

HUIYA ECS 1000

HEAVY MEDIUM-1000LBS (ECS1000) TECHNICAL DATA SHEET

The HUIYA ECS 1000 Encapsulated Galvanized Steel Calcium Sulphate 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. Composed primarily of calcium sulphate as the main substrate, This Raised Access Floor system is widely used in office environments and demonstrates excellent impact resistance. It offers outstanding fire resistance, producing no toxic gases when exposed to fire, ensuring safety in office 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

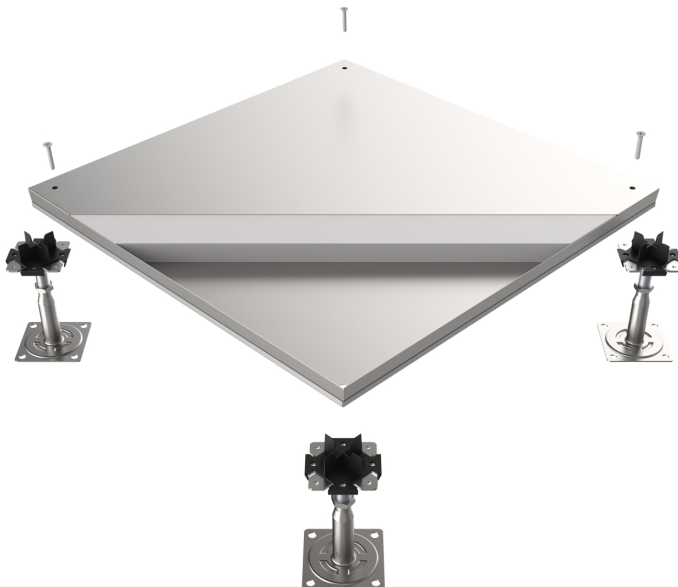


Patented design features create a quiet and comfortable underfoot solution



Excellent Earthing Continuity

HUIYA ECS 1000 SYSTEMS



PANEL DIMENSIONS:

Size: 600x600mm

PANEL THICKNESS:

DEPTH 30mm

PANEL CORE:

High-density calcium sulfate substrate (1600kg/m³).

CORROSION RESISTANT PROTECTION:

Galvanized steel plate with anti-rust varnish coating on the surface.

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 on a diagonal across the top of the panel finish.

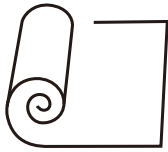
PEDESTAL:

Solid and stable raised access floor structure consisting of steel pedestals, stringers (optional) and screws reaching heights from 60mm to 2000mm.

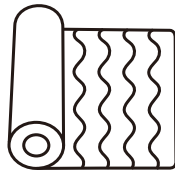
SOUND INSULATION GASKET:

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.

