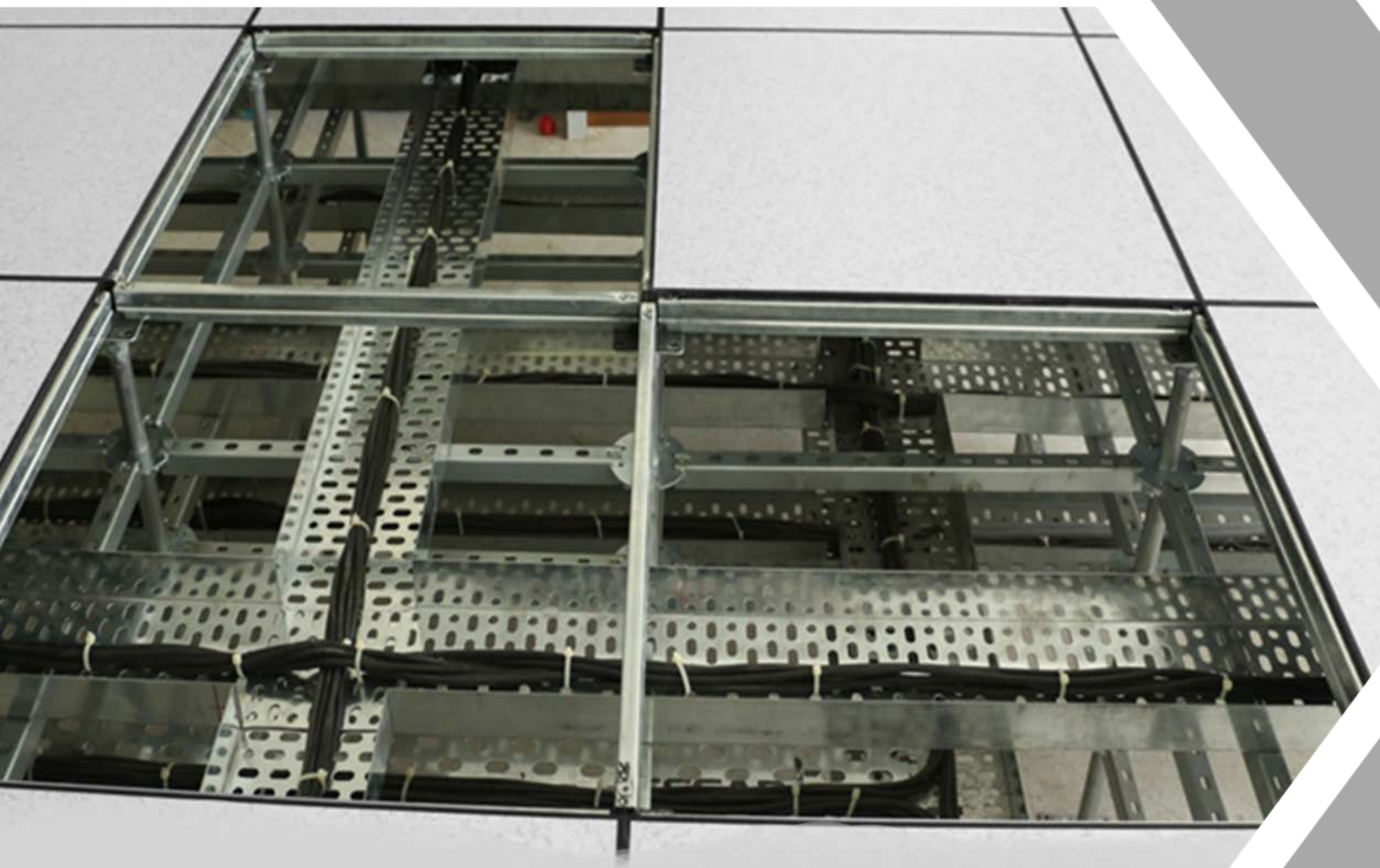
UNITILE

Raised Access Floor Systems



ISO 9001: 2003
ISO 14001: 2004
OHSAS 18001: 2007

MULTILAYER UNDERFLOOR CABLE TRAY SUPPORT SYSTEM

COMMON CHALLENGES FACED IN DATA CENTERS

