

# HiFloor / HS2000 outdoor understructure

for Raised Access Floor



FFH 55 to 600 mm



FFH 500 to 2000 mm



## **Water-Proof Pedestal System for Planks and Stone Tiles**

### **HiFloor pedestal system**

is ideal solution as supporting understructure for all type of wood planks and stoneware tiles. The system provides complete heights by easy assemble of studs and nuts, to comprise standard finish floor height 55 mm to 600 mm. The pedestaling system is water-proof. So, also good for using in high humidity and watering interiors such as pools, saunas, toilets, etc. .

### **Environment-Friendly and LEED compliance**

The pedestaling systems are made of recycled poly-propylene which comply to LEED, and contribute LEED credit points when apply for green building certificate.

The system is environment-friendly because all components are 100% re-useable, and 100% recyclable.

### **Components:**

The system consists of top-plate set, extension-stud, extension-nut, and pedestal-base.

extension-studs are hollow stud with exterior thread

extension-nuts are hollow stud with internal thread

Top plate set: consists of top plate, and dividers for tiles and planks.

Extension-Stud: exterior thread stud, available at three heights for height extension to cover all height requirements.

Extension-Nut:: available in 12 mm and 50 mm height,

to lock Extension-Studs, or lock Extension-Stud onto Pedestal-Base

Pedestal-Base: self-stand pedestal base with internal thread for locking by first piece

Extension-Stud, to extend to required Heights

Level-pad (optional): for leveling the pedestals, to absorb the slope at concrete slab or ground for rain draining. Made of aluminum.

### **High loading property:**

HiFloor pedestals are heavy-duty, which meet 1500LB less than 2.5 mm depression, and up to 4,000LB (1,800 kg) without failure on the pedestal itself. And, when assembled, support the heavy-duty stoneware tiles required in outdoor applications.





## For outdoor landscape --- to support stone tiles and wood planks

### 1. HiFloor pedestal to support granite stone tiles

Suggest granite stone tiles

size: 400 mm X 400 mm, thickness: no less than 40 mm

size: 600 mm X 600 mm, thickness: no less than 50 mm



### 2. plastic-wood plank

Space and display per plastic-wood may vary due to applications and pedestrian traffic.

Understructure to the plastics-wood plank:

Hot-dipped galvanized steel square tube. standard space of square tube: 60 cm in-between

HiFloor pedestal: average 50 cm per pedestals under square tube.

fasten devise clamps and screws: made of stainless steel



### 3. Engineered stone panels (Netfloor Solitile)

panel size: 600 mm X 600 mm

finish floor height: 95 mm (pedestal minimum 45 mm + tile 40 mm thick) ~ 600 mm

module: 604 mm X 604 mm ( 4mm gap in-between stone tiles for rain draining)

**outdoor engineered stone for various top-finish**



stone panel polished or brush finish with condensation treatment for landscape



HiFloor pedestal set 4 mm gap in-between tiles for rain draining

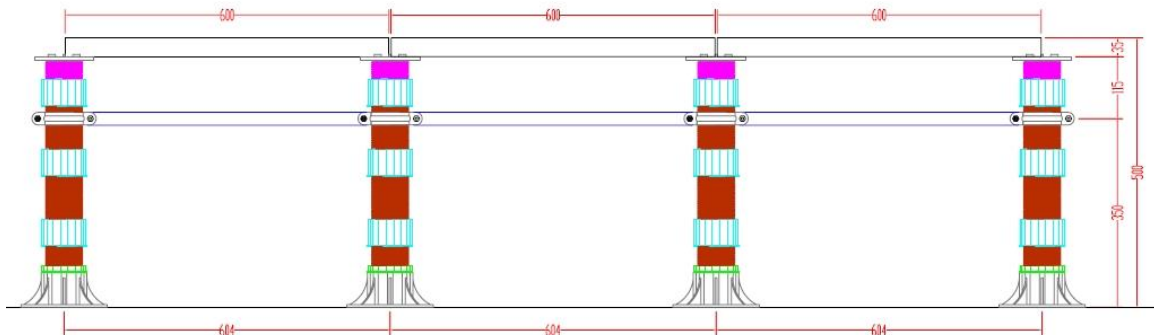


level-pad (optional): using as lever by inserting under the HiFloor pedestal base. The pads provide leveling at surface of floor panels by absorbing the 1% slope (or more) along the slab or ground to water sewage.

Adhesives shall be applied pulped up through holes of the pads as well as holes at HiFloor pedestals' base.

#### **Stringers (optional) for height greater than 600 mm**

The supporting stringers are made of rust-proof stainless steel or hot-dip galvanized steel in according to geographic location and job site application requirements stringers of grid- pattern 1200 mm or 600 mm O.C.



