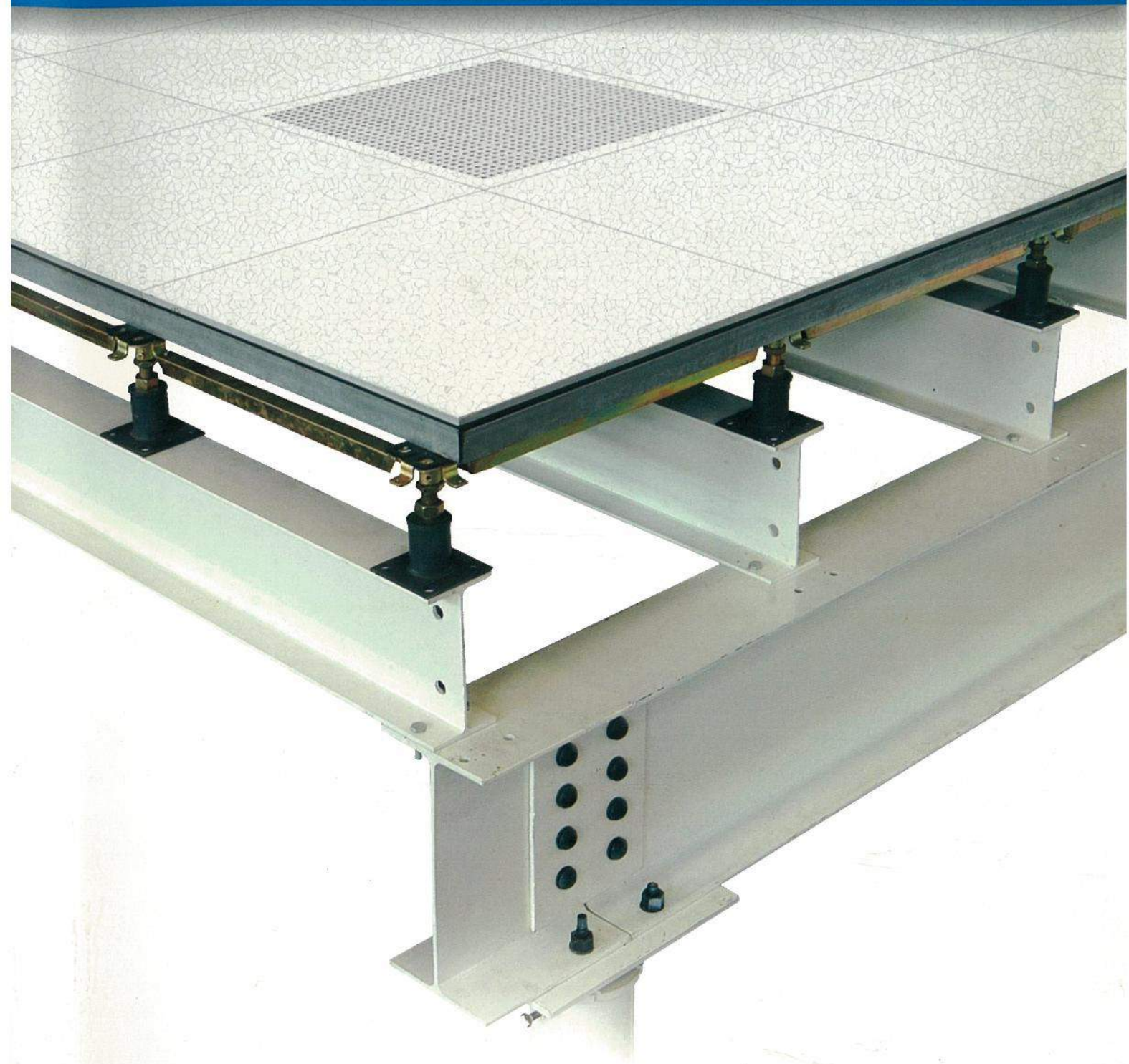


# SUPMATE ALUMINUM ACCESS FLOOR SYSTEM



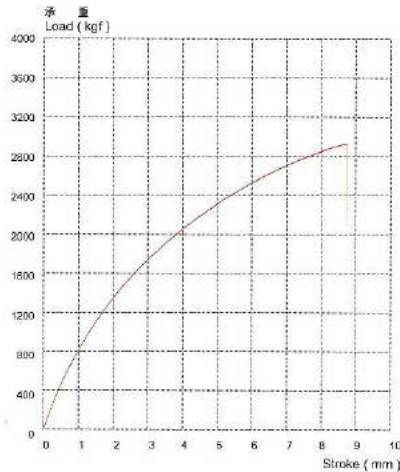
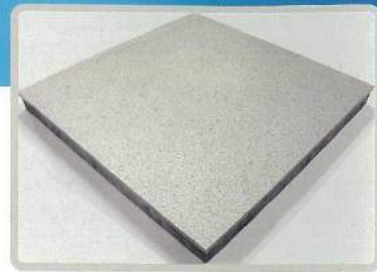
INPEL 臺灣東理建材有限公司

# 平板

## FLAT PANEL

在重型承載區域使用，平板的方格結構提供了優秀的分散重量的性能，用於支撐生產設備，每片地板的精確尺寸使地板安裝方便，如有需要可任意互換，而且承載强度高，能夠承受現代化半導體潔淨室生產設備的承載。

For use in those heavy areas, the unique lattice structure of solid panel provides excellent dispersion of weight required for the support of manufacturing equipment. The precision dimension of each panel allows convenient installation and freewill interchange manufacturing equipments of modern semiconductor clean rooms.



### 優點(Advantages):

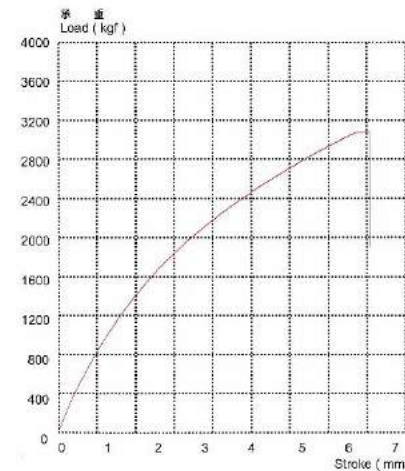
- 尺寸精確，易於調換  
Accurate dimension, easily exchanged
- A1級建材(不燃性物質)  
Class A construction material (incombustible)
- 表面材料選擇廣泛  
Wide variety of finishing materials
- 成本低，性能好  
Low cost, good performance
- 經久耐用  
Durable

# 格柵板

## GRATING PANEL

鋁質格柵板提供優良的集中載重和滾動載重，並且可以噴塗導靜電塗層，抗腐蝕耐磨損，非同方向的格柵紋可以從常規50%的出風口提供舒適的氣流。尺寸為600mm，常規厚度為50mm，格柵板和平板以及通風板可以互換以便房間的結構和氣流配置可以最大化。

Patented die cast aluminum gratings provide excellent concentrated and rolling load performance and are available with electrically conductive coatings and plantings resistant to chemicals and abrasion. The non directional grating pattern offers unrestricted air flow through a nominal 50% open area desirable in return air chases and ballroom design sub-micron cleanroom facilities. available 600mm sizes and is nominally 50mm thick. The grating is completely interchangeable with solid and perforated panels for maximum room configuration and air balancing flexibility.



### 優點(Advantages):

- 自由交叉區域50%  
Free cross section area 50%
- 高精度  
High precision
- A1級建築材料(不燃性物質)  
Class A construction material (incombustible)
- 高載重，低變形  
Little deflection and high load capacity
- 易切割  
Easily cut
- 經濟、經久耐用，可回收  
Economical, durable, recoverable
- 完美的靜電釋放  
Excellent capacity of static dissipative
- 可以和通風板配合使用  
Can be used with perforated panel
- 可以噴塗成各種顏色  
Can be coated with a variety of colors

