



City of Thornton Fire Department | 2300 Thornton Parkway | Thornton, CO 80229
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General Requirements for Commercial Cooking Fire Suppression Systems

- All installation work shall be in accordance with the International Fire Code (2021 Edition) Section 904.13, Commercial Cooking Systems, National Fire Protection Association (NFPA) Standard for Wet Chemical Extinguishing Systems 17A (2020 Edition), the International Mechanical Code (2021 Edition) and manufacturers' specifications.
- Portable fire extinguishers shall be provided within a 30-foot travel distance of the cooking equipment. Cooking equipment involving solid fuels or vegetable, or animal oils and fats shall be protected by a Class K rated portable fire extinguisher in accordance with IFC Sections 906.1, item 2, 906.4.1 and 906.4.2 as applicable.
 - Instructions for activating the fire-extinguishing system prior to using the fire extinguisher shall be posted adjacent to each Class K rated portable fire extinguisher.
- **IFC:** 904.13.1 A manual actuation device shall be installed in a readily accessible and unobstructed location near a means of egress from the cooking area for each hood suppression system. This device shall be located a minimum of 10 feet and a maximum of 20 feet from the kitchen exhaust system(s).
 - Each manual actuation device shall be located not more than 48 inches nor less than 42 inches above the floor and shall clearly identify the hazard protected.
- A sign shall be posted reminding personnel to turn on the ventilation system during cooking operations.
- A means shall be provided to ensure that cooking appliances remain in the proper locations under the nozzles (e.g. wheel stops, floor markings).
- On actuation of any cooking equipment fire extinguishing system, all sources of fuel and electric power that produce heat to all equipment protected by the system will be shut down.
- Gas appliances not requiring protection but located under the same ventilation equipment shall also be shut down.
- Shut down devices shall require manual resetting prior to fuel or power being restored.
- The extinguishing system shall be connected to the fire alarm system, if provided in accordance with NFPA 72.

- A copy of the permit, approved shop drawings and manufacturers' specifications shall be kept on the construction site at all times. Failure to display such documents may result in termination of the inspection with reinspection fees charged.
- Any features or details of the actual installation(s) that differ from the approved plans are subject to review and approval by the Fire Department. As-built drawings may be required.
- Prior to performance of each acceptance test, the installer shall provide certification that the hood fire extinguishing system has been installed in accordance with the approved plans and the manufacturers' listed installation and maintenance manual.
- The Fire Prevention Division will conduct a final inspection and acceptance test of all new or altered hood fire extinguishing systems after completion of the installation. Cooking operations shall not begin until approved.
 - The installer should schedule this inspection and test at least four business days in advance.
 - The installer must provide all needed test equipment.
 - All appliances protected by the suppression system must be installed and operational.
 - The acceptance test will include all of the following for each hood system:
 - Visual inspection of pipe, nozzle and detector installations;
 - Automatic (link) and manual (pull station) activation tests - including the shut-down of all sources of fuel and heat to all equipment serviced by the hood;
 - Proper ventilation start-up and shut-down;
 - Air test to ensure piping is unobstructed;
 - Fire alarm system monitoring.
 - Fire Suppression Company will provide training to business staff member (cook, owner, manager)

All service providers who inspect, test and repair fire protection systems within Thornton's jurisdiction are required to register and submit all test, inspection, and service reports via The Compliance Engine. All reports must be submitted in accordance with the testing schedule and requirements outlined in our adopted fire code.