

# HUIYA BARE SC1000

## HEAVY MEDIUM-1000LBS (SC1000) TECHNICAL DATA SHEET

HUIYA Bare SC1000 steel cementitious raised access floor offers exceptional fire and load resistance, 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. HUIYA Bare SC1000 raised access floor system consists of two steel plates welded together by electric current, injected with lightweight foamed cement, and coated with a smooth epoxy anti-corrosion coating.



Outstanding static and live load performance



Panel design allows for fast and precise installation



Non-Combustible



Moisture Resistant

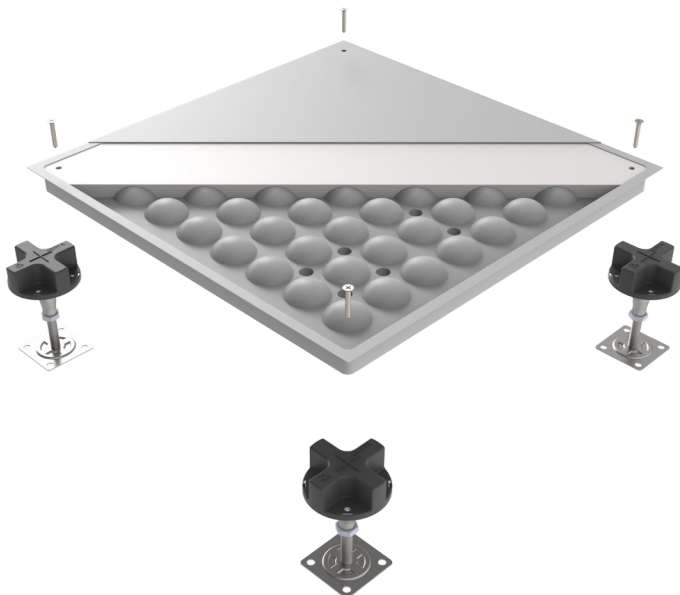


Patented design features create a quiet and comfortable underfoot solution



Excellent Earthing Continuity

## BARE SC1000 SYSTEMS



### PANEL DIMENSIONS:

Size: 600x600mm

### PANEL THICKNESS:

DEPTH 34mm

### PANEL CORE:

Steel encapsulated and cement injection compound.

### CORROSION RESISTANT PROTECTION:

Standard epoxy resin powder coated finish.

### BARE FOR FINISHING:

The raised floor is fixed with screws and various types of floor coverings can be laid after installation.

### TOLERANCE:

±0.25mm and a flatness tolerance of ±0.5mm measured diagonally across the panel surface.

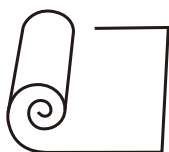
### PEDESTAL:

Solid and stable raised access floor structure consisting of steel pedestals, stringers (optional) and screws with height ranging from 60mm-2000mm.

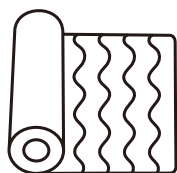
### SOUND INSULATION GASKET:

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.

