HUIYA GRC1000

HEAVY MEDIUM-1000LBS (GRC1000) TECHNICAL DATA SHEET

HUIYA GRC1000 is a new generation of environmentally friendly raised access flooring developed from an improved version of the traditional HEAVY MEDIUM SC1000 steel raised access floor manufacturing process. GRC1000 is manufactured in a single molding process and contains no volatile toxic substances or radiation. It is completely biodegradable and has a lifespan equivalent to that of the building. The raw materials consist of silicate, inorganic fibers, mineral fibers, and quartz sand, which are formed under high pressure in a single process. Each floor panel has built-in wiring holes for easy cable management. It boasts excellent fire resistance and water resistance. It is a moderately priced product with excellent performance within the LIGHT raised access floor system.

- 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

GRC1000 SYSTEMS

PANEL DIMENSIONS:
Size: 500x500mm

PANEL THICKNESS:
DEPTH 28mm（Four Corner Thickness: 28.0mm, Product Self Thickness: 27.5mm-28.0mm）

PANEL CORE:
Silicate, inorganic fibers, mineral fibers, and quartz sand are embedded with a 20x20 welded steel reinforcement mesh and then formed into a high-strength product through a single-step compression molding process.

CORROSION RESISTANT PROTECTION:
The raw materials themselves are fireproof and waterproof.

BARE FINISHED:
The raised floor is fixed with pedestal and various types of floor coverings can be laid after installation.

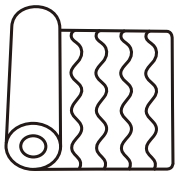
TOLERANCE:
±0.25mm and a flatness tolerance of ±0.5mm measured on a diagonal across the top of the panel finish.

PEDESTAL:
Solid and stable Raised Access Floor structure consisting of steel pedestals、reaching heights from 60mm to 300mm.

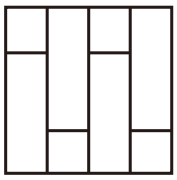
SOUND INSULATION GASKET:
Each pedestal contains flame-retardant sound insulation gasket to reduce friction between the metal pedestal and the GRC raised access floor, thereby reducing noise generation.

