

URBAN RIGID

TECHNICAL DATA SHEET



“Innovative Access Flooring, *Sustainable Solutions*”

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URBAN RIGID SYSTEM DETAILS

RECOMMENDED APPLICATIONS



SYSTEM DETAILS

SYSTEM NAME:	Urban Rigid
DESCRIPTION:	Urban Rigid System is an alternative system to Icon Data for commercial environments. It is widely used for finished floor heights over 800mm or areas that require a more rigid installation due to high load or traffic.
LOAD LEVELS:	1000LBS 1250LBS 1500LBS



URBAN PANEL DETAILS

SIZE:	600mm x 600mm
DEPTH:	30mm 30mm 31mm
CONSTRUCTION:	The panels consist of a hardened galvanized steel top and bottom sheet plate encapsulating a structural calcium sulphate core.
CORE:	Calcium Sulphate
FINISH:	Galvanized Steel
TOLERANCE:	$\pm 0.25\text{mm}$ and a flatness tolerance of $\pm 0.5\text{mm}$ measured on a diagonal across the top of the panel
CONNECTION:	The panel is screw fixed to the pedestal head at all four corners



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URBAN RIGID SYSTEM DETAILS

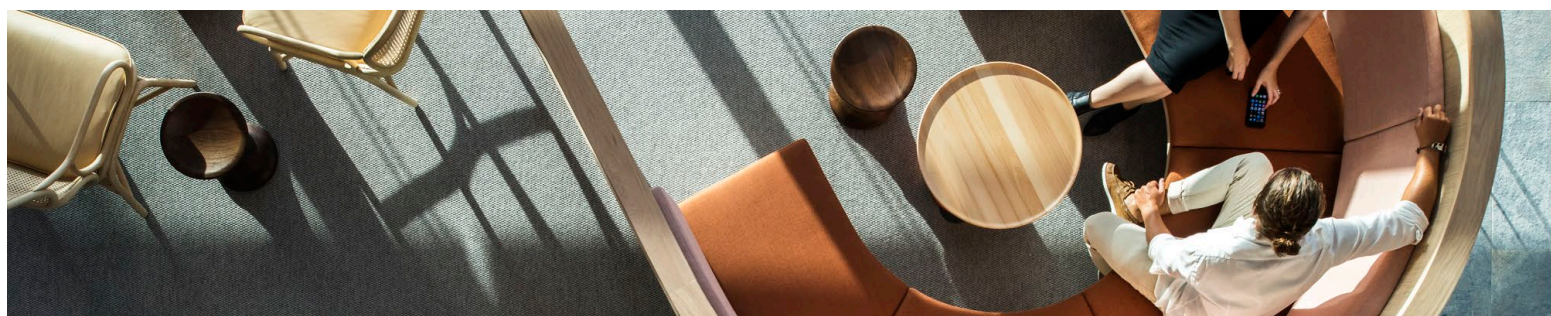
URBAN RIGID PEDESTAL DETAILS

SIZE:	100mm x 100mm base plate
CONSTRUCTION:	Corrosion resistant galvanised steel pedestal base, head and rod. Finished with a locating ABS gasket.
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:	Corrosion resistant galvanised finish.
CONNECTION:	The panel is screw fixed to the pedestal head at all four corners..
FFH:	The finished floor height of the access floor is measured from the sub floor to the top surface of the installed access floor.



URBAN RIGID STRINGER DETAILS

SIZE:	600mm
CONSTRUCTION:	Rectangular steel welded tube with 1.6mm sponge rubber foam.
FINISH:	Corrosion resistant galvanised finish with 1.6mm sponge rubber foam.
CONNECTION:	The stringer is screw fixed into the pedestal head.



URBAN RIGID SPECIFICATIONS AND TESTING

CISCA RECOMMENDED TEST PROCEDURES

ASP Access Floor systems are independently tested in accordance with the CISCA Recommended Test Procedures for Access Floors, the recognised performance standard for raised access flooring throughout North America. These test procedures evaluate structural performance, rolling load durability, pedestal stability, impact resistance and system serviceability, providing confidence that every ASP access floor system delivers reliable performance in demanding commercial and mission-critical environments.

