



Operational Permit Application

Lumber Yards Woodworking Plants



www.cityofvancouver.us/departments/fire-department

International Fire Code as adopted by VMC 16.04 (Washington State Fire Code)

Permitting Requirements

Lumber yards and woodworking facilities refer to any facility storing, selling, or processing wood and forest products, including sawdust, wood chips, shavings, bark mulch, shorts, finished planks, sheets, posts, poles, timber, and raw logs. Also included are solid biomass feedstock and raw products associated with agro-industrial facilities and the outdoor storage of pallets at pallet manufacturing and recycling facilities.

An **operational permit** is required for the storage or processing of lumber exceeding 100,000 board feet (8,333 ft³) (WSFC 105.5.27).

This application is intended for the operation of lumber yard woodworking. A separate permit is also required for the storage of chips, hogged material, lumber or any processed wood or forest products in excess of 200 cubic feet (WSFC 105.5.52). See the *Lumber Storage Processing* permit application for more information.

Project Information

Site Address		Owner Name	
Other			

Applicant Information

Company Name		Address		
Contact Name				
Office Phone		Cellular		Email

Contractor

Company Name		Address		
Contact Name				
Office Phone		Cellular		Email

Installation by:	<input type="checkbox"/> Contractor <input type="checkbox"/> Owner <input type="checkbox"/> Tenant	Type:	<input type="checkbox"/> Storage or Processing <input type="checkbox"/> Storing <input type="checkbox"/> Exceed 100,000 board feet <input type="checkbox"/> Exceed 200 ft ³
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Related Permits:	RES _____	CMI _____	DEF _____	MPE _____
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Description of Work

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 – Lumber Yards and Woodworking Plants (this document) Check all *Permit Conditions* checkboxes that are applicable to your project
- Completed Fire Installation Permit Application – Wood Products
- Completed Materials Management Plan (HMMP) documents and supplemental documents (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 these pages of the HMMP (linked above):	
Conduct operations, such as woodworking, that produce combustible dust?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> Facility Information Forms <input type="checkbox"/> HMIS <input type="checkbox"/> Site Map & Storage Plan <input type="checkbox"/> Combustible Dust Permit Application

In addition to the HMMP forms listed above, submit the following documents:

- High-Piled or Rack Storage Supplemental Application (if applicable)
- Where piles or stackable products are stored beyond the dimensions outlined in WSFC 2808.3, a Fire Protection Plan must be completed to include the following (WSFC 2808.3.1):
 - Contact information for after-hours response by facility personnel.
 - Storage yard areas and material-handling equipment selection, pile design and arrangement shall be based on sound safety and fire protection principles.
 - Fire apparatus access roads around the piles or stacks and access roads to the top of piles, if applicable, shall be established, identified, and maintained.
 - The potential for spontaneous heating shall be evaluated and provisions made to control the temperature of the piles. Methods for monitoring the internal temperature of the pile shall be provided.
 - Routine yard inspections shall be conducted by trained personnel.
 - A means for early fire detection and reporting to the public fire department shall be provided.
 - Facilities and equipment needed by the fire department for fire extinguishment shall be provided, including a water supply in compliance with Section 507 and heavy equipment necessary to move material.

- A de-inventory plan shall be utilized to remove alternating piles or stacked products in a manner to increase the separation distances between the remaining piles or stacks.
- The increased pile size shall be based on the capabilities of the installed fire protection systems and features.
- A controlled burn area shall be provided on-site for smoldering or damaged product.
- Emergency plan for monitoring, controlling and extinguishing spot fires (WSFC 2807.5, 2808.10).
- Security management plan based on a facility security risk assessment (WSFC 2810.5).

Plan Details

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

- 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(s), standpipes, fire alarm control panel, Knox Box, and roof access (if provided).
- Locations and dimensions of wood product storage piles. Indicate whether piles are of stackable products.
- Locations of pallet storage
- Designated smoking areas
- Portable fire extinguisher types, sizes, and locations
- Clearance to property line and surrounding buildings
- Equipment protected with a dust collection system (if applicable)

Permit Conditions

The following is a list of WSFC Chapter 28 requirements related to lumber yard woodworking operations. Use this form to confirm that all applicable requirements are met. Non-applicable requirements can be left blank.

General:

- Open yards required by the International Building Code shall be maintained around structures (WSFC 2803.1).
- Means for transmitting alarms to the fire department shall be provided in timber and lumber production mills and plywood and veneer mills (WSFC 2804.2).
- A manual fire alarm system complying with WSFC 907.2 shall be installed in areas of timber and lumber production mills and for plywood and veneer mills that contain product dryers (WSFC 2804.2.1).
Exception: Where dryers or other sources of ignition are protected by a supervised automatic sprinkler system complying with WSFC 903.
- Portable fire extinguishers or standpipes and hose supplied from an approved water system shall be provided within a 50-foot distance of travel from any machine producing shavings or sawdust. Portable fire extinguishers shall be provided in accordance with Section 906 for extra-high hazards (WSFC 2804.3).
- An automatic sprinkler system shall be installed in accordance with WSFC 903.3.1.1 (WSFC 2804.4).
- Additional safety requirements for wood processing and woodworking facilities must follow NFPA 664 (WSFC 2205.1)

Plywood, Veneer, and Composite Board Mills:

- Dryers shall be protected throughout by an approved, automatic deluge water-spray suppression system complying with Chapter 9. Deluge heads shall be inspected quarterly for pitch buildup. Deluge heads shall be flushed during regular maintenance for functional operation. Manual activation valves shall be located within 75 feet of the drying equipment (WSFC 2805.2).
- Facilities that use heat transfer fluids to provide process equipment heat through piped, indirect heating systems shall comply with NFPA 664 (WSFC 2805.3).

Storage and Processing of Wood Chips, Hogged Materials, Fines, Compost, Solid Biomass Feedstock and Raw Product Associated with Yard Waste, Agro-Industrial, and Recycling Facilities:

- Storage sites shall be level and on solid ground, elevated soil lifts or other all-weather surface. Sites shall be thoroughly cleaned before transferring wood products to the site (WSFC 2808.2).
- Piles shall not exceed 25 feet in height, 150 feet in width and 250 feet in length. Stackable products shall not be stacked in excess of 25 feet in height, 80 feet in width and 250 feet in length (WSFC 2808.3).
- Piles or stacked product shall be separated from buildings, property lines and adjacent piles or stacks by a distance of not less than one and one-half times the height of the pile or stack. The distance between rows shall be a minimum of 30 feet. Approved fire apparatus access roads shall be provided within the separation space in accordance with WSFC 503 (WSFC 2808.4).
- Storage, accumulation and handling of combustible materials and control of vegetation shall comply with WSFC Chapter 3 (WSFC 2808.5).
- Static piles shall be monitored by an approved means to measure temperatures within the static piles. Internal pile temperatures shall be monitored and recorded weekly. Such records shall be maintained. An operational plan indicating procedures and schedules for the inspection, monitoring and restricting of excessive internal temperatures in static piles shall be provided (WSFC 2808.6).
- Automatic sprinkler protection shall be provided in conveyor tunnels and combustible enclosures that pass under a pile. Combustible conveyor systems and enclosed conveyor systems shall be equipped with an approved automatic sprinkler system (WSFC 2808.7).
- Portable fire extinguishers complying with WSFC 906 and with a minimum rating of 4-A:60-B:C shall be provided on all vehicles and equipment operating on piles and at all processing equipment (WSFC 2808.8).
- Approved material-handling equipment shall be available for moving wood chips, hogged material, wood fines and raw product during fire-fighting operations (WSFC 2808.9).

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: _____