SUITABLE FINISHES

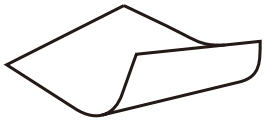
Carpet



Vinyl



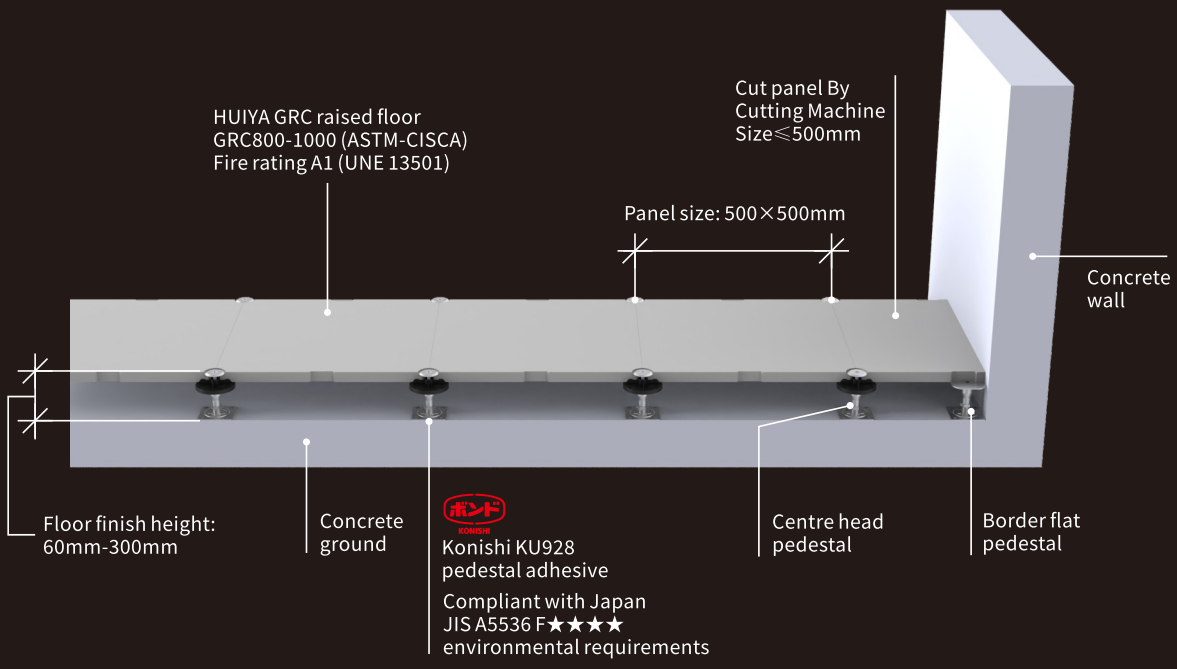
Plank Wood



Rubber

SYSTEM ASSEMBLY

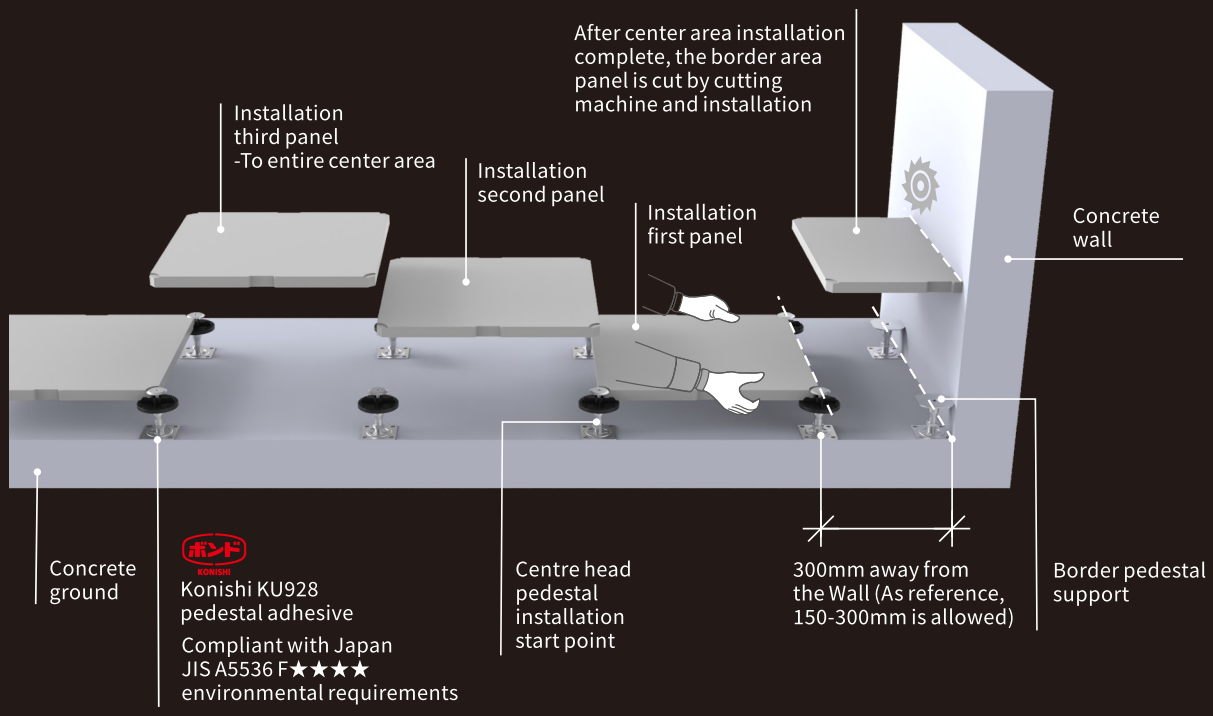
HUIYA RAISED ACCESS FLOOR is extremely easy to install on indoor construction sites. Each **RAISED ACCESS FLOOR** is fastened with screws, and the pedestal at the bottom of the floor is height-adjustable. This system ensures fast and efficient installation. The pedestal head features a black positioning 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 6800mm and the floor size is 500mm. By calculation, 13 pieces of 500mm full-size panels+one 300mm 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 13 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

