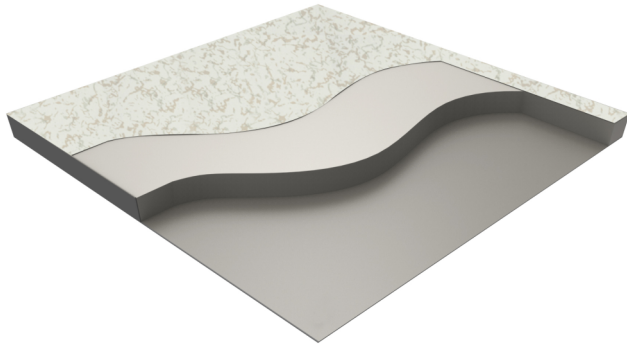


## UNITILE NEX-GEN 1200MMx1200MM EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

### PANEL ILLUSTRATION



|                      |   |
|----------------------|---|
| Category             | Laminate/GI, ESRG System                                    |
| Panel size           | 600 x 600 mm  |
| Core Material        | Calcium Sulphate  |
| Panel Core Thickness | 34 mm   |
| Edge Band            | PVC   |
| Panel Weight         | 21.160 kgs  |
| Weight of System     | 89 kgs / m <sup>2</sup> for FFH 800 mm (varies with height) |
| Overall Floor Height | 450 mm - 2000 mm  |

### FEATURE BENEFITS

- ▶ Enhanced load-bearing capacity.
- ▶ Higher footprint area on pedestal head leading to enhanced stability & improved load carrying capacity.
- ▶ No overlapping of panels.
- ▶ Edge Support Design reduces the risk of damage to the panel edges during exposures to rolling and impact loads at site.
- ▶ Prevents fouling of cable tray systems with pedestals.
- ▶ Convenience of cable routing.
- ▶ Ease of post-handover maintenance for the lifecycle of the facility.
- ▶ Faster installations at site due to fewer pedestals
- ▶ Lesser obstruction to larger services running below floor (above 500 mm)

### SYSTEM DESCRIPTION

Unitile Nex-Gen is a re-engineered raised access floor system re-engineered to overcome the challenges faced in data centers and control room environments.

The system has been designed to provide a wider span for cable management during the construction and the ease of maintenance post-handover of facility.

### PANEL

Unitile Calcium Sulphate (UCS) access flooring panel is manufactured from fiber reinforced calcium sulphate which forms the core of the panel having density of 1400-1600 Kgs /mtr<sup>3</sup>. It offers excellent acoustical sound deadening value and a high degree of walking comfort ensuring perfect working environment. The panel also possesses electrostatic characteristics.

The top & bottom surface of the core is fully bonded and laminated by Antistatic High Pressure Laminate (HPL) and GI sheet respectively & then trimmed to fine dimensional tolerances for modular control, accurate alignment of the grids, interchangeability of panels and prevention of creep. The design incorporates a full depth Aluminium edge band, which while providing total encapsulation of the calcium sulphate core also protects the edge of the surface covering and resists ingress of moisture.

### PEDESTAL

Pedestals installed to support the panel shall be suitable to achieve a specific finished floor height from the existing floor level and shall be placed 1200 mm distance in both directions to form a rigid grid of 1200 x 1200 mm. The pedestal design shall confirm speedy assembly and removal for relocation and maintenance. The Pedestal head assembly shall consist of a 147 x 147 x 3mm embossed Plus shape head mechanically riveted to a 19mm dia rolled formed stud of suitable length and 2 check nuts for level adjustment and arresting vertical movement. Pedestal diameter and base plate will be as per design load and clients requirement. Pedestal base shall be permanently secured in position on the subfloor by effective glue and screw/ anchor fasteners.

### MAIN AND ANCILLARY RUNNERS

Main runner shall be of size 40 x 80 x 2 x 1198 mm (W x H x T x L) and secondary runner of size 40 x 80 x 2 x 1158 mm (W x H x T x L) which will form a grid of 1200 x 1200 mm. Third runner 40 x 40 x 1.2 x 550 mm (W X H X T X L) to provide a continuous support to calcium sulphate panel.

