

	Spraybooth information	
Site: IRG Wolverhampton	Project Ref: STL1404	
By: Teodor Cristurean	Booth Type: STL Spraymate	

Spraybooth description

The STL automotive spray booth is a fully enclosed and insulated environment, designed to facilitate the safe and controlled repainting of motor vehicles. The Spraybooth works as a system providing filtered and heated air into an insulated cabin where the painting operation is carried out. The excess fumes and paint particles produced during the paint operation are filtered before being safely discharged into the atmosphere at a height determined by the process guidance note PG6/34(11) Statutory guidance for the re-spraying of road vehicles.

The STL Spraybooth system comprises of the following key components:

- Fully sealed and insulated cabin space.
- High volume air handling plant including heating via gas burner.
- 630mm inlet and extract fan systems.
- Inlet and extract filtration media.
- Galvanised steel ducting systems.
- LED lighting for optimum painting conditions.
- STL ECO technology for reduced energy consumption.

Ducting

The Spraybooth consist of two ducts, one inlet and one extract, both ducts are 630mm in diameter and are manufactured from galvanised steel. The inlet duct penetrates the rear wall of the building at a height of 4.5m and is terminated horizontally with a meshed bird beak. The extract duct also penetrates the rear wall of the building at a height of 4.5m and then turns through 90 degrees and travels vertically up the rear wall of the building until it reaches 3m above the roof ridge, terminating with an accelerator cone to achieve the correct efflux velocity of over 15m/s expelling paint process emissions into the atmosphere as set out in the Process guidance note pg6/34.

Conformity

The spraybooth will be designed and installed to comply to:
BS EN 16985:2018. Spraybooths for organic coating materials
PG6/34(11) Statutory guidance for re-spraying of road vehicles