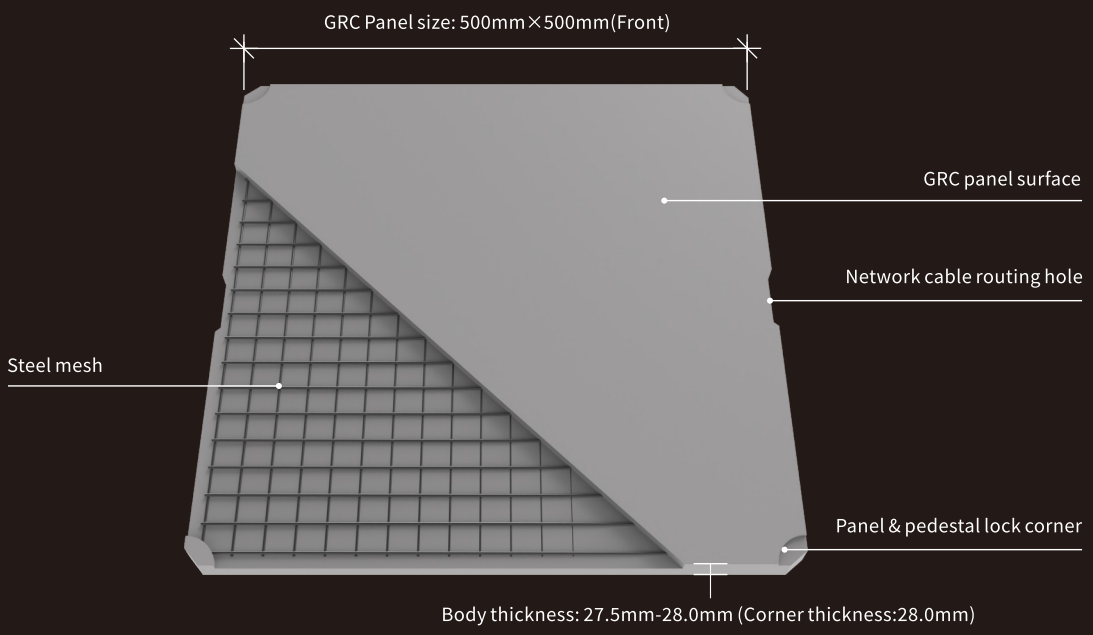
Learning Institutions

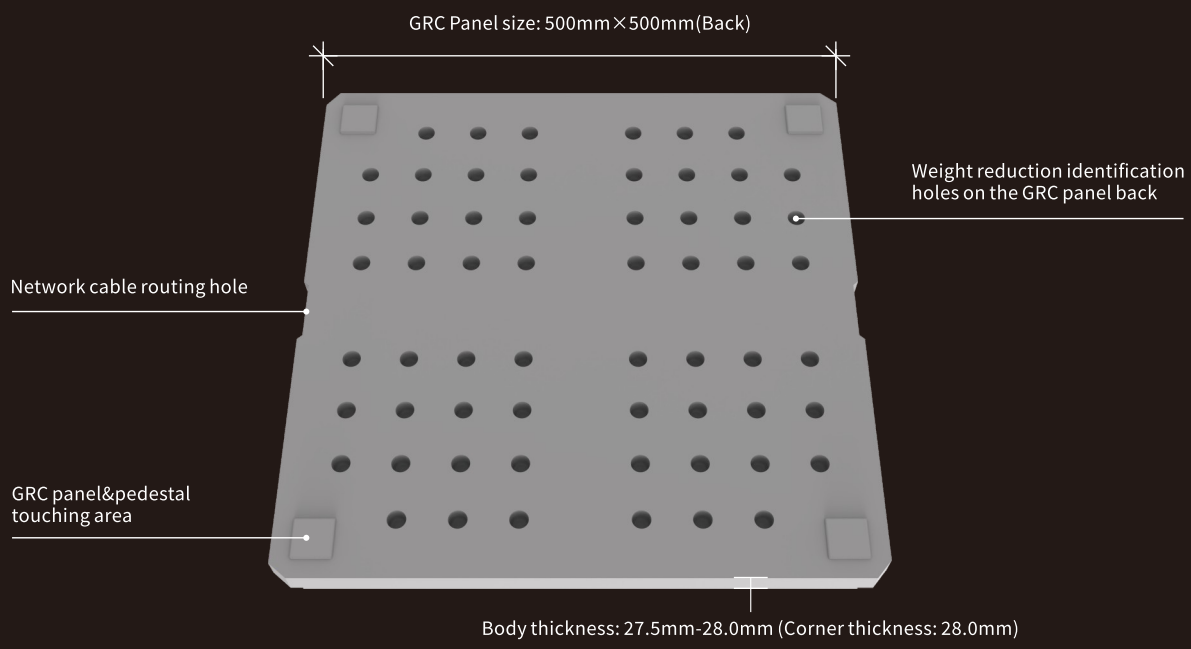
Libraries

Casinos

GRC1000 PANEL INTRODUCTION

★ GRC panel size	mm	**500mm×500mm×28mm (Four Corner Thickness:28.0mm, product self thickness:27.5mm-28.0mm)**
★ GRC core		**Silicate, inorganic fibers, mineral fibers, and quartz sand are embedded with a welded steel reinforcement mesh and then formed into a high-strength product through a single-step compression molding process.**
★ Steel mesh structure	Pieces	**20 pieces×20 pieces reinforcing steel mesh**
★ Steel mesh thickness	Φ	**2.5**
