

## Information Bulletin

# Painting, Coating Types of Operations

Painting and Coating Operations are considered, but not limited to:

Spray Painting

Dipping

Fiberglass

Mixing / Manufacturing

Hand Lay-up / Painting

Coating

Injection Molding

Storage / Handling

and various processes that involve the use, application, storage, handling of toxic, hazardous, flammable, combustible materials, liquids, solids and gases.

These types of operations/processes are considered “HIGH HAZARD - F1” occupancy classification by the Manitoba Building Code and Manitoba Fire Code.

### Design requirements to be considered using (but not limited to):

1. Manitoba Building Code
2. Winnipeg Building By-law
3. The Winnipeg Electrical By-law
4. Manitoba Fire Code
5. NFPA Standard 33 or 34
6. NFPA Standard 13 (or type of fire suppression used)
7. NFPA Standard 68 (if required, explosion venting)
8. Manitoba Labour & Immigration, Workplace Safety and Health

The Engineer/Architect should indicate that items number **1** to **8** have been reviewed, considered and discussed (with client), addressed and incorporated in the design, plans and specifications.

A building permit is required for the installation, construction, alteration or extension of any painting or coating operation or related process. In order to obtain a building permit, the applicant is required to submit two (2) copies of the documents listed below.

**NOTE:** In addition to the building permit, electrical and mechanical trade permits must also be obtained by the licensed trade contractors.

The following requirements address “*spray painting operations*” but are relevant to all of the above mentioned operations regardless of size, complexity, etc.

### **General**

- A completed Commercial Alteration Design Summary (CADS).
- An Owner Statement (OS) completed and signed by the building owner.

### **Building**

- Detailed, dimensioned plans showing the location of the paint spray operation. (see Page 3 for example)
- The plans must include:
  - A building layout showing the entire floor area – a partial plan will not be accepted although one may be provided to supplement the complete plan.
  - Exit locations, door swing and egress routes.
  - A code summary of the building indicating occupancy classification, area, whether sprinklers have or have not been provided, etc. (A building change of use may require the involvement of a design professional.)

### **Mechanical**

- Engineered mechanical plans including the paint spray ventilation system (intakes, outlet discharge, etc.).
- Engineered shop drawings of prefabricated spray booths (if applicable).
- Engineered fire suppression system shop drawings that are sealed, signed and dated.
- Mechanical Design Summary completed by the engineer(s) responsible for the HVAC & fire suppression installations. (Available under Forms and Documents at [winnipeg.ca/ppd/InfoCentre/MechanicalAndPlumbing/default.stm](http://winnipeg.ca/ppd/InfoCentre/MechanicalAndPlumbing/default.stm)).

### **Electrical**

- An engineered report or plan indicating the locations and classifications of the electrically hazardous locations and compliance of the electrical installation with same.
- Electrical Design Summary completed by the responsible engineer. (Available under Forms and Documents at [winnipeg.ca/ppd/InfoCentre/Electrical/default.stm](http://winnipeg.ca/ppd/InfoCentre/Electrical/default.stm)).

### **Fire Department**

- An engineered letter or report detailing the Manitoba Fire Code and NFPA 33 or 34 requirements, as applicable.

Professionals sealing the above required documents must be licensed to practice in the Province of Manitoba.

## TYPICAL FLOOR PLAN

