



CAPITAL CITY FIRE RESCUE

Division of Fire Prevention
820 Glacier Ave, Juneau, Alaska

SPRAY BOOTH/FINISHING OPERATIONS

This handout provides some of the basic regulations governing the operation of **Automobile Paint and Body Shop Occupancies**. It is not possible to cover all regulations. If you have a particular question or concern, please contact the CBJ Fire Marshals Office. The initial inspection is conducted at no charge.

There is a CBJ Permit required for the application of flammable spray finishes or to operate a spray booth within the CBJ. The permit is obtained through Community Development with the Fire Departments approval. There is a \$50.00 charge for the permit to be issued.

1. Permits

A. A valid certificate of occupancy from the Building Department is required on all occupancies. The Certificate of Occupancy must be appropriate for the type of work the occupancy is conducting. *Spray finishing in A, E, I or R Occupancies must be conducted in an approved booth or room with an approved suppression system and occupancy separation.*

B. A permit from the Fire Department is required to install/operate a spray booth or room with an approved automatic fire-extinguishing system. Spray booth or room and fire-extinguishing system must be inspected and approved by the Fire Department.

C. Permit is required for welding and cutting operations, spraying or dipping operations, and storage or use of flammable and combustible liquids. Other permits may be required. Contact Capital City Fire-Rescue for more information. 586-5322

2. Spray Booth Requirements

A. Constructed of steel not less than 18 gauge or other approved noncombustible materials.

B. Area not exceeding 1500 sq. ft.

C. Smooth and continuous interior surfaces.

D. Noncombustible floors.

E. Be separated from other operations by not less than 3 feet, or by a wall or partition.

F. All portions of the booth readily available for cleaning by an obstructed space of not less than 3 feet.

G. Light fixtures which transmit light into the booth shall be heat-treated or hammered wire glass.

H. Exit doors not less than 2 feet 6 inches by 6 feet 8 inches.

I. Visible gauges or audible alarms that indicate when the air velocity in the booth is less than 100 lineal feet per minute.

J. Approved noncombustible filters. (HVAC filters are not approved.)

K. Approved mechanical ventilation system designed to produce an average air velocity not less than 100 lineal feet per minute.

L. Fan motors and belts which are placed outside the booth or ducts. Fan blades shall be non-ferrous or non-sparking.

M. Ducts which exhaust to the building's exterior and are constructed of approved materials.

N. Equipped with an approved automatic fire-extinguishing system (required for new and existing spray booths).

O. Discharge vents must terminate in an approved location.

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3. Signage

- A. Post “No Smoking” signs in spray-finishing areas and in the vicinity of dip tanks.
- B. Post the following warning signs in the vicinity of spraying areas, dipping operations and paint storage rooms:

“NO WELDING THE USE OF WELDING OR CUTTING EQUIPMENT IN OR NEAR THIS AREA. THIS AREA IS DANGEROUS BECAUSE OF FIRE AND EXPLOSION HAZARDS. WELDING AND CUTTING SHALL BE DONE ONLY UNDER THE SUPERVISION OF THE PERSON IN CHARGE.”

4. Flammable Liquids

- A. Liquids with a flashpoint below 100 degrees Fahrenheit **are prohibited for general cleaning purposes.**
- B. Store quantities in excess of 10 gallons must be in approved containers or UL Listed or approved flammable liquid lockers.
- C. Maximum quantities of allowable flammable liquids is determined by the type of storage, square footage, suppression systems and fire separation areas.
- D. Flammable liquids shall not be stored near exit doorways, stairways, or other locations that would impede egress.
- E. Prohibit dispensing by gravity flow.
- F. Prohibit sources of ignition.
- G. **Flammable spray finishes may not be applied outside of an approved spray booth or room.**
Exception, Items less than 9 sqft may be sprayed out side of the booth under specific conditions.
- H. MSDS Sheets are required to be on site.
- I. Storage in excess of 10 gallons of flammable liquids requires a storage plan to be maintained on site.

5. Exit Ways

- A. Doors must be unlocked and unblocked.
- B. Required width of an exit way must be unobstructed.
- C. Signs must be illuminated.

6. Fire Lanes and Access

- A. Fire Lanes are required to provide access to within 150 feet of all exterior portions of the building.
- B. Fire lanes are to be properly marked and clear of obstructions at all times.
- C. Limited access control gates installed across fire lanes must meet requirements of the International Fire Code.

7. Fire Extinguishers

- A. Typically, one 4A-40BC extinguisher required for every 1,000 sq. ft. Special hazards may have additional requirements.
- B. Mounted in conspicuous accessible locations.
- C. Inspected for proper maintenance annually by licensed individuals.
- D. Must be recharged following use.

8. Fire Alarm/Detection Systems

- A. Installed in accordance with the International Fire Code and NFPA 72.
- B. All systems are required to be maintained in an operative condition at all times, and replaced or repaired when defective. Immediately notify Capital City Fire Rescue at 586-5322 if fire alarm system becomes non-operational.
- C. Written operating instructions provided and maintained at an approved location.
- D. Manual alarms and smoke alarms should be tested at least annually, and/or after modification.

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9. Sprinkler Systems

- A. Sprinkler systems must be maintained in approved working condition. Immediately notify Capital City Fire Rescue at 586-5322 if sprinkler system becomes non-operational.
- B. Identify controls, drains, and test control valves with approved signage.
- C. Access to valves and/or fire department connections cannot be obstructed.
- D. A sprinkler wrench is required. Spare sprinkler heads of the same types and ratings in the building system are required as follows:
 - (1) Less than 300 system heads, a minimum of 6 spare heads.
 - (2) 300 to 1000 system heads, a minimum of 12 spare heads.
 - (3) Over 1,000 system heads, a minimum of 24 spare heads.
- E. Maintain an 18-inch clearance between sprinkler heads and storage.
- F. A sprinkler system test is required annually.
- G. All automatic fire suppression systems are required to be inspected by a state certified contractor annually.**

10. Miscellaneous

- A. Provide metal cans for oily rags and waste. Empty cans at least once daily.
- B. Maintain a 24-inch clearance between storage and ceiling.
- C. Provide metal covers for all electrical panels, outlets, boxes, and junctions.
- D. Extension cords shall not be utilized in place of permanent wiring.
- E. Post a correct address visible from the street. In complexes with multiple buildings, each building must be designated.**
- F. Secure compressed gas cylinders in an upright position.
- G. Gas powered appliances must be properly vented to the outside, have approved flex-type connections, and cut-off valves.
- H. Portable electric lamps, kerosene heaters, other heating devices in the spraying area must be approved for hazardous locations.
- I. Keep spray area free of accumulations of combustible residues. Cleaning tools should be constructed of non-sparking materials.
- J. Smoking is not permitted in the shop area.
- K. Combustible waste is not permitted to accumulate.