# HS2000 High-Stand Outdoor Understructure

----- for Wood Planks and Stoneware Tiles & Panels -----

HS2000 is a high-stand understructure system specially design for outdoor or high moisture or watering indoor application for stoneware tiles, panels, and wood-plastic planks, using as high-rise terrace or platform at pool side, open corridor, plaza, etc. The systems support finish floor height (FFH) 500 mm to 2000 mm.

**Outdoor water-resistance:** the pedestaling systems components are made of steel with outdoor grade hot-dipped galvanized treatment, suitable for outdoor climate.

**Non-combustible:** all systems' main components are full-steel, non-combustible, suitable for using at fire-safety commercial and public buildings outdoor plaza, corridor, platform, and etc.



Hot-dipped galvanized steel base beams, and pedestals

**High-Stand:** complete ranges of pedestals, beams, stringers, braces, to provide standard height 500 mm up to 2000 mm.

**Accommodate all types of finish floorings:** modularized supporting beams and stringers configuration to accommodate specified sizes of planks, stoneware tiles/panels, glasses, etc.



High-stand steel pedestals complete range specifications for hot-dipped galvanized or non-zinc plating treatment.

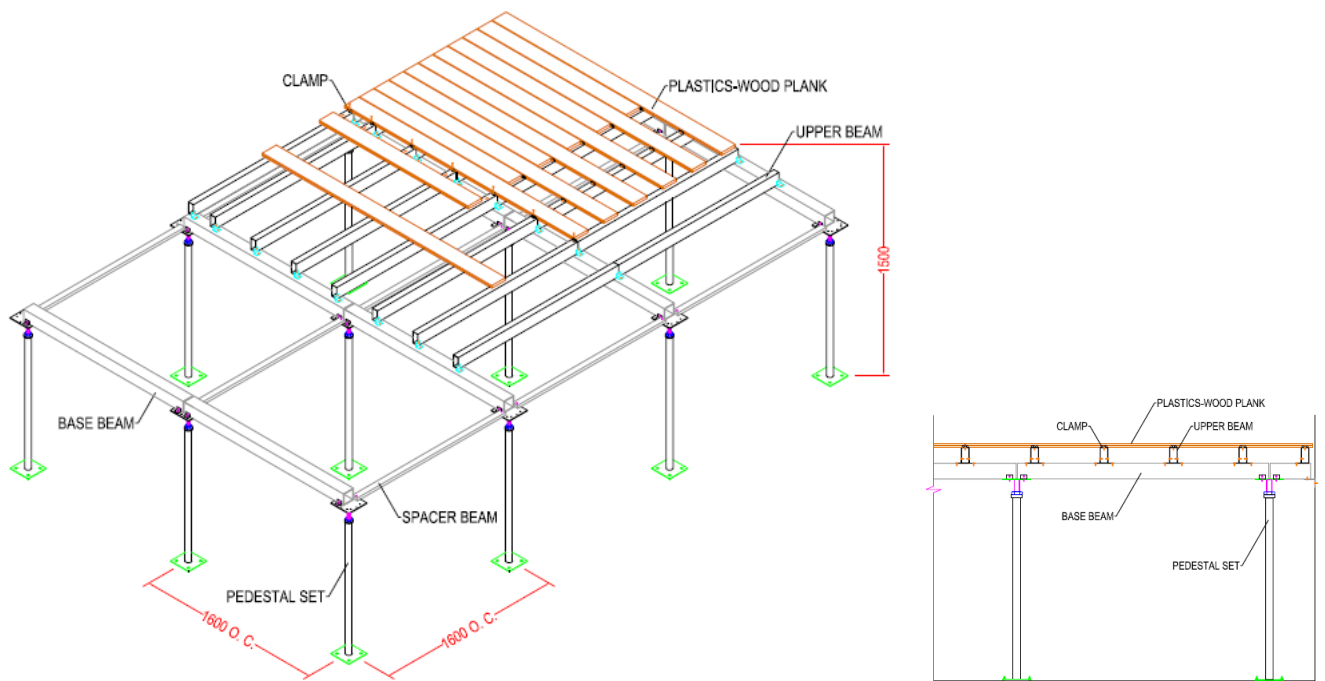


## Configuration of Pedestals and Beams

### 1. HS2000 for plastics-wood or natural wood plank

Support plastics-wood or natural-wood plank by adjusting span of upper beams:  
Span of upper beams: 350 mm to 450 mm in accordance with plank's length and strength.

Module set: Standard size formed by Base Beams and Spacer Beams 1600 mm X 1600 mm.



Main components:

Pedestal set: consists of base column and top-plate.

Base Beam: fasten on pedestal top-plate, as base for Upper Beams crossing on top.

Spacer Beam: fasten on pedestal, combining with Base Beam to form standard grid-pattern modular size 1600 mm X 1600 mm.

Upper Beam: install crossing Base Beam at 350 to 450 mm span per specifications.

Plank: standard length 2200 mm, grooving at mid of two sides for clamping.

Fasten on Upper Beam by applying stainless clamping.

Dimension of plank: 2200 mm or 2400 mm L, 140 to 200 mm W.