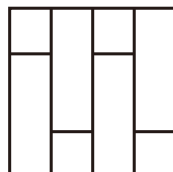
# SUITABLE FINISHES



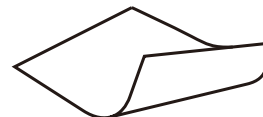
Carpet



Vinyl



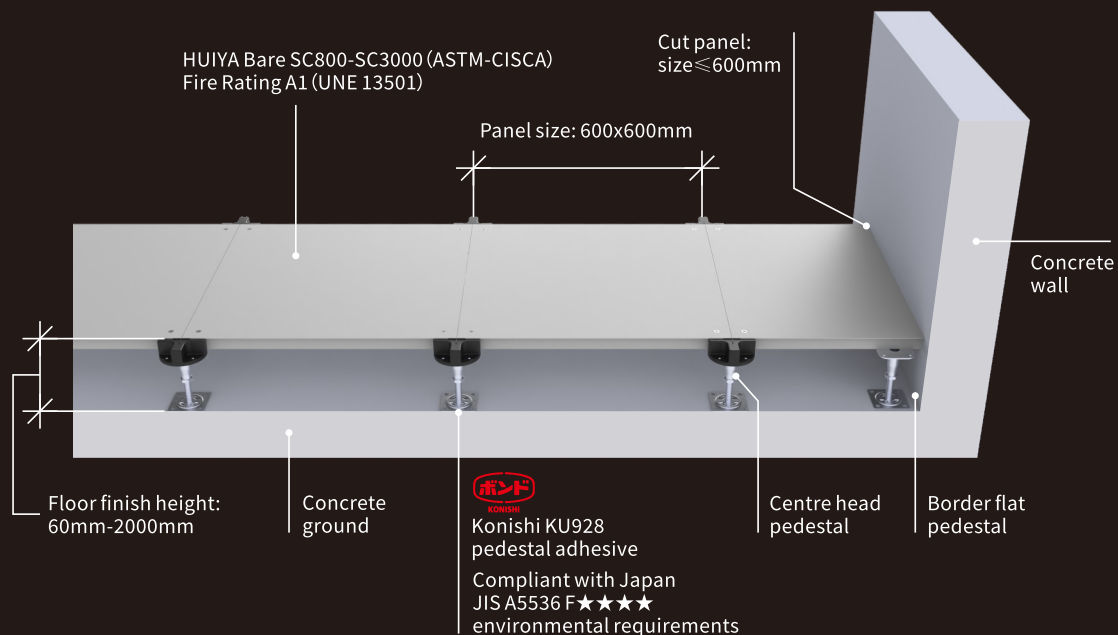
Plank Wood



Rubber

# SYSTEM ASSEMBLY

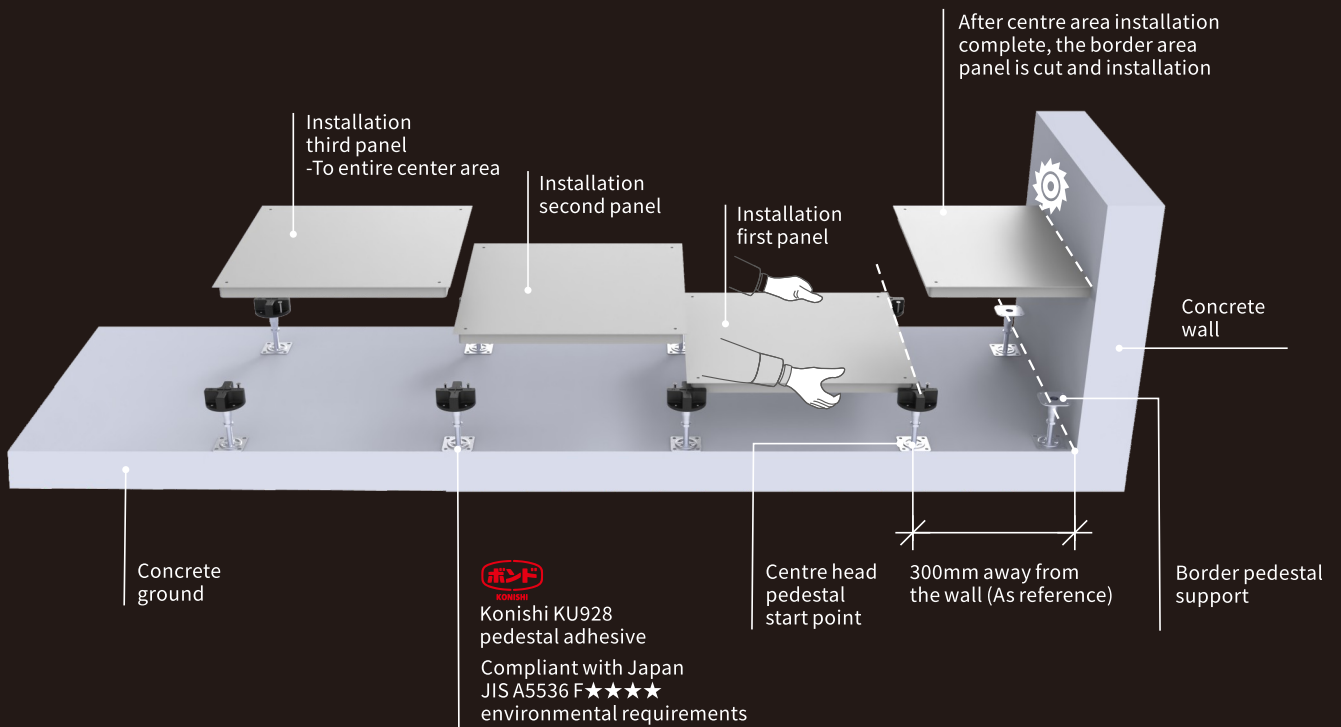
**HUIYA RAISED ACCESS FLOOR** is extremely easy to install on indoor construction sites. Each **RAISED ACCESS FLOOR** is fastened with screws, and the pedestal at the bottom of the floor is height-adjustable. This system ensures fast and efficient installation. The pedestal head features a black positioning 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



