

# URBAN RIGID

TECHNICAL DATA SHEET



“Innovative Access Flooring, *Sustainable Solutions*”

# URBAN RIGID

## TECHNICAL DATA SHEET

### URBAN RIGID SYSTEM DETAILS

#### RECOMMENDED APPLICATIONS



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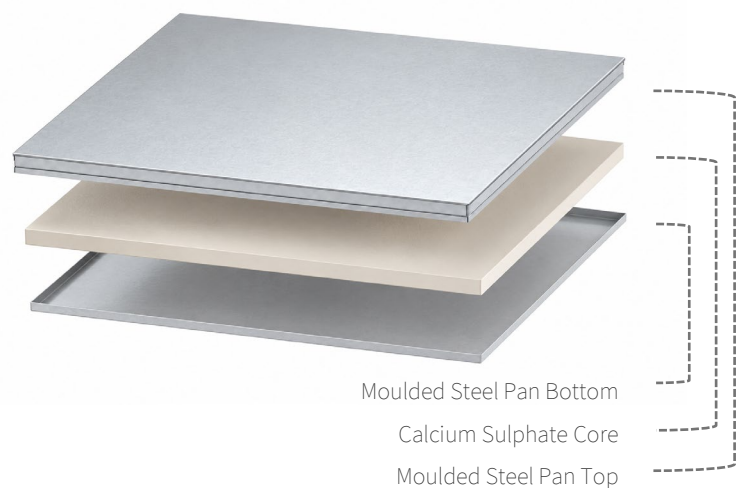
#### SYSTEM DETAILS

|              |                                                                                                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:         | 24 in x 24 in                                                                                                                  |
| DEPTH:        | 1.2 in                                                                                                                         |
| 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:    | ±0.01in and a flatness tolerance of ±0.02in 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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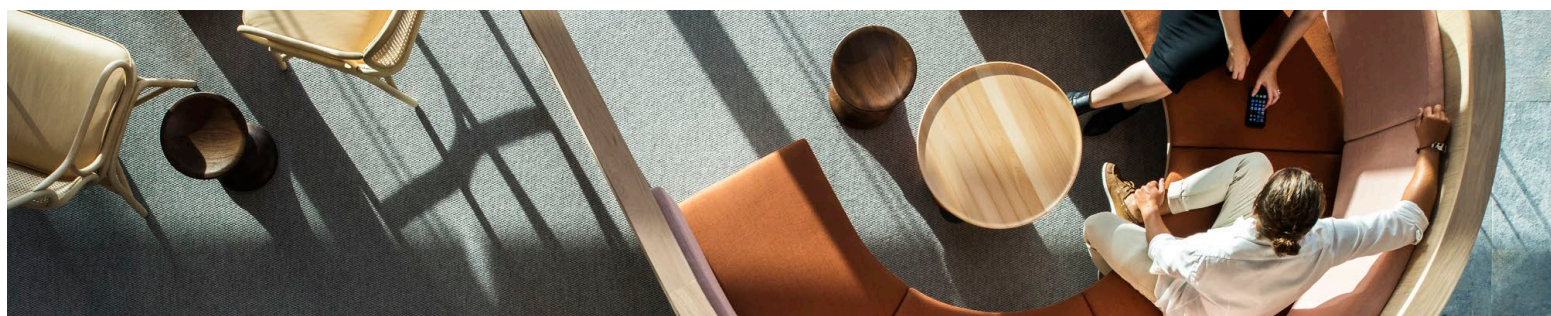
### URBAN RIGID SYSTEM DETAILS

#### URBAN PEDESTAL DETAILS

- SIZE:** 4in x 4in base plate
- CONSTRUCTION:** Corrosion resistant galvanized 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 galvanized 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.