Heavy Rolling Loads
resulting in damage
of Raised Access Floor System

Air Leakage
through gaps

Stability of Raised
Floor System

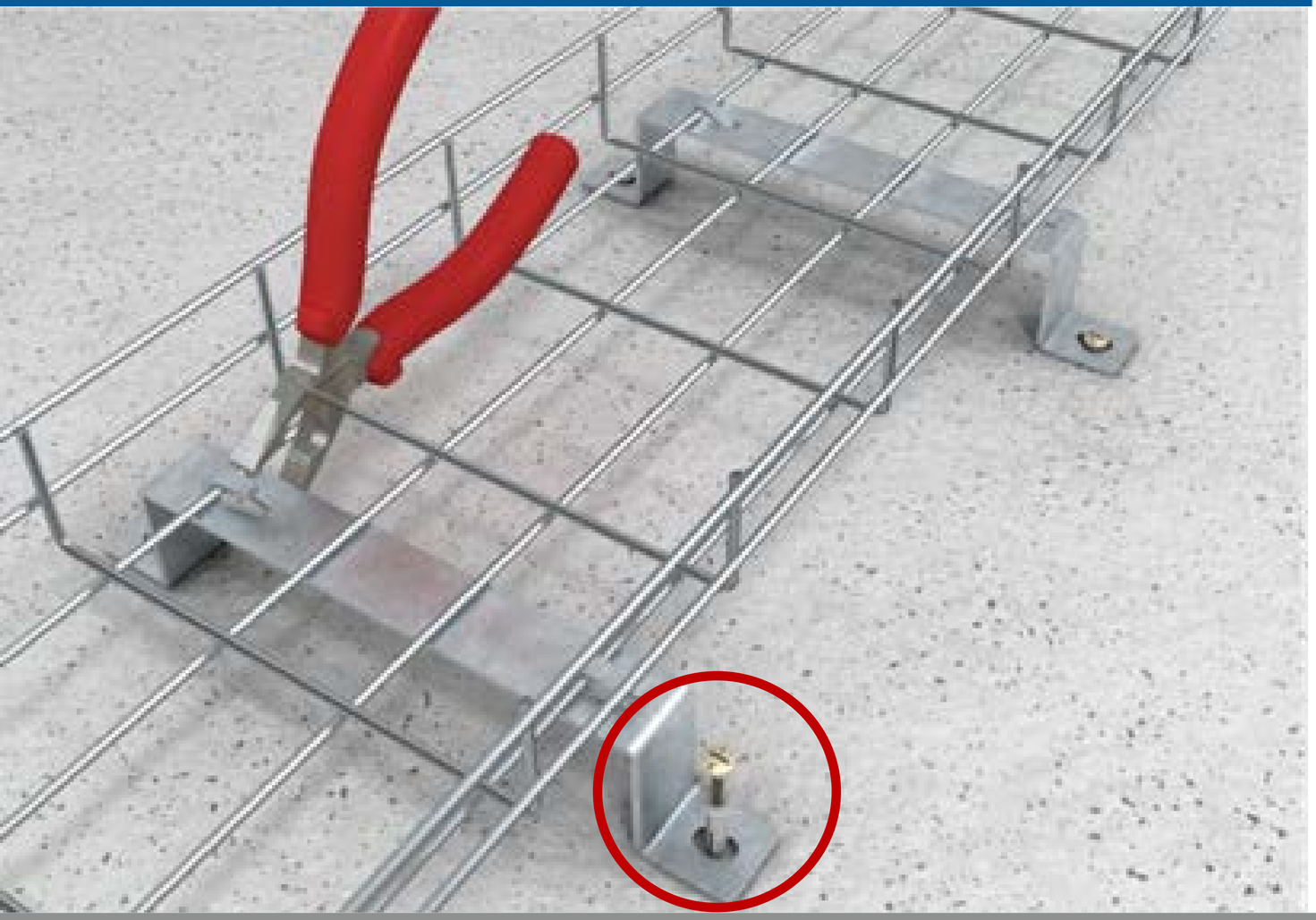
Generation of Dust
during raised floor
installation