Learning  
Institutions



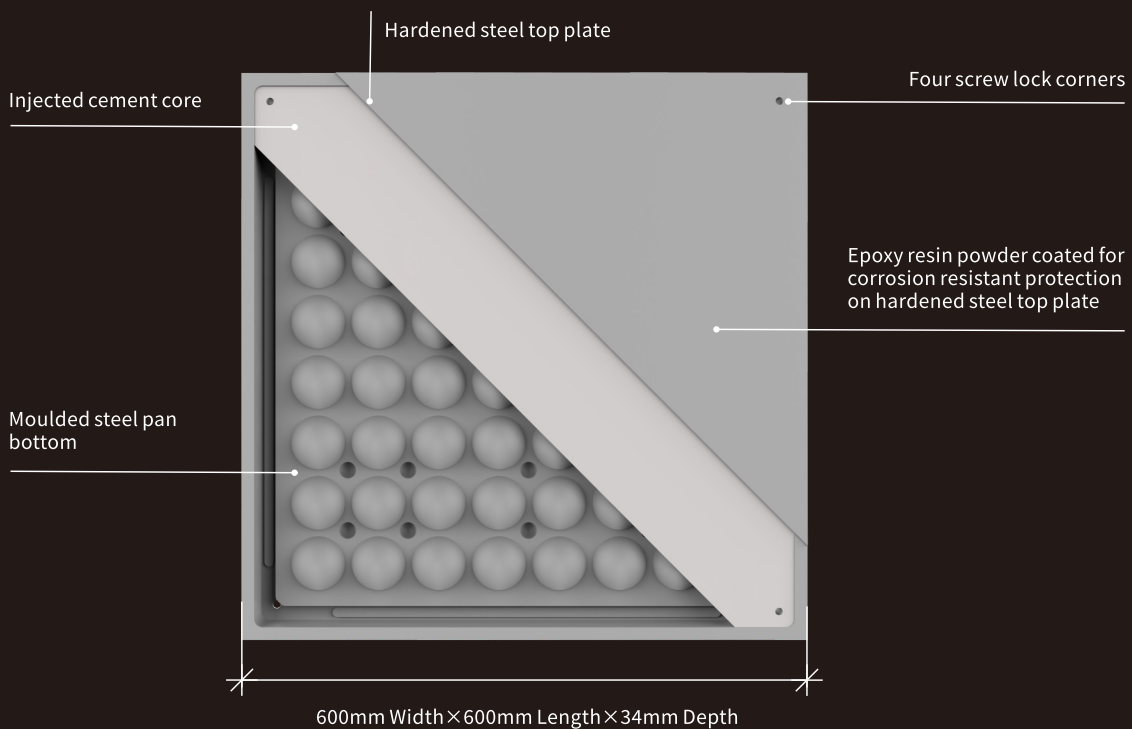
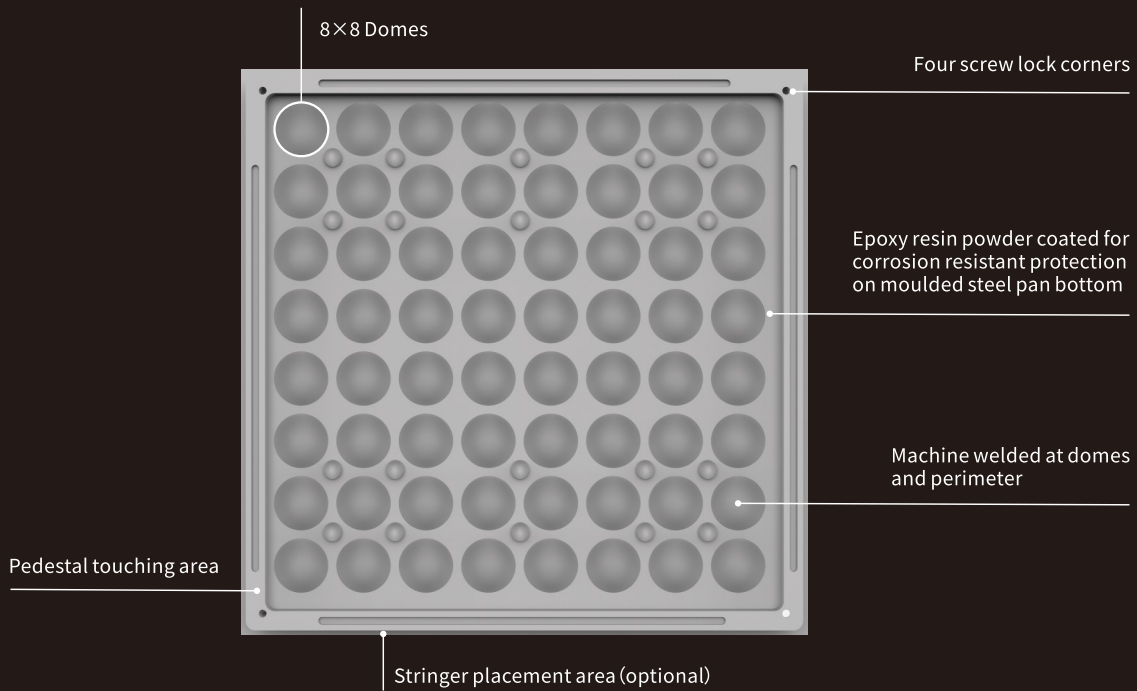
Libraries