型號 Type	集中載重N(kgf)		極限載重		尺寸(mm) Size(mm)
	Concentrated load N(kgf)		Ultimate Load N(kgf)		
	中心 Center	1/2邊 1/2 Edge	中心 Center	1/2邊 1/2 Edge	
HDL500	6500(650)	6000(600)	13000(1300)	12000(1200)	∅600 × 600 × 50t
HDL700	8900(890)	8000(800)	17800(1780)	16000(1600)	∅600 × 600 × 50t
HDL800	9500(950)	9000(900)	19000(1900)	18000(1800)	∅600 × 600 × 50t
HDL1000	11500(1150)	11000(1100)	23000(2300)	22000(2200)	∅600 × 600 × 50t
HDL1200	13000(1300)	12500(1250)	26000(2600)	25000(2500)	∅600 × 600 × 50t
HDL1500	16000(1600)	15500(1550)	32000(3200)	31000(3100)	∅600 × 600 × 52t
HDL2000	21000(2100)	20500(2050)	42000(4200)	41000(4100)	∅600 × 600 × 52t

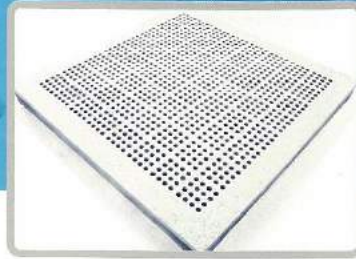
型號 Type	集中載重N(kgf)		極限載重		尺寸(mm) Size(mm)	開孔率 Open hole rate
	Concentrated load N(kgf)		Ultimate Load N(kgf)			
	中心 Center	1/2邊 1/2 Edge	中心 Center	1/2邊 1/2 Edge		
HDL700	7500(750)	7000(700)	15000(1500)	14000(1400)	∅600 × 600 × 50t	50%
HDL800	8500(850)	8000(800)	17000(1700)	16000(1600)	∅600 × 600 × 50t	
HDL1000	10500(1050)	10000(1000)	21000(2100)	20000(2000)	∅600 × 600 × 50t	
HDL1200	12500(1250)	12000(1200)	25000(2500)	24000(2400)	∅600 × 600 × 50t	

# 通風板

## PERFORATED PANEL

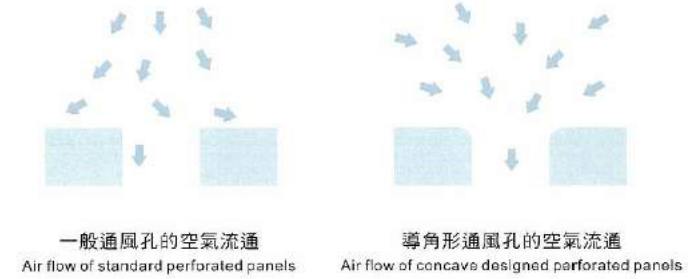
通風板具備平板的所有特點。鑽孔為1024或1280個圓孔，根據通風孔的大小，地板的通風率18-33.7%不等。平板，通風板，格柵板之間可以互換。

Perforated panel has all the characteristics which blind panel has. There are 1024 or 1280 drilled holes in the perforated panel. The air flow rate varies from 18% to 33.77% according to the size of the holes. Blind panel, perforated panel and grating panel can be interchanged.



# 通風特徵

## AIRFLOW CHARACTERISTIC



### 通風板 Perforated Panel

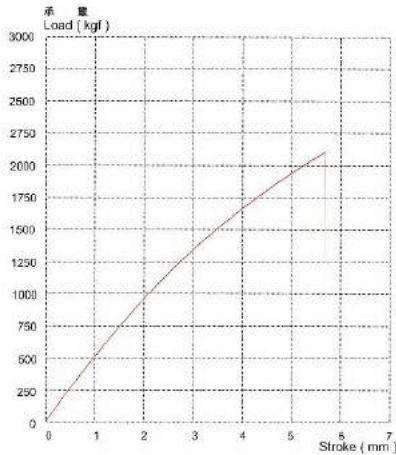
通風板的設計使得來自天花板的高速的氣流盡可能穩定地通過高架地板。Designed to provide an increased, smooth flow of air from the ceiling through raised flooring with an absolute minimum of turbulence.