Limitations
in drilling
Pretension slabs

Low air
Capture by
the server racks

Installation
and handover
timelines

CONVENTIONAL CABLE TRAY SYSTEM



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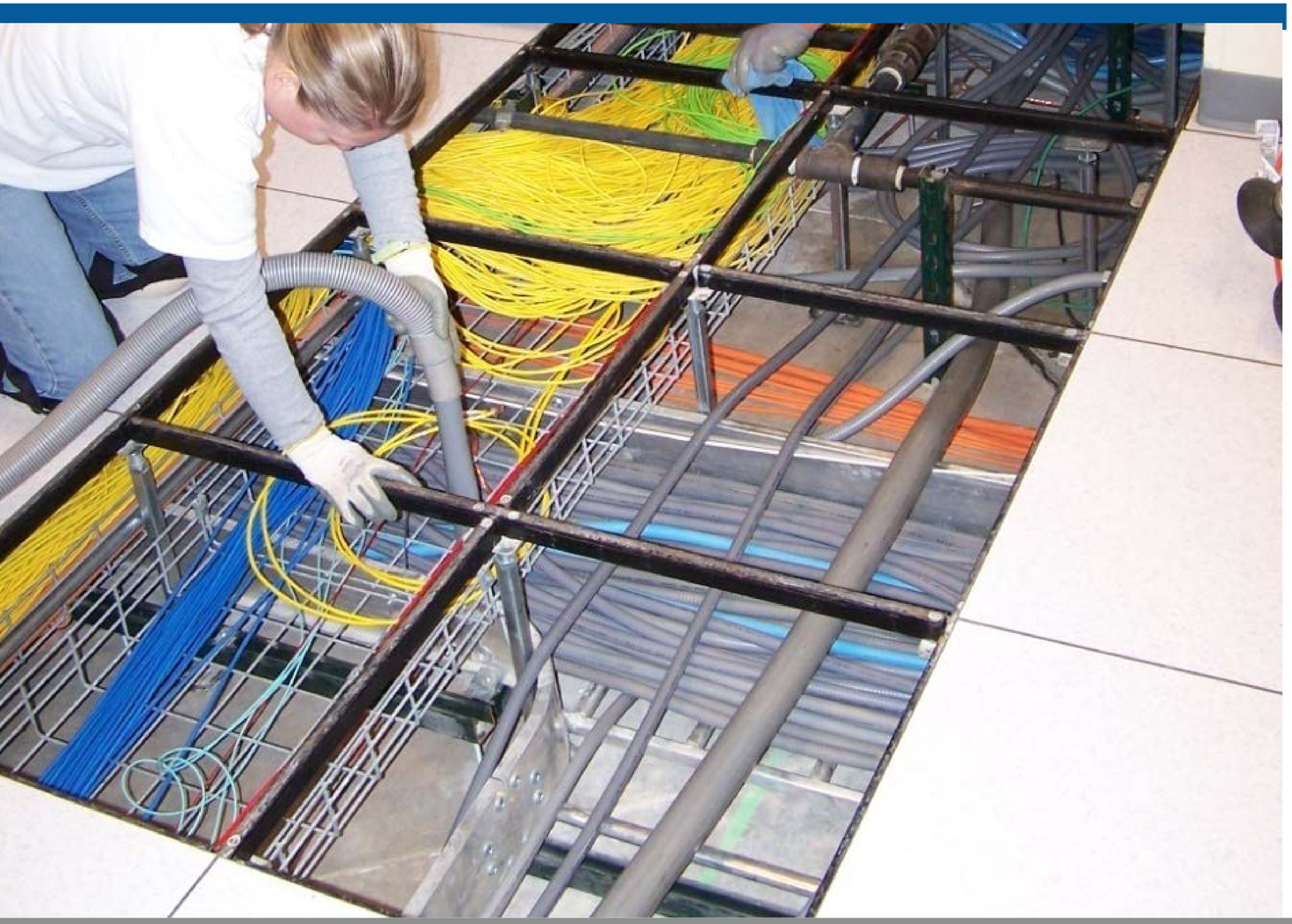