Casinos

# BARE SC1000 PANEL INTRODUCTION

|   |    |   |                    |
|---|----|---|--------------------|
| ★ Panel Size  | mm | 600mm (length) × 600mm (Width) × 34mm (Thickness) |                    |
| ★ Steel top plate thickness                               | mm | 0.8   |                    |
| ★ Steel pan bottom thickness                              | mm | 0.9   |                    |
| ★ Epoxy resin powder coating                              | μm | 80  |                    |
| ★ Weight per panel  | kg | 14.5  |                    |
| ★ Weight per sqm (Structure finish height included 300mm) | kg | 41.9 Without stringer                             | 43.2 With stringer |



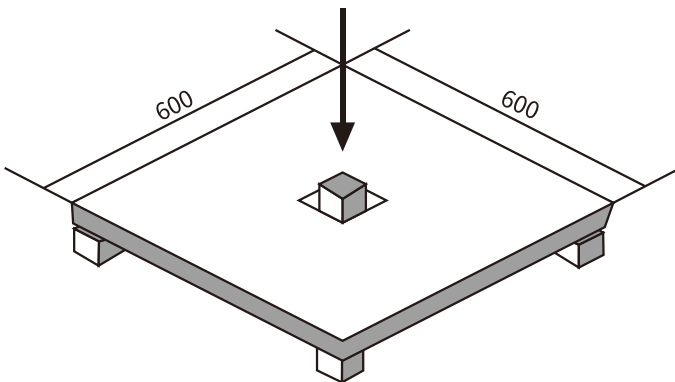
# GENERAL CHARACTERISTICS

## Bare SC1000 Characteristics

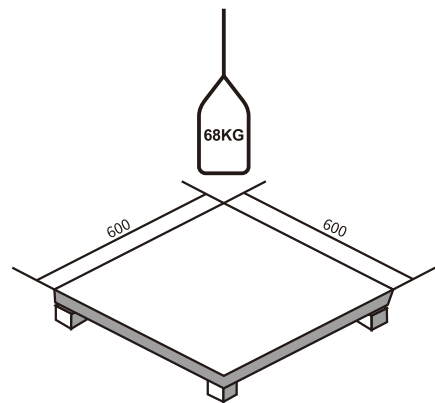
|   |                   |      |
|---|-------------------|------|
| Ultimate load   | KN                | >9.0 |
| <b>Concentrate load (Design load)</b><br>Deflection at design load (Max. 2.5mm) | KN                | 4.5  |
| Safety factor   |                   | 3.0  |
| <b>Uniform load(Distributed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

