

HUIYA SCL800

LIGHT-800LBS (SCL800) TECHNICAL DATA SHEET

The HUIYA SCL800 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 SCL800 SYSTEMS



PANEL DIMENSIONS:

Size: 600x600mm

PANEL THICKNESS:

DEPTH 35mm

PANEL CORE:

Fly Ash Foamed Portland Cement (FAPC) (1550kg/m³).

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.

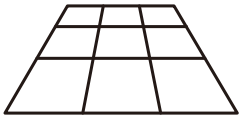
PEDESTAL:

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

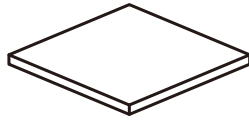
SOUND INSULATION GASKET:

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.

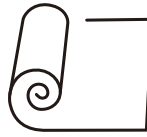
SUITABLE FINISHES



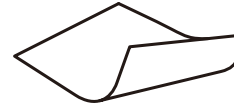
High pressure
Laminate



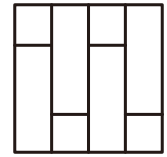
Conductive
ESD Tile



Carpet



Rubber



Plank Wood

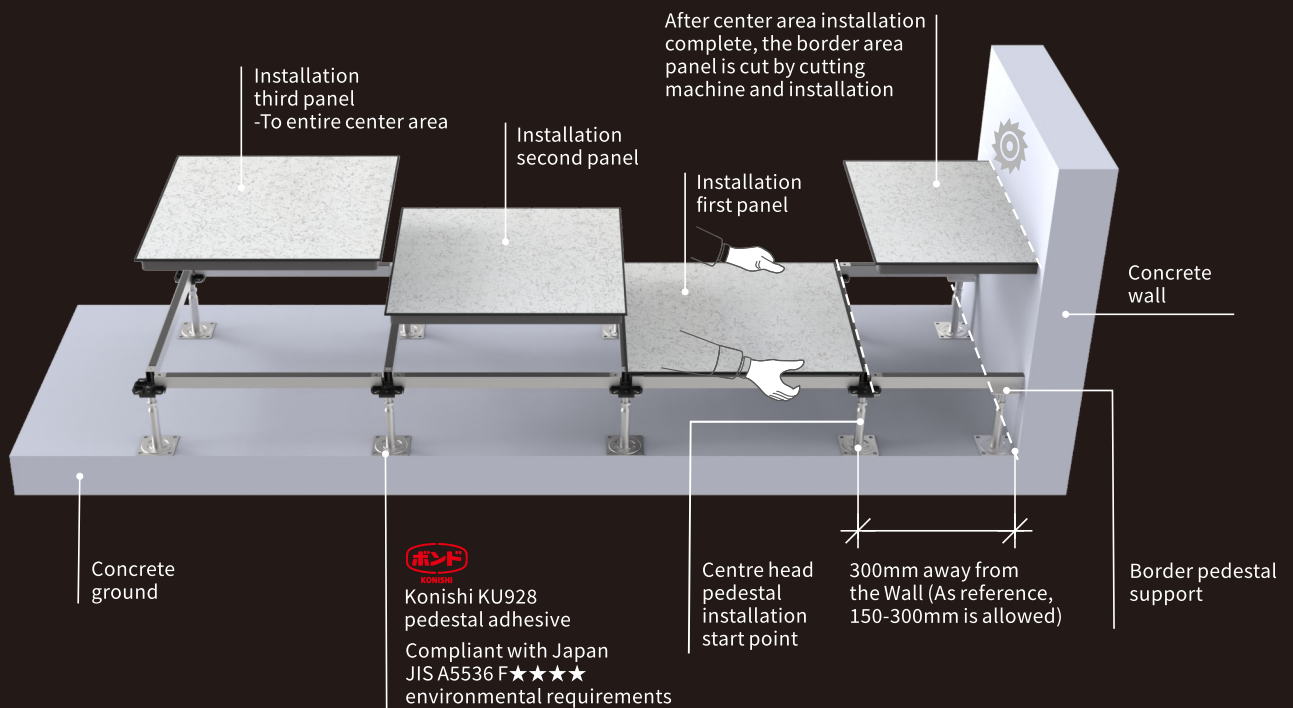
SYSTEM ASSEMBLY

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



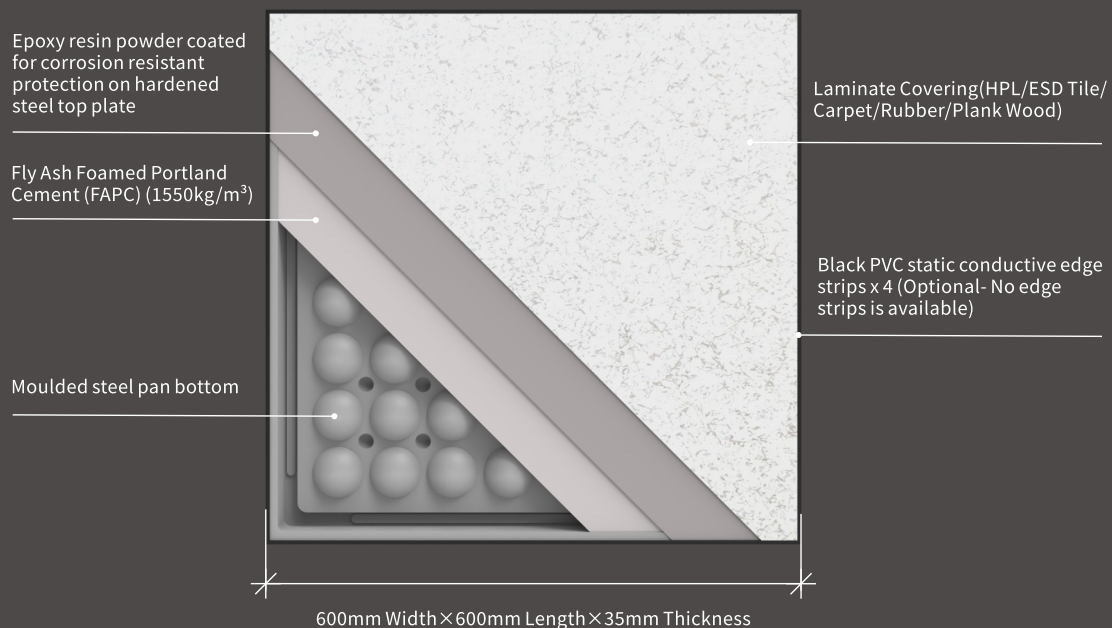
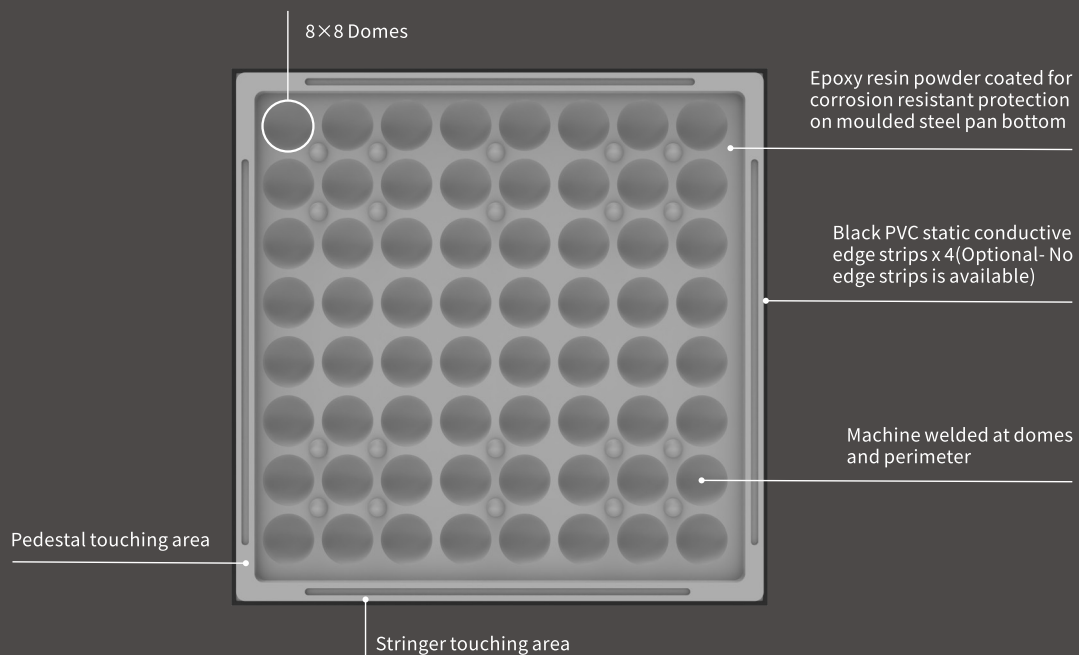
Libraries



