

Deep Clinical Cleaning

A Data Centre clean in infinite detail

Overview

An 8 Solutions Deep Clinical Clean is an intensive service designed to achieve an ISO 14644-1 level 6 standard of air cleanliness. It addresses every area within the Data Centre, from the subfloor surface up to the underside of the panels and the floor surface, all walls, doors, ledges, and cabinet externals. It will also address all high levels including ceiling voids, overhead cabling and cable trays, all lighting including suspension systems and all building support infrastructure including roof supports and ceiling and roof surfaces.

Service detail

Before work begins, a thorough check is performed to identify all utilities including emergency power off switches, all fire detection devices, including those located in the ceiling and floor voids and to ensure that the fire suppression is de-activated. If the fire system cannot be deactivated then all fire detection units will be covered with a protective shield and located on a detailed plan prepared by the 8 Solutions team leader.

A daily health and safety and methodology briefing will then be given to the team by the team leader and a risk assessment will be performed as part of the clean.

Floor void

The cleaning regime to address the floor void will encompass the following procedures:

- Initial cleaning of the floor surface to remove heavy contamination
- Installation of requisite health and safety barriers and signage
- Lifting of the floor tiles in accordance with 8 Solutions best practice
- The removal of any sub floor debris and disposal of same
- The vacuuming of the subfloor with Hepa triple filtered vacuums
- The vacuuming of all cabling, cable trays and baskets
- The vacuuming and wipe down of all pedestals

- Anti-static wipe down of panel undersides
- The replacement of floor panels in accordance with 8 Solutions best practice

Whilst in the floor void the 8 Solutions technicians will affect the following maintenance checks:

- Visual check for zinc whiskers



- Integrity of pedestals
- Integrity of stringers
- ESD disc check
- Fire wall integrity
- Chilled water line lagging
- Integrity of cable trays/baskets
- State of sub floor sealing

Any identified issues will be reported to the client and included in a Post Clean Report.



High levels/ceiling void

The cleaning regime to address the high levels/ceiling void will encompass the following procedures:

- Confirmation of risk assessment (as per site survey)
- Installation of high level access equipment as appropriate
- Installation of all health and safety signage and barriers
- Health and safety briefing for high level working
- Vacuuming and wipe down of cables, cable trays and baskets
- Vacuuming and wipe down of all lighting units, diffusers and all support systems



- Vacuuming and wipe down of all air handling and distributions units
- Vacuuming and wipe down of all ducting systems
- Vacuuming and wipe down of all roof structures, surfaces and supports
- Vacuuming of any fire detection and suppression units

If a ceiling void is in place then in addition to the above 8 Solutions will undertake to provide the following:

- Vacuuming of any fire detection and suppression units
- Vacuuming and wipe down of both inner and outer surfaces of the ceiling tiles
- Vacuuming and wipe down of all ceiling supports

General surface

The cleaning regime to address the surfaces within the facility will encompass the following procedures:

- Vacuum and anti-static wipe down of all rack externals
- Wipe down of wall surfaces including scuff removal
- Vacuum and wipe down of all ledges
- Vacuum and wipe down of all wall mounted units including AHUs
- Vacuum and wipe down of all cable and ducting intakes
- Vacuum and wipe down of all doors and windows

Whilst in the process of the surface clean 8 Solutions technicians will carry out the following maintenance checks:

- Visual inspection of all intakes including:
 - Air handling Units
 - Cable and ducting
- Integrity of racks
- Evidence of contamination
- Evidence of water damage/condensation

Any identified issues will be reported to the client and included in a Post Clean Report.

Floor surface

The regime to address the floor surface will encompass the following procedures:

Vinyl surface

- Vacuuming of floor surface
- Vacuuming and antistatic wipe down under racks
- Floor buffing at level as required using specialist buffers with built-in vacuums:
 - Option for hand tooling for problem areas

Carpet tiles

- Intensive vacuum using triple filtered vacuum cleaners

Grills/Koldlocks

- Debris removal
- Vacuum and wipe down as required

Whilst in the process of the floor surface clean 8 Solutions technicians will carry out the following maintenance checks:

- Visual inspection of floor levels and structural integrity
- Visual inspection of panel integrity
- Identification of potential trip hazards
- Grill and Koldlock integrity and viability
- Viability of door seals
- Visual inspection of cable and ducting ingress points

Any identified issues will be reported to the client and included in a Post Clean Report.