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

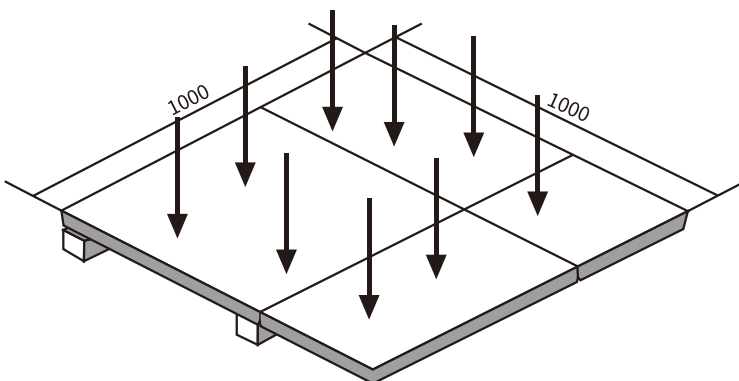
**Concentrate load(Design load)**



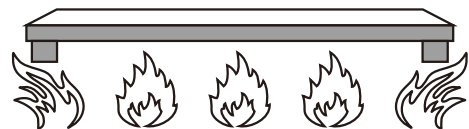
**Impact load**



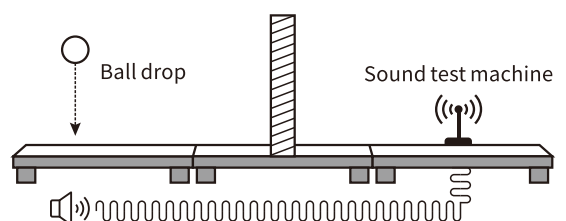
**Uniform load(Distributed load)**



**Fire resistance**

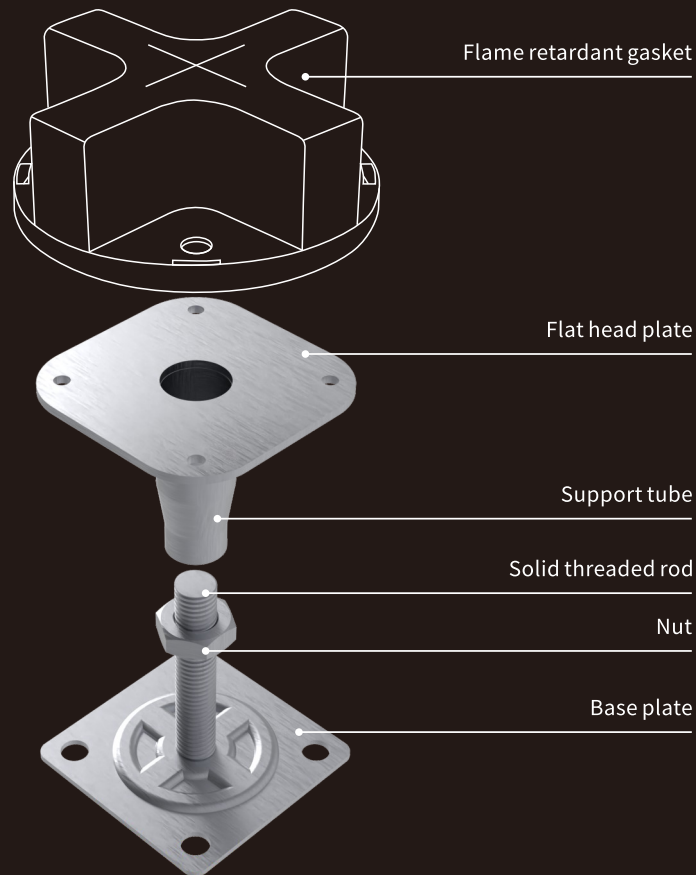


**Acoustic performance**



UNDER-STRUCTURE CLASSIFICATIONS

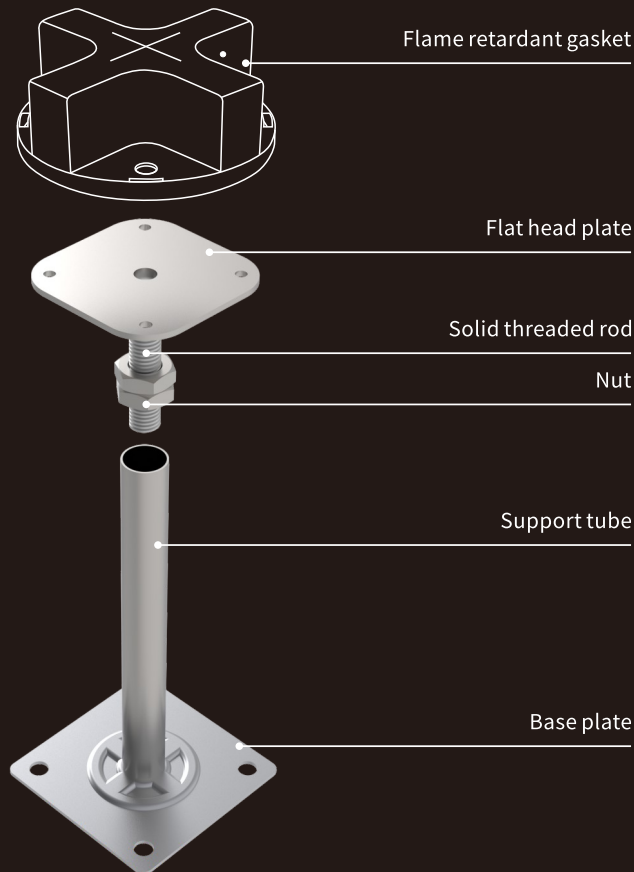
# H60-150mm HUIYA **New Design**<sup>★</sup> Pedestal Type



| H60-150mm Pedestal Type Description |                        |                         |   |
|-------------------------------------|------------------------|-------------------------|---|
| No.                                 | Elements               | Dimensions (mm)         | Heights   |
| 1                                   | Flat head plate        | 80mm×80mm×3mm Thickness | Nominal heights from 60mm-150mm<br>Adjustments: +/-25mm |
| 2                                   | Threaded rod           | M18                     |   |
| 3                                   | Nut                    | 1                       |   |
| 4                                   | Support tube           | Φ25×1.5mm Thickness     |   |
| 5                                   | Base plate             | 90×90×2mm Thickness     |   |
| 6                                   | Flame retardant gasket | Φ100×1.5mm              |   |

