

CASE STUDY

Aerospace Company 3

Rapid Deployment Paint Booth for Reusable Rocket Manufacturing

Location: USA | Sector: Aerospace |

Project Overview

A reusable rocket manufacturer, required a paint booth solution to support coating operations during the production of rocket components, including spray-on foam insulation (SOFI) and other aerospace coating processes. A critical requirement was speed. The booth needed to be operational in an extremely short timeframe to keep the manufacturing schedule on track.

The Challenge

- Extremely tight timeline to achieve operational status
- Large aerospace components requiring a spacious enclosure
- Management of exothermic spray processes including SOFI application
- New roof system on facility and penetrating the roof for ventilation would void the building warranty

The Solution

Duroair engineered and delivered a 15'H x 30'W x 35'L DuroRoom™ retractable enclosure designed for rapid deployment. Because standard filtration equipment could not be delivered within the compressed timeline, Duroair's team custom-designed the enclosure to integrate with third-party exhaust equipment, enabling immediate operation. Following installation, when the third-party system proved insufficient, Duroair supplied a DuroPure™ recirculating filtration system eliminating roof penetrations while safely managing all airborne contaminants. Additional upgrades recommended by Duroair's installation team were subsequently added, including C1D1 lighting and V-Groove track and wheel systems.

System Specifications

Enclosure	15'H x 30'W x 35'L DuroRoom™ Retractable
Filtration	DuroPure™ Recirculating (upgraded from third-party exhaust)
Special Features	C1D1 Lighting, V-Groove Track & Wheel System
Roof Penetrations	None required and building warranty preserved

The Result

✓	Rapid deployment booth operational within required project timeline
✓	Safe containment of all aerospace coating processes including SOFI
✓	Zero roof penetrations building warranty fully preserved
✓	Ongoing partnership subsequent orders for accessories and upgrades placed
✓	Scalable system upgrade path supported evolving manufacturing requirements

Why This Project Matters

This installation demonstrates Duroair's ability to:

- Deliver solutions under extremely compressed timelines
- Engineer systems adaptable to evolving aerospace manufacturing needs
- Integrate with third-party equipment when circumstances require
- Provide long-term upgrade paths as operations grow and scale
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