

# HUIYA SCL1000

## HEAVY MEDIUM-1000LBS (SCL1000) TECHNICAL DATA SHEET

The HUIYA SCL1000 Steel Cementitious Laminate Raised Access Floor offers exceptional fire and load resistance, Anti-static performance, excellent sound absorption, and stability in humid environments. It is suitable for a variety of interior applications requiring an elevated system. It also offers high technical and aesthetic adaptability. This Anti-static Steel Cementitious Laminate Raised Access Floor is widely used in Data Center environments and demonstrates excellent impact resistance. It offers outstanding fire resistance, producing no toxic gases when exposed to fire, ensuring safety in data center environments. Environmentally friendly and healthy, with no formaldehyde or radioactive substance emissions, complying with national green building material standards.



Outstanding static and live load performance



Panel design allows for fast and precise installation



Non-Combustible



Moisture Resistant



Patented design features create a quiet and comfortable underfoot solution



Excellent Earthing Continuity

## HUIYA SCL1000 SYSTEMS



### PANEL DIMENSIONS:

Size: 600x600mm

### PANEL THICKNESS:

DEPTH 35mm

### PANEL CORE:

Fly Ash Foamed Portland Cement (FAPC) (1550kg/m<sup>3</sup>).

### CORROSION RESISTANT PROTECTION:

Standard epoxy resin powder coated finish.

### FINISHED:

Surface HPL/ESD tile Finishes/Plank wood/Rubber.

### TOLERANCE:

±0.25mm and a flatness tolerance of ±0.5mm measured on a diagonal across the top of the panel finish.

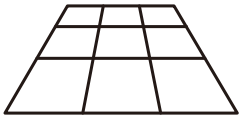
### PEDESTAL:

Solid and stable Raised Access Floor structure consisting of steel pedestals, Stringers and screws reaching heights from 80mm to 1500mm.

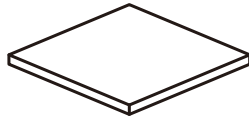
### SOUND INSULATION GASKET:

Each pedestal contains flame-retardant sound insulation gasket to reduce friction between the metal pedestal and the metal raised access floor, thereby reducing noise generation.