★ Weight per panel	kg	**14.5**
★ Weight per sqm (Structure weight included)	kg	**59**





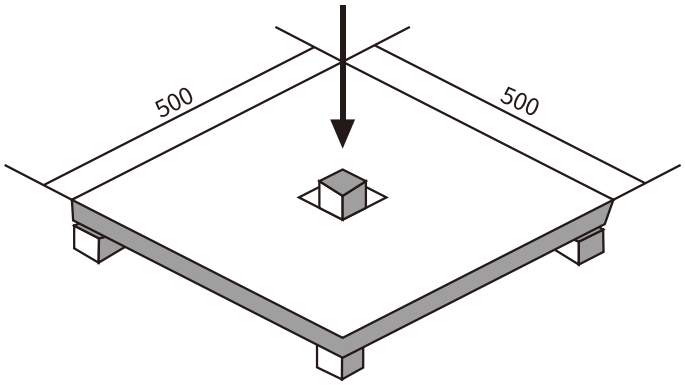
GENERAL CHARACTERISTICS

GRC1000 Characteristics

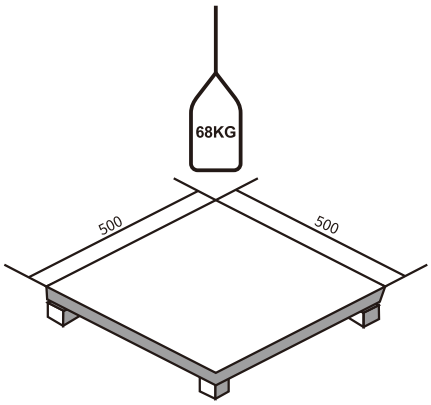
Ultimate load	KN	＞9.0
Concentrate load (Design load) Maximum 2.5mm panel deflection	KN	4.5
Safety factor		3.0
Uniform load(Distributed load)	KN/m²	22.5
Impact load (Sand bags impact and panel without broken)	KG	68

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

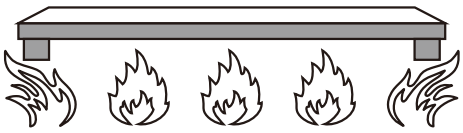
Concentrate load(Design load)



