

Spray Booths Checklist

Scope

This checklist pertains to the installation of a Spray Booth. Provide a description of activity, materials to be sprayed or applied and method of application. Be specific.

General

- Name of project, project location, including street address,
- Contact name, address, telephone/fax numbers, and Washington State Contractor's license number,
- Hazardous Materials Inventory Statement,
- Four copies of drawings,
- Four copies of specification sheets for all pre-manufactured components.

Working Drawings

Site Plan:

- Appropriate scale,
- Position of building on the property and location of work,
- Include elements required by IFC 1504.3.2.6.

Floor Plans:

- 1/8" = 1',
- Specify the use and size of all rooms,
- Show the location, size, door swing for all required exits,
- Show location and specify dimensions of proposed spray booth,
- Show location and specify dimensions of existing spray booths,
- All requirements of this checklist that is applicable.

PROJECT NAME

Protection of Operations

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Identify electrical wiring and equipment in flammable vapor areas. Identify as Class I, Division 1 or Class II, Division 1 hazardous locations in accordance with the 2008 National Electrical Code. 500.5 |
| <input type="checkbox"/> | <input type="checkbox"/> | Identify electrical equipment located in flammable vapor areas or drying operations that are subject to splashing or dripping of liquids. IFC 1503.2.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | Identify electrical wiring and equipment located outside of, but within 5 feet (1524 mm) horizontally and 3 feet (914 mm) vertically of openings in a spray booth or a spray room, as Class I, Division 2 or Class II, Division 2 hazardous locations, whichever is applicable. IFC 1503.2.1.3 |
| <input type="checkbox"/> | <input type="checkbox"/> | Identify electrical equipment in flammable vapor areas located such that deposits of combustible residues could readily accumulate thereon. IFC 1503.2.1.4 |
| <input type="checkbox"/> | <input type="checkbox"/> | Identify open flames and spark-producing devices located in flammable vapor areas, include permanent partitions. IFC 1503.2.2 |
| <input type="checkbox"/> | <input type="checkbox"/> | Identify heated surfaces having a temperature sufficient to ignite vapors shall not be located in flammable vapor areas. IFC 1503.2.3 |

- Identify enclosures for equipment or apparatus that is capable of producing sparks or particles of hot metal that would fall into a flammable vapor area. IFC 1503.2.4
- Identify grounding of metallic parts located in resin application areas, including but not limited to exhaust ducts, ventilation fans, spray application equipment, work pieces and piping. IFC 1503.2.5
- Identify the location of "No Smoking" signs complying with Section 310. IFC 1503.2.6
- Identify the location of conspicuous signs meeting the requirements of IFC 1503.2.7 in the vicinity of flammable vapor areas, dipping operations and paint storage rooms. IFC 1503.2.7
- Identify locations where powered industrial trucks will travel. IFC 1503.2.8
- Identify the type, size and location of containers supplying spray nozzles. IFC 1503.3.1
- Identify shutoff valves for containers and piping to which a hose or flexible connection is attached. IFC 1503.3.2
- Identify the location of relief valves for discharging pump discharge lines to pump suction or a safe detached location where flammable or combustible liquids are supplied to spray nozzles by positive displacement pumps. IFC 1503.3.3
- Identify the grounding of containers where a flammable mixture is transferred from one portable container to another. IFC 1503.3.4
- Identify the Class I liquids used as solvents in spray gun and equipment cleaning machines. Provide specifications that it has been listed and approved for such purpose. IFC 1503.3.5
- Identify the location of cleaning machines for spray guns and equipment. Identify the listed spacing from ignition sources. IFC 1503.3.5.1

- Identify the class of all solvents used outside of spray booths, spray rooms or listed and approved spray gun and equipment cleaning machines. IFC 1503.3.6
- Identify compliance with IFC Section 3405.4 for Solvent distillation equipment used to recycle and clean dirty solvents. IFC 1503.4.4

Design and Construction

Yes No

- Provide specifications for the booth materials. IFC 1504.3.2.1
- Illustrate the interior surfaces of spray booth. IFC 1504.3.2.2
- Identify the construction of the floor. IFC 1504.3.2.3
- Identify the means of egress. Illustrate the door and locking hardware complying with IFC Chapter 10. 1504.3.2.4
- Illustrate the clear space around the booth. IFC 1504.3.2.5
- Document the aggregate area of spray booths in the building. IFC 1504.3.2.6