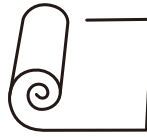
# SUITABLE FINISHES



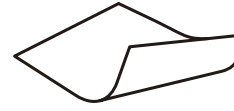
High pressure  
Laminate



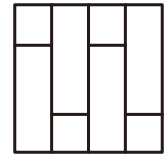
Conductive  
ESD Tile



Carpet



Rubber



Plank Wood

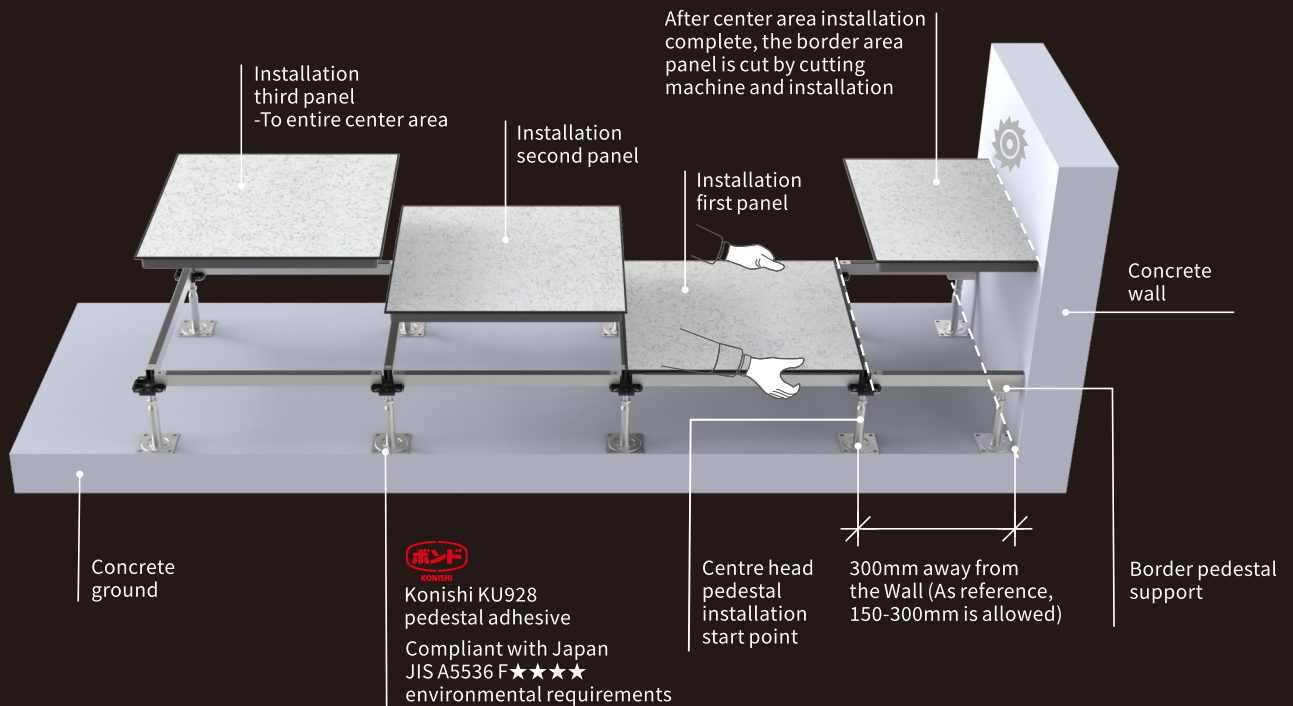
# SYSTEM ASSEMBLY

**HUIYA RAISED ACCESS FLOOR** is extremely easy to install on indoor construction sites. Each **RAISED ACCESS FLOOR** is fastened with screws, and the pedestal at the bottom of the floor is height-adjustable. This system ensures fast and efficient installation. The pedestal head features a black positioning gasket, providing unique sound insulation and vibration damping properties. The pedestal base is bonded with Japan's **KONISHI KU928** pedestal adhesive, which is environmentally friendly and formaldehyde-free.



# INSTALLATION METHODS

1. Measure the length and width of the room. For example: the room length is 6500mm and the floor size is 600mm. By calculation, 10 pieces of 600mm full-size panels+one 500mm cut panel are needed (500mm is split into 300mm and 200mm for wall edge installation). The same principle applies to room width direction measurement.
2. Start installation the full size raised access floors panel 300mm away from the wall in the length direction. After installation 10 pieces, measure the remaining two perimeter areas and cut the panels to fit the wall line, and finally installation of the edge panels is completed. The same principle applies to width direction.