UNDER-STRUCTURE CLASSIFICATIONS

# H150-250mm HUIYA **New Design**<sup>\*</sup> Pedestal Type

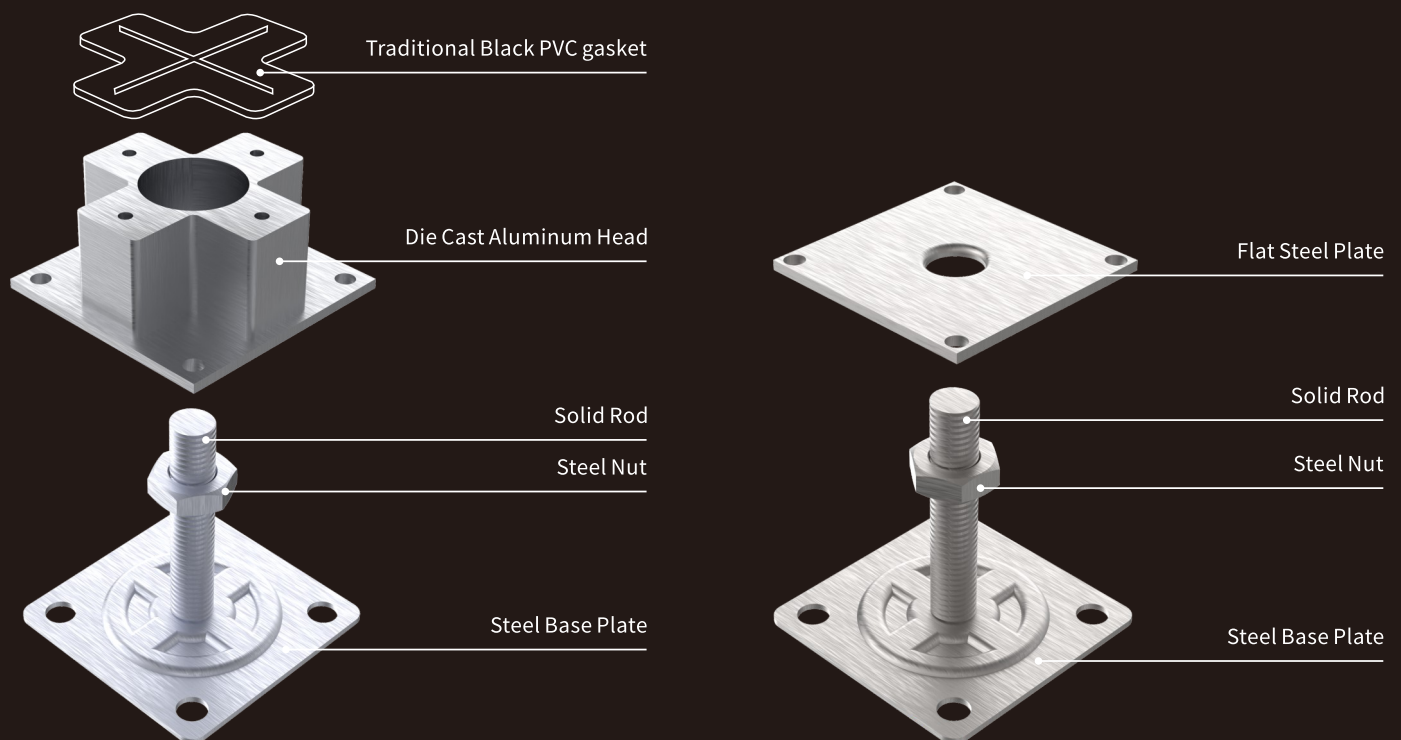


| H150-250mm Pedestal Type Description |                        |  |  |
|--------------------------------------|------------------------|--|--|
| No.                                  | Elements               | Dimensions (mm)  | Heights  |
| 1                                    | Flat head plate        | 80mm×80mm×3mm Thickness  | Heights from 150mm-250mm<br>Adjustments: +/-25mm |
| 2                                    | Support tube           | Φ22mm, thickness:1.5mm/or<br>Φ25mm, thickness:1.2mm with<br>a extra black plastic plug |  |
| 3                                    | Threaded rod           | M18  |  |
| 4                                    | Nut                    | 2  |  |
| 5                                    | Base plate             | 100mm×100mm×2mm Thickness  |  |
| 6                                    | Flame retardant gasket | Φ100×1.5mm   |  |