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- Cables can come in contact with floor water /dampness risking the safety of cables and rusting of the brackets and cable trays
- Fouling of the pedestal with the cable tray leads to floor instability and unorganized cable routing system
- Challenges with rigidity & stability of the Raised Floor System

MULTILAYER UNDERFLOOR CABLE TRAY SUPPORT SYSTEM

This is an engineered under grid cable tray support system made with heavy grade slotted angles along with special head for snap on easy installation.

The grid is available in different finishes like hot dipped galvanized and powder coated

UNITILE
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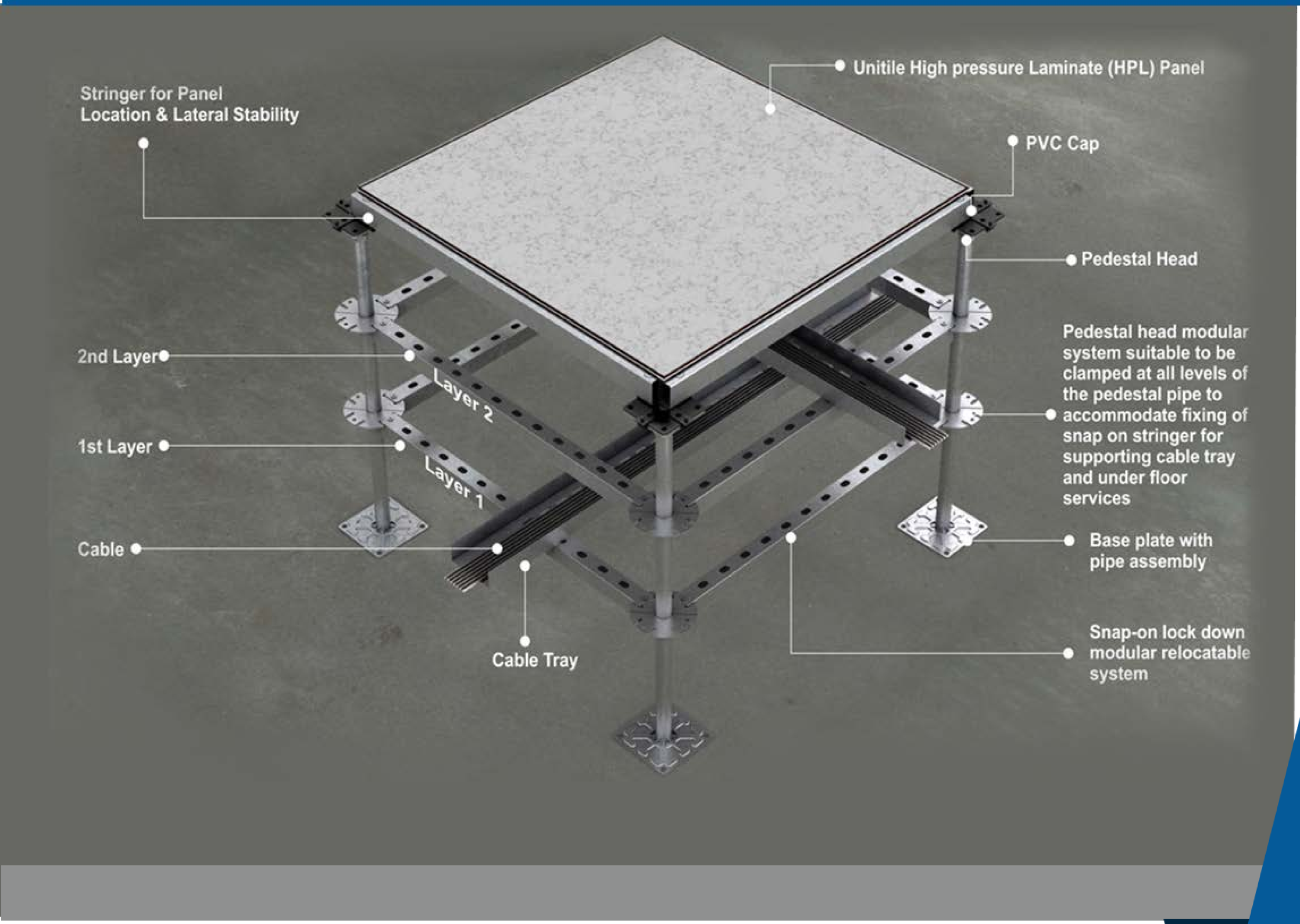
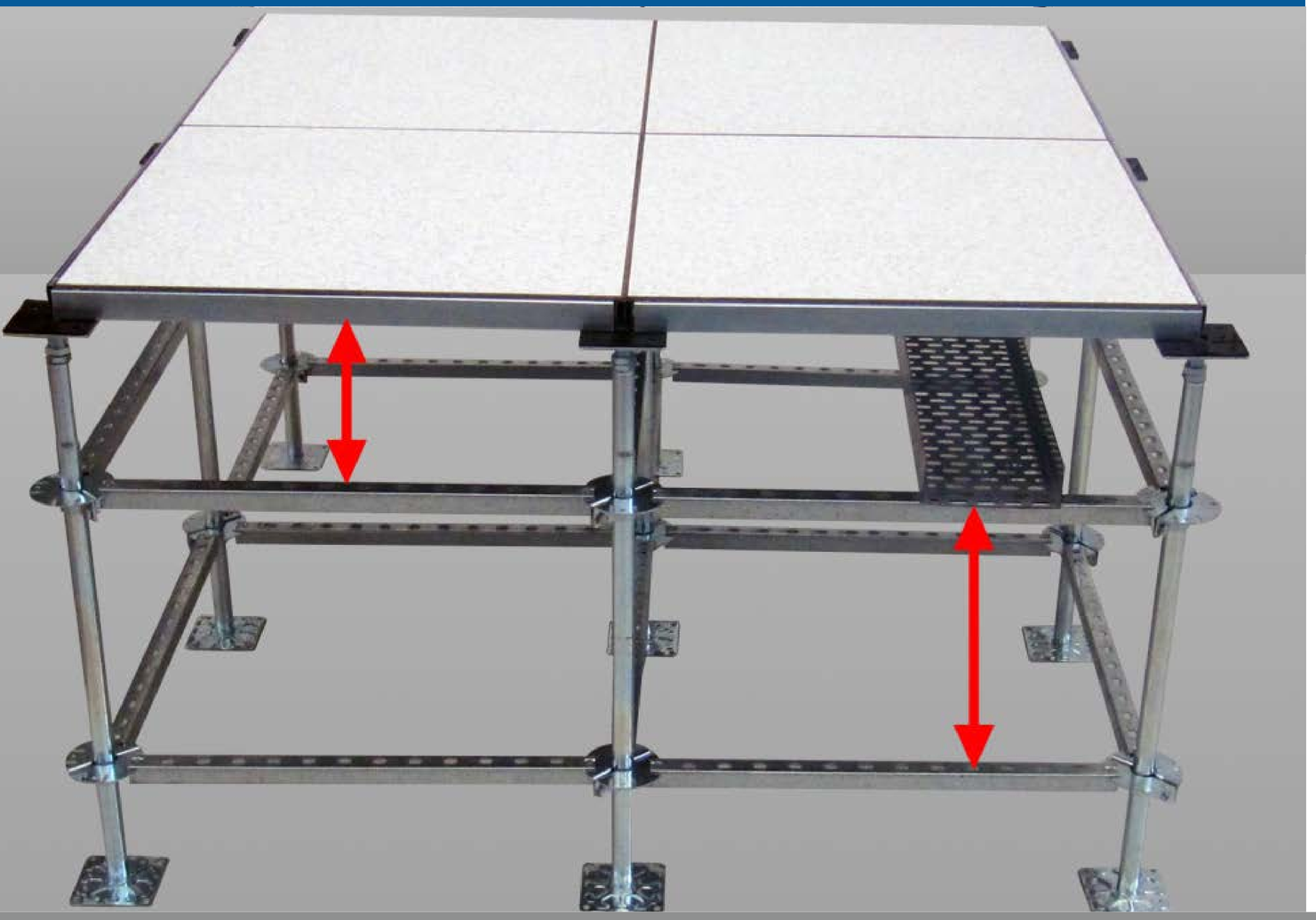
U-FLEX™
DATA CENTER ACCESSORIES

