

URBAN INTERLOCK

TECHNICAL DATA SHEET



“Innovative Access Flooring, *Sustainable Solutions*”

URBAN INTERLOCK

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URBAN INTERLOCK SYSTEM DETAILS

RECOMMENDED APPLICATIONS



TILED AND STONE
AREAS



AMENITIES



LIFT LOBBIES

SYSTEM DETAILS

- SYSTEM NAME:** Urban Interlock
- DESCRIPTION:** The Urban Interlock System has been designed for applications where stone or tile finishes are to be applied. The panels specially designed interlock edge profile ensures panels remain locked together, eliminating movement.
- LOAD LEVELS:** 1000LBS (4.45kN) | 2000LBS (8.9kN)



URBAN PANEL DETAILS

- SIZE:** 600mm x 600mm
- DEPTH:** 31mm | 42mm
- CONSTRUCTION:** The panels consist of a bare calcium sulphate surface and a reinforcing steel bottom plate. The panel has a specially designed interlocking edge profile.
- CORE & FINISH:** Bare Calcium Sulphate
- 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 interlocks to the adjacent panels and is screw fixed to the pedestal head at all four corners
- CUT PANELS:** A central support pedestal is required on cut panel edges



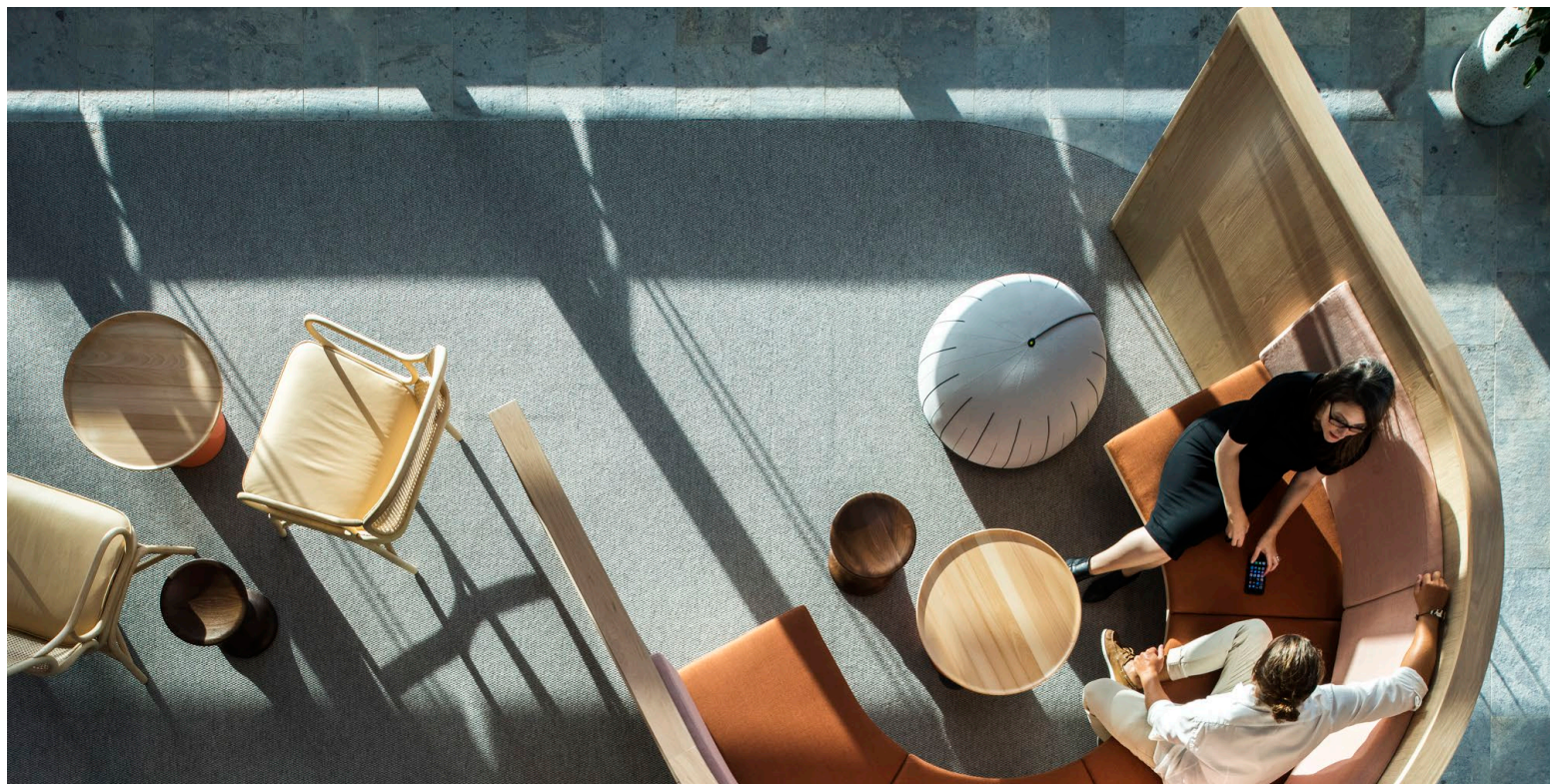
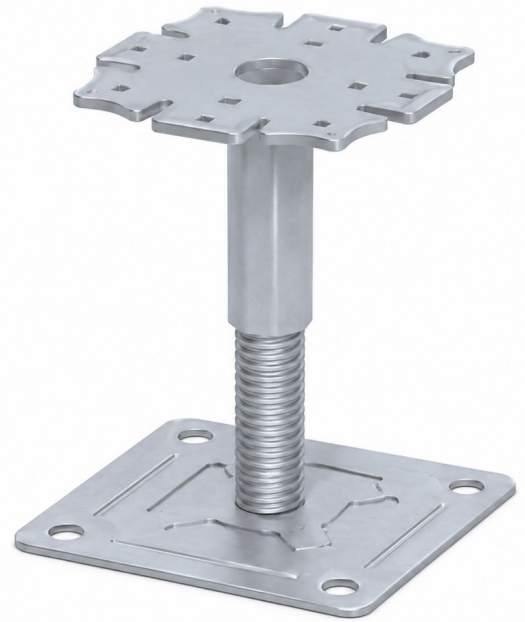
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URBAN INTERLOCK SYSTEM DETAILS

