

## System Overview

Steel Cementitious Panel  
SC Air Tight System

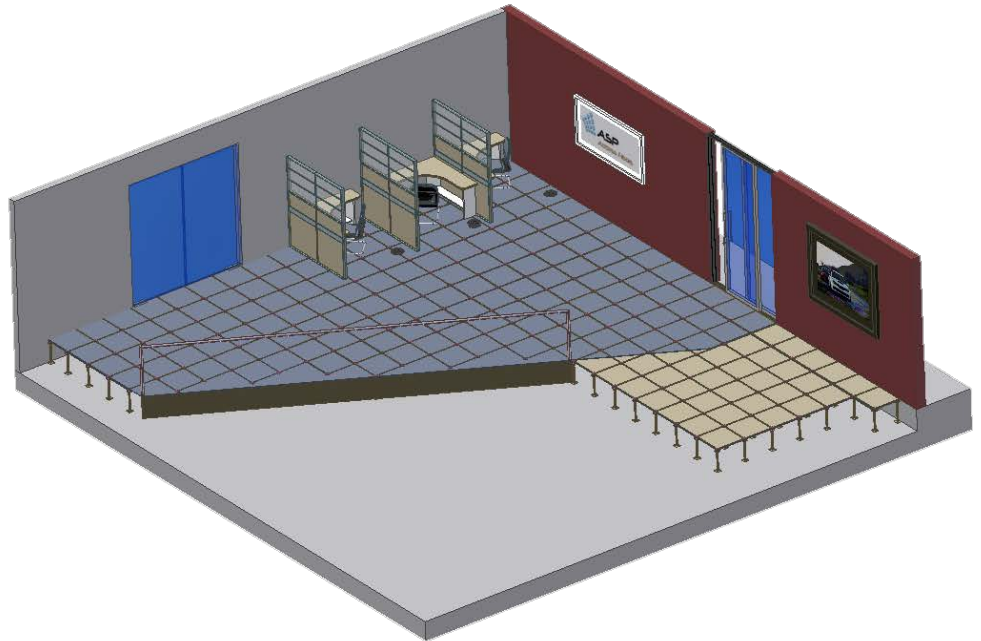
## Steel Cementitious Panel - SC Air Tight System Overview

The ASP Air Tight System is a system that is specifically designed to minimise air leakage, when the access floor is to be used as a plenum.

This system incorporates the use of a clip on air tight stringer that creates a seal in between the panels to control air leakage.

### System Applications:

- General Offices
- Banks
- Learning Institutions
- Libraries
- Casinos
- 5 and 6 green star rated buildings and projects



## Design Features

### Inbuilt Expansion Joint and Cut Out

The panel has a special expansion cut out, and the pedestal head is fitted with an expansion gasket designed to keep the panels separated by 0.3mm at all times. This eliminates the panels clicking or rubbing up against each other during expansion.

### 4 Corner Screw Panel

Screw holes in each corner to allow panels to be individually screw fixed providing greater rigidity as well as easier and faster access.

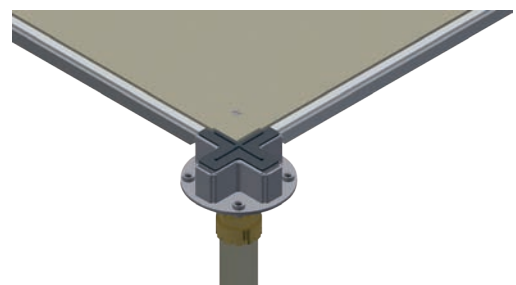
### AT Cavity Insert / AT Stringer

Clip insert in for the attachment of the AT stringer to system.

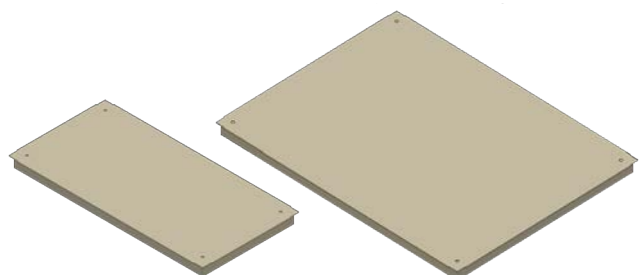
### Finishing Panels

Full bearing 600 x 300mm and 600 x 800mm panels designed to minimise small off cuts experienced with cutting around equipment and finishing off to the perimeter.