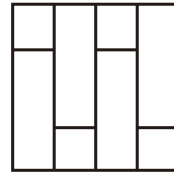
SUITABLE FINISHES



Carpet



Vinyl



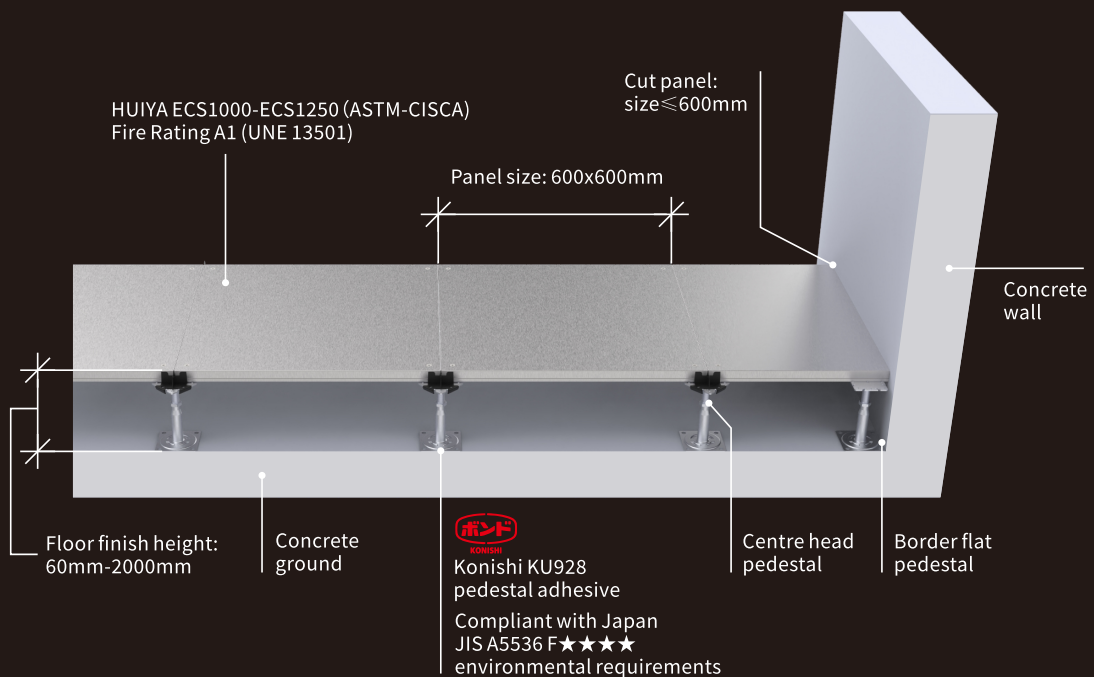
Plank Wood



Rubber

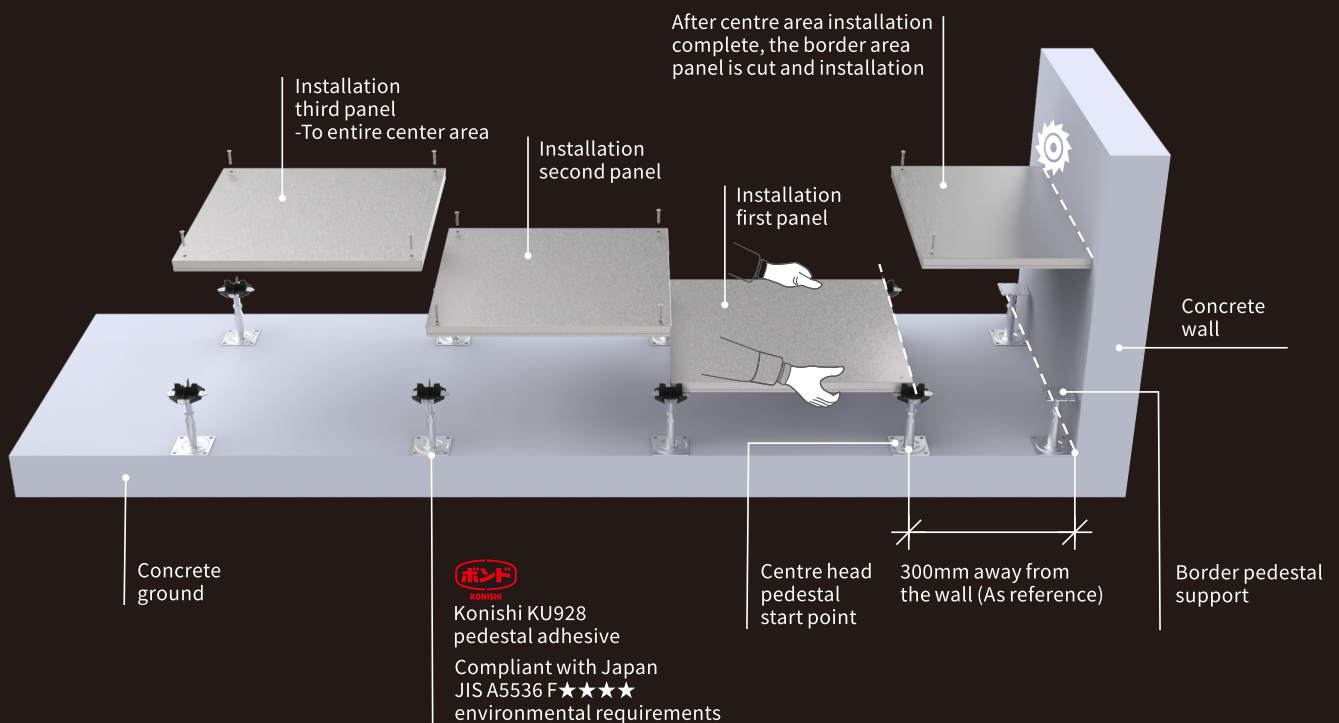
ASSEMBLY INTRODUCTION

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



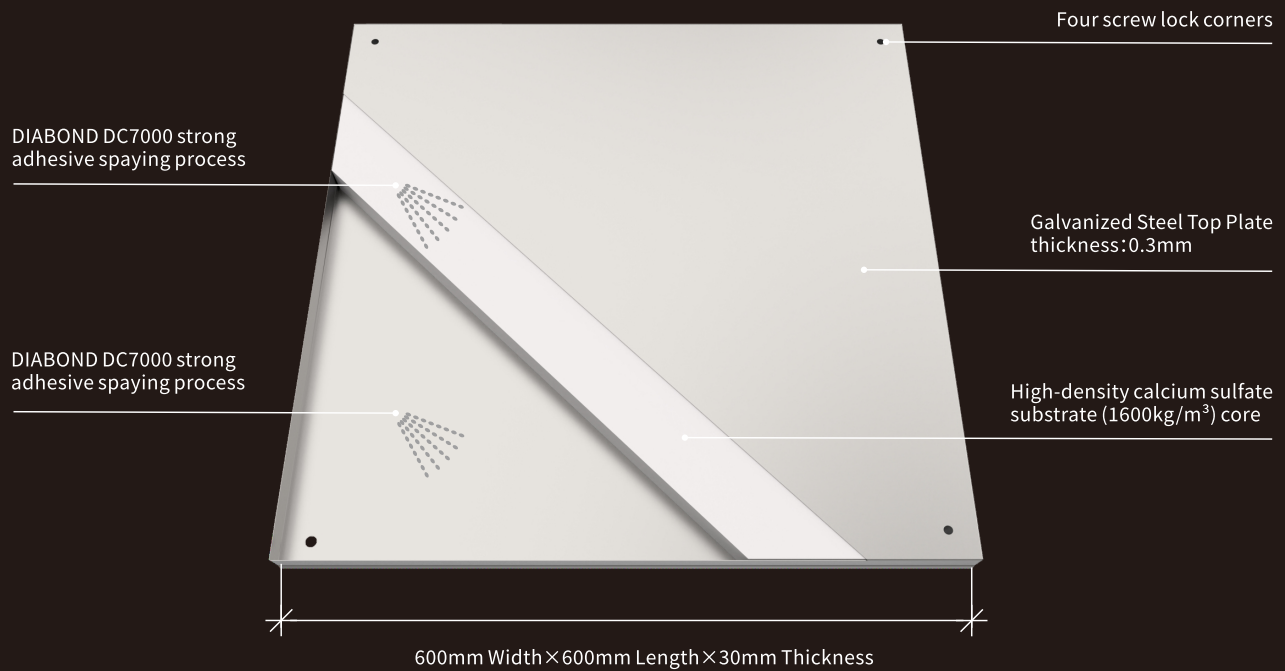
Libraries



Casinos

BARE ECS1000 PANEL INTRODUCTION

★ Galvanized Steel Top Plate thickness	mm	0.3	
★ Galvanized Steel Bottom Plate thickness	mm	0.3	
★ Core		High-density calcium sulfate substrate (1600kg/m ³)	