#### 一般型 Generally

一般的通風孔能使氣流平穩的通過地板。  
Air flows through general ventilation holes stably

#### 導角型 Chamfered

對比一般的通風孔，導角設計使的氣流的通過更順暢，更高效。  
Compared with general ventilation hole, concave hole can make the air smoothly and efficiently pass through itself.

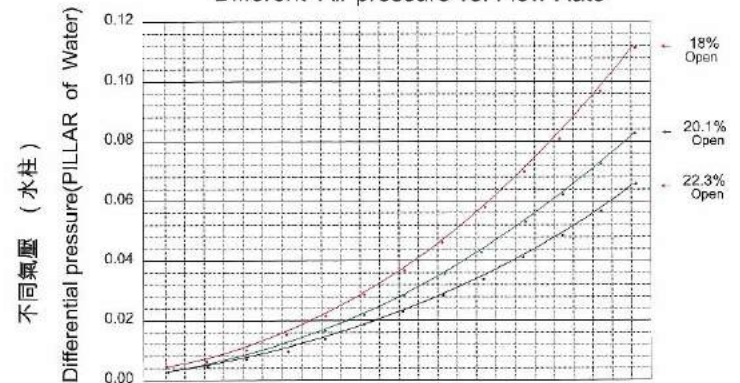


### 優點(Advantages):

- 平板可用於通風板的生產  
Existing solid panels can be used for the manufacturing of perforated panels
- 做工精緻  
Elaborated Made
- A1級建材(不燃性物質)  
Class A construction material (incombustible)
- 高承載，低變形  
High loading performance, Low deflection
- 可循環利用，經濟  
Recycling, economical
- 便於以後開洞  
Easy for holes opening
- 良好的靜電耗散性能  
Good static dissipative performance
- 精確鑿孔，凹形邊緣  
Precise holes opening, concave design

型號 Type	集中載重N(kgf) Concentrated load N(kgf)		極限載重 Ultimate Load N(kgf)		尺寸(mm) Size(mm)	開孔率 Open ration
	中心 Center	1/2邊 1/2 Edge	中心 Center	1/2邊 1/2 Edge		
HDL500	5500(550)	5000(500)	11000(1100)	10000(1000)	∅600 × 600 × 50t	9.0 × 1024(18%) 9.0 × 1280(22.6%)
HDL700	7500(750)	7000(700)	15000(1500)	14000(1400)	∅600 × 600 × 50t	9.5 × 1024(20.1%) 9.5 × 1280(25.19%)
HDL800	8500(850)	8000(800)	17000(1700)	16000(1600)	∅600 × 600 × 50t	10.0 × 1024(22.3%) 10.0 × 1280(27.9%)
HDL1000	10500(1050)	10000(1000)	21000(2100)	20000(2000)	∅600 × 600 × 50t	10.5 × 1024(24.6%) 10.5 × 1280(30.7%)
HDL1200	12500(1250)	12000(1200)	25000(2500)	24000(2400)	∅600 × 600 × 52t	11.0 × 1024(27%) 11.0 × 1280(33.7%)
HDL1500	15500(1550)	15000(1500)	31000(3100)	30000(3000)	∅600 × 600 × 52t	
HDL2000	20500(2050)	20000(2000)	41000(4100)	40000(4000)	∅600 × 600 × 52t	

不同氣壓 vs. 空氣流量  
Different Air pressure vs. Flow Rate



# 支架 桁梁

## PEDESTAL & STRINGER



### 支架系統

可以配合平板通風板和格柵板使用  
 支架可適用於各種防震環境中  
 支架上托可以鍍鋅處理  
 支架下托鋼管可以做環氧樹脂粉末噴塗  
 支架下托底板可以做環氧樹脂粉末噴塗  
 尺寸可以配合600mm地板使用  
 完高150mm-1500mm供選擇

### 鋼支架

在所有場合均採用鋼支架，它是由上基座、下托鋼管及下托底板體系構成的，此類支架用於防震要求、架空高度和承重要求較高的場所。

### Pedestal systems

Compatible with solid, perforated and grating floors  
 Pedestals available for all seismic environments  
 Pedestal head can be galvanized  
 Tube of pedestal base can be epoxy coated  
 Base plate of pedestal base can be epoxy coated  
 Compatible with 600mm panel  
 Finished floor heights available from 150-1,500mm