TEST TYPE	STANDARD	DESCRIPTION
STRUCTURAL	CISCA Section 1	Concentrated Load
STRUCTURAL	CISCA Section 2	Ultimate Load
STRUCTURAL	CISCA Section 3	Rolling Load
STRUCTURAL	CISCA Section 4	Stringer Uniform Load
STRUCTURAL	CISCA Section 5	Pedestal Axial Load
STRUCTURAL	CISCA Section 6	Pedestal Overturning Moment
STRUCTURAL	CISCA Section 7	Panel Drop Test
STRUCTURAL	CISCA Section 8	Impact Load Test
STRUCTURAL	CISCA Section 9	Panel Cut-Out Test

URBAN RIGID SPECIFICATIONS AND TESTING

URBAN RIGID PERFORMANCE RESULTS

Tested as per CISC Recommended Test Procedures

CONCENTRATED LOAD	1000LBS	1250LBS	1500LBS	2000LBS
ULTIMATE LOAD	2000LBS	2500LBS	3000LBS	4000LBS
UNIFORM LOAD	23.2kN/m2	33.1kN/m2	42.6kN/m2	49.8kN/m2
IMPACT LOAD	68.4kg	68.4kg	68.4kg	68.4kg
PANEL WEIGHT (KG)	19.5	20.0	20.6	21.5
SYSTEM WEIGHT (KG/M2 @ 150MM FFH)	40.0	57.9	59.6	62.1

URBAN RIGID DYNAMIC ROLLING RESULTS

Tested as per CISC Recommended Test Procedures

WHEEL SIZES/CYCLES	1000LBS	1250LBS	1500LBS	2000LBS
3 x 1.2 in (10 PASSES)	3.6kN	4.5kN	5.6kN	6.7kN
6 x 2 in (10,000 PASSES)	3.0kN	3.6kN	4.5kN	5.6kN

URBAN RIGID SPECIFICATIONS AND TESTING

PERFORMANCE TESTING

TEST TYPE	STANDARD	RESULT
FIRE	BS 476-4 Non-combustibility test	Non-combustible
FIRE	EN-13501-1 European Fire Classification System	A1fl
FIRE	EN-1366-6 Fire Resistance Test	Integrity 120mins minimum.
FIRE	ISO 9239.1 Mean Distance of Flame Travel	0 mm
FIRE	ISO 9239.1 Average Critical Radiant Flux	$\geq 11\text{kW} / \text{m}^2$
FIRE	ISO 9239.1 Average Integrated Smoke Value	2% x min
INDOOR AIR QUALITY	CDPH Standard Test Method v1.2 (California Section 01350)	Pass
INDOOR AIR QUALITY	ASTM D5116 Environmental Chamber VOC Test	Pass
ACOUSTIC	ASTM E492-09 Impact Sound Transmission	IIC 55

URBAN RIGID LOAD GUIDELINES

Access floors may need to support the movement of heavy loads both during construction and after the space is in use. During construction, this can include transporting materials, tools and equipment across the floor. In a finished environment, it can include moving furniture, machinery or other equipment into place or even cleaning and maintenance procedures.

The guidelines below provide recommended unit loads and maximum total loads for each concentrated load rating, with separate values for travel with and without protection. Use them when planning how loads will be moved across the floor, taking into account the combined weight of the unit, operator and any materials being transported. Where protection is used, a suitable structural substrate must be installed along the entire path of travel.

Concentrated Load Rating	Without Protection – Recommended Unit Load*	Without Protection – Maximum Total Load*	With Protection – Recommended Unit Load*	With Protection – Maximum Total Load*
1,000 lb (4.5kN)	0.45 tonnes	0.50 tonnes	0.90 tonnes	0.95 tonnes
1,250 lb (5.6kN)	0.68 tonnes	0.78 tonnes	1.10 tonnes	1.20 tonnes
1,500 lb (6.7kN)	0.90 tonnes	1.00 tonne	1.35 tonnes	1.45 tonnes

**Loads include the unit, operator and any materials being transported. “With protection” requires a suitable structural substrate to be installed along the entire path of travel.*

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URBAN RIGID SUSTAINABILITY CREDENTIALS

ORGANIZATIONAL COMMITMENTS

- ASP Environmental Policy
- ISO 14001
- ISO 9001
- ISO 45001



LEED | WELL | GREENSTAR

- LEED Product Declaration
- GreenStar Product Declaration
- WELL Product Declaration



LIFE CYCLE IMPACTS

- Product Life Cycle Assessment (LCA)
- Environmental Product Declaration (EPD)
- Third-Party Verified Recycled Content



