



REGULATORY COMPLIANCE: SPRAY ENVIRONMENTS

Application: Professional Spray Booths & Paint Mixing Rooms

Primary Material: 650gsm Reinforced PVC

Vision Panels: 0.5mm / 0.75mm Fire-Rated Clear PVC

1. AIRBORNE CONTAMINANT & LEV COMPLIANCE

Spray environments must maintain a precise seal to ensure Local Exhaust Ventilation (LEV) systems function within **COSHH (Control of Substances Hazardous to Health)** guidelines.

- **Airtight Structural Integrity:** Our 650gsm PVC is non-porous and utilizes High-Frequency (HF) welded seams. This solves the problem of "fugitive emissions" escaping the booth, ensuring 100% of overspray is directed toward filtration.
- **Static Pressure Maintenance:** The material's high tensile strength (~2300 N) ensures the booth walls do not collapse or bow excessively under high-volume air extraction, maintaining the constant airflow required for regulatory compliance.
- **Isocyanate Resistance:** The lacquer coating is engineered to withstand exposure to isocyanates and solvents, preventing material degradation that could lead to leaks in the containment boundary.

2. ATEX & ANTI-STATIC CONSIDERATIONS

In environments where flammable vapours are present, the buildup of static electricity on plastic surfaces poses a significant ignition risk.

- **Anti-Static Formulation:** Both our 650gsm body material and our 0.5mm/0.75mm clear vision panels are available with **anti-static surface treatments**. This solves the problem of static discharge (sparks) in volatile "Zone 1" or "Zone 2" environments.
- **Dust Repulsion:** The anti-static properties also prevent the attraction of fine dust and particles to the screen surface. This ensures a cleaner spray finish and reduces the frequency of maintenance, aligning with quality control regulations.

3. HEALTH & SAFETY REGULATION SUMMARY

Regulation	Compliance Status	Technical Application
COSHH (LEV)	Fully Compliant	Maintains airtight seal for effective vapour extraction.
ATEX (Static)	Certified Option	Prevents electrostatic discharge in explosive atmospheres.
REACH	Compliant	Free from hazardous phthalates and restricted chemicals.
HSE G402	Aligned	Supports the containment and control of hazardous substances.

4. OPTICAL MONITORING & SUPERVISION

Regulatory safety standards require that operators inside a spray booth are visible to external supervisors at all times.

- **Optical Class 1 Windows:** Our 0.5mm and 0.75mm clear panels provide distortion-free monitoring. This solves the safety risk of "blind spots," allowing for immediate intervention if an operator becomes distressed or an equipment failure occurs.
- **UV Shielding:** The panels are UV-stabilized to prevent the yellowing and clouding that occurs with standard plastics, ensuring that the visual safety link remains clear for the full lifespan of the booth.

Envirazone Technical Support

Spray Environment Compliance | Health & Safety Verification | info@envirazone.co.uk