Casinos

HUIYA SCL800 PANEL INTRODUCTION

★ Surface Laminate Cover		HPL/ ESD Tile/Carpet/Rubber/Plank Wood	
★ Core		Fly Ash Foamed Portland Cement (FAPC) (1550kg/m ³)	
★ Glue		DIABOND DC7000 strong adhesive (JAPAN)	
★ Steel top plate thickness	mm	0.6	
★ Steel pan bottom thickness	mm	0.7	
★ Epoxy resin powder coating	μm	80	
★ Weight per panel	kg	13.3kg+Extra Weight of Laminate Covering	
★ Weight per sqm (Structure finish height included 300mm)	kg	39.3kg+Extra Weight of Laminate Covering without stringer	41.3kg+ Extra Weight of Laminate Covering with stringer



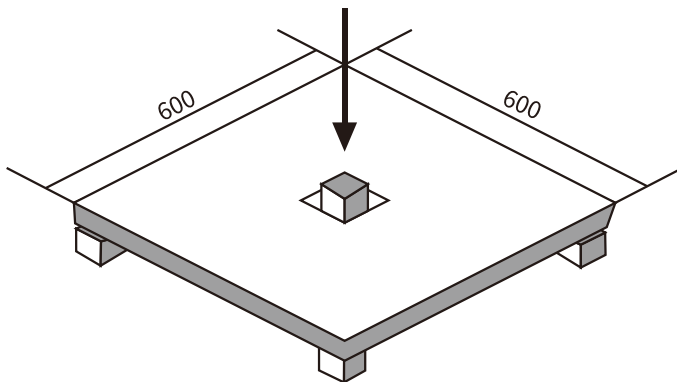
GENERAL CHARACTERISTICS

SCL800 Characteristics

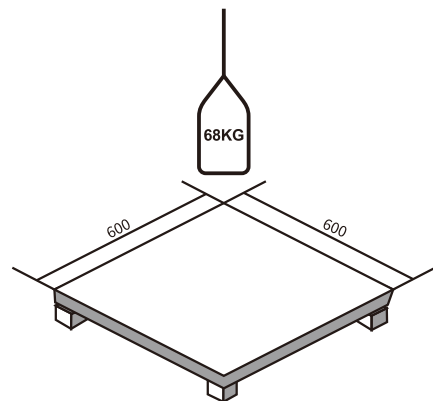
Ultimate load	KN	>7.2
Concentrate load (Design load) Deflection at design load (Max. 2.5mm)	KN	3.6
Safety factor		3.0
Uniform load(Distributed load)	KN/m ²	18.0
Impact load (Sand bags impact and panel without broken)	KG	68

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

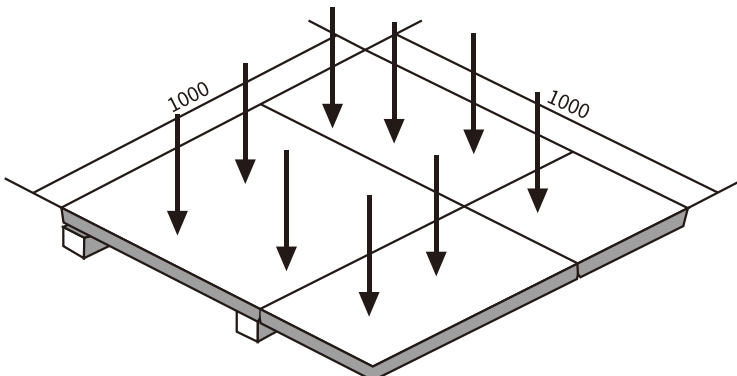
Concentrate load(Design load)



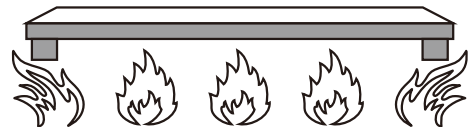
Impact load



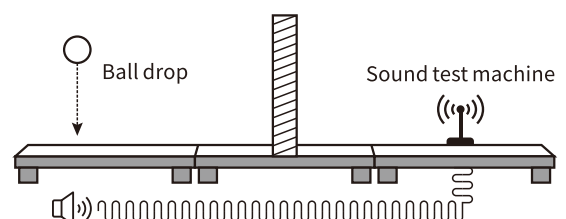
Uniform load(Distributed load)