INDOOR AIR IMPACTS

- VOC Emission Compliance Testing



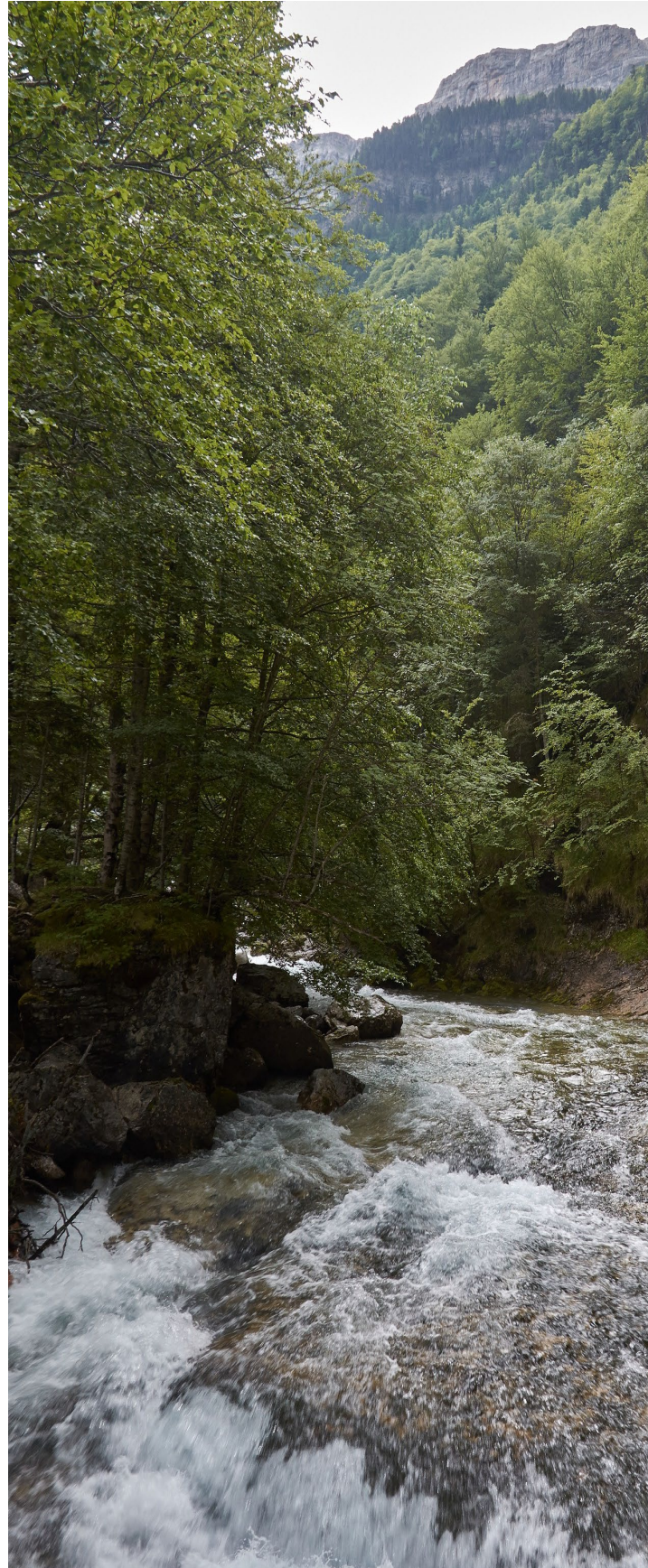
MATERIAL HEALTH AND TRANSPARENCY

- Red List Free - Restricted Substances Compliance
- Health Product Declaration (HPD)



CARBON NEUTRAL ACCESS FLOORING

- Walk Carbon Neutral Program Compatible



URBAN RIGID MAINTENANCE

MAINTENANCE GUIDE

CLEANING:

Remove dust and construction debris using a vacuum cleaner. Avoid sweeping the floor surface, as fine dust can migrate between panel joints and onto pedestal heads or stringers, potentially resulting in unwanted noise or reduced system performance.

FINISHES:

Prior to applying any finishes on the raised access floor system, the entire surface must be thoroughly trapped between panels and in the adhesive layer of subsequent finishes which can lead to potential noise issues.

PANEL REMOVAL & REINSTALLATION:

Only remove panels using an approved ASP panel lifting device.

Lift panels vertically to avoid damage to adjacent panels and pedestal heads

After maintenance beneath the floor, ensure each panel is correctly seated and securely fastened before returning the floor to service.

UNDERFLOOR ACCESS:

When carrying out maintenance to underfloor services:

- Remove only the minimum number of panels required.
- Avoid placing excessive loads on unsupported panels.
- Inspect pedestal heads and fasteners before reinstalling panels.
- Remove any debris from the underfloor plenum before replacing panels.

HEAVY LOADS:

Heavy equipment shall not be moved across the access floor without suitable load-spreading protection. Refer to ASP for allowable rolling loads and recommended floor protection.

SITE CONDITIONS:

During construction and throughout the service life of the floor, excessive dust, moisture and debris should be prevented from accumulating beneath the access floor. Maintaining a clean underfloor plenum will assist in preserving long-term system performance and minimising the potential for unwanted noise.

REPLACEMENT COMPONENTS:

Replacement panels and accessories should be supplied by ASP Access Floors to ensure compatibility with the installed system.





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