



**Contractor:**  
**Regan Flooring Ltd**  
Flooring, Carpet & Wall Cladding Specialists

**Consultant:**  
**gleeds**<sup>G</sup>

**Client:**  
**NHS**  
Croydon Health Services  
NHS Trust

**Location:**  
Croydon, South London



### Featured Product Range:



Dustex®  
Dust Control

## Dust Controlled Successfully During a Flooring Refurbishment Project at Croydon University Hospital

### Project Overview

Croydon University Hospital is the main Croydon Health Services hospital site, based just north of Croydon town centre. It has a 24 hour Accident & Emergency Department, Maternity Unit, Neonatal Unit, Intensive care and high dependency units, as well as various operating theatres. The hospital has more than 500 beds and annually provides services for:

- 27,000 elective (planned) in-patients
- 350,000 out-patients
- 41,000 people who are admitted for emergency hospital care
- 20,000 people who attend the Accident and Emergency department

Due to general wear and tear, the flooring at the hospital had reached the end of its useable life span, so a project was planned to replace the flooring throughout the hospital.

### Challenge

The contractor, Regan Flooring Ltd, was tasked with replacing the vinyl flooring in corridors and lift lobbies at various locations throughout the hospital, all of which were close to areas of the hospital in use by patients and hospital staff.

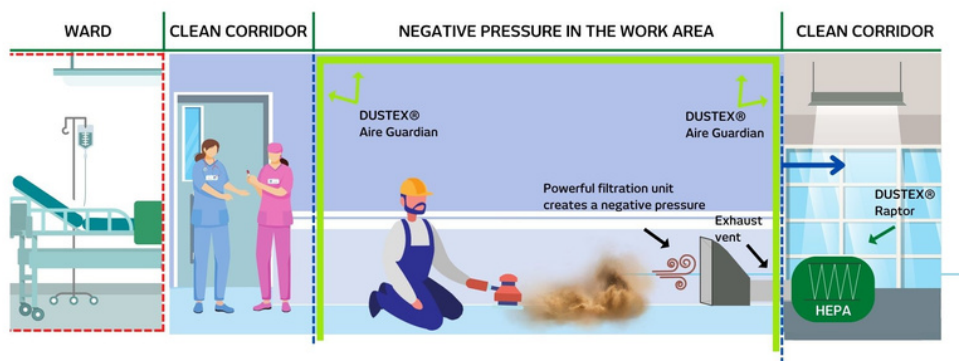
As work started, the process of removing the existing vinyl floor and screed was creating an excessive amount of dust, and it was at risk of overwhelming the dust control solution that was initially in place to contain the work area and prevent dust migration. The decision was made to stop work until an adequate solution was installed. This solution needed to be substantial, but at the same time easily removable for daily set up/dismantle, and it needed to be able to accommodate emergency access/egress.

The contractor, along with Gleeds who run the facilities for Croydon University Hospital, called upon RVT to provide an alternative solution that would meet the dust control requirements, and ensure that the work area would pass an Infection Prevention and Control (IPC) inspection. RVT performed a site survey, with the needs and safety of patients prioritised when recommending a compliant solution. It was imperative that dust did not migrate outside of the work area and into live areas of the hospital.

## Solution

The RVT Group supplied a DUSTEX® Aire Guardian Rigid Containment Unit which is the perfect solution for containing temporary construction and renovation projects in sensitive environments, such as hospitals. This solution created a 3 sided containment unit (8ft x 2ft), that was sealed against a wall and the ceiling. This lightweight polycarbonate unit is easy to install and can be taken apart and moved around site as work progresses. Once installed, it provided a temporary hoarding solution complete with a door to accommodate a standard width hospital bed for emergency access/egress. It also had keypad entry to prevent unauthorised access.

The DUSTEX® Aire Guardian has an exhaust vent, and during this project it was used with the DUSTEX® Raptor, which is a portable dust extraction unit. When working together, these solutions contained the work area, and created a negative pressure airlock, which ensured that work could take place with the confidence that there would be zero dust migration outside of the work area. Clean air was able to flow into the room, but contaminated air could not escape unless it was extracted via the DUSTEX® Raptor. Furthermore, the unit could easily be wiped clean and did not leave any marks on the hospital walls when uninstalled.



“I would recommend RVT Group for dust control solutions, especially for projects based in a sensitive healthcare environment. The DUSTEX® Aire Guardian Rigid Containment Unit and DUSTEX® Raptor exceeded expectations. These solutions combined gave complete peace of mind that dust could not migrate into live areas of the hospital. We knew that works could take place whilst keeping staff, patients and everyone nearby safe from dust.”

- Facilities Manager - Gleeds

Watch this video to find out more about the DUSTEX® Aire Guardian Rigid Containment Unit



**The 3C's® is a proven methodology, devised by the RVT Group, to ensure effective control of all on-site health hazards.**

### Capture the hazard

Position the dust extraction hood as close as possible to the activity to ensure the dust is captured at source.

### Contain the hazard

The immediate work area should be contained as much as possible to prevent dust/fume migrating and affecting other workers on site or people nearby.

### Control the hazard

Negative pressure can be applied to prevent dust migration outside of the work area.



The lightweight polycarbonate construction and modular design of the DUSTEX® Aire Guardian Rigid Containment Unit makes it easy to take apart and move around site

Negative room pressure is an isolation technique used for construction projects in hospitals and medical centres to prevent cross-contamination from the work area into adjoining rooms

Negative pressure systems provide constant clean air changes, 1 air change can reduce airborne contaminants by up to 63%

The Dustex® Raptor is a small and lightweight dust extractor that can easily be moved around site as work progresses

The Raptor provides an airflow of 1000m<sup>3</sup>/hr and features three-stage filtration (including HEPA)

RVT can also supply dust monitors for added peace of mind

It is imperative that contractors work with the IPC team and follow the Health Building Note for Infection Control in the Built Environment (HBN 00-09)

[MORE INFO](#)