★ Glue		DIABOND DC7000 strong adhesive (JAPAN)	
★ Weight per panel	kg	18.5	
★ Weight per sqm (Structure finish height included 300mm)	kg	52.6 Without stringer	53.9 With stringer



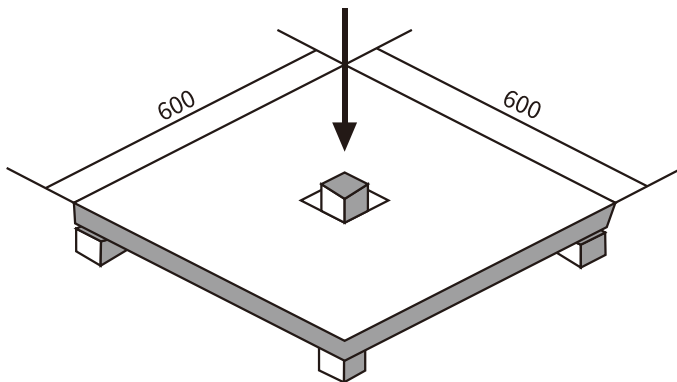
GENERAL CHARACTERISTICS

HUIYA ECS1000 Characteristics

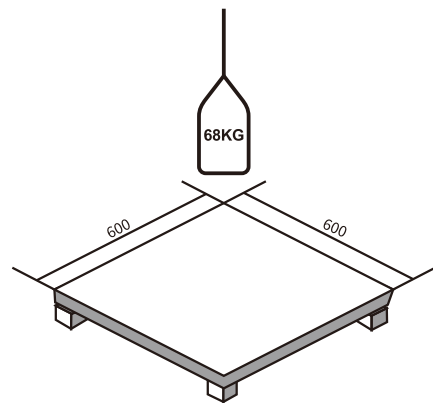
Ultimate load	KN	>9.0
Concentrate load (Design load) Deflection at design load (Max. 2.5mm)	KN	4.5
Safety factor		3.0
Uniform load(Distributed load)	KN/m ²	22.5
Impact load (Sand bags impact and panel without broken)	KG	68

