

# HUIYA PBL800

## LIGHT-800LBS (PBL800) TECHNICAL DATA SHEET

HUIYA PBL800 raised access floor is an industrial-grade flooring system with high-density particleboard as its core material. Due to its lightweight, comfortable walking experience, and high cost-effectiveness, it is widely used in banks, intelligent office buildings, and various telecommunications equipment rooms. The HUIYA PBL800 raised floor substrate uses 35mm thick high-density particleboard, which has good fire resistance. Embossed aluminum foil or galvanized steel sheet is typically glued to the bottom to enhance moisture resistance. The edges are sealed with black conductive PVC strips to prevent mechanical damage and moisture intrusion. HUIYA PBL800 raised floor is lightweight and quiet, making installation and handling easier. Furthermore, due to the inherent sound-absorbing properties of wood, walking noise is low. It can be finished with PVC, ceramic tiles, carpet, or natural wood veneer, depending on requirements.



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 PBL800 SYSTEMS



### PANEL DIMENSIONS:

Size: 600x600mm

### PANEL THICKNESS:

DEPTH 35mm

### PANEL CORE:

High-density calcium sulfate substrate (650kg/m<sup>3</sup>).

### CORROSION RESISTANT PROTECTION:

Bottom Galvanized Steel/Aluminum Foil.

### FINISHED:

Surface HPL/ESD Tile Finishes/Ceramic Tile/Plank Wood/Rubber

### TOLERANCE:

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

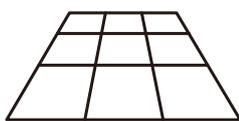
### PEDESTAL:

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

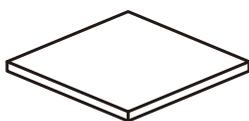
### SOUND INSULATION GASKET:

