning your submittal for completion of these items.

Building permit submittal checked by: _____

For questions regarding building permit requirements for a Fireplace/Wood Stove, please contact the Village of Carol Stream Community Development Department at (630)871-6230.

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Residential Fireplace and Wood Stove Permit Requirements

1. *Permit Application:* An approved permit is required for all fireplace and wood stove installations, whether they be prefabricated or masonry, before construction begins. A completed permit application must be submitted along with two copies of the plat of survey showing the proposed fireplace location if the firebox and/or chimney is to be located on the exterior of the residence. The equipment and/or structure must not project more than two feet (2') into the required yard. In addition to the above information, plans must be submitted showing the floor plan of the house with dimensions and location of the fireplace or wood stove. Also submit drawings of the chimney and roof line elevation detail.
 - A. For masonry installations, the plans must show a detailed cross-section of the flue, firebox, damper, hearth, and other pertinent details with dimensions and materials listed. A footing detail must also be included.
 - B. For prefabricated installations, the installation manual must be submitted, with specifications and U.L. listing of both fireplace/wood stove and flue along with footing detail and drawing showing how flue is to be run.
2. *Design Requirements:*
 - A. MASONRY CHIMNEYS
 - 1) Flues:
 - a) A separate flue is required for each fireplace and wood stove.
 - b) A separate flue is required for each appliance fired with a natural-draft oil burner.
 - c) Separate flues are required for each piece of all other equipment, depending upon the sustained chimney draft for proper operation, unless a combined flue is specifically approved by the Building Official.
 - 2) The footing of the masonry chimney must be concrete cast-in-place.
 - 3) The effective flue area must be at least as recommended by the manufacturer of the equipment connected to the chimney and at least equal to the area of the outlet (smoke or vent) of the equipment connected to it. For fireplaces, the effective area must be not less than 1/10 of the fireplace opening.
 - 4) Chimney lining, wythes and walls:
 - a) Glazed fire-clay flue lining is required in all chimneys for liquid and solid fuels. When gas is used as a fuel, provide flue lining of metal or composition acceptable to the Building Official, or glazed fire-clay lining or vitrified tile lining, bell and spigot type, bell end up, all with joints made with acid-resisting mortar. Provide drain to dispose of condensation.

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Residential Fireplace and Wood Stove Permit Requirements, continued...

- b) Two flues may be grouped without a wythe of masonry between them, provided the joints of the linings are staggered at least seven inches (7").
 - c) Wythes separating flues or groups of flues with linings not staggered must be four inch (4") minimum thickness.
 - 5) The height of the chimney must be as recommended by the equipment manufacturer. The chimney must extend at least three feet (3') above the highest ridge or point of the roof where it passes through the roof of the building and not less than two feet (2') above the highest ridge within ten feet (10') of the chimney.
 - 6) Cap the chimney to form a wash from the flue to the outside edge, minimum thickness three inches (3").
 - 7) Metal thimbles and clean-out doors must be built at the time the chimney is constructed. Clean-out doors are not necessary for approved prefabricated chimneys.
- B. FIREPLACES**
- 1) A smoke chamber and damper are required in all fireplaces.
 - 2) Minimum wall thickness: eight inches (8") in addition to the lining.
 - 3) Ash dump: when provided, empty into a concrete or masonry chamber provided with metal clean-out door.
 - 4) Lining: two inches (2") of fire brick or other material acceptable to the Building Official.
 - 5) Hearth:
 - a) The hearth must be supported independently on masonry or concrete.
 - b) Projection from fireplace opening less than six square feet, at least sixteen inches (16").
 - c) Each side of the hearth must be at least eight inches (8") wider than the fireplace opening on each side.
 - d) Fireplace and hearth material must be incombustible.
 - e) The combined thickness of the hearth and support must be a minimum of six inches (6").
 - 6) Fireplace opening lintel: use brick arch, concrete, stone, or reinforced clay masonry.
 - 7) Woodwork or other combustible materials must not be placed within six inches (6") of the sides of a fireplace opening. Combustible material within twelve inches (12") above the fireplace opening must not project more than one-eighth inch (1/8") for each one inch (1") distance from such opening.

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- 8) Factory-built fireplaces and chimneys must be approved by an accredited authoritative agency and installed as per the manufacturer's instructions.
- 9) Provide combustion air to provide proper exhaust balance and/or as per the manufacturer's requirements.
 - * Factory-built or masonry fireplaces must be equipped with an exterior air supply to ensure proper fuel combustion.
3. *Code Requirements:* All fireplace installations must conform to the following Carol Stream codes as amended, where applicable:
 - A. International Residential Code 2003.
 - B. International Mechanical Code 2003.
 - C. The National Electrical Code 2002.
4. *Inspections:* For masonry installations, inspections are required prior to placing the concrete footing, during construction while the chimney is exposed, and upon completion. For pre-fabricated installations, inspections are required when the footing is formed before concrete is placed, during construction before concealing, and upon completion. Call **871-6230** to schedule inspections at least twenty-four (24) hours in advance.

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