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

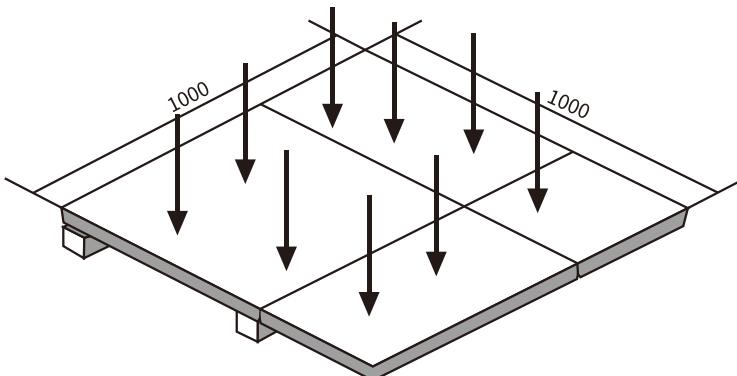
Concentrate load(Design load)



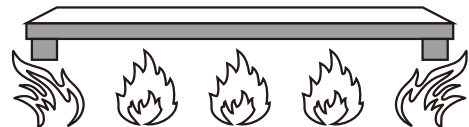
Impact load



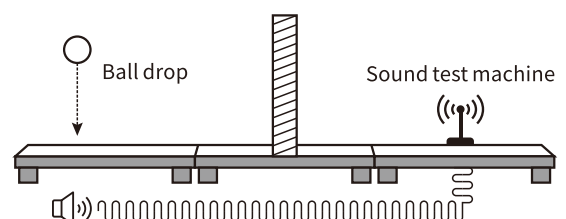
Uniform load(Distributed load)