### Steel pedestal

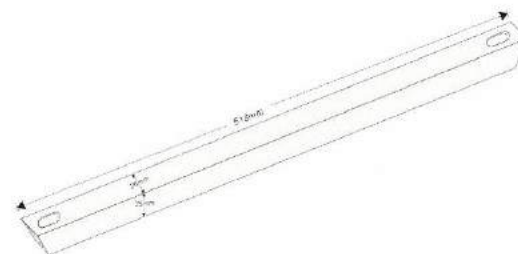
Steel pedestal, consists of steel head, steel tube and steel base plate, can be used in all areas. It is designed for high seismic locations, high floor heights, and heavy loading areas.

### 桁樑

樑樑是外表以環氧樹脂噴塗之鋼管樑樑，長度為518mm，適用於600mm地板系統。樑樑是僅用於提供橫向支持，而不能夠增加垂直載荷。樑樑並不會固定於系統空間，因為樑樑兩端的孔是槽形孔，用以配合地板尺寸並保持一致。收邊樑樑可以透過切割到適當的長度，並在切割一端開新孔，然後垂直於牆面安裝。樑樑也可以切割到合適的長度，平行於牆面安裝在支架上。

### Steel Stringers

HUATONG steel stringer is epoxy coated. Sizes: 518mm, both designed for 600mm panel system. The stringer is designed to provide lateral support only and can not improve the vertical loading capacity. The stringer will not fix the system space as the holes in the ends of stringer are slightly slotted to conform to the size of the panel. Perimeter stringer may be installed perpendicular to the wall by cutting the stringer to the appropriate length, and drilling a new hole in the tip of the cut end of the stringer. Stringer may be installed parallel to the wall and mounted on pedestals which have been cut to fit snugly against the wall.



- 用於600mm地板系統
- 承重樑樑以一種方平網狀組織安裝於支架之上
- 集中載重可增加200公斤力
- 設計用於防震環境
- Available for 600 mm systems
- Load bearing stringer in a net frame on pedestal assembly
- Increases concentrated load capacity about 200 kgf
- Designed for seismic environments

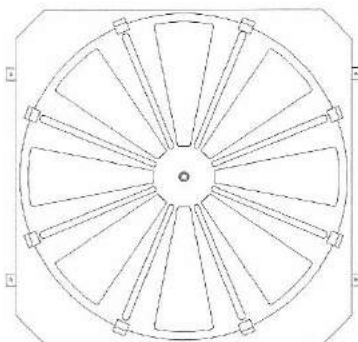
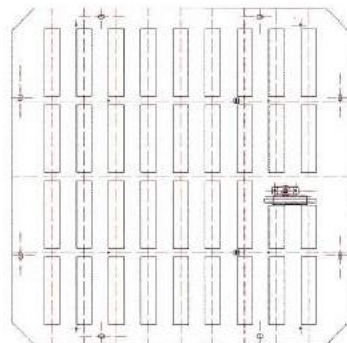
## 鋁(鋼) 調節片

### Aluminum(Steel) Damper

通風板和格柵板可裝配滑動的風量調節片。

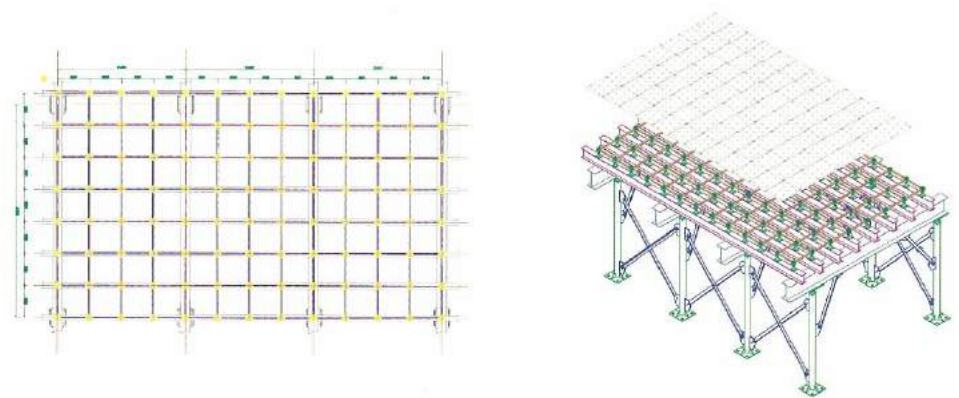
它通過地板旋轉開關，調節風量大小，在使用中根據需要調節開關，控制氣流的平衡方向。