Fire Protection

Yes No

- Identify that spray booths and spray rooms are protected by an approved automatic fire-extinguishing system complying with IFC Chapter 9. 1504.4
- Identify the location and size of portable fire extinguishers complying with IFC Section 906. 1504.4.1

Sources of Ignition

Yes No

- Identify the location of fixed drying apparatus. IFC 1504.6.1.2
- Identify the presence and configuration of interlocks for spraying apparatus, drying apparatus and ventilating system. IFC 1504.6.1.2.1
- Identify the electrical hazard class, division, bonding, and grounding for portable infrared drying apparatus used within 18 inches of floor level. IFC 1504.6.1.2.2

- Identify the luminaries for use through glass panels or other transparent materials. IFC 1504.6.2
- Identify the type and sealing of glass panels for luminaries. IFC 1504.6.2.1
- Identify all luminaries attached to the walls or ceilings of a flammable vapor area, but outside of any classified area and separated from the flammable vapor areas by vapor-tight glass panels. IFC 1504.6.2.2
- Identify all luminaries that are an integral part of the walls or ceiling of a flammable vapor area. Provide the listing for the luminaries. IFC 1504.6.2.3
- Identify the location of all portable electric lamps. IFC 1504.6.2.4

Ventilation

Yes No

- Identify the presence of mechanical ventilation that is interlocks in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and the configuration of interlock with spraying equipment. IFC 1504.7.1
- Identify the use of recirculating exhaust systems and the compliance with IFC Section 1504.7.2.
- Identify the average air velocity over the open face of the booth, or booth cross section in the direction of airflow during spraying operations. IFC 1504.7.3
- Identify the configuration of all exhaust duct systems. IFC 1504.7.5
- Identify the termination point for exhaust ducts discharging to the atmosphere to include distances to property lines, opening into buildings, exterior walls, roofs, and adjoining grades, if applicable. IFC 1504.7.6
- Identify the location of electric motors driving exhaust fans, type or lining of fan rotating elements, and belt orientation to exposure to the duct. IFC 1504.7.7

- Provide specifications for air intake filters that are part of a wall or ceiling assembly and identify all intake and exhaust filters. IFC 1504.7.8
- Identify the construction material for supports and holders for filters. IFC 1504.7.8.1
- Identify the method of attachment of overspray collection filters. IFC 1504.7.8.2
- Identify the location and specifications of all visible gauges, audible alarms or pressure-activated devices. IFC 1504.7.8.3
- Identify if the spray booth is equipped with a filter roll that is automatically advanced when the air velocity is reduced to less than 100 feet per minute. Identify the interlock configuration in cases that the filter roll fails to advance automatically. IFC 1504.7.8.4
- Identify if all spraying materials that are highly susceptible to spontaneous heating and ignition. An example of a potentially reactive combination includes lacquer when combined with varnishes, stains or primers. IFC 1504.7.8.6

Interlocks

Yes No

- Identify the presence and configuration of interlock features for automated spray applications that will, upon discharge of the automatic fire-extinguishing system, automatically stop the spraying operations and work piece conveyors into and out of the flammable vapor areas. Indicate that the activation of the extinguishing system will be connected to the buildings fire alarm system. IFC 1504.8.1
- Identify the presence, location and specifications for a manual fire alarm and emergency system shutdown station to serve each flammable vapor area. IFC 1504.8.1.1 & 1504.8.1.2

**PLEASE READ THE INFORMATION BELOW AND
SIGN BEFORE SUBMITTING YOUR APPLICATION**

Your application shall be deemed complete only if this checklist is completed and submitted along with the submittal package. Submittals not accompanied by a checklist will not be accepted. Accuracy of the submittal package, including this checklist, is the responsibility of the applicant. Failure to submit an accurate submittal package will be considered an incomplete application by the Plan Reviewer. An incomplete submittal will result in a HOLD. A Resubmittal (new submittal package) will be required and always results in a delay.

I have checked the applicable boxes and have included those requirements in my submittal.

Print Name

Signature