URBAN INTERLOCK PEDESTAL DETAILS

- SIZE:** 100mm x 100mm base plate
- CONSTRUCTION:** Corrosion resistant galvanised steel pedestal base, head and 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:** 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 INTERLOCK 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 INTERLOCK SPECIFICATIONS AND TESTING

URBAN INTERLOCK PERFORMANCE RESULTS

Tested as per Cisca Recommended Test Procedures

CONCENTRATED LOAD	1000LBS (4.45kN)	2000LBS (8.9kN)
ULTIMATE LOAD	8.9kN	17.8kN
UNIFORM LOAD	22.3kN/m ²	44.5kN/m ²
IMPACT LOAD	68.4kg	68.4kg
PANEL WEIGHT (KG)	19.5	28
SYSTEM WEIGHT (KG/M ² @ 150MM FFH)	56.5	81.1

URBAN INTERLOCK DYNAMIC ROLLING RESULTS

Tested as per Cisca Recommended Test Procedures

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

URBAN INTERLOCK 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 INTERLOCK 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*
1,000lb (4.45kN)	0.45 tonnes	0.50 tonnes	0.90 tonnes	0.95 tonnes
2,000lb (8.9kN)	1.12 tonnes	1.32 tonnes	1.48 tonnes	1.68 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.*