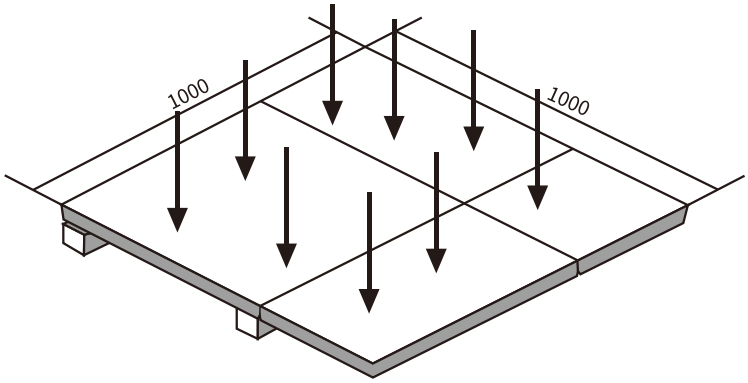
Impact load



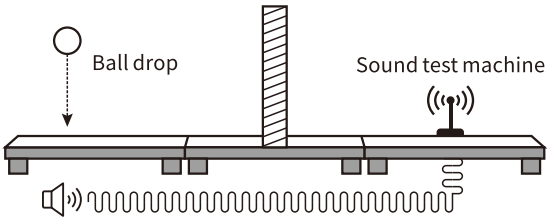
Fire resistance



Uniform load(Distributed load)

