

Electronic Plan Standards

File Naming Standards:

Electronic plans and documents shall be named as specified in the City of Vancouver [ePLANS](https://www.cityofvancouver.us/business/permits-licenses-and-inspections/eplans/) system:
<https://www.cityofvancouver.us/business/permits-licenses-and-inspections/eplans/>



Acceptable File Types:

Plans, calculations, specifications and supporting documents shall be uploaded as a PDF file.

Plan Sheet Standards:

All plans shall be drawn to scale, as identified in the checklist, and each sheet shall state the scale and show a measurable scale on the page for measurement calibrations.

Document Orientation:

All plans must be uploaded in "Landscape" format in the horizontal position with a north indicator. All other documents can be in "Portrait" format.

Stamped:

Where documentation contains a code analysis or engineering calculations, such documents shall be stamped by the design professional.

Minimum Submittal Checklist for Upload to ePLANS

- Completed Fire Installation Permit Application – Scrap Tire Storage (this document) Check all *Permit Conditions* checkboxes that are applicable to your project
- Supporting documents listed below (See *Document Details* below)
- Site plans and floor plans (see *Plan Details* below)

Document Details

HMMP Guide: <https://www.cityofvancouver.us/wp-content/uploads/2023/10/Hazardous-Materials-Management-Plan.pdf>
See *Vancouver Fire Department HMMP Guide* for direction on completing required HMMP and/or supplemental forms

Does your business...	If YES, please complete the form noted below	
Store more than 500 square feet, including aisles, of: 1. High-piled combustible storage in piles or on pallets, in racks or shelves where the material being stored exceeds twelve (12) feet in height, or 2. Tires, Group A plastics, flammable liquids, idle pallets, or similar high hazard materials stored above six (6) feet in height.	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> High Piled or Rack Storage Permit application separately required.

In addition to the document listed above, provide the following documents:

- A scrap tire storage permit application (this document).

Plan Details

The following is a list of information required on all plan submittals for review of a scrap tire storage permit. The plan shall be drawn to 1/8"= 1'-0" minimum scale. The applicant is required to submit all applicable information so an accurate and timely review may be completed:

General:

- Site plan to include a north arrow, a measurable scale for calibration purposes, fire hydrants, emergency access lanes and doors, vehicle gates, Fire Department Connection, facility evacuation meeting point locations, setbacks from property lines, the public way and unrelated combustible exposures, electrical room, gas meters, sprinkler riser, fire alarm control panel, Knox Box, roof access (if provided), and any outdoor hazardous materials storage.
- Interior plans showing all access points, hazardous materials storage rooms and/or cabinets, hazardous equipment, or operations areas
- Fire-resistance rated construction.
- Portable fire extinguisher type, size, and locations per WSFC 906
- Areas of open flames and sparks, hot surfaces, or other ignition sources

Where there is over 500 square feet of tire storage (including aisles) over 6-feet in height, provide plans showing the following:

- Floor plan of the building showing locations and dimensions of all high-piled storage areas.
- Usable storage height of each storage area.
- Number of tiers within each rack, if applicable.
- Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
- Commodity clearance between top of storage and the ceiling or roof deck for each storage arrangement.
- Aisle dimensions between each storage array.
- Location and classification of commodities in accordance with the fire code.
- Location of commodities that are banded or encapsulated.
- Location of aerosols, flammable and combustible liquids, and hazardous materials (the storage and retail display of aerosol products, flammable and combustible liquids and hazardous materials shall also be in accordance with the fire code).
- Locations of required fire department access doors.
- Type of fire-suppression and fire-detection systems, including small hose station locations.
- Location of valves controlling the water supply for ceiling and in-rack sprinklers.
- Type, location, and specifications (including the temperature rating of fusible elements) of smoke removal systems.
- Dimension and location of transverse and longitudinal flue spaces.
- Any additional information regarding required design features, commodities, storage arrangement, and fire protection features within the high-piled storage areas.

Outdoor storage of tires shall be restricted to individual piles not exceeding 5,000 SF of continuous area, Piles shall not exceed 50,000 CF in volume or 10 FT in height.