## UNITILE NEX-GEN 1200MMx1200MM EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

### PRODUCT STRUCTURAL PERFORMANCE

(As per BSEN 12825)

|  |                           |
|--|---------------------------|
| Concentrated Load  | 1000 Kgs / 10.00 kN       |
| Ultimate Concentrated Load                                 | 1900 Kgs / 19.00 kN       |
| Uniformly Distributed Load (As per PSA MOB PF2 PS / CISCA) | 3000 kgs / m <sup>2</sup> |
| Pedestal Axial Load Test                                   | 22 kN                     |
| Pedestal Over Turning Moment Test                          | 113 N x Meters            |

### OTHER STRUCTURAL PARAMETERS

|                  |  |
|------------------|--|
| Soft body impact | Tested as per (T12.03) of MOB PF2 PS Standards |
| Hard body impact | Tested as per (T13.03) of MOB PF2 PS Standards |
| Fire Rating      | En1366 Part 6 : 2005 & En1366 Part 1 : 1999    |

### INSTALLATION TOLERANCE

|   |   |
|---|---|
| Overall level before application of any load      | ± 1.5 mm over any 5.00 sq mt.<br>± 6 mm over any size of basic space.                                       |
| Panel Level                                       | + 0.75 mm before the application of any load.   |
| Panel Interchangeability installation and removal | Interchangeable (except for field cut panels) & replaceable in any of the four directions at 90° increments |

### ELECTRICAL RESISTIVITY

According to the procedure outline in NFPA 56A Chapter 462

|                   |  |
|-------------------|--|
| Anti-static range | 1x10 <sup>9</sup> - 2x10 <sup>10</sup> Ohms (surface to surface) |
|-------------------|--|

### FABRICATION TOLERANCE

|   |                            |
|---|----------------------------|
| Floor Panel Flatness                            | ± 0.75 mm in any direction |
| Floor Panel Width or Length from specified size | ± 0.50mm                   |
| Floor Panel Squareness                          | ± 0.38mm                   |

### APPLICATIONS

- Data Center
- Control Room

### FACTORY BONDED FINISHES

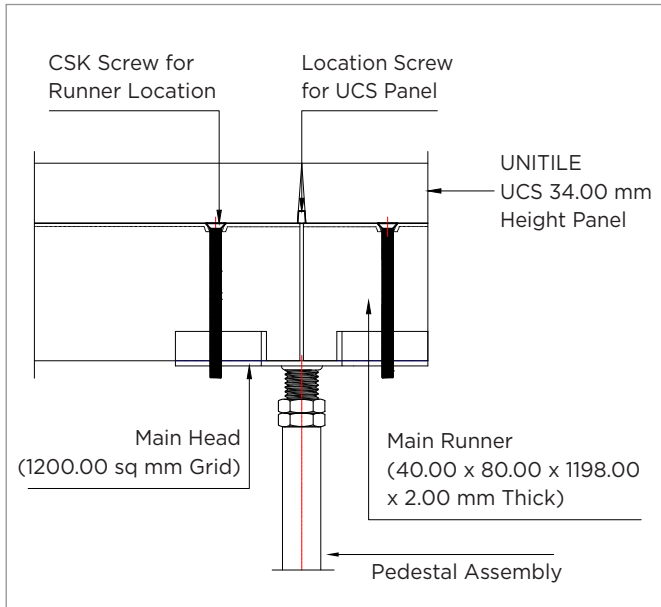
- HPL

Note:

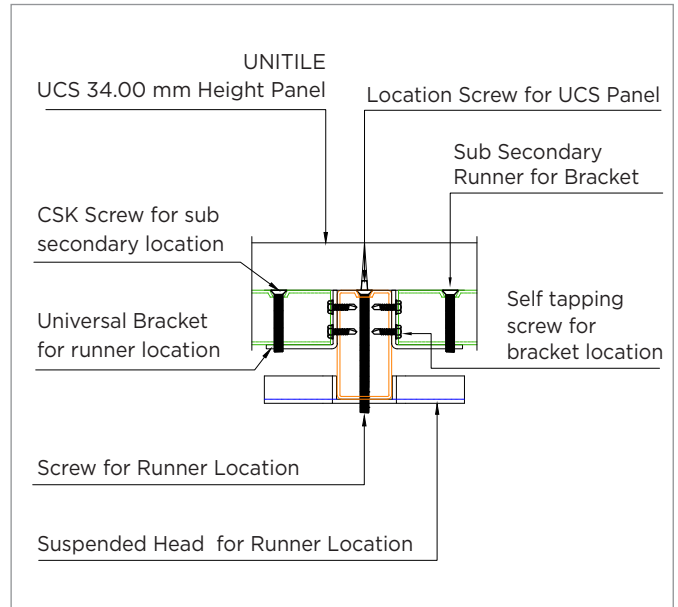
- The above mentioned loading parameters are derived & defined on the basis of the tests performed by the manufacturer based on the guidelines provided by the specified standards or as per manufacturer's recommendations.
- Manufacturer has all the rights to change or revise the specifications as and when applicable or required without the prior notice.