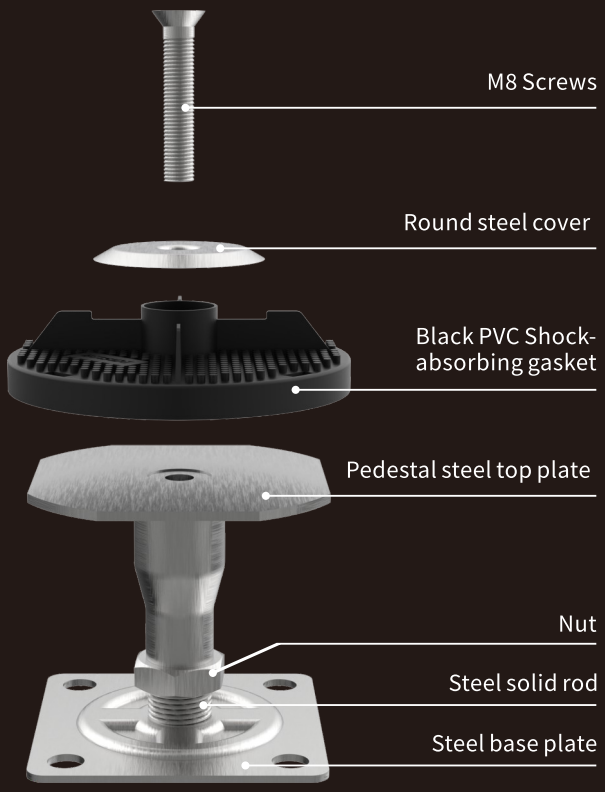


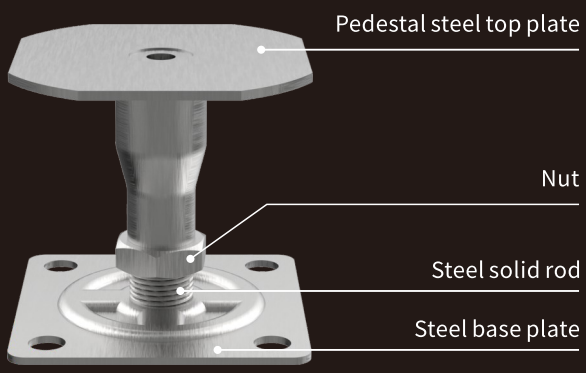
Acoustic performance



UNDER-STRUCTURE CLASSIFICATIONS

H60-150mm Pedestal Type Centre Pedestal
H60-150mm Flat Head Border Pedestal Type

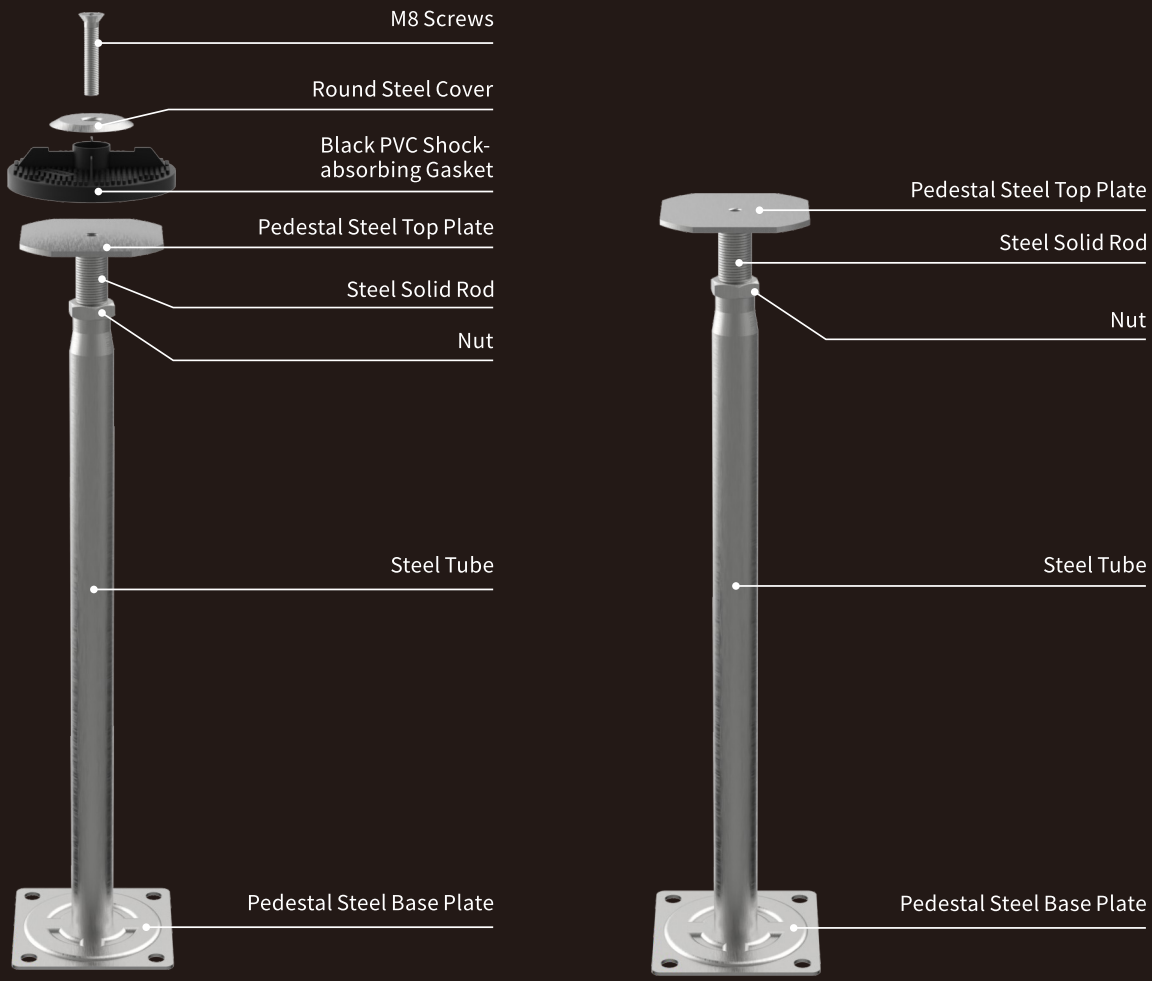




H60-150mm Pedestal Type (Centre Pedestal/Border Pedestal) description			
No.	Elements	Dimensions (mm)	Heights
1	Head	**Centre Pedestal:** 80mm×80mm×3.0mm Thickness **Border Pedestal:** 80mm×80mm×3.0mm Thickness	Nominal Heights from 60mm-150mm Adjustments: +/-25mm
2	Threaded rod	M18	
3	Nut	1	
4	Base plate	95mm×2mm	
5	Gasket	Traditional Black PVC gasket	

UNDER-STRUCTURE CLASSIFICATIONS

H150-300mm Centre Pedestal
H150-300mm Flat Head Border Pedestal Type



H150-300mm Traditional Pedestal Type（Centre Pedestal/Border Pedestal） description			
No.	Elements	Dimensions (mm)	Heights
1	Head	**Centre Pedestal:** 80mm x 80mm x3.0mm Thickness **Border Pedestal:** 80mm x 80mm x3.0mm Thickness	Nominal Heights from 150mm-300mm Adjustments: +/-25mm
2	Threaded rod	M18	
3	Nut	1	
4	Steel Tube	Φ22mm, thickness:1.5mm/or Φ25mm, thickness:1.2mm with a black plastic plug	
5	Base plate	95mm×95mm×2mm	
6	Gasket	Traditional Black PVC gasket	