The 600 x 300mm panel may also be used when there is a necessity for a 300 x 600mm air grille.



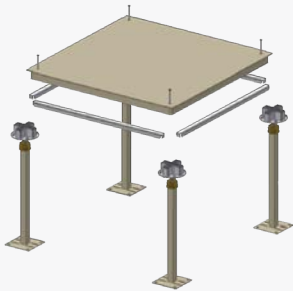
AT Cavity insert / AT Stringer



Finishing Panels

## System Understructure

### AT S5/S6 System SC-AT S5/6 180-800mm FFH



The AT S5/6 system is for applications that require minimal air leakage with a FFH of 180-800mm.

The pedestal tubes are cut down to the appropriate length and the steel thread rod is adjusted and locked at the desired height.

#### Understructure

- S5 Field Pedestal
- S6 Perimeter Pedestal

### AT S6 System SC-AT S6 800-1200mm FFH



The AT S6 system has been designed for applications with a FFH of 800-1200mm.

The pedestal tubes are manufactured or cut down to the appropriate length, and the steel thread is adjusted and locked at the desired height.

#### Understructure

- S6 Pedestal
- SC 600 Stringer

### AT S11 System SC-AT-S11 1200mm + FFH



The S11 System incorporates a thicker, sturdier heavy duty pedestal base and tube to suit seismic requirements and FFH over 1200mm.

#### Understructure

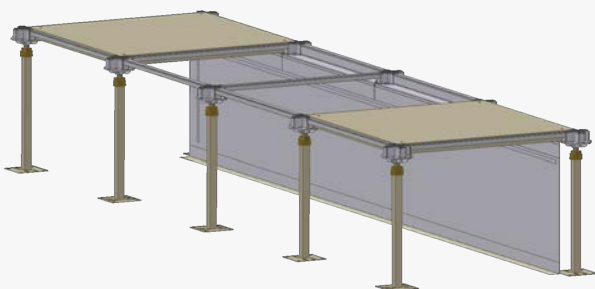
- S11 Pedestal
- SC 600 Stringer

## ASP Proprietary Zone Baffle/Air Highway

### Assembly

The ASP Ultrafix AT air highway is a readymade clipped on system that can be incorporated into any application requiring an under floor air highway or plenum detail.

The specialised sponge rubber creates an air tight seal to ensure that the zones are completely sealed.



### Zone Baffle/Air Highway Stringer

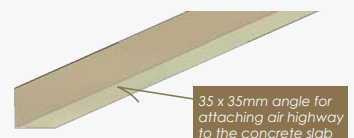
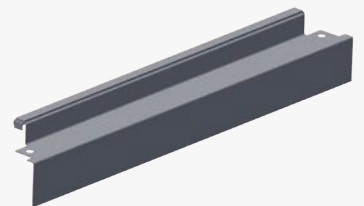
A stringer clips into the pedestal head through the AT stringer cavity.

### Zone Baffle/Air Highway Panel

Air Highway panel is manufactured to the required FFH level and clips into the air highway stringer through clipping caps located in the stringer.

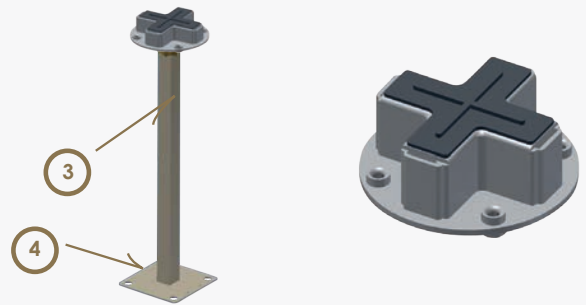
### Zone Baffle/Air Highway Angle

35 x 35mm angle that is screw fixed onto the air highway panel and then affixed into the slab.