Fire resistance

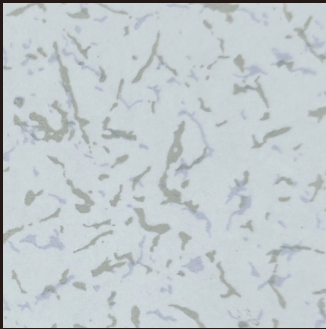


Acoustic performance



ANTISTATIC HPL TILES

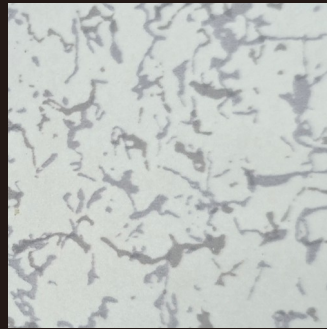
HUIYA SCL series raised access floor can be bonded with HUIYA's HPL Tile (High Pressure Laminate) series. This bonding process results in a raised access floor with excellent anti-static capabilities, providing effective anti-static protection. The HPL surface also possesses high wear resistance properties.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



HPL-E84



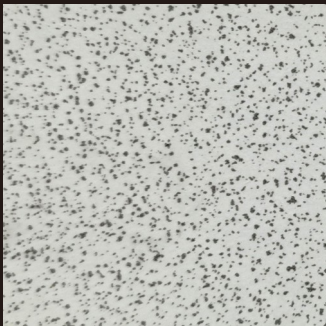
HPL-E86



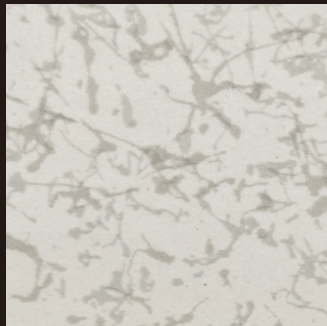
HPL-E80



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.

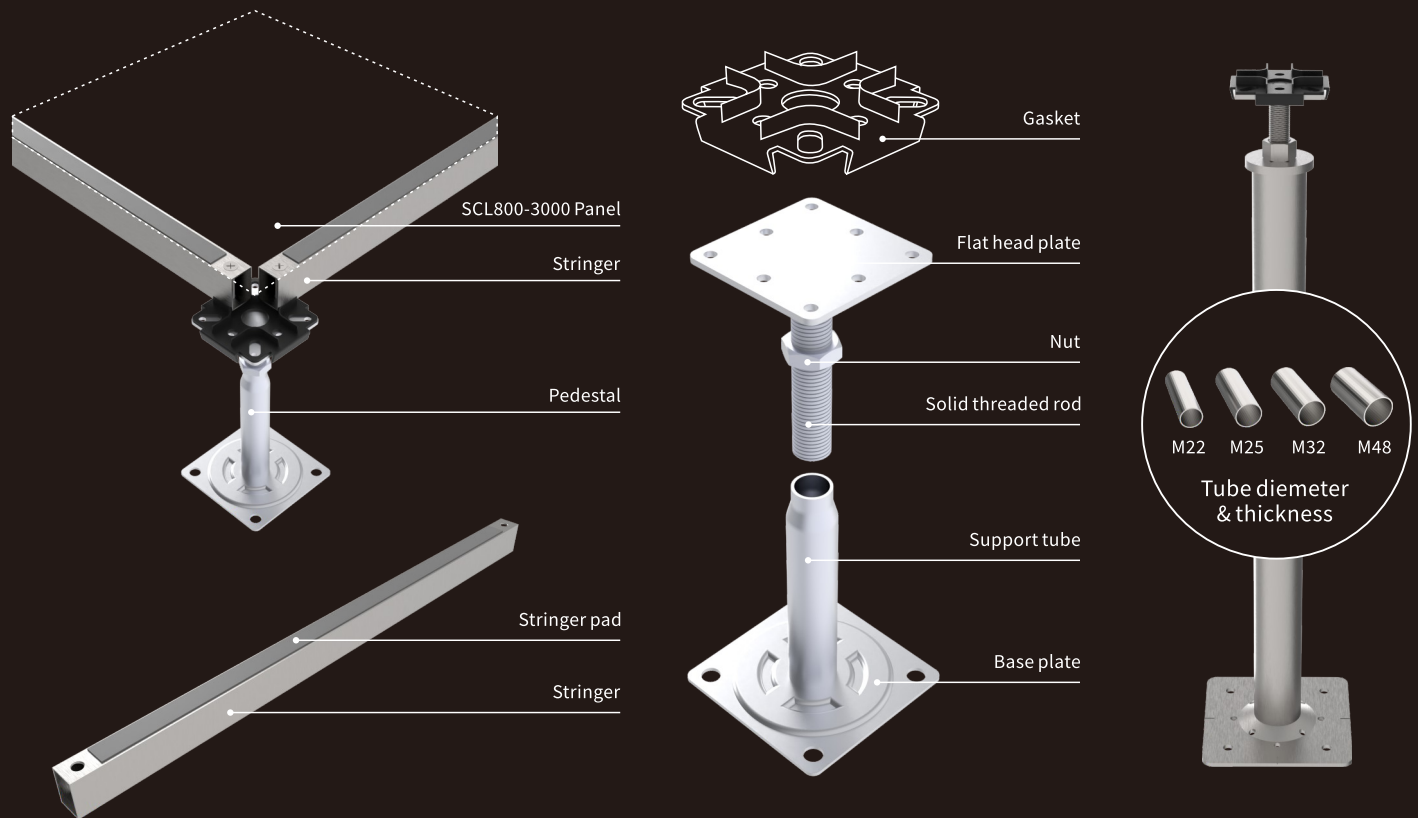
Please visit the HUIYA official website's surface finishes section for more information.