MULTILAYER UNDERFLOOR CABLE TRAY SUPPORT SYSTEM



FULLY MODULAR SYSTEM



Special head for snap on easy installation and heavy grade slotted angles enables:-

- Last minute changes can be accommodated since this grid is flexible and can be installed wherever as per the site requirement.

- Multiple tiers of cable trays can be accommodated as per site requirement

- Onsite adjustable cable tray heights enables the user to make changes at site when other services need to run below the floor for example water and gas lines if any.

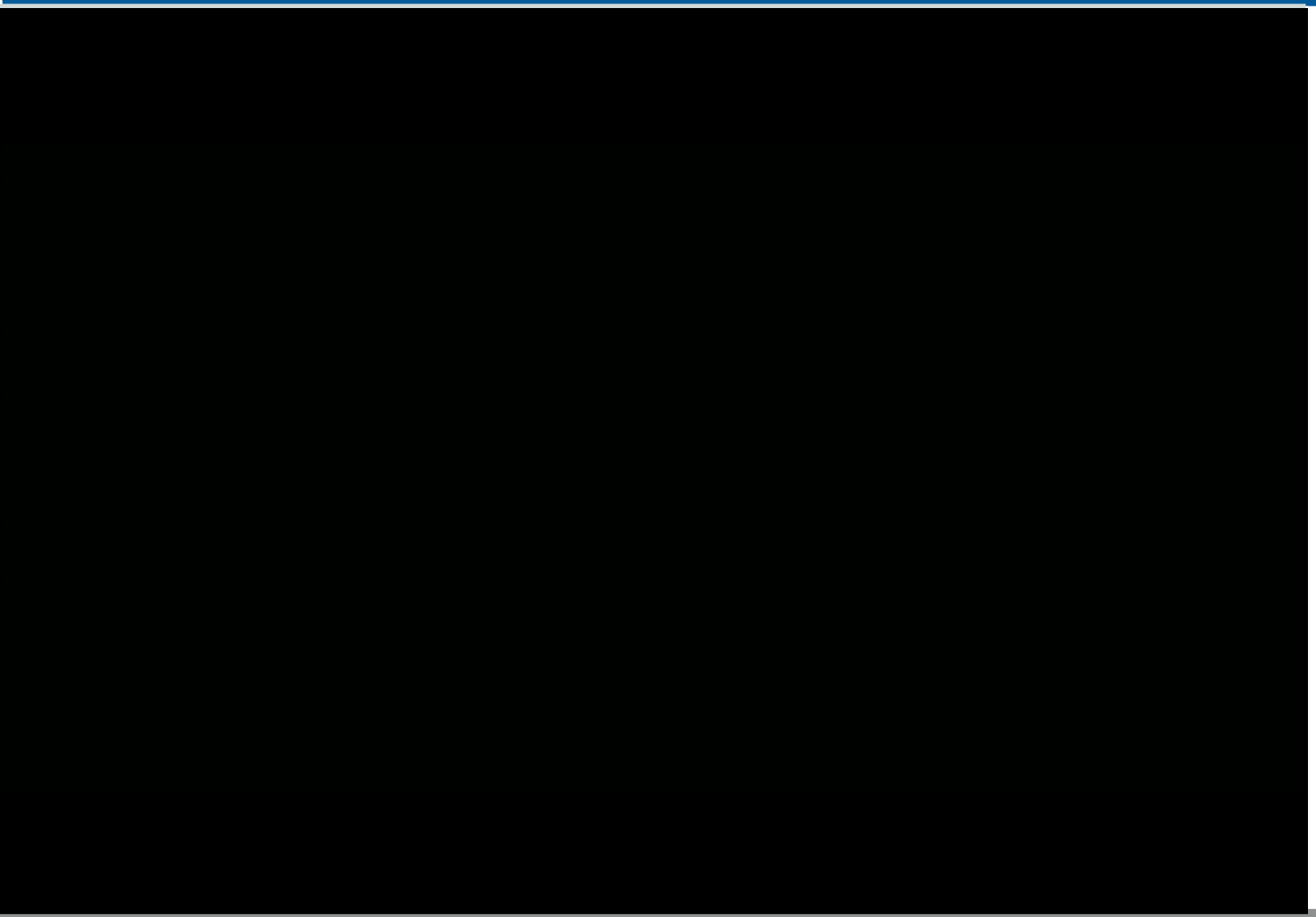
INTEGRATION WITH THE RAISED FLOOR SYSTEM IMPROVES SPEED OF INSTALLATION

Unitile’s All New multilayer cable tray system improves speed of installation:-

- Since this system is completely modular, if the Raised Access Floor installation is done along with the Under floor Cable Tray System then the entire system will require minimum alignments procedures. This is because the placement of the grid is fixed hence a default installation of 600mm center to center (c/c) placement is achieved.

- The cable tray support system is also ready along with it, hence reduces the coordination time and sequence of working with the electrical contractor (which they generally do pre installation of raised floor and then open floor panels to install the cable trays).