Fire resistance

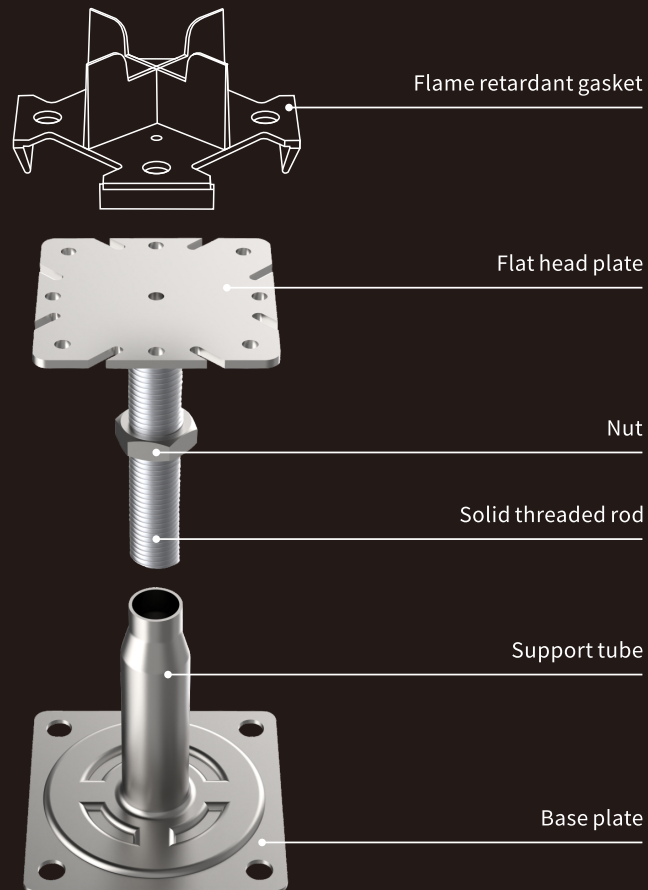


Acoustic performance



UNDER-STRUCTURE CLASSIFICATIONS

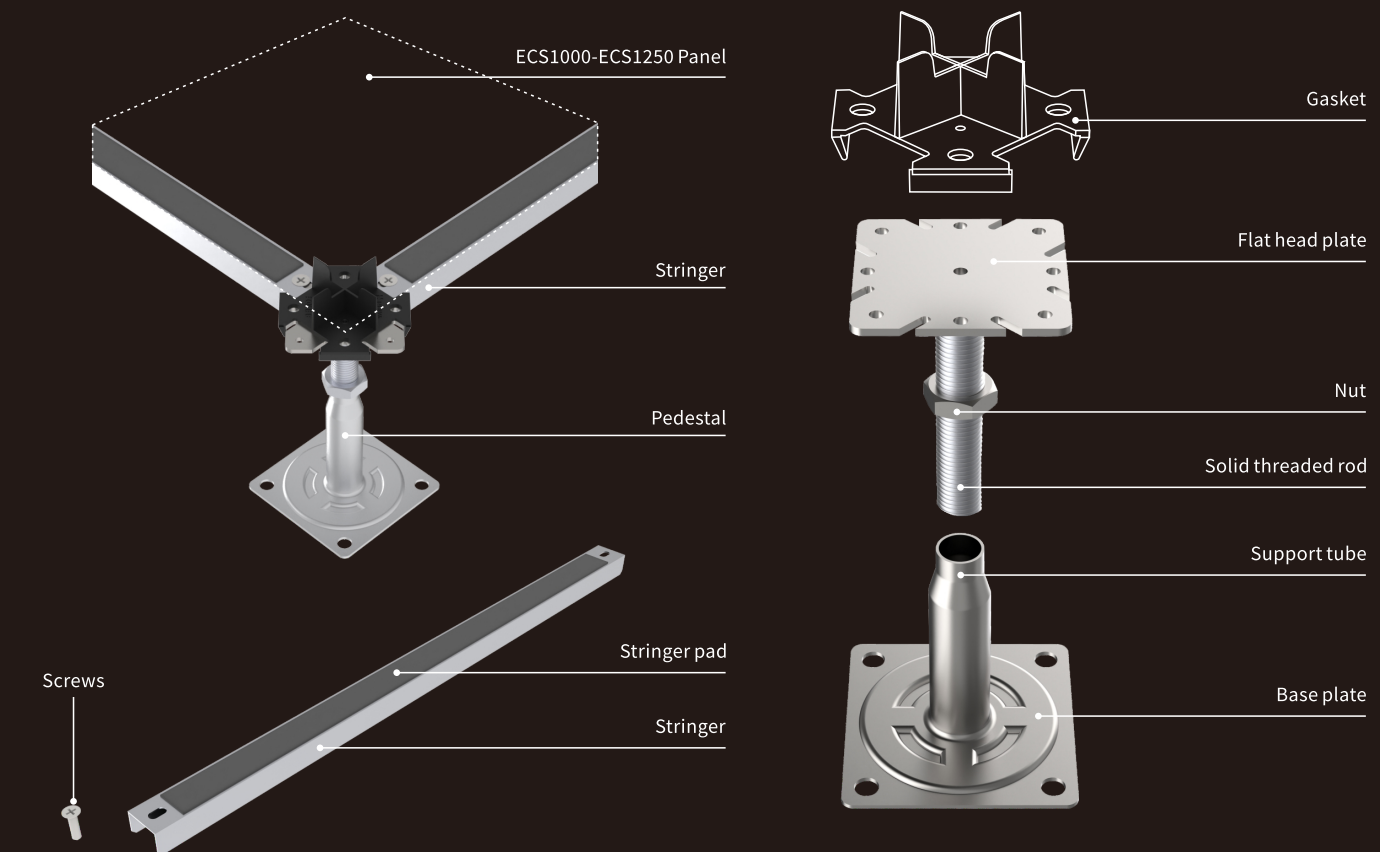
H60-200mm Pedestal Type



H60-200 Pedestal Type			
No.	Elements	Dimensions (mm)	Heights
1	Flat head plate	75mm×75mm×3mm Thickness / 75mm×75mm×4mm Thickness	Nominal heights from 60mm-200mm Adjustments: +/-25mm
2	Threaded rod	M18	
3	Nut	1	
4	Support tube	Φ22×1.5mm / Φ25×1.2mm / Φ25×1.5mm / Φ25×2.0mm Thickness	
5	Base plate	95mm×95mm×2mm / 95mm×95mm×3mm Thickness	
6	Flame retardant gasket	76mm×76mm×1.5mm Thickness	