www.huiyainc.com



UNDER-STRUCTURE CLASSIFICATIONS

H80-1500mm Pedestal Type



H80-1500 Pedestal Type			
No.	Elements	Dimensions (mm)	Heights
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	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.

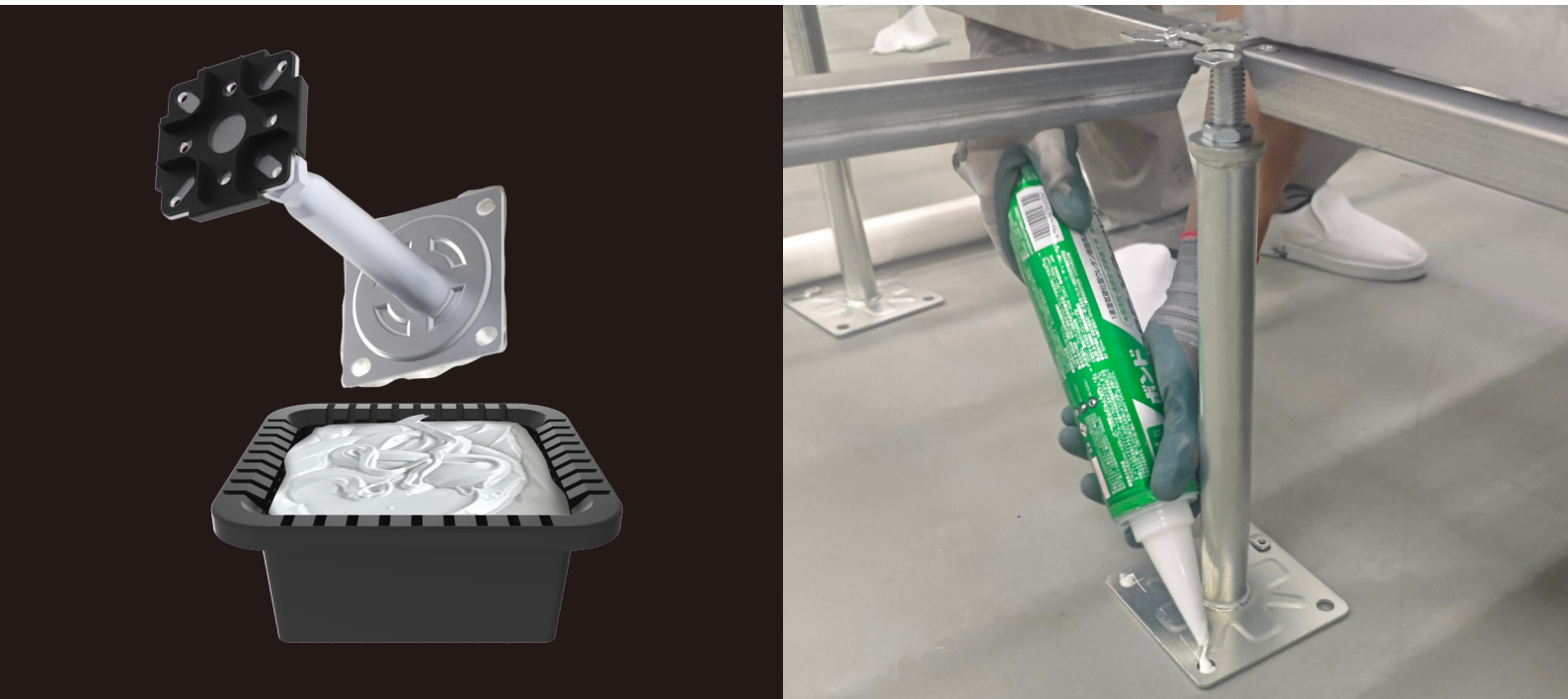
Conforms to Japanese JIS A 5536 F☆☆☆☆ standards

- 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