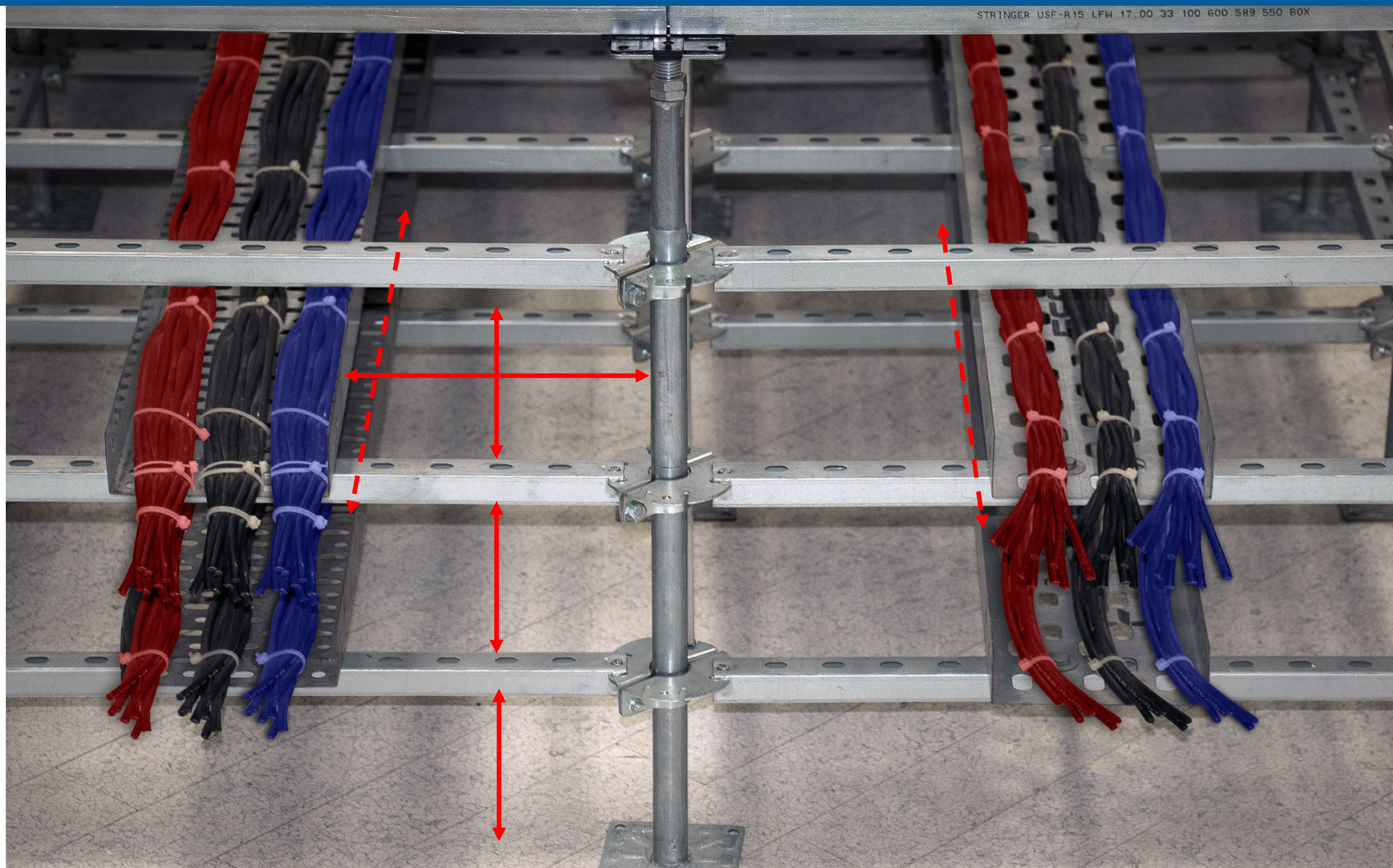
HIGHER STABILITY AND LATERAL SUPPORT



A seismic compliant raised floor system requires one tier of cable grid throughout the false floor area:-

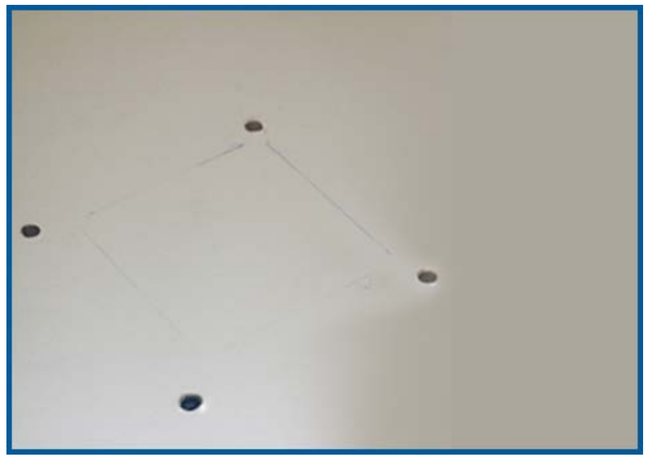
- Since this system is interconnected with all the pedestals, the entire false floor will behave as a single grid enabling seismic support.
- This system indirectly maintains the accuracy of the raised floor grid ensuring the panel fitment & alignment remains intact at all times. It ensures a proper hold of the center to center distances between the pedestals.
- Without any compromise on the rigidity ,the new system design allows the pedestal base to be glued on the subfloor instead of conventional method of anchoring using fastener. This avoid the drilling process and generation of dust in your facility.

ELEVATED CABLE TRAY FEATURE



Path for cable routing / Prevents ... Elevated cable tray ... water / dampness ... to the
contractor for doing a neat and clean installation

ELEVATED CABLE TRAY FEATURE



- Lesser holes drilled in the slab, especially high tension slabs helps maintain the structural integrity of the slab.
- Lesser drilled holes also leads to lesser generation of dust on the floor (3.30 pedestal x 4 holes per pedestals x area in sq.mt is the no of holes that have to be drilled in the mother slab to get correct anchorage of the pedestal to the slab for stability of the system).
- Faster installation compared to conventional raised floor system.

Thank you.....