UNDER-STRUCTURE CLASSIFICATIONS

H200-2000mm Pedestal Type



H200-2000mm Pedestal Type Description			
No.	Elements	Dimensions (mm)	Heights
1	Flat head plate	75mm×75mm×3mm / 75mm×75mm×4mm Thickness	Heights from 200mm-2000mm Adjustments: +/-25mm
2	Threaded rod	M18	
3	Nut	1	
4	Support tube	Φ22×1.5mm / Φ25×1.5mm / Φ32 × 1.5mm / Φ38×1.5mm / Φ38×2.0mm Thickness	
5	Base plate	95mm×95mm×2mm / 100mm×100mm×3mm / 125mm×125mm×3mm Thickness	
6	Gasket	76mm×76mm×1.5mm	
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.

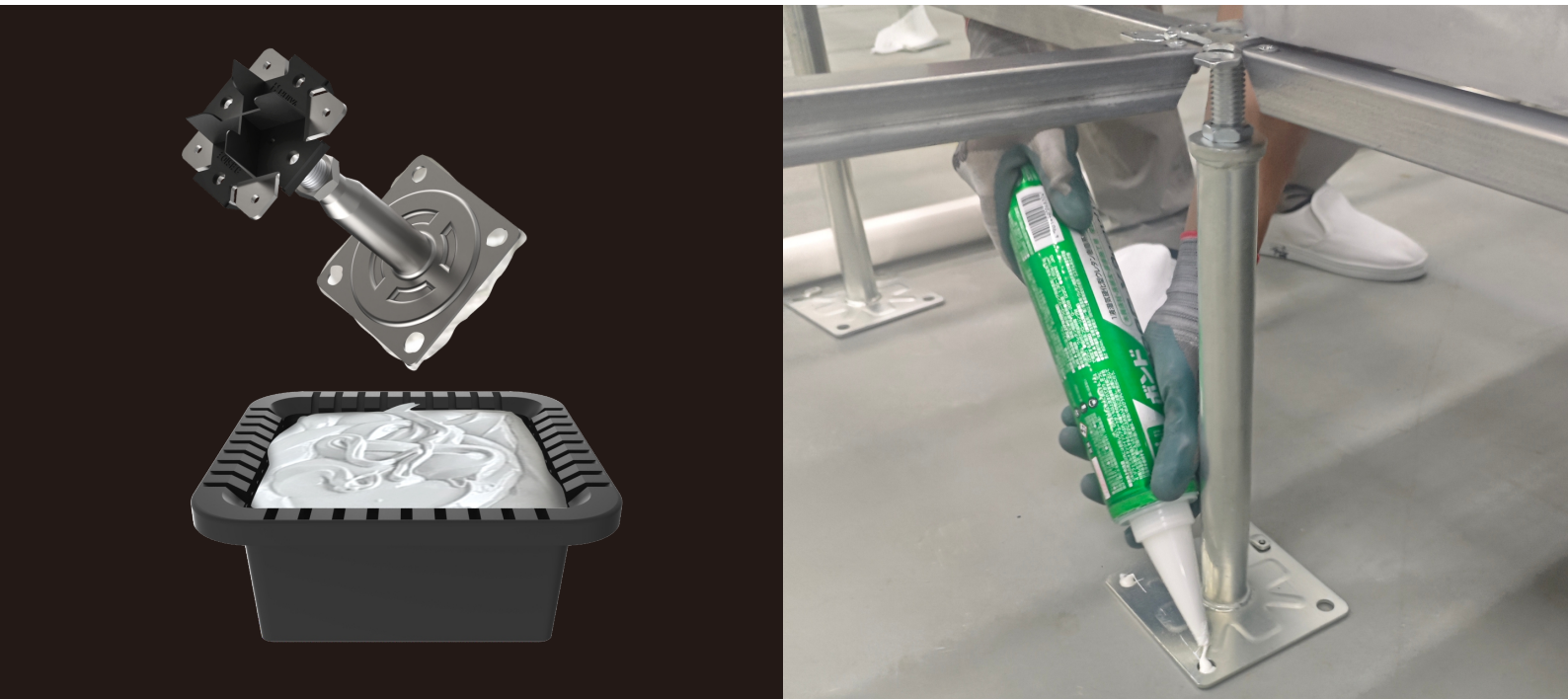
Conforms to Japanese JIS A 5536 F☆☆☆☆ standards

- 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