Thickness of plank: no less than 25 mm.

## 2. HS2000 for stone tiles or panels:

Support stone tiles or panels by modularized grid-pattern Spacer Beams.

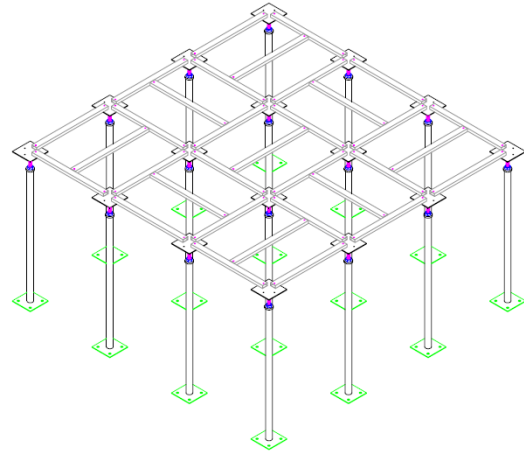
Standard grid forms to install stone tiles/panels at below sizes:

Modular size for panels:

800 mm X 400 mm

600 mm X 300 mm

(other module size by special run)

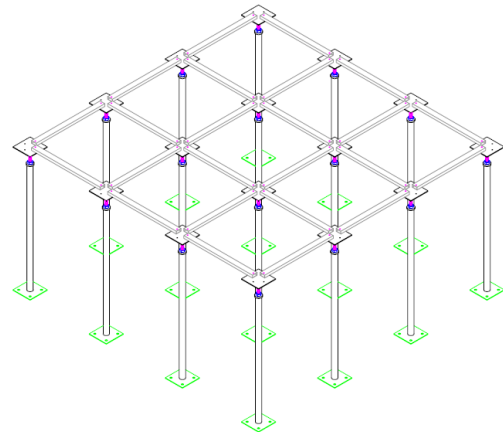


Modular size for tiles:

600 mm X 600 mm

500 mm X 500 mm

(other module size by special run)



Main components:

Pedestal set: consists of base column and top-plate.

Spacer Beams: fasten on pedestals' top-plates, to form grid-pattern 800 mm X 400 mm, 600 mm X 600mm, 500 mm X 500 mm, to support stone tiles and panels.

Divers: to segregate in-between stone tiles or panels.

Stone ware tile or panel dimensions:

Nominal sizes: 800mmX400mm, 600mmX300mm, 600mmX600mm, 500mmX500mm.

Thickness of stoneware tiles or panels shall be sustainable to loading on required size per architect and manufacturer's specifications.



## Specifications

### HiFloor pedestals

System Height: standard height 55 mm ~ 600 mm

1. pedestal-base: in two height: 36 mm / 65 mm
2. extension-stud: in three height: 35 mm / 60 mm / 130 mm to cover all finish height requirements from 55 mm up to 1200 mm.
3. extension-nut: in two height: 12 mm / 50 mm
4. top-plate: height: 20 mm
5. All pedestal base, extension-stud, extension-nut, top-plate are made of recycled poly-propylene.
6. Adhesives (optional): Outdoor grade epoxy glue suitable for bond and interfacing plastics / concrete slab, plastics / metal.
7. size of access floor tiles
  - 7.1 stoneware tiles or panels: in accordance with manufacturers' specifications
  - 7.2 wood and plastic-wood plank: in accordance with manufacturers' specifications
8. Environment protection
  - 8.1 The pedestal system meets and contributes LEED credit points, which made of recycled poly-propylene contents no less than 30%
  - 8.2 environment-friendly: The pedestal systems are 100% re-usable, and 100% recyclable.

### HS2000 High-Stand Understructure Systems

System Height: standard height 500 mm to 2000 mm (2 meters)

1. Application: outdoor or roof-top understructure systems for raised terrace or platform.
2. Understructure: supporting pedestals corner-locked by base beams and spacer beams to form standard 1.6X1.6 meter grid-pattern understructure\*\*.
3. Pedestals standard distance 1.6 meters O.C., net span in-between pedestals no less than 1.5 meters\*\*.
4. Base beam and spacer beam: corner-lock onto pedestals to form standard grid-pattern 1.6X1.6 meter understructure\*\*.
5. All components of understructure including pedestal set, base beam, spacer beam, upper beam, are outdoor grade hot-dipped galvanized treatment.
6. High-stand systems for FFH 1200 mm to 2000 mm:
7. Loading property: Base Beam plus stone tiles/panels, 300kg less than 1.5 mm depression.
8. environment-friendly: The pedestal systems are 100% re-usable, and 100% recyclable.
9. \*\* note: Details of main components specifications such as steel thickness, size, column diameter, dimension of upper beam, base beam are specified at system drawings per different ranges of finish floor height, type and size of floor covering, and loading requirements of each specific project. Span in-between base beams, upper beams, pedestals, are also specified and adjusted in accordance with floor coverings' strength, length and width.

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