## UNDER-STRUCTURE CLASSIFICATIONS

# H60-150mm Traditional Aluminum Pedestal Type(Centre Pedestal)

# H60-150mm Traditional Flat Head Border Pedestal Type



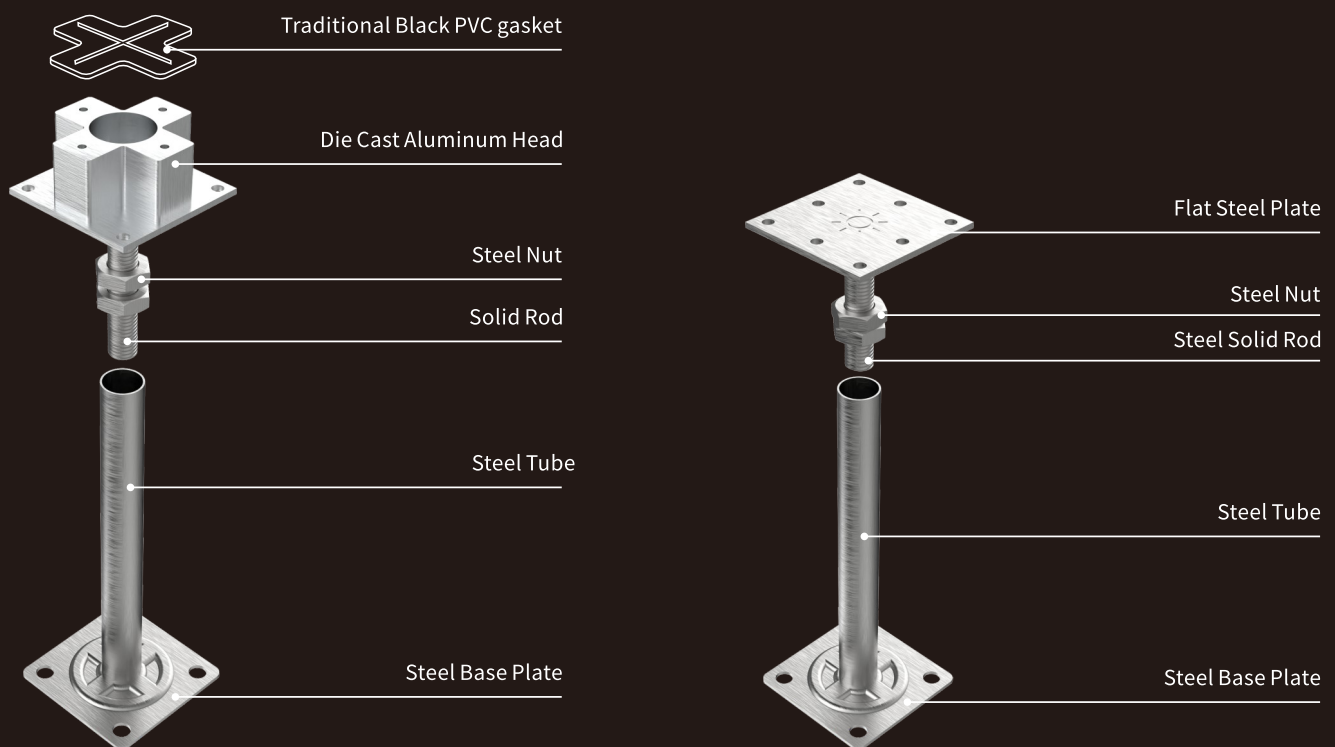
H60-150mm Traditional Pedestal Type ( Centre Pedestal/Border Pedestal ) description

| No. | Elements     | Dimensions (mm)  | Heights   |
|-----|--------------|--|---|
| 1   | Head         | <b>Centre Pedestal:</b><br>70mmx70mm Dia-cast Aluminum Head,<br>3.0mm Thickness (Aluminum Head<br>Weight: 83-85g/piece)<br><b>Border Pedestal:</b><br>75mm×75mm Steel Flat Head,3.0mm<br>Thickness | Nominal Heights from 60mm-150mm<br>Adjustments: +/-25mm |
| 2   | Threaded rod | M18  |   |
| 3   | Nut          | 1  |   |
| 4   | Base plate   | 95mm×2mm   |   |
| 5   | Gasket       | Traditional Black PVC gasket   |   |