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

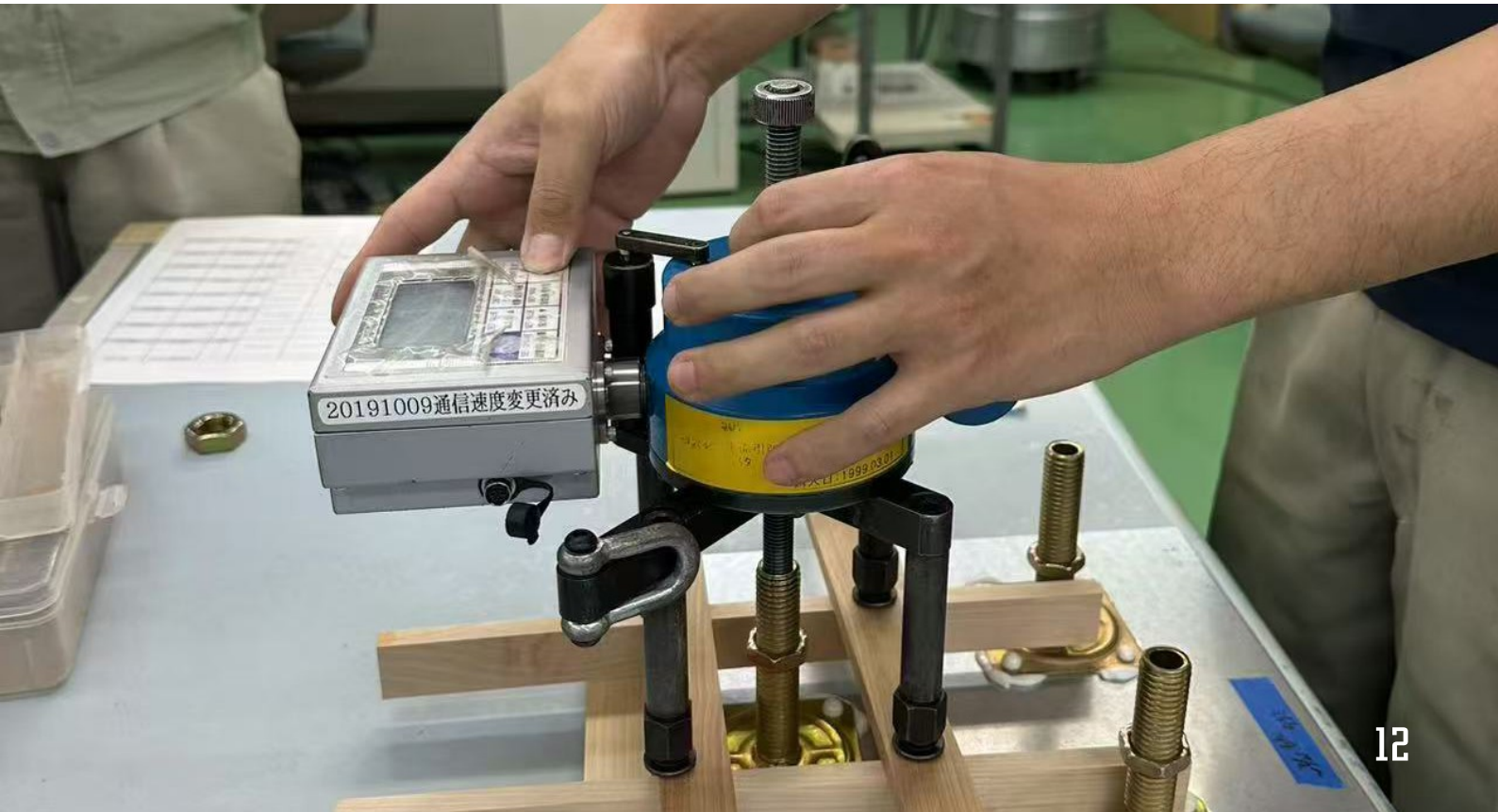
- Excellent adhesion to various metal pedestal and wood flooring materials.
- Effectively prevents friction noise from raised floor pedestal.
- Contains no harmful solvents and is virtually odorless.
- Non-hazardous and highly fire-resistant.
- Excellent water, fire, and oil resistance, making it suitable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

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