

STEEL CEMENTITIOUS AIR TIGHT SYSTEM



RECOMMENDED APPLICATIONS



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SYSTEM NAME

Steel Cementitious Air Tight System

SYSTEM CODE

SC-AT

COMPLIANT STANDARDS

 Australian Standard AS4154/AS4155
 Australian Standard AS1170
 CISCA Standard UFGS-09 69 11/15
 PSA MOB PF2 1992
 NATA Testing Certification
 ISO9239-1-2003
 EN12825-2001
 DIN4102-1-1998

DESCRIPTION

The Steel Cementitious Air Tight System has been designed to minimise air leakage when the access floor is to be used as a plenum.

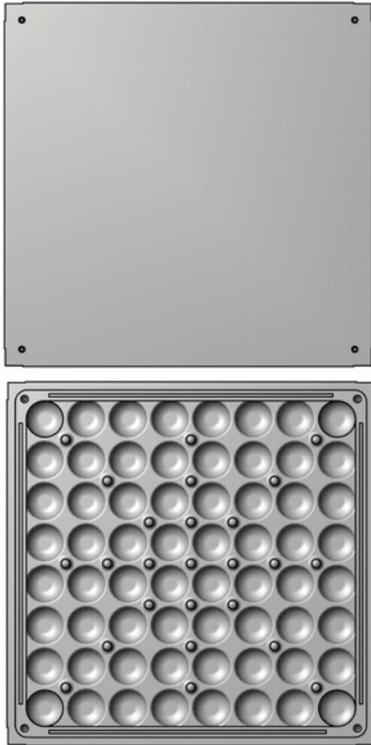
The system achieves this by incorporating the use of a clip on air tight stringer that acts as a barrier in between the panels.

SPECIFIERS GUIDE

The adjacent table details how to nominate the ASP Air Tight System in your project specification.

SYSTEM NAME	Steel Cementitious Air Tight System
SYSTEM CODE	SC-AT
PANEL LOAD TOLERANCE	e.g. AS Medium Grade 3.0kN
PANEL FINISH	Bare
FINISHED FLOOR HEIGHT (FFH)	e.g. 150mm

ACCESS FLOOR PANEL



TYPE	SC Series – Steel Cementitious
SIZE	The panels are 600mm x 600mm in size and are interchangeable with other panels. Also available are a series of load bearing finishing panels designed to minimise small off cuts experienced when cutting around columns, curved building designs and finishing off near perimeter walls. These finishing panels come in 600 x 800mm and 600 x 300mm sizes.
DEPTH	33mm
CONSTRUCTION	The panels consist of a hardened steel top and bottom sheet plate with corrosion resistant protection, inside and out, encapsulating a structural cementitious core.
CORE	Cementitious Compound
TOLERANCE	±0.25mm and a flatness tolerance of ±0.5mm measured on a diagonal across the top of the panel
FINISH	ASP's standard powder coated finish.
CONNECTION	The panel is screw fixed to the pedestal head at all four corners

PANEL LOAD TOLERANCES

AUSTRALIAN STANDARD (AS)

LOAD LEVEL	PANEL (KG)	SYSTEM (KG/M ² at 150mm FFH)	STATIC PERFORMANCE (kN)			DYNAMIC PERFORMANCE (kN) - Passes			
			CONCENTRATED	IMPACT	ULTIMATE	10 (WHEEL SIZE 75X25MM)	10,000 (WHEEL SIZE 150X50MM)	40,000 (WHEEL SIZE 200X75MM)	UNIFORM (kPa/m ²)
Medium Grade 3.0kN	13.5	40.9	3.0	0.4	9.0	2.7	2.7	2.25	N/A
Heavy Grade 4.5kN	14.2	42.8	4.5	0.4	13.5	4.4	3.3	2.25	N/A
Extra Heavy Grade 6.0kN	15.5	46.5	6.0	0.4	18.0	5.5	4.4	2.25	N/A

Safety Factor: Panels must provide a minimum safety factor of 3 times the concentrated load specified above in accordance with AS4154-1993.