## AREAS OF APPLICATION



Commercial Office Buildings



Banks



Data Center



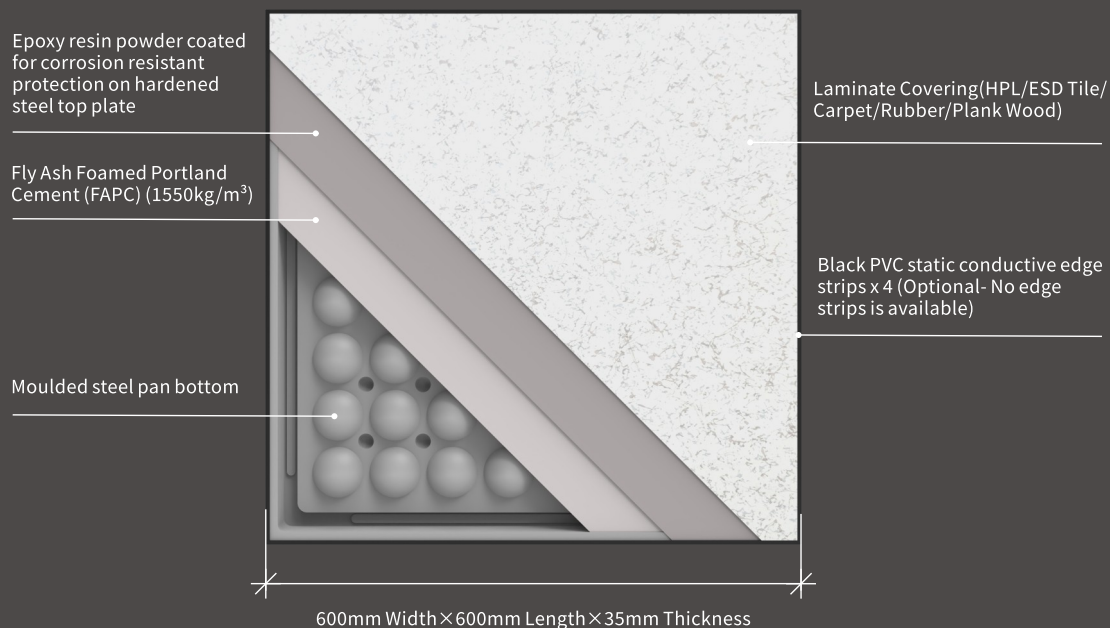
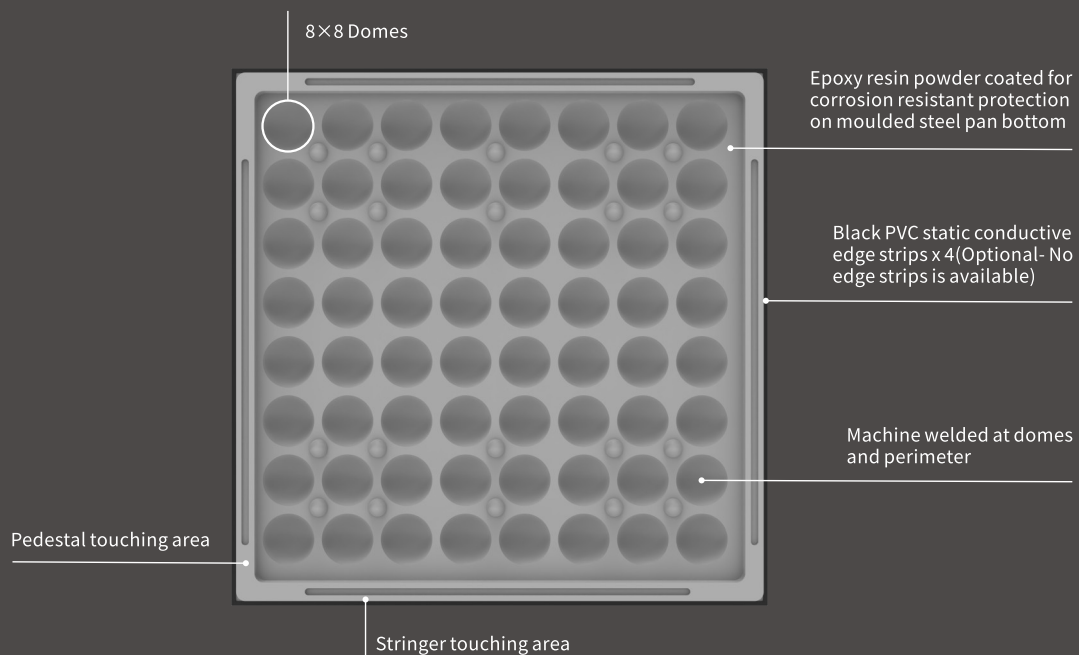
Libraries



Casinos

# HUIYA SCL1000 PANEL INTRODUCTION

|                                                           |    |                                                                |                                                         |
|-----------------------------------------------------------|----|----------------------------------------------------------------|---------------------------------------------------------|
| ★ Surface Laminate Cover                                  |    | HPL/ ESD Tile/Carpet/Rubber/Plank Wood                         |                                                         |
| ★ Core                                                    |    | Fly Ash Foamed Portland Cement (FAPC) (1550kg/m <sup>3</sup> ) |                                                         |
| ★ Glue                                                    |    | DIABOND DC7000 strong adhesive (JAPAN)                         |                                                         |
| ★ Steel top plate thickness                               | mm | 0.8                                                            |                                                         |
| ★ Steel pan bottom thickness                              | mm | 0.9                                                            |                                                         |
| ★ Epoxy resin powder coating                              | μm | 80                                                             |                                                         |
| ★ Weight per panel                                        | kg | 14.5kg+Extra Weight of Laminate Covering                       |                                                         |
| ★ Weight per sqm (Structure finish height included 300mm) | kg | 41.9kg+Extra Weight of Laminate Covering without stringer      | 43.2kg+ Extra Weight of Laminate Covering with stringer |



