



Critical Facilities
Solutions



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**Live Floor
Replacement**

New Installations

**Repairs,
Strengthening and
Levelling**

**Panel Sourcing,
Replication,
Recovering and
Supply**

Ramps & Steps

Sub Floor Sealing

**Ventilation &
Cable Entry
Management**

**Support
Framework**



Completed project in Burbank, CA



Completed project in Detroit, MI



Completed project in Houston, TX



Completed project in Herdon, VA

Live Floor Replacement - Raised floors have a specified lifecycle and many installed prior to the mid 2000's have reached theirs. The normal usage of a data centre will reduce the load capacity making the floors unsteady, as they loosen and become uneven, putting people and equipment at risk. The rate of degradation is compounded with excessive moisture, irregular maintenance, movement of extreme weight loads, poor installation and general buildup of debris.

Unique in the industry is Critical Facilities Solutions' ability to replace raised floors without ever having to shut down any part of the data centre or relocate a single piece of equipment. The data centre's flooring is replaced with a proprietary and proven system that allows for complete continuous operations and doesn't require any new cabling or configuration of the racks.

The Process - Using a proprietary rigging system developed over the years in replacing floors, Critical Facilities Solutions' approach allows for equal weight distribution and incremental adjustments to compensate for unique circumstances.

The rigging frame is constructed of high quality rebar, bolted together to enable size flexibility depending on access and length of equipment rows.

Once the raised floor is installed, the lowering process is also slow and equal. The lift or descent can be stopped at any point in the process in case adjustments need to be made, or for any safety concerns.

Prerequisites - The equipment racks need to have enough slack to allow for a lift of 3" to 4" in a normal replacement, or 3" to 4" plus the additional height necessary if the raised floor height is being increased.

Multiple Racks vs Single Racks - Racks often have cables and/or wires running between them and/ or they are bolted together. Lifting multiple racks at once allows for the connections to remain intact or racks to remain bolted together.

Critical Facilities Solutions' methodology creates a more efficient and secure process than lifting one rack at a time. Their technique permits a stable lift with minimal vibration or movement of the racks or equipment within.

Critical Facilities Solutions has specified, installed, and maintained raised floor systems for more than 25 years. These systems are tailored to meet each data centre's requirements. A Critical Facilities Solutions' floor is free of defects, competitively priced and completed on time.

Its raised floor services are part of its comprehensive approach to servicing the whole of the data centre environment. Critical Facilities Solutions ensures data centre infrastructure optimisation lowering costs of operation, ensuring a safe work environment, and extending its useful life.