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

# SUITABLE FINISHES



High pressure  
Laminate



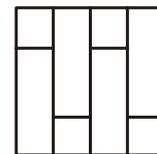
Conductive  
ESD Tile



Carpet



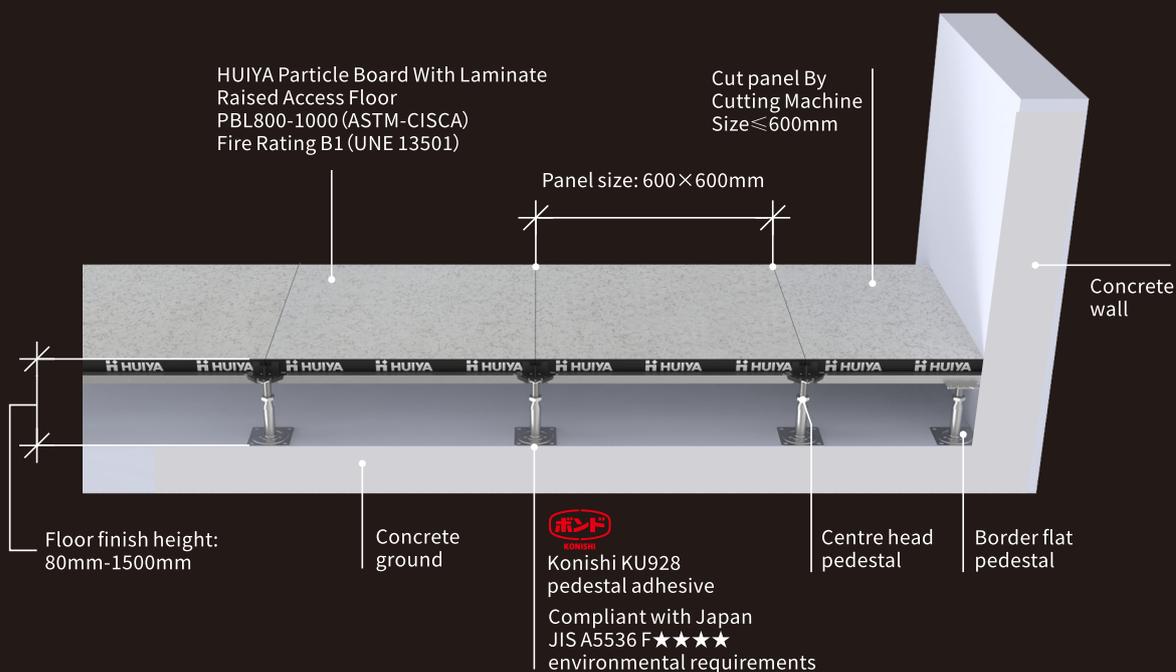
Rubber



Plank Wood

# SYSTEM ASSEMBLY

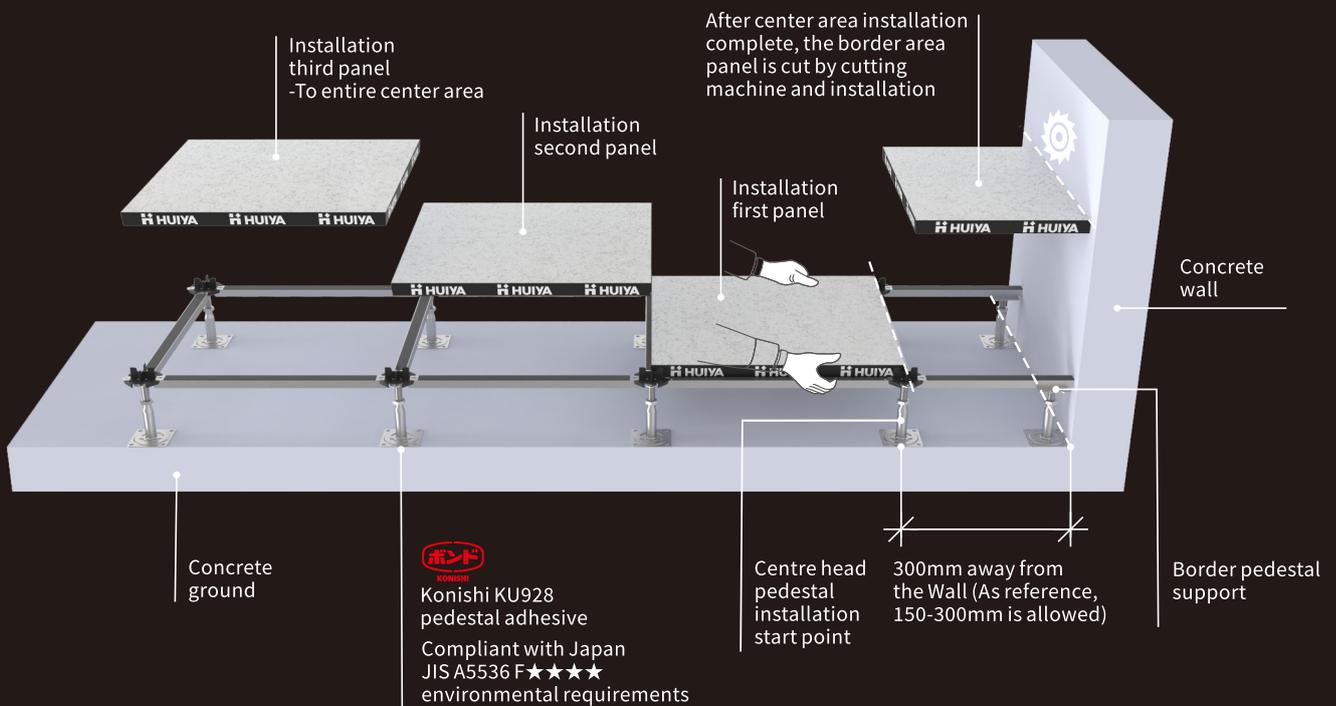
**HUIYA RAISED ACCESS FLOOR** is extremely easy to install on indoor construction sites. Each **RAISED ACCESS FLOOR** is fastened with screws, and the pedestal at the bottom of the floor is height-adjustable. This system ensures fast and efficient installation. The pedestal head features a black positioning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