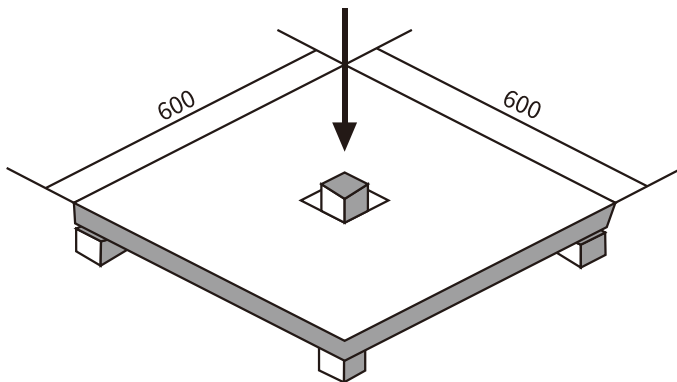
# GENERAL CHARACTERISTICS

## SCL1000 Characteristics

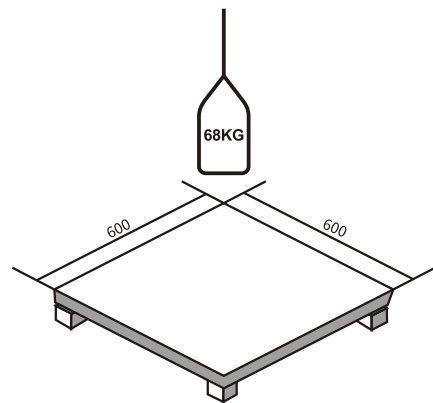
|                                                                                 |                   |      |
|---------------------------------------------------------------------------------|-------------------|------|
| Ultimate load                                                                   | KN                | >9.0 |
| <b>Concentrate load (Design load)</b><br>Deflection at design load (Max. 2.5mm) | KN                | 4.5  |
| Safety factor                                                                   |                   | 3.0  |
| <b>Uniform load(Distributed load)</b>                                           | KN/m <sup>2</sup> | 22.5 |
| <b>Impact load</b><br>(Sand bags impact and panel without broken)               | KG                | 68   |

|                      |                |                                           |
|----------------------|----------------|-------------------------------------------|
| Fire resistance      | ASTM E136-11   | No combustion or ignition                 |
|                      | ASTM E84-14    | Class A                                   |
|                      | EN13501-1:2002 | A1                                        |
| Acoustic performance | ASTM E492-09   | Calculated impact insulation class:IIC 58 |

