



City of Thornton Fire Department | 2300 Thornton Parkway | Thornton, CO 80229
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Hazardous Materials Plan Submittal Requirements

Plan Submission Requirements:

The following are required for all hazardous materials plan review submissions. The accuracy and completeness of the information provided will contribute to the progression of the plan review process result.

- A. Projects identified as Factory, Industrial, Hazardous Materials, High Hazard, or with a High Hazard component will require a Third-Party Review from a certified Fire Protection Engineer.

IFC 104.8.2 Technical Assistance:

The review will be used to determine the acceptability of technologies, processes, products, facilities, materials, and uses attending the design, operation or use of a building or premises subject to inspection by the fire code official, the fire code official is authorized to require the owner or owner's authorized agent to provide, without charge to the jurisdiction, a technical opinion and report. The opinion and report shall be prepared by a qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the fire code official and shall analyze the fire safety properties of the design, operation or use of the building or premises and the facilities and appurtenances situated thereon, to recommend necessary changes. The fire code official is authorized to require design submittals to be prepared by, and bear the stamp of, a registered design professional.

Failure to provide a review report by an approved Third-party will cause for project denial.

Preference to have the following information submitted during the Pre-Application Process.

B. Construction Plan Requirements

- The following items must be shown and identified on construction drawings:
- Site plans for each area inside or outside the building containing hazardous materials
- Chemical hazard classes and amounts in each control area
- All locations of processes/operations present
- Locations of all H occupancies, control areas to include exterior storage and use areas

- H-occupancy wall fire rating
- Industrial Warehouses or occupancies with high-hazard use will require direct access adjacent to a Public Way. The location of the control hazard area may require additional access.
- Compliance with H-occupancy requirements of the IBC (14-15) and IFC (50-67):
- Lot/property lines and adjacent buildings for outside storage
- All storage and use areas, including hazardous waste storage areas
- Access to each storage and use area
- Location of all aboveground and underground tanks to include sumps, vaults, below-grade treatment systems, piping, etc.
- Secondary containment and spill control, as applicable
- Compliance with specific requirements throughout the individual fire code chapters that pertain to each hazardous material on site.

C. Supplemental Information Requirements a List of Hazardous Materials by:

- Product Name
- Component
- Chemical Abstract (CAS) Number
- Location of material to be stored and used in the building.
- Container size
- Hazard Classification
- Total quantity amount of each material in storage
- The amount in use-closed systems and the amount in use-open systems

D. Owner's Statement:

Owner's Statement documents the use or occupancy classification based on factors pertaining to the function, the activities conducted within, and potential risk associated with the activities in terms of safety. Any special hazards or considerations that are relevant to fire safety (e.g., storage of hazardous materials) should be identified. By providing comprehensive information about hazardous materials in a statement of building use, ensures compliance with fire codes, mitigate risks effectively, and facilitates emergency response preparedness. This information shall be kept current and accessible to relevant personnel and authorities responsible for building safety and emergency management.

Complete the Owner's Statement by visiting the Thornton Fire Department Fire Permits & Inspections website - <https://www.thorntonco.gov/city-services/public-safety/fire-department/fire-permits-inspections>.

Hazardous material plan reviews require accurate and concise information to verify code requirements, thus ensuring a safe building and process. Hazardous material plans that lack the necessary information or clarity for the reviewer will cause project delays.

Segregation of Hazardous Materials - <https://www.ecfr.gov/current/title-49/subtitle-B/chapter-I/subchapter-C/part-177/subpart-C/section-177.848>