## S5 Field Pedestal

- 1. Inbuilt Expansion joint gasket**  
This patented inbuilt expansion joint gasket detail ensures that the panels are held 0.3mm apart
- 2. Pedestal Head**  
Pedestal Head is made of die formed aluminium to form a solid support to mount the access floor panel to
- 3. Clip on AT stringer cavity**  
Cavity for AT stringer attachment
- 4. AT stringer**  
0.8mm thick aluminium clip on stringer with 3mm sponge rubber
- 5. Screw Fix Locator**  
The panel is screw fixed through this locator on every corner
- 6. Steel thread rod**  
18mm x 150mm steel thread rod that gives a range of adjustment from 50mm +/- from the FFH
- 7. Sound Impact Buffer**  
A sound and impact rubber washer encased in a steel housing pocket intended to eliminate metal on metal sound transfer to the slab
- 8. Adjusting and locking nut**  
Adjustment: Nut can adjust to the required length of the steel thread rod  
Locking: Nut has an inbuilt vibration proof locking device, to ensure that once locked the pedestal height is static
- 9. Pedestal Tube**  
Provides rigidity and stability to steel thread rod
- 10. Pedestal Base**  
100mm x 100mm pedestal base that provides a solid weight bearing platform for the access floor. Pedestal base has 4 fixing holes



S5 Field Pedestal

## S6 Perimeter Pedestal

- 1. Air Tight Stringer Support Gasket**  
Support Gasket allows air tight stringer to continue to perimeters in order to keep air tightness
- 2. Pedestal Head and Welded Steel Thread Rod**  
90mm x 90mm steel flat head pedestal designed to provide a solid base for the panel, positioned as perimeter pedestals. A 18mm x 150mm steel thread rod that is welded onto the bottom of the pedestal head with an adjustment range of 50mm +/- from the FFH
- 3. Locking Nut**  
Nut has an inbuilt vibration proof locking device, to ensure that once locked the pedestal height is static
- 4. Pedestal Tube**  
Pedestal tube provides rigidity and stability to steel thread rod
- 5. Pedestal Base**  
100mm x 100mm pedestal base that provides a solid weight bearing platform for the access floor. Pedestal base has 4 fixing holes

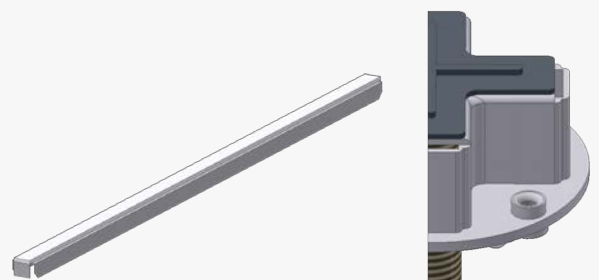


S6 Perimeter Pedestal

## AT Stringer

AT stringer clips into the AT cavity of the field pedestal to minimise the air leakage lost in between the panels. This standard AT stringer is used throughout the entire system.

The top of the stringer comprises of 3mm thick sponge rubber to act as a barrier in between the panels to decrease the air leakage.



AT Stringer

## Load Tolerances - For 600 x 600 standard panels and specialised finishing panels

### **Medium Grade Panel SC 3.0kN**

The medium grade panel is the first panel in the Australian Standards and is suitable for general office areas and educational centres where heavy equipment is not used.

### **Heavy Grade Panel SC 4.5kN**

Suitable for office areas where heavy equipment is being used such as compactus zones, printer zones, communication rooms and server rooms. Also recommended for high traffic areas such as lift lobbies and corridors.

### **Extra Heavy Grade SC 6.0kN**

Suitable for data centres and other areas of heavy traffic and more regular rolling loads.

### **Industrial Grade SC 9.0kN (CISCA Standard)**

Recommended for areas of frequent heavy rolling loads such as casinos and data centre corridors.

### **Heavy Industrial Grade SC 11kN (CISCA Standard)**

Recommended for areas of heavy dead loads, high regular live rolling loads or high impact load areas such as car showrooms and gym weights zones.



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