



Celina Fire Department

1413 S. Preston Road, Celina, TX 75009 972-382-2653

Paint Spray Booths and Spray Rooms

These guidelines are to be followed when a business proposes to perform spray finishing operations using flammable/combustible liquids within a Spray Booth or Spray Room.

Fee: \$150 per system. The plans may be forwarded to a third party plan reviewer. If so, the contractor will be notified of the plan reviewer and the cost for plan review.

General Requirements

- 1) In A, E, I or R occupancies, all areas used for spray finishing shall be protected with an approved automatic sprinkler system and separated from other areas in accordance with the 2012 International Building Code (IBC).
- 2) All spray booths and spray rooms shall be protected by an approved automatic fire suppression system in accordance with IFC Chapter 9.
- 3) Fire extinguishers shall be provided in accordance with IFC Section 906 for an extra (high) hazard occupancy.

Spray Booth Requirements

- 4) Design and construction of the spray booth shall be in accordance with IFC 2404 and NFPA 33. At a minimum spray booths shall be constructed of approved noncombustible materials in accordance with Section 2404.3.2.1.
- 5) All surfaces shall be smooth and continuous, permit the free passage of exhaust air and shall be designed to confine any residue within the booth.
- 6) Flooring shall be non-sparking and non-combustible.
- 7) Area of the spray booth shall not exceed 1,500 sq. ft., 10 percent of the floor area, of a single booth of 500 sq. ft.
- 8) Minimum of 3 foot clearance is required around all sides of booth.
- 9) Lighting and illumination within the spray booth shall be Class 1, Division 2 or Class 2, Division 2.
- 10) Electrical wiring and equipment interior to the spray booth and paint mixing room shall be Class I, Division 1 or Class II, Division 1.
- 11) Electrical wiring and equipment outside of the spray booth, 5 feet horizontally and 3 feet vertically shall be Class I, Division 2 or Class II, Division 2
- 12) Upon activation of the fire suppression system, the spray/drying operations shall be shut-off.
- 13) Interface to the main building FACP, if provided, that will automatically shut-off the spraying and cooking operations upon fire alarm system activation.
- 14) Interlocks shall be provided to: 1) prevent spraying while drying operations are in progress, 2) automatically shunt the drying operation upon a ventilation failure, and 3) shunt the drying operation if the temperature exceeds 200 degrees.
- 15) Emergency controls for the spraying and cooking operations shall be interfaced into the

FACP.

- 16) A minimum of one (1) manual fire alarm and emergency system shutdown shall be readily accessible to personal within the area of the spraying operations.
- 17) Appropriate labeling and signs in accordance with IFC Section 2403.2.6 & 2403.2.7, must be provided;
 - a) "Smoking or Open Flames Prohibited".
 - b) "No Welding" See IFC Section 2403.2.7 for required wording.
 - c) A placard specifically identifying the flammable/combustible material therein. An NFPA 704 placard may be required.
- 18) Ventilation for the spraying and drying operations shall be in accordance with Section 502.7 of the 2012 International Mechanical Code and IFC 2404.7.
- 19) The Class 1 oven for the drying operation, if provided, shall meet the requirements of the IMC.
- 20) A minimum air velocity of 100 feet per minute shall be provided across the spray booth cross section during operation.
- 21) Provide a manometer to measure the airflow.
- 22) Air exhausted from spray operations shall not be recirculated.
- 23) Termination points for the exhaust ducts shall be in accordance with IFC Section 2404.7.6.
- 24) Air filters shall be Class 1 or 2 IAW UL 900.
- 25) Provide the total amount of flammable/combustible paint materials to be within the paint mixing or storage room.
- 26) Illumination of the spray booth shall be in accordance with Section 2404.6.2.
- 27) All electrical wiring shall be in accordance with NFPA 70 and NFPA 33.
- 28) Any other requirements of the 2012 IMC, 2012 IBC and 2012 IFC Chapter 24, not listed within this guideline shall also be met.

Spray Room Requirements

- 29) When approved, spray rooms shall be constructed in accordance with the IBC. Flooring shall be non-sparking and non-combustible. All walls, floors and ceilings shall be protected by minimum 1-hour rated construction.
- 30) All of the above requirements shall also apply to spraying rooms unless otherwise noted in the IFC Section 2404.

To expedite the plan review and inspection processes, please refer to the information listed below.

Submittal Requirements

- 31) The submittal package must include all above requirements and such requirements shall be identified in the submittal package.
- 32) Provide a written description of the operation of the spray finishing and any associated system(s).
- 33) Plan drawings of the installation location and layout, to include;
 - a) Location(s) of spray booths, paint mixing/storage areas/rooms, and ovens in relation to all other interior rooms and equipment. Plan shall be dimensioned.
 - b) Location of all exits.

- 34) Manufacturer documentation for all parts and materials used in the project, this is to include all UL, or NRTL, listings.
- 35) Plan drawings shall show the actual install layout, including all piping and pumps.
- 36) Plan drawings shall show both plan view, section view, and other pertinent information.
- 37) Plan drawings shall be generated by the installing company, architect or other designated party, and shall not be copied and marked according to installation.

- 38) No paint spray booth, paint mixing room, industrial oven or spray room shall be constructed, moved or otherwise manipulated on site until the Fire Department has issued a permit for construction. Any work performed prior to the issuance of this permit may result in a citation being issued for violation of Section 105.6.16 of the 2012 International Fire Code.

General Submittal Requirements

- 39) Installation, fabrication or otherwise construction of the system is prohibited without approved plans and permit.
- 40) Each submittal shall have a completed Celina Fire Department Plan Review Permit Application.
- 41) Plans approved by the Fire Marshal's Office give authorization for construction. Final approvals are subject to field verification. Any approval issued by the Fire Marshal's Office does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances relating to the construction project.
- 42) All installations must concur with the approved plans. Any deviation from the approved plans requires a re-submittal to the Fire Marshal's Office.
- 43) All fire department inspection forms and permits shall be kept in a permit packet on the job site until final inspection.

All requirements for the purposes of this guideline and any other guidelines or requirements of the Celina Fire Department shall conform to NFPA 33 and the 2012 International Fire Code, as adopted and amended by City of Celina.

This guide does not replace, nor supersede any codes and/or ordinances adopted by the City of Celina, or determinations and positions of the Fire Chief or Fire Marshal.

Permit Application Form

Permit Type _____

Date: _____ Location: _____

Applicant/Company Name: _____

Address: _____

City: _____ State: _____

Phone: _____

(Applicant Signature)

(Date)

Fee Received/Amount: _____ Date Received: _____

Permit expires on _____
(Date)

(City of Celina Official Signature)

(Date)