- 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                                     | 486.6 lb/ft <sup>2</sup> | 691.3 lb/ft <sup>2</sup> | 889.7 lb/ft <sup>2</sup> | 1040 lb/ft <sup>2</sup> |
| IMPACT LOAD                                      | 150LBS                   | 150LBS                   | 150LBS                   | 175LBS                  |
| PANEL WEIGHT<br>(LBS)                            | 43                       | 44                       | 45.4                     | 47.4                    |
| SYSTEM WEIGHT<br>(LBS/ft <sup>2</sup> @ 6in FFH) | 949                      | 1374                     | 1414                     | 1474                    |

### URBANRIGID DYNAMIC ROLLING RESULTS

Tested as per CISC Recommended Test Procedures

|                             |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| WHEEL SIZES/CYCLES          | 1000LBS | 1250LBS | 1500LBS | 2000LBS |
| 3 x 1.2 in<br>(10 PASSES)   | 800LBS  | 1000LBS | 1250LBS | 1500LBS |
| 6 x 2 in<br>(10,000 PASSES) | 670LBS  | 800LBS  | 1000LBS | 1250LBS |

## 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                 | 1,000 lb                                    | 1,100 lb                                 | 1,980 lb                                 | 2,090 lb                              |
| 1,250 lb                 | 1,490 lb                                    | 1,710 lb                                 | 2,430 lb                                 | 2,650 lb                              |
| 1,500 lb                 | 1,980 lb                                    | 2,200 lb                                 | 2,980 lb                                 | 3,200 lb                              |

*\*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.*

## 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

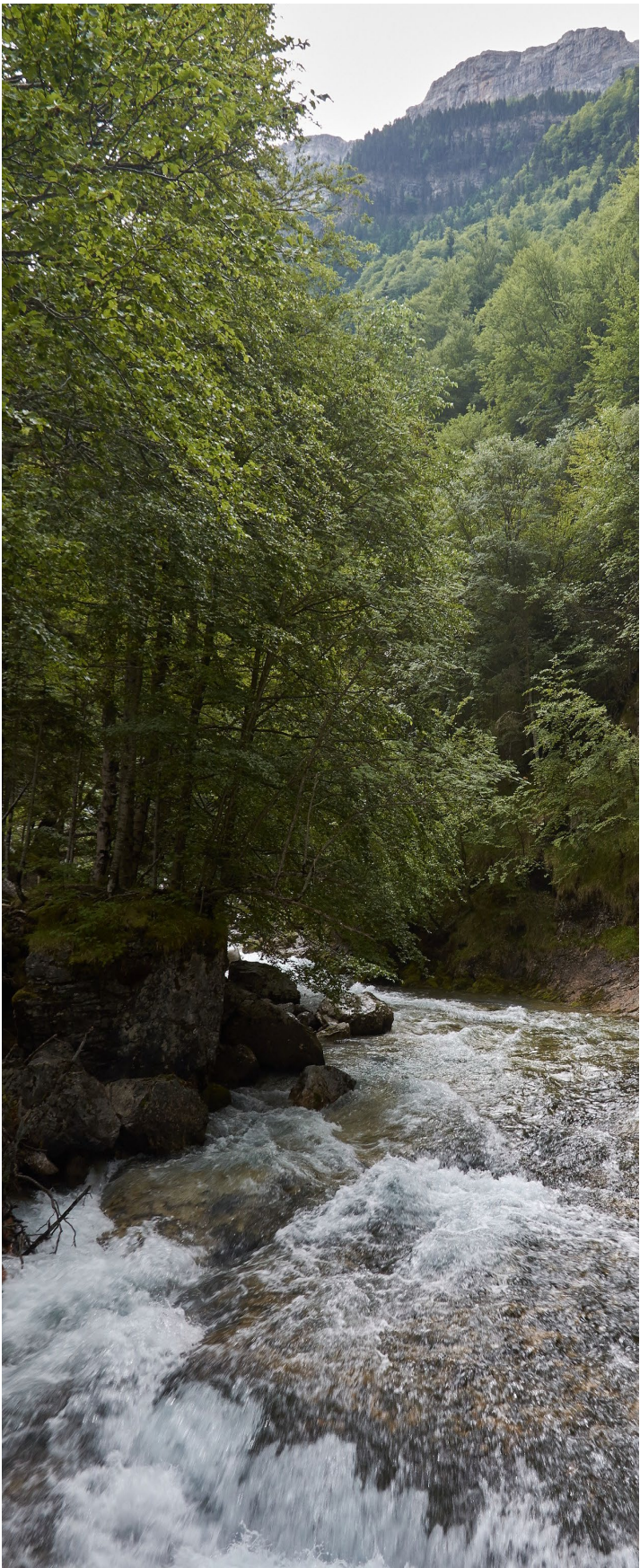
- VOC Emission Compliance Testing ✓

### 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.





[www.aspfloors.com](http://www.aspfloors.com)