CISCA STANDARD

LOAD LEVEL	PANEL (KG)	SYSTEM (KG/M ² at 150mm FFH)	STATIC PERFORMANCE (kN)			DYNAMIC PERFORMANCE (kN) - Passes			
			CONCENTRATED	IMPACT	ULTIMATE	10 (WHEEL SIZE 75X30MM)	10,000 (WHEEL SIZE 152X51MM)	40,000 (WHEEL SIZE 200X75MM)	UNIFORM (kPa/m ²)
Heavy Grade 4.45kN (1000LBS)	14.3	43.1	4.45 (1000LBS)	0.67 (150LBS)	6.23 (1400LBS)	3.56 (800LBS)	2.67 (600LBS)	N/A	11.97 (250psf)
Extra Heavy Grade 5.56kN (1250LBS)	15.2	45.6	5.56 (1250LBS)	0.67 (150LBS)	8.01 (1800LBS)	4.45 (1000LBS)	3.56 (800LBS)	N/A	14.36 (300psf)
Industrial Grade 6.67kN (1500LBS)	17.6	52.3	6.67 (1500LBS)	0.67 (150LBS)	11.12 (2500LBS)	5.56 (1250LBS)	4.45 (1000LBS)	N/A	16.76 (250psf)
Heavy Industrial Grade 8.9kN (2000LBS)	19.1	56.5	8.9 (2000LBS)	0.67 (150LBS)	12.45 (2800LBS)	6.67 (1500LBS)	5.34 (1200LBS)	N/A	19.15 (400psf)
Super Industrial Grade 11.12kN (2500LBS)	20.0	59.0	11.12 (2500LBS)	0.67 (150LBS)	13.79 (3100LBS)	8.89 (2000LBS)	7.11 (1600LBS)	N/A	23.94 (500psf)

Safety Factor: Panels must provide a minimum safety factor of 5 times the uniform load specified above in accordance with ICC-ES AC300.

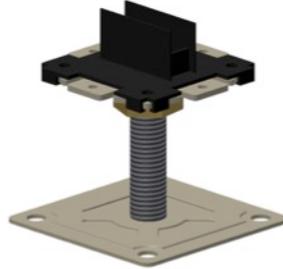
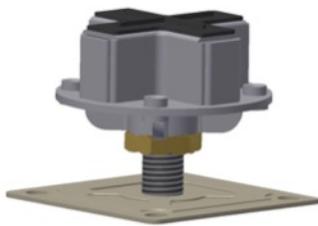
PSA MOB STANDARD

LOAD LEVEL	PANEL (KG)	SYSTEM (KG/M ² at 150mm FFH)	STATIC PERFORMANCE (kN)		
			CONCENTRATED	IMPACT	UNIFORM (kN/m ²)
Medium Grade 3.0kN	13.2	40.1	3.0kN	0.4	6.7
Heavy Grade 4.5kN	14.1	42.6	4.5kN	0.4	12.0

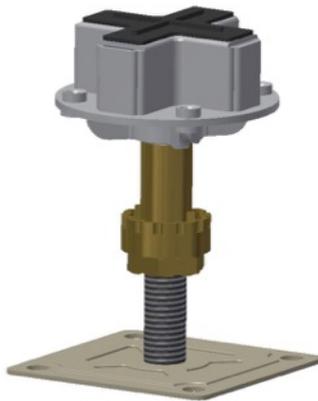
Safety Factor: Panels must provide a minimum safety factor of 3 times the concentrated load specified above in accordance with PSA MOB PF2 1992.

