



Permit Application and Guidelines: **Smoke/Heat Exhaust**

Permit Required: 2020 MSFC; 105.7.20

A construction permit is required for the following:

Smoke control or smoke exhaust systems.

1. To install, or alter smoke control or smoke exhaust systems.
 - a. Exception:
 - i. Maintenance performed in accordance with the MSFC is not considered an alteration and does not require a permit.

Fees: The City of Maple Grove fee schedule is available for review on the city website.

Code Guidance/ General Requirements: MSFC, NFPA, and Chapter 18 City Ordinance

- Permit shall be posted on site
- Special inspection or engineering reports may be requested and shall be submitted to the applicable inspector.

Plan Submittal:

Plans shall include the following as applicable:

- Floor plans showing the proposed system design that is fully dimensioned and to scale
 - Identify if installing a Smoke Control System, Mechanical Smoke Exhaust System, or Smoke and Heat Vents
 - Identify the proposed method being used to control smoke (Pressurization, Airflow, or Exhaust Method)
 - The minimum drawing size scale is 1/8th inch = one foot
 - Details shall be a minimum of 1/4 inch = one foot or large enough to be legible if not to scale
 - All details on system components, building construction features, and obstructions shall be clearly legible
- Floor plan of the building indicating what area of the building the system is located
 - Identify the system capacity
- Floor/ceiling plan of the smoke control area
 - Identify the location of smoke curtains, walls, smoke hatches, or exhaust fans
- Commodity Classifications
- Designated storage height
- Racking/pile arrangements and aisle widths
- Fans
 - Datasheets
 - CFM
 - Location and size
 - Describe thermal protection of device and wiring

- Make-up-air
 - Overhead doors shall not qualify as make-up air
 - Location
 - Size
- Damper locations and their operations
- Vents
 - Size and spacing of vents
 - The temperature at which the vent will operate
- Curtain Boards
 - Location
 - Depth
 - Size of the area formed
 - Other pertinent details
- Specifics of the control room for smoke control or mechanical ventilation
- System inputs, outputs, and control systems information
- Standby power supply information (Smoke Control Systems)
- Calculations

All plans shall be submitted electronically through ePermits online.
No paper plans will be accepted.

Inspections Required:

- Rough-in
- Final
- Operational test
- Smoke control systems shall be tested by a special inspector in accordance with the MN Building Code

Click [HERE](#) to go to the ePermits website.