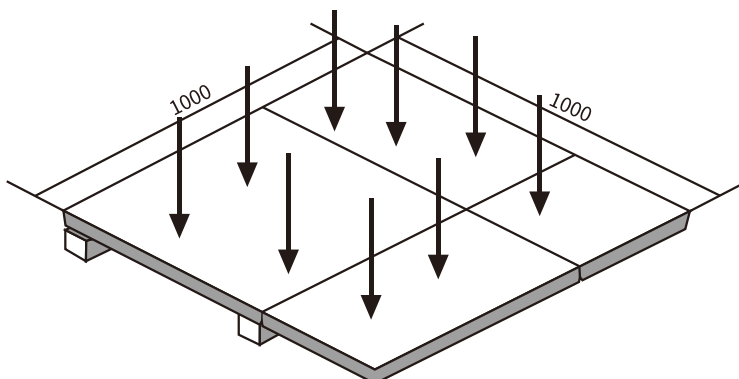
**Concentrate load(Design load)**



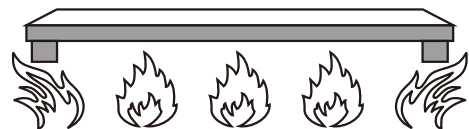
**Impact load**



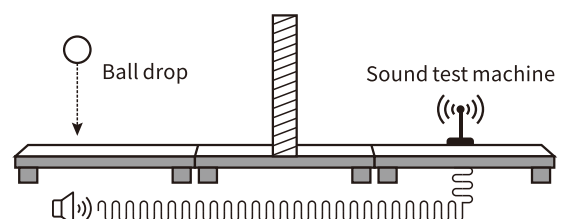
**Uniform load(Distributed load)**



**Fire resistance**

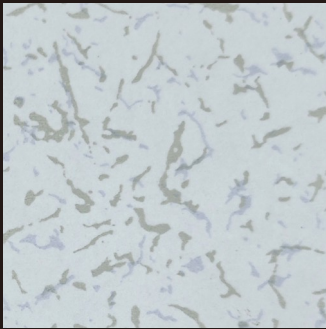


**Acoustic performance**



# ANTISTATIC HPL TILES

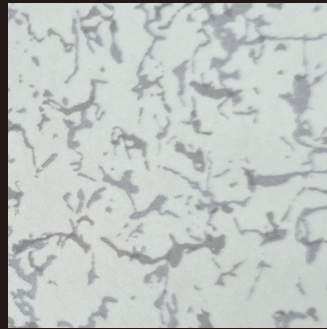
HUIYA SCL series raised access floor can be bonded with HUIYA's HPL Tile (High Pressure Laminate) series. This bonding process results in a raised access floor with excellent anti-static capabilities, providing effective anti-static protection. The HPL surface also possesses high wear resistance properties. The HPL Tiles perfectly fit the HUIYA SCL series raised access floor.



HPL-E84



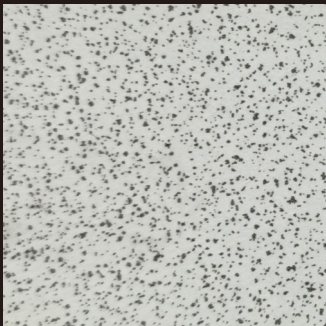
HPL-E86



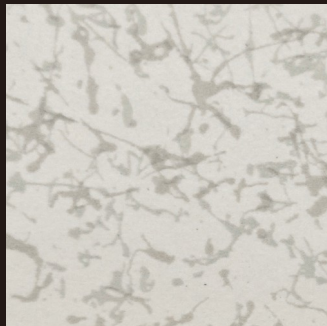
HPL-E80



HPL-E28



HPL-F23



HPL-F27



HPL-F28



HPL-F29

 **HUIYA** × **HPL Tile**



# HUIYA+MULTI TILES



High pressure  
Laminate



Conductive  
ESD Tile



Carpet



Rubber



Plank Wood

More options and detailed specifications for various types of surface finishes ( **HPL / ESD tile / Carpet / Rubber / Plank wood** ) are available.

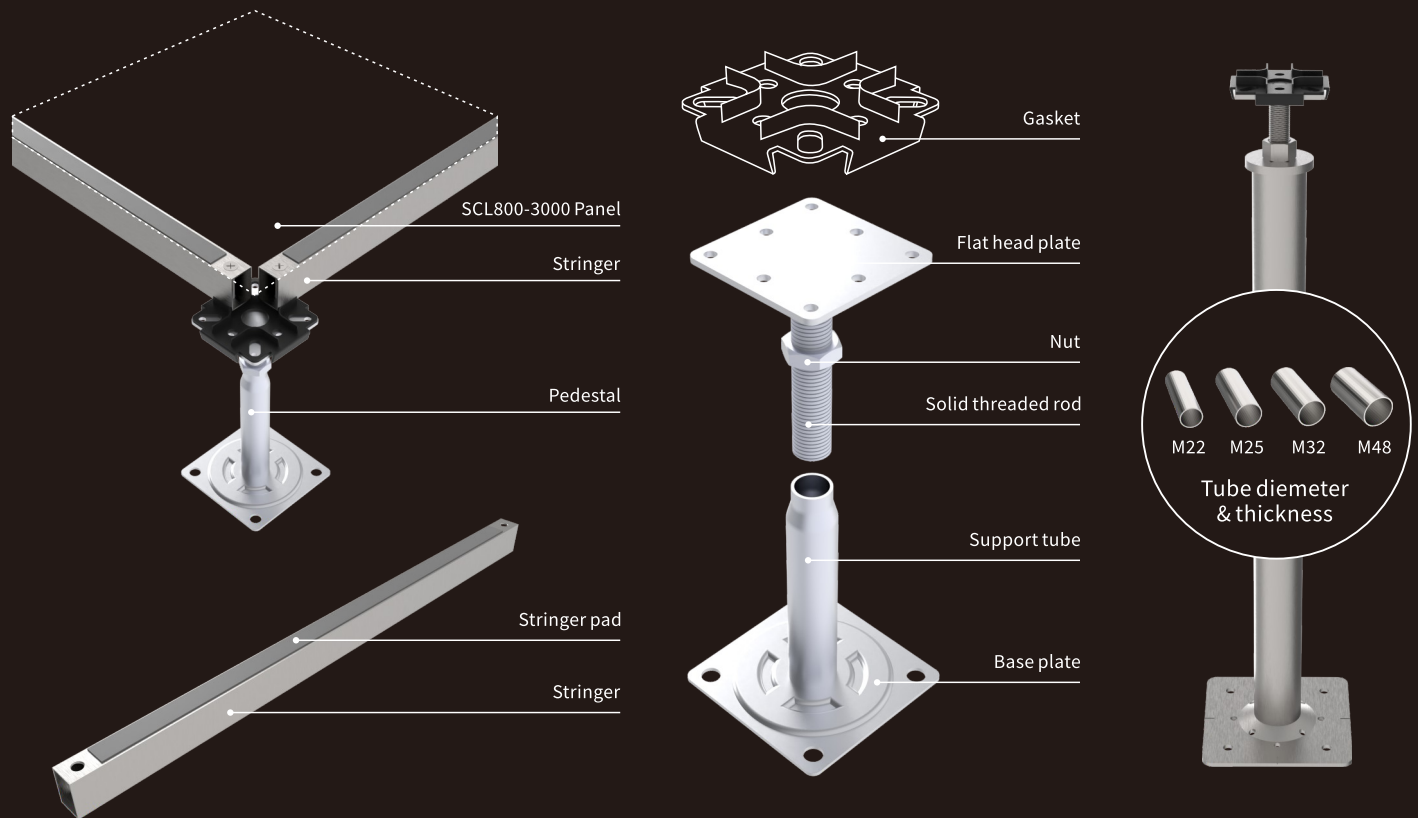
Please visit the HUIYA official website's surface finishes section for more information.