## UNDER-STRUCTURE CLASSIFICATIONS

# H150-250mm Traditional Aluminum Pedestal Type (Centre Pedestal)

# H150-250mm Traditional Flat Head Border Pedestal Type

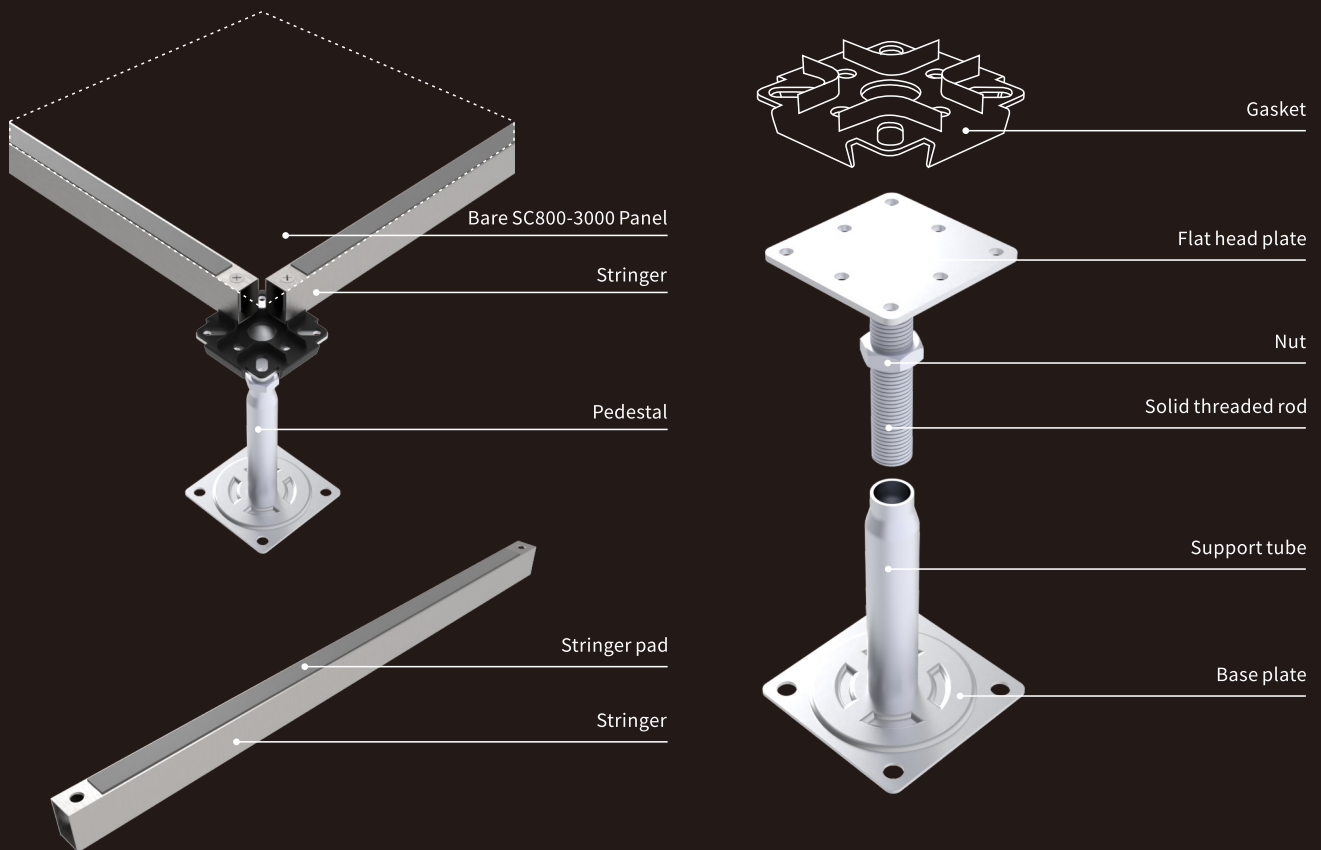


H150-250mm Traditional Pedestal Type ( Centre Pedestal/Border Pedestal ) description

| No. | Elements     | Dimensions (mm)  | Heights  |
|-----|--------------|--|--|
| 1   | Head         | <b>Centre Pedestal:</b><br>70mmx70mm Dia-cast Aluminum Head,<br>3.0mm Thickness (Aluminum Head<br>Weight: 83-85g/piece)<br><b>Border Pedestal:</b><br>75mm x 75mm Steel Flat Head,3.0mm<br>Thickness | Nominal Heights from 150mm-250mm<br>Adjustments: +/-25mm |
| 2   | Threaded rod | M18  |  |
| 3   | Nut          | 2  |  |
| 4   | Steel Tube   | Φ22mm, thickness:1.5mm/or Φ25mm,<br>thickness:1.2mm with a black plastic plug  |  |
| 5   | Base plate   | 95mm x 95mm x 2mm  |  |
| 6   | Gasket       | Traditional Black PVC gasket   |  |

## UNDER-STRUCTURE CLASSIFICATIONS

# H250-2000mm Pedestal Type



| H250-2000mm Pedestal Type |                     |  |  |
|---------------------------|---------------------|--|--|
| No.                       | Elements            | Dimensions (mm)  | Heights  |
| 1                         | Flat head plate     | 75mm×75mm×3mm thickness, 75mm×75mm×4mm thickness   | Heights from<br>250mm-2000mm<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  |  |



**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                        |