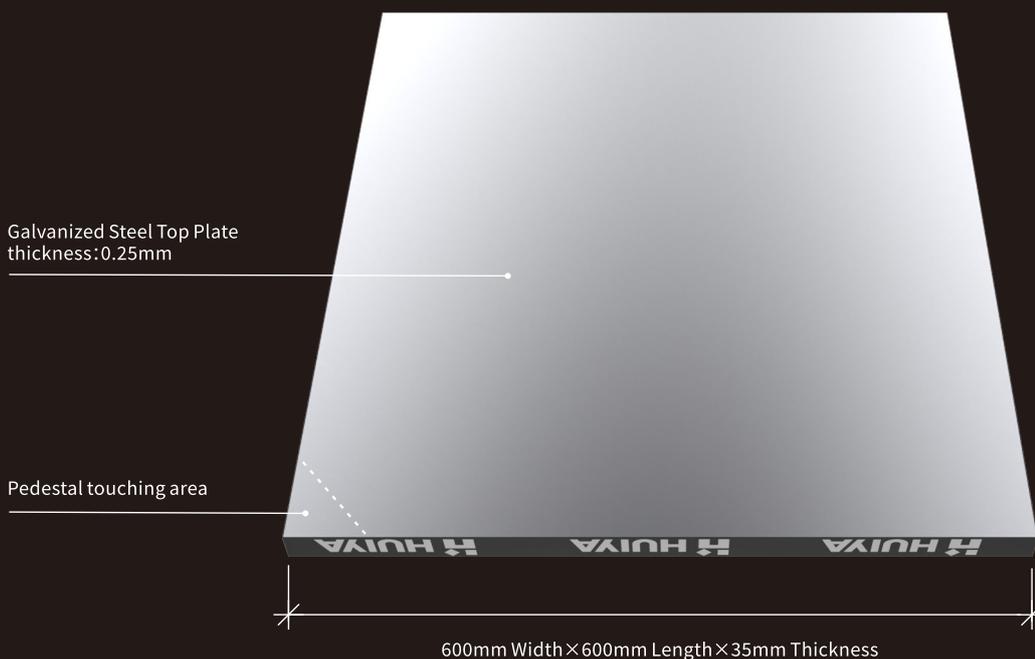
Libraries



Casinos

# HUIYA PBL800 PANEL INTRODUCTION

★ Panel Size	mm	600×600×35	
★ Surface Laminate Cover		HPL/ESD tile Finishes/Ceramic Tile/Plank wood/Rubber	
★ Galvanized Steel Bottom Plate thickness	mm	0.25	
★ Core		High-density particle board substrate (650kg/m <sup>3</sup> )	
★ Glue		DIABOND DC7000 strong adhesive (JAPAN)	
★ Weight per panel	kg	9.4	
★ Weight per sqm (Structure finish height included 300mm)	kg	27.8 without stringer	29.4 with stringer



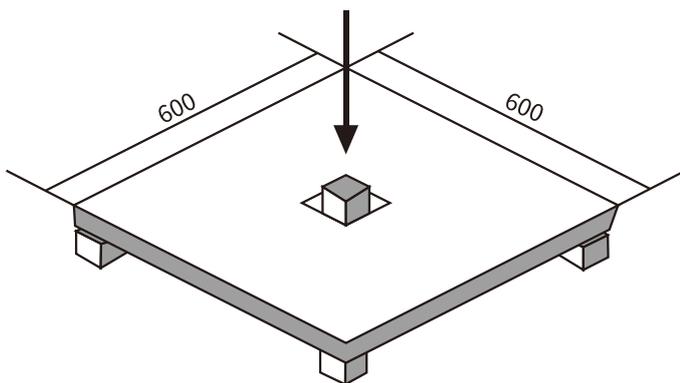
# GENERAL CHARACTERISTICS

## PBL800 Characteristics

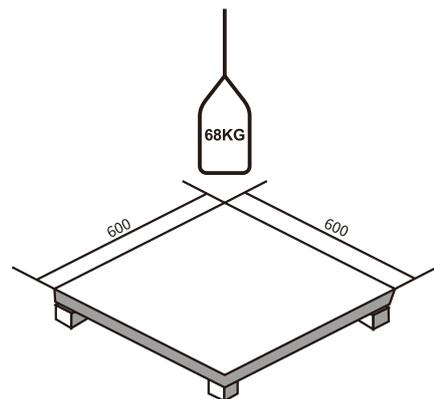
Ultimate load	KN	>7.2
<b>Concentrate load (Design load)</b> Deflection at design load (Max. 2.5mm)	KN	3.6
Safety factor		3.0
<b>Uniform load(Distributed load)</b>	KN/m <sup>2</sup>	18
<b>Impact load</b> (Sand bags impact and panel without broken)	KG	68

<b>Fire resistance</b>	EN13501-1:2002	B1
<b>Acoustic performance</b>	ASTM E492-09	Calculated impact insulation class: IIC 58