- Show a site plan of the outdoor storage including max pile volume and dimensions, separation distance (40+ feet for piles and combustible storage; 50+ feet for lot lines and buildings.)
- Show fire breaks that will be maintained free of vegetation (40+ feet to vegetation; 100+ feet to forests and fields.
- Show all overhead utilities, bridges, and trees.
- Show designated fire apparatus access roads.
- Show the number of fuel fire vehicles to be operated in the yard that shall be equipped with minimum 2-A:20-B:C-rated portable fire extinguishers.
- Show lockable gates and fencing around storage yard including type of fencing and dimensions of gates.

Permit Conditions

The following is a list of WSFC requirements related to scrap tire storage operations. Use this form to confirm that all applicable requirements are met. Non-applicable requirements can be left blank.

General:

- When storing over 500 square feet (including aisles) of tires above 6 feet in height, comply with WSFC Chapter 32.

- A public or private fire protection water supply shall be provided in accordance with WSFC Section 507. The water supply shall be arranged such that any part of the storage yard can be reached by using not more than 500 feet of hose (WSFC 3408.1).
- Buildings or structures shall be provided with portable fire extinguishers in accordance with WSFC Section 906. Fuel-fired vehicles operating in the storage yard shall be equipped with a minimum 2-A:20-B:C-rated portable fire extinguisher (WSFC 3408.2).
- Open burning is prohibited in tire storage yards (WSFC 3404.1)
- Cutting, welding, or heating devices shall not be operated in tire storage yards (WSFC 3404.2).
- Smoking is prohibited in tire storage yards, except in designated areas (WSFC 3404.3).
- Tire storage piles shall not be located beneath electrical power lines having a voltage more than 750 volts or that supply power to fire emergency systems (WSFC 3404.4).
- The telephone number of the fire department and location of the nearest telephone shall be posted conspicuously in attended locations (WSFC 3404.6).

Outdoor Storage:

- Tire storage shall be restricted to individual piles not exceeding 5,000 square feet of continuous area. Piles shall not exceed 50,000 cubic feet in volume, or 10 feet in height (WSFC 3405.1).
- Individual piles shall be separated from other tire piles or piles of other stored products by a clear space of no less than 40 feet (WSFC 3405.2 & 3405.3).
- Tire storage piles shall be located not less than 50 feet from lot lines and buildings (WSFC 3405.4).
- Storage yards shall be maintained free from combustible ground vegetation for 40 feet from the stored material to grass and weeds; and for 100 feet from the stored product to brush and forested areas (WSFC 3405.5).
- Tire storage shall not be located under bridges, elevated trestles, elevated roadways, or elevated railroads (WSFC 3405.7).

Bulk Storage:

- Where the bulk volume of stored product is more than 150,000 cubic feet, storage arrangement shall be in accordance with the outdoor storage requirements listed above in addition to the following (WSFC 3405.6):
- Adjacent storage piles shall be a group, and the aggregate volume of storage piles in a group shall not exceed 150,000 cubic feet.
- Separation between groups shall not be less than 75 wide.
- Where the bulk volume of stored material is more than 20,000 cubic feet, a firmly anchored fence or other approved method of security that controls unauthorized access to the storage yard shall surround the storage yard (WSFC 3407.1). The storage arrangement shall be in accordance with the outdoor storage requirements listed above in addition to the following:
- The fence shall be constructed of approved materials and shall be not less than 6 feet high and provided with gates not less than 20 feet wide (WSFC 3407.2).
- Gates to the storage yard shall be locked when the storage yard is not staffed (WSFC 3407.3).
- Gateways shall be kept clear of obstructions and always be fully openable (WSFC 3407.4).

Indoor Storage:

- Where tires are stored on-tread, the dimension of the pile in the direction of the wheel hole shall be not more than 50 feet (WSFC 3409.1).
- Tires stored adjacent to or along one wall shall not extend more than 25 feet from that wall (WSFC 3409.1).
- Other piles shall be not more than 50 feet in width (WSFC 3409.1).

NOTE: *This is not intended to be an all-inclusive list. The WSFC requirements listed are intended to ensure that we have adequate information to begin a review of the application. Additional information may be required.*

I understand that all applicable codes apply and that other regulatory codes may also apply. Errors and/or omissions on the plans and corrections from field inspections are the responsibility of the owner/contractor. All work is subject to compliance with City of Vancouver ordinances and laws of the State of Washington.

APPLICANT NAME: _____ APPLICATION DATE: _____

APPLICANT SIGNATURE: _____