Damper can be added to perforated panel and grating panel. Adjust the switch of the damper, you can get different air flow. Adjust the switch to control the balance of the air flow according to requirement in actual use.



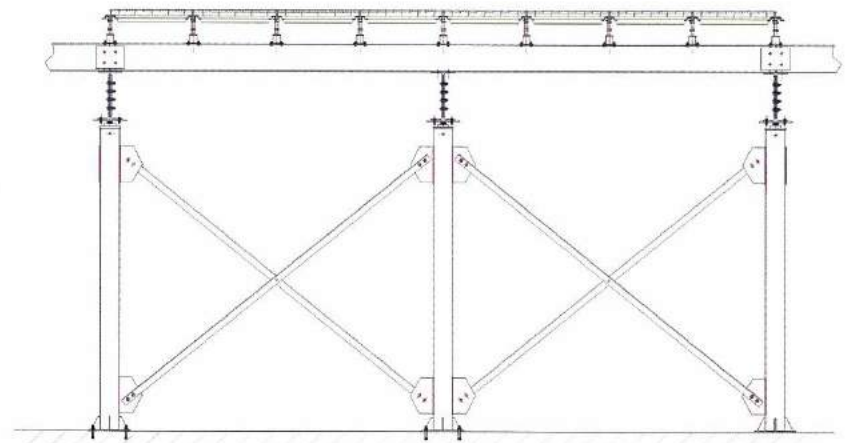
## 鋼構 系統

### STEEL FRAME SYSTEM



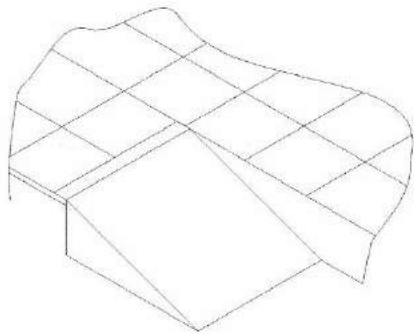
鋼構採取獨特的下部支撐系統，主要用於潔淨室。上下可調節的鋼樑是「工」字型的，表面以環氧樹脂噴塗。鋼樑的高低通過螺桿來調節緊固。同時在安裝地板時，在鋼樑上鋪設支座，固定地板。

Steel frame system with unique understructure is mainly used in clean room. "工" pattern adjustable stringer can be epoxy coated. Stringer height can be adjusted by the screw rod. When install the panel, lay corner lock system to lock the panel.



## 斜坡 台階

### RAMP & STAIR



斜坡示意圖

#### 斜坡

斜坡的設計一般是用於將一些輕的機械和設備從底層地板移到架空地板上。由角鋼和鋼板組成。

#### RAMP

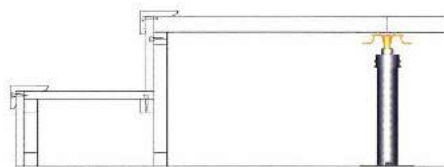
Ramp design is normally applied to move some light machine and equipment from structural floor to the surface of access floor panels, which are constructed of angle iron and steel sheet.

#### 台階

台階的設計是為了幫助人們走過地板有落差區域。主要原件為角鋼和鋼板。如果在和門相連的地方，可以增加一個平台區域。

#### STAIR

Stair design is for helping people to pass through panels area with different heights. A platform can be added in the connection area between stair and door.



台階示意圖

## 工程 實例

### JOB BEFERENCE

