



EULESS FIRE DEPARTMENT FIRE MARSHAL'S OFFICE

EFD-FMO 20-1
2003 Edition
International Fire
Code As Amended

INFORMATION LINE:

Spray Booths

Revised 8/04

Fire Chief Lee Koontz

Fire Marshal Paul Smith

NFPA Standard 33
NFPA Standard 70
NFPA Standard 13

BASIS FOR REQUIREMENTS

- Adopted edition of the International Fire Code and revised deletions or additions.
- Adopted edition of the International Building Code and revised deletions or additions.
- Adopted edition of the International Mechanical and Plumbing Codes and revised deletions or additions.
- Nationally recognized NFPA standards.
- Manufacturer specifications and recommendations of commercial spray booths.
- Policy and procedures of the Euless Fire Marshal's Office.

MINIMUM SPECIFICATIONS FOR SPRAY BOOTHS AND SPRAYING ROOMS

OBTAINING PERMIT

Prior to issuance of any permit, an applicant must provide a blueprint quality drawing to scale indicating size of spray booth or spraying area, location within room area, or place of building. The submittal must include the manufacturer's specifications, if applicable, and responsible party for the installation or construction of the spray booth or area.

Submittal agency should allow a minimum of seven (7) working days for review of plans prior to permit issuance.

Questions should be directed to 817-685-1600.

MINIMUM REQUIREMENTS

- Spray booths shall be substantially constructed of steel not less than No. 18 gauge (.044 inch) in thickness or other approved noncombustible materials.
- The area of a paint spray booth shall not exceed fifteen hundred (1,500) square feet nor ten (10) percent of the basic area permitted for the major use of the building as set forth in Table No. five-C (5-C) of the 2003 International Building Code.
- The interior surfaces of spray booths shall be smooth and continuous without edge and otherwise designed to prevent pocketing of residue, to permit the free passage of exhaust air from all parts of the interior and to facilitate washing and cleaning without injury.
- The floor shall be of noncombustible material or shall be covered with a noncombustible, non-sparking material of such character to facilitate the safe cleaning and removal of residue.
- If installed, baffle plates shall be of a noncombustible material readily removable or accessible to facilitate cleaning and designed to provide an even flow of air through the booth and to prevent the deposit of overspray before it enters the exhaust duct. Such plates shall not be installed in the exhaust ducts.
- Each spray booth having a frontal area of more than nine (9) square feet and which is not equipped with doors shall have a metal deflector or fire curtain not less than four and one-half (4 ½) inches deep installed at the upper outside edge of the booth over the booth opening.
- Each spray booth shall be separated from other operations by not less than three (3) feet or by a wall or partition or by a greater distance as the Fire Marshal or his designated representative may require.
- All portions of a spray booth shall be readily available for cleaning, and a clear space of not less than three (3) feet shall be kept free of storage or combustible materials.
- When spray booths are illuminated, it shall be done through heat-treated or hammered wire glass. Fixed lighting units only shall be used as a source of illumination and panels shall be arranged so as to minimize breakage and so that normal accumulation of residue on the exposed surface of the panel will not be raised to a dangerous temperature by radiation or conduction from the source of illumination.

ELECTRICAL

All electrical wiring and equipment shall be of explosion proof design conforming to that which is required and outlined in the NFPA Standard No. 70, the National Electric Code and NFPA Standard No. 33.

VENTILATION OF SPRAY BOOTHS

All spray areas shall be provided with mechanical ventilation adequate to prevent the dangerous accumulation of vapors.

FIRE PROTECTION EQUIPMENT

All spray booths or spray rooms shall be protected by an approved automatic fire extinguishing system.

Spray booths protected with water sprinkler systems may be connected to the domestic water supply subject to the following:

- Existing domestic water supply system can meet hydraulic calculations as specified by manufacturer to provide adequate water supply and pattern distribution in addition to normal occupancy demand.
- Domestic water system is protected with a back flow preventer to protect against system contamination.

NOTE: Water systems not adequate to meet connection to domestic water supply will be required to provide an additional water tap dedicated for spray booth protection.

Alternate protection to automatic sprinkler systems (water application) may be extinguishing systems conforming to NFPA Standard No. 17 (dry chemical systems) or NFPA Standard No. 12 (carbon dioxide systems).

PORTABLE FIRE PROTECTION

Portable fire protection shall conform to NFPA Standard No. 10 and minimum requirements as established by City of Euless Fire Marshal's Office policy and procedures.

Normal situations shall be required a minimum of one (1) ten (10) pound ABC fire extinguisher (4A-40BC rated).