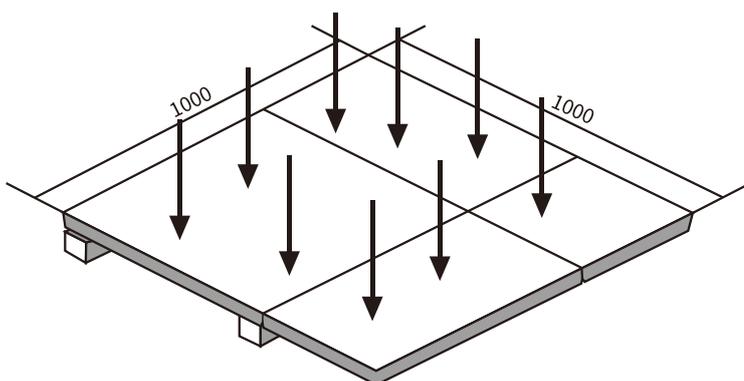
**Concentrate load(Design load)**



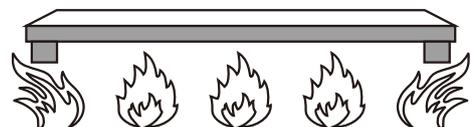
**Impact load**



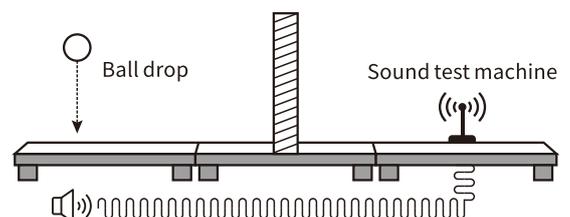
**Uniform load(Distributed load)**



**Fire resistance**

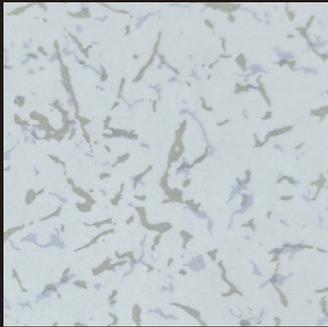


**Acoustic performance**



# ANTISTATIC HPL TILES

HUIYA PBL 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 PBL series raised access floor.



HPL-E84



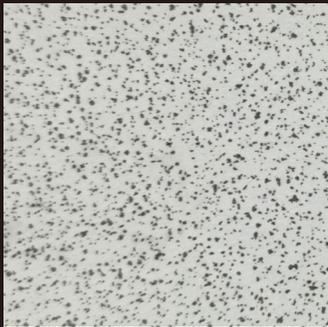
HPL-E86



HPL-E80



HPL-E28



HPL-F23



HPL-F27



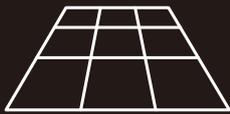
HPL-F28



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.

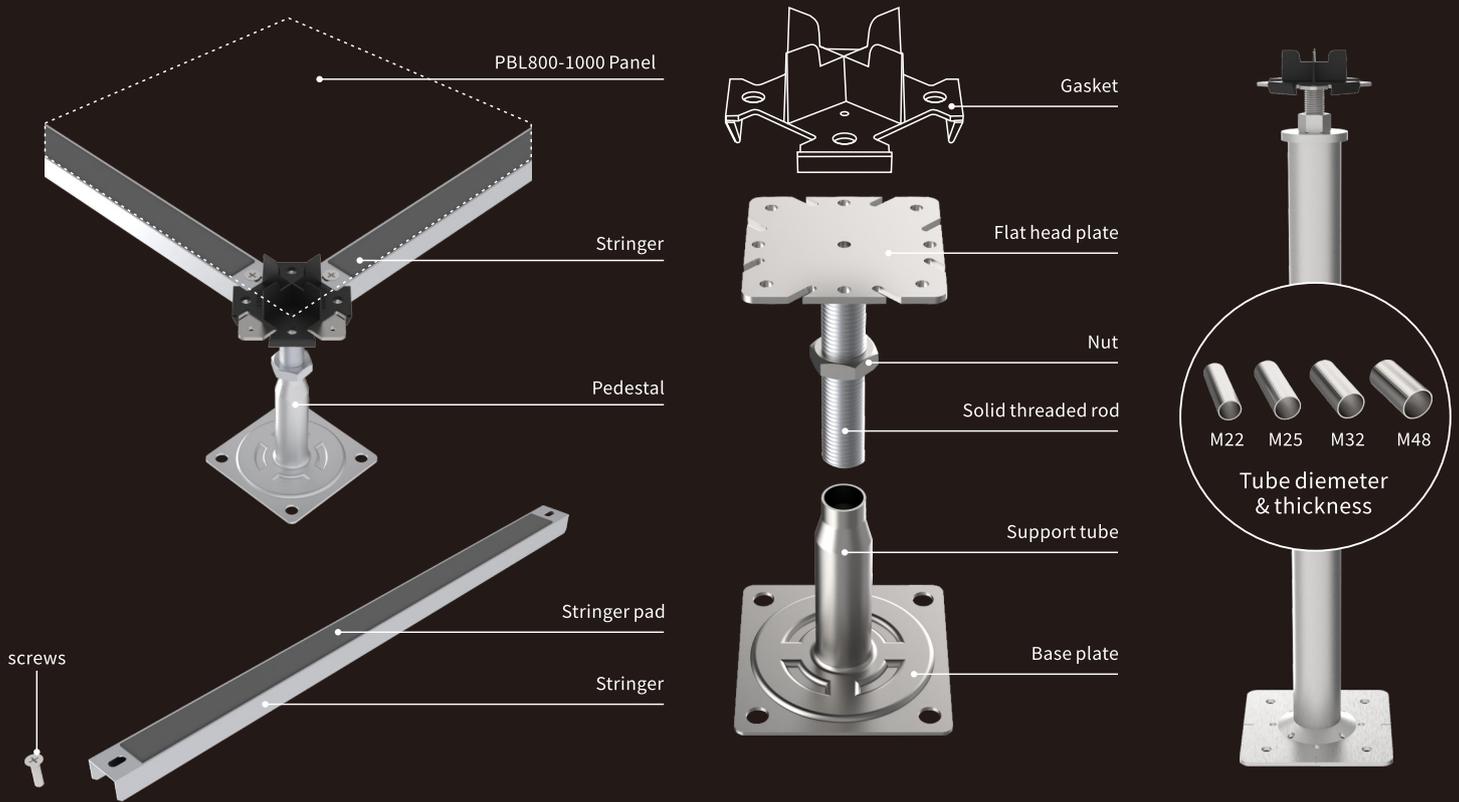
Please visit the HUIYA official website's surface finishes section for more information.