## UNDERSTRUCTURE

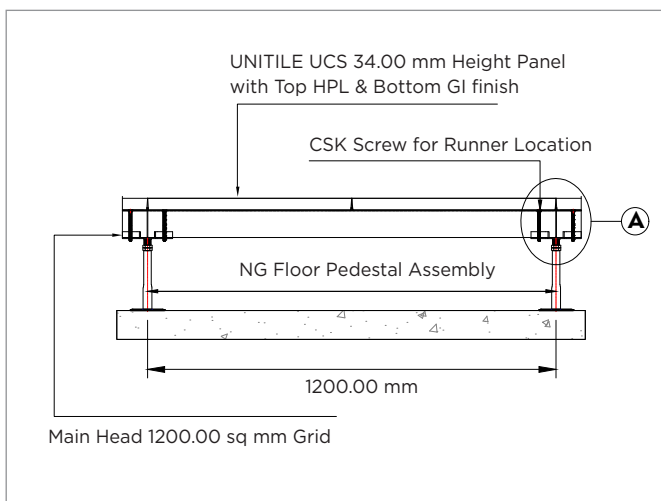
DETAILS VIEW : A



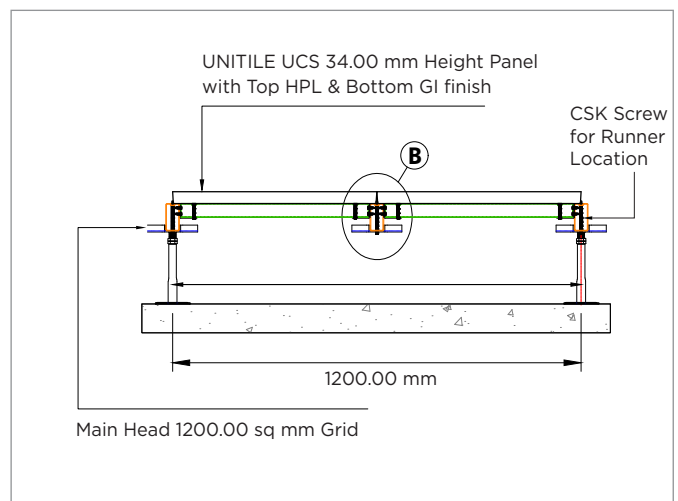
DETAILS VIEW : B



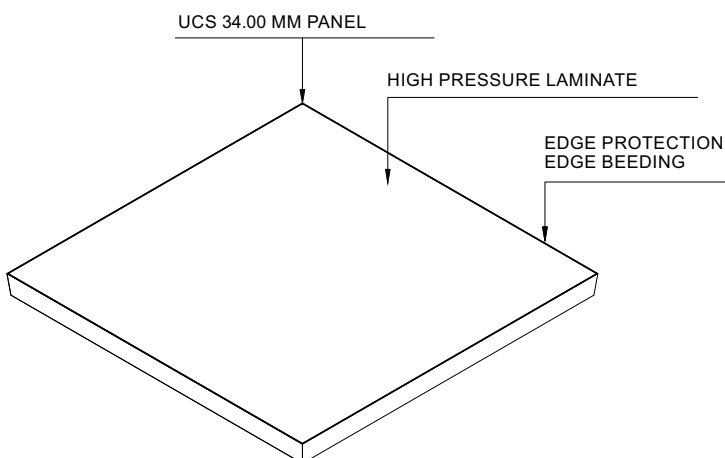
FRONT VIEW



SECTION VIEW : "B-B"



## PANEL CONSTRUCTION



## PVC EDGE BAND