[www.huiyainc.com](http://www.huiyainc.com)



## UNDER-STRUCTURE CLASSIFICATIONS

# H80-1500mm Pedestal Type



## Under-structure Classifications

| H80-1500 Pedestal Type |                     |                                                                                          |                                                     |
|------------------------|---------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------|
| No.                    | Elements            | Dimensions (mm)                                                                          | Heights                                             |
| 1                      | Flat head plate     | 75mm×75mm×3mm thickness, 75mm×75mm×4mm thickness                                         | Heights from<br>80mm-1500mm<br>Adjustments: +/-25mm |
| 2                      | Threaded rod        | M18/M20                                                                                  |                                                     |
| 3                      | Nut                 | 1 or 2                                                                                   |                                                     |
| 4                      | Support tube        | Φ22×1.5mm Thickness, Φ25×1.2mm Thickness, Φ32×1.5mm Thickness, Φ48×1.5mm Thickness       |                                                     |
| 5                      | Base plate          | 95×95×2mm Thickness, 100×100×2mm Thickness, 125×125×3mm Thickness, 125×125×4mm Thickness |                                                     |
| 6                      | Gasket              | 76×76×1.5mm thickness                                                                    |                                                     |
| 7                      | Galvanized stringer | 570mm Length×32mm Width×21mm Height, Thickness:1.0mm                                     |                                                     |
| 8                      | Stringer pad        | 1                                                                                        |                                                     |
| 9                      | Screws              | M6×40mm                                                                                  |                                                     |



# BOND KU928C-X RAISED ACCESS FLOOR ADHESIVE

BOND KU928C-X is a high-performance, one-component, moisture-curing polyurethane resin adhesive suitable for bonding various raised floor steel and plastic pedestal. This product is VOC-resistant, free of 13 indoor substances harmful to human health, and contains no added VOCs (volatile organic compounds). Furthermore, the cured coating of BOND KU928C-X exhibits moderate elasticity, effectively preventing floor and pedestal noise issues associated with raised floor construction.