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



## UNDER-STRUCTURE CLASSIFICATIONS

# H80-1500mm Pedestal Type



## Under-structure Classifications

H80-1500 Pedestal Type			Heights
No.	Elements	Dimensions (mm)	
1	Flat head plate	75mm×75mm×3mm thickness, 75mm×75mm×4mm thickness	Heights from 80mm-1500mm 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	540mm Length×32mm Width×21mm Height, Thickness:1.0mm	
8	Stringer pad	1	
9	Screws	M6×40mm	

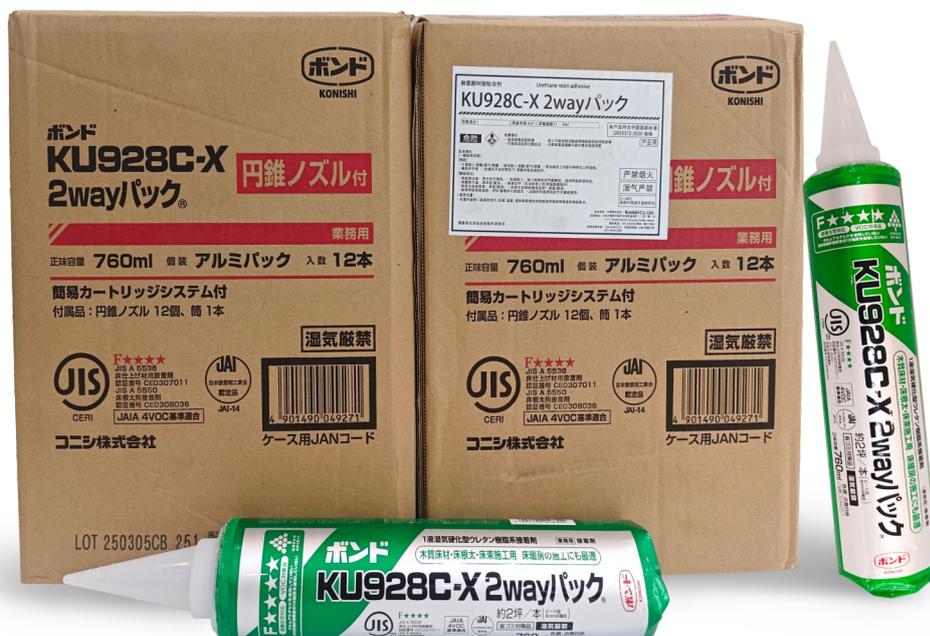
# BOND KU928C-X RAISED ACCESS FLOOR ADHESIVE

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

