

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 – Amusement Buildings (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

With your completed permit application, provide the follow documents:

- Narrative describing the proposed attraction.
- Fire protection system design criteria.
- Emergency/fire alarm provisions

Plan Details

The following is a list of information required on all plan submittals for review of an amusement buildings 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:

1. 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, sprinkler riser, fire alarm control panel, Knox Box, and roof access (if provided).
2. Life safety plans to include building layout, exit routes, travel distance measurements, occupant load calculations, egress capacity, portable fire extinguisher locations, refuge areas, and fire-resistance-rated construction.
3. Fire alarm plans to include notification appliances, automatic smoke detectors, manual pull stations, exit signage, power supply, and emergency lighting
4. Fire sprinkler plans showing locations of fire department connection, sprinkler riser, sprinkler head layout, etc.

Permit Conditions

The following is a list of WSFC requirements related to amusement building operations. Use this form to confirm that all applicable requirements are met. The owner/operator shall be responsible to maintain compliance with all applicable Federal, State, and local laws, regulations and standards for fire and life safety. The following conditions shall be adhered to at all times.

1. An automatic smoke detection system shall be provided in special amusement buildings (WSFC 907.2.12).
 - Activation of any single smoke detector, the automatic sprinkler system or any other automatic fire detection device shall immediately activate an audible and visible alarm at the building at a constantly attended location from which emergency action can be initiated, including the capability of manual initiation of requirements in WSFC 907.2.12.2 (WSFC 907.2.12.1).
2. The activation of two or more smoke detectors, a single smoke detector equipped with an alarm verification feature, the automatic sprinkler system or other approved fire detection device shall automatically do all of the following (WSFC 907.2.12.2):
 - Cause illumination of the means of egress with light of not less than 1 footcandle (11 lux) at the walking surface level.
 - Stop any conflicting or confusing sounds and visual distractions.
 - Activate an approved directional exit marking that will become apparent in an emergency.
 - Activate a prerecorded message, audible throughout the special amusement building, instructing patrons to proceed to the nearest exit. Alarm signals used in conjunction with the prerecorded message shall produce a sound that is distinctive from other sounds used during normal operation.
 - Use of smoke generating equipment may be restricted if determined to be incompatible with smoke alarms. Consideration shall be used with respect to smoke generator locations. Smoke generators and locations shall be approved by the fire department and testing is required during permit inspection.
3. An emergency voice/alarm communication system, which is allowed to serve as a public address system, shall be installed in accordance with WSFC 907.5.2.2 and be audible throughout the entire special amusement building (WSFC 907.2.12.3).
4. Buildings containing special amusement areas shall be equipped throughout with an automatic sprinkler system in accordance with WSFC 903.3.1.1. Where the special amusement area is temporary, the sprinkler water supply shall be of an approved temporary means (WSFC 914.7.1).

Exception: Automatic sprinklers are not required where the total floor area of a temporary special amusement area is less than 1,000 square feet and the exit access travel distance from any point in the special amusement area to an exit is less than 50 feet.
5. Illuminated or self-luminous exit signs shall be installed at the required exit or exit access doorways serving special amusement areas. Approved directional exit markings shall be provided. Where mirrors, mazes or other designs are utilized that disguise the path of egress travel such that they are not apparent, approved and listed low-level exit signs, and directional path markings listed in accordance with UL 1994, shall be provided and located not more than 8 inches above the walking surface and on or near the path of egress travel. Such markings shall become visible in an emergency. The directional exit marking shall be activated by the automatic smoke detection system and the automatic sprinkler system (IBC 411).
 - Exit signs shall be internally or externally illuminated at all times; sign that are supplied by the premises power supply shall be connected to an emergency power system that provides illumination for not less than 60 minutes in case of primary power loss.

Exception: Approved signs that are self-luminous and provide evenly illuminated letters having a minimum illumination of 0.06 foot-lamberts that provide luminance independent of external power sources.
6. Portable fire extinguishers shall be provided as determined by the fire inspector. The minimum rating shall not be less than 2A:10B:C. The minimum travel distance to an extinguisher shall not exceed 75 feet. (WSFC 906)
7. Amusement buildings having an occupant load of 50 or more shall meet the exit requirements of Group A occupancies.

- For all amusement buildings classified as Group A occupancies, all exit doors must be equipped with panic hardware. Panic hardware may be omitted from the main exit of 'A' occupancies with an occupant load of less than 300 where the main exit door consists of a single door or pair of doors.
8. Combustible decorative material used in Group A occupancy amusement buildings shall be flame resistant meeting the criteria of NFPA 701.
 - Materials that cannot be made flame resistant shall not be used.
 - Tags or documentation of required flame resistance shall be on premises at all times.
 9. The maximum occupant load in any Group A occupancy amusement building shall be determined by the fire code official and shall be posted in a conspicuous location.
 10. All electrical wiring, including the use of extension cords, shall be installed, and used in compliance with the National Electrical Code and International Fire Code.
 - Multiplug adaptors, such as cube adaptors, unfused plug strips or other such devices not complying with the WSFC shall be prohibited.
 - Extension cords shall not be affixed to structures, extended through walls, ceilings, or floors, or under doors or floor covering nor subject to physical damage.
 - Extension cords shall not be used in place of permanent wiring.
 - Appliance cords and extension cords shall be maintained in good condition without splices, deterioration or damage.

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: _____