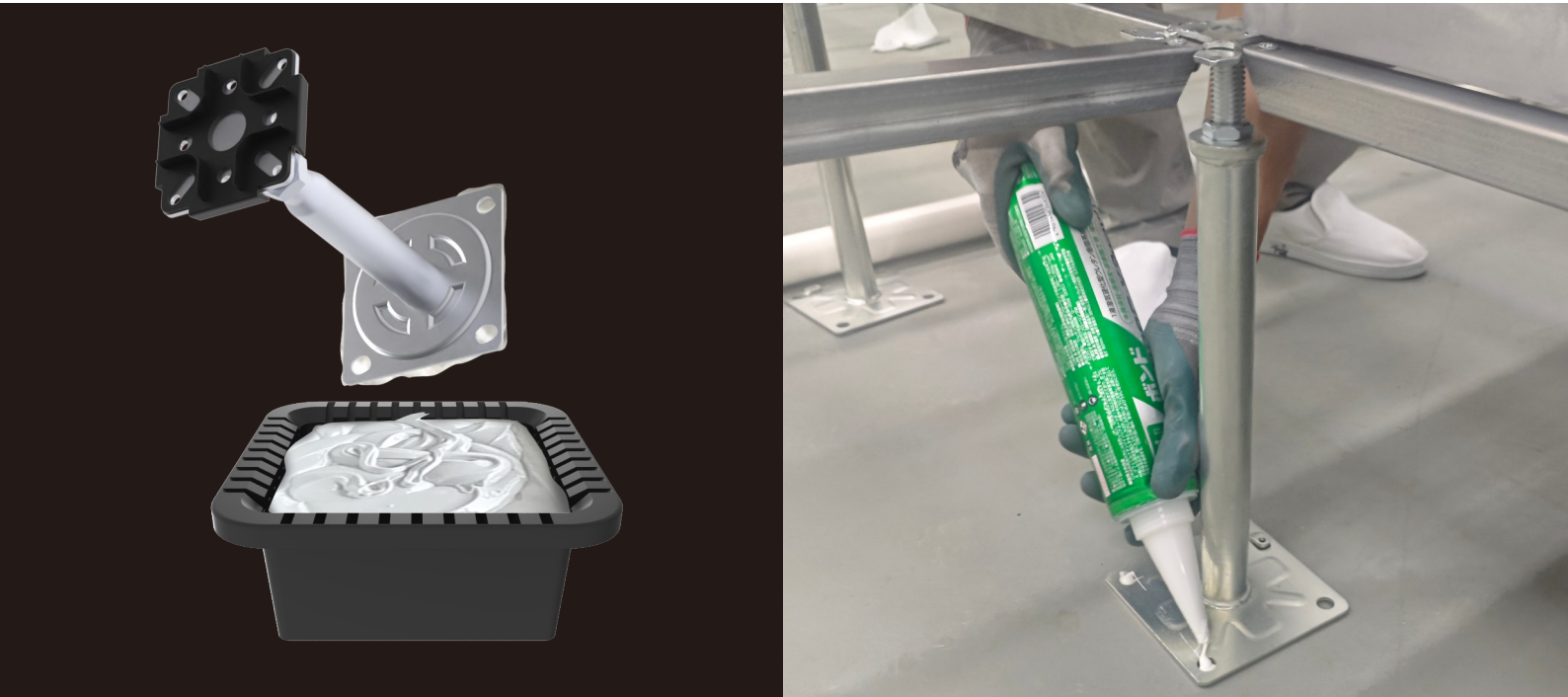
**Conforms to Japanese JIS A 5536 F☆☆☆☆ standards**

- Excellent adhesion to various metal pedestal and wood flooring materials.
- Effectively prevents friction noise from raised floor pedestal.
- Contains no harmful solvents and is virtually odorless.
- Non-hazardous and highly fire-resistant.
- Excellent water, fire, and oil resistance, making it suitable for wet area applications.
- Compatible with disposable glue containers.

Main Ingredients: Solvent-free polyurethane resin  
Appearance: Pale yellowish-white paste



**Patented design:** The glue container has a built-in scraper design function, which can be used with KONISHI Ku928 adhesive to be squeezed into the container. The glue container can just hold one Ku928 adhesive. The glue box is a disposable product and is used for large-area paving of raised floor construction sites.



## BOND STRENGTH

Bonding test between pedestal and concrete slab (KONISHI KU928 pedestal adhesive)

| 24-hour adhesive strength (N) | 7-day adhesive strength (N) |
|-------------------------------|-----------------------------|
| 2750                          | 3483                        |

