

# Hazardous Area Dossier.

## Spray booth safety and compliance

Painting or lacquering operations are some of the many hazardous situations undertaken in motor repair facilities. In order to minimise risks, and control the explosive atmospheres surrounding these types of surface treatments, their application should be carried out in isolated spray booths.

Spray booths deserve special attention in relation to fire hazard due to the accumulation of volatile organic compounds. E.g. Paints, solvents and lacquers are all toxic and flammable materials used in spray painting. An additional hazard is the presence of gas burners and compressors for regulating the temperature inside the booth, the pressure required by the equipment and the flammable products being used. Spray booths are typically protected with an automatic sprinkler system.

### Spray booth dossier

Maintaining a dossier is considered best practice spray booth management and is something that should be kept up-to-date by all companies operating booths. At a minimum, the dossier should include at least the following 10 points of significant information:

1. Description – a description of what the dossier covers.
2. Reference documents – regulations and standards that the equipment has been built to.

3. Site layout – plans of the whole site showing equipment, exit paths and evacuation assembly points.
4. Operating instructions – for the equipment that has been installed.
5. Wiring diagrams – for the equipment that has been installed.
6. Heating – specifications of heating equipment that has been installed.
7. Inlet filter and exhaust filter fact sheets – specifications and documentation for inlet and exhaust filters.
8. Pressure manometer – showing operating pressure in the spray booth cabin.
9. Maintenance and repair – all records of servicing and repairs to the equipment.
10. Certification – Certificate of Compliance on completion of the installation, Record of Inspection and certificates of re-inspection. Plus, copies of local council permits and consents.

### Spray booth construction

**AS/NZS 4114.1:2003** is the joint Australian and New Zealand Standard for spray painting booths, designated spray painting areas and paint mixing rooms. The scope of this standard covers the design, construction and testing of spray booths.

Spray booths should be constructed of steel, concrete, masonry or other non-combustible material. In order to meet all requirements of the Standard, the structure needs to be adequately supported to ensure stability and designed to sweep air currents toward exhaust outlets.

Please note: AS/NZS 4114.1:2003 is now superseded by NZS4114.2020