ACCESS FLOOR PEDESTALS
**FINISHED
 FLOOR HEIGHT
 (FFH)**
FIELD PEDESTAL
PERIMETER PEDESTAL
S1
S2

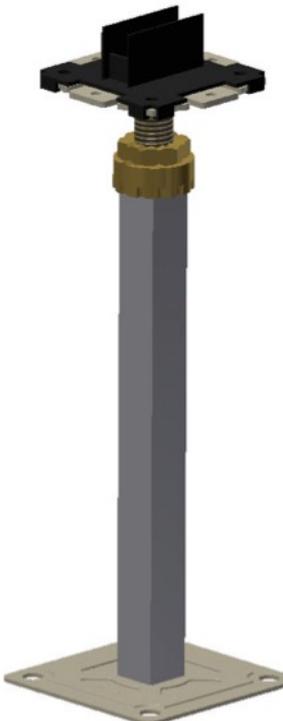
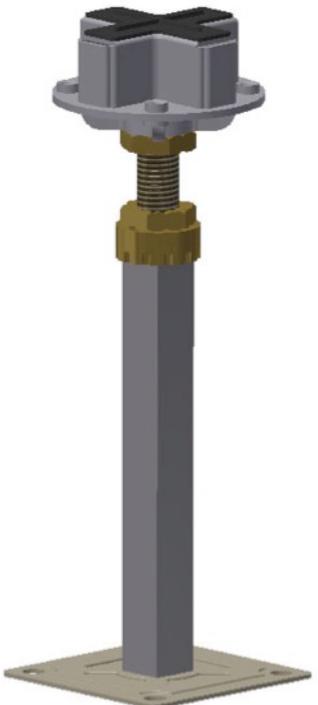
FFH 50 - 110mm


S3
S4

FFH 110 - 180mm


S5
S6

FFH 180 - 110mm


SIZE

 10,000mm² base plate

CONSTRUCTION

Steel pedestal base and aluminium head assembly with a zinc electro-plated rod

LOCKING

The pedestals will be provided with an adjusting and locking nut to maintain the assembly at a selected height, which requires a deliberate action to change the height setting, and which prevents vibration displacement.

FINISH

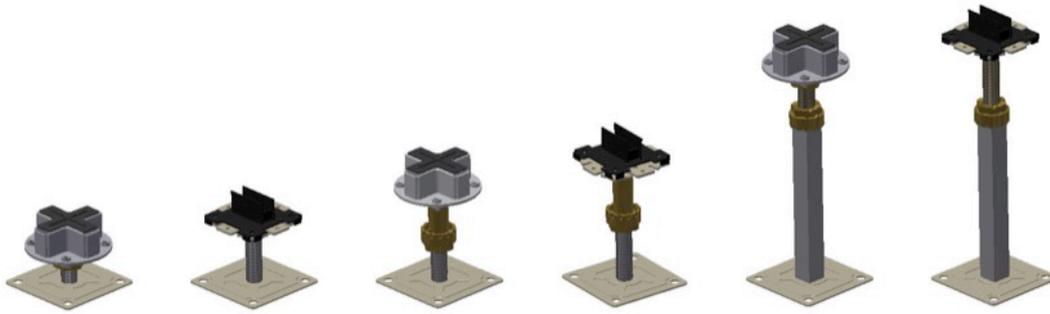
ASP's standard powder coated finish.

CONNECTION

The panel is screw fixed to the pedestal head at all four corners

**FINISHED
 FLOOR HEIGHT
 (FFH)**

The finished floor height of the access floor is measured from the sub-floor to the top surface of the installed access floor.



S1 FFH 50 - 110mm S2 FFH 50 - 110mm S3 FFH 110 - 180mm S4 FFH 110 - 180mm S5 FFH 180 - 800mm S6 FFH 180 - 800mm

Note: Access floor systems with a FFH over 800mm use the ASP Rigid Grid System

ACCESS FLOOR STRINGERS



TYPE	AT Stringer
SIZE	600mm
CONSTRUCTION	The Air Tight Stringer shall consist of 0.8mm thick steel, with a 3mm sponge rubber finish to act as a barrier in-between the panels.
FINISH	Galvanized steel.
CONNECTION	The AT stringer clips into the AT cavity of the field pedestal to minimise the air leakage lost in between the panels.