URBAN INTERLOCK 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



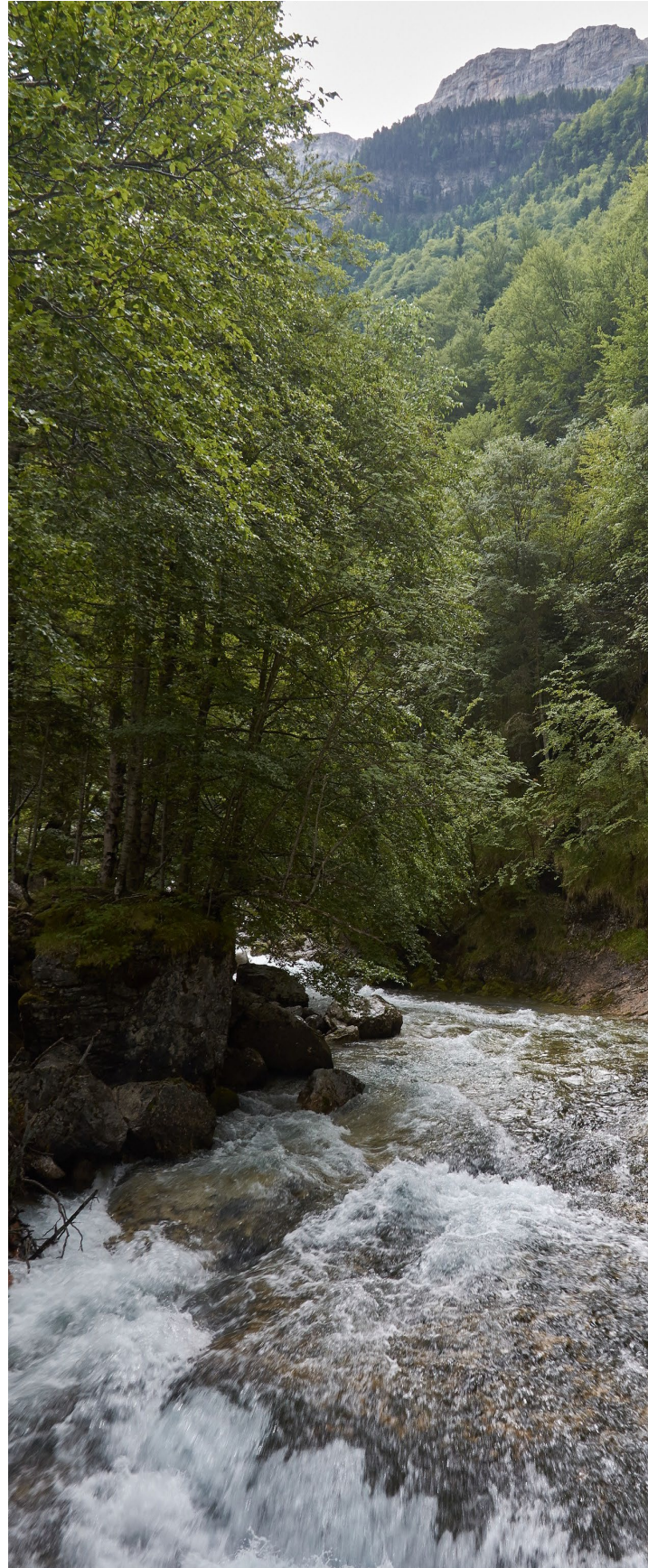
MATERIAL HEALTH AND TRANSPARENCY

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



CARBON NEUTRAL ACCESS FLOORING

- Option Available as Carbon Neutral



URBAN INTERLOCK MAINTENANCE

SYSTEM CHARACTERISTICS

Urban Interlock panels lock in with a tongue and groove like section along their edges to create a continuous and secure floor assembly. Unlike conventional removable access-floor panels, individual Urban Interlock panels cannot be vertically lifted once the system has been installed.

The system is generally designed to receive tiles or another bonded floor finish. Underfloor services should therefore be coordinated before installation, with access hatches incorporated wherever future inspection or maintenance will be required.

FLOOR FINISHES

Before applying tiles or other bonded finishes, ensure the Urban Interlock floor is fully installed, correctly interlocked, clean, dry and free from dust, moisture and construction debris.

Adhesives, primers and finishing materials must be suitable for the specified panel substrate and final floor covering. Install the finish in accordance with the manufacturer's requirements, including any necessary movement, control or perimeter joints.

Confirm the location of all required access hatches before applying the floor finish. Where access hatches are provided, the finish should be detailed so that each hatch can be opened without damaging the surrounding tiled surface.

UNDERFLOOR ACCESS

Access to underfloor services must be provided through purpose-designed access hatches located at nominated service points. The location of each hatch should be coordinated with the relevant underfloor services and confirmed before installation of the floor finish.

Open access hatches only using the appropriate lifting method. Do not attempt to force, lift or remove the surrounding interlocked panels.

After completing underfloor maintenance:

- ✓ Remove all tools, dust and debris from the underfloor area.
- ✓ Inspect the access-hatch frame, supports and surrounding components.
- ✓ Check that the hatch is correctly aligned and fully supported.
- ✓ Carefully replace and securely seat the hatch before returning the floor to service.
- ✓ Confirm that the finished surface is level with the surrounding floor.



DIAGRAM: ACCESS HATCH EXAMPLE

URBAN INTERLOCK MAINTENANCE

CLEANING

Remove dust and construction debris using a vacuum cleaner. Avoid sweeping the unfinished panel surface, as fine dust may collect within panel joints or migrate onto pedestal heads, potentially causing unwanted noise or affecting system performance.

Once the final floor finish has been installed, clean and maintain the surface in accordance with the finish manufacturer's recommendations. Do not allow excessive water or cleaning products to enter access hatches, penetrations or perimeter gaps.

SYSTEM MODIFICATIONS

Do not cut, force or attempt to remove individual interlocked panels. Creating new access openings or modifying an existing hatch may affect the structural performance and continuity of the floor system.

Any new access hatch, penetration, panel alteration or partial dismantling should be assessed and carried out by ASP Access Floors or suitably qualified personnel using an approved method. The surrounding tiled finish may need to be removed locally before modification work can begin.

HEAVY LOADS

Do not move heavy equipment across the floor without suitable load-spreading protection. Point loads, rolling loads and temporary construction loads must remain within the allowable capacity of the Urban Interlock system.

Refer to ASP Access Floors for allowable loading limits and recommended floor-protection methods before moving or installing heavy equipment.

SITE CONDITIONS

During construction and throughout the service life of the floor, prevent excessive dust, moisture and debris from accumulating beneath the system.

Keep access hatches, service penetrations and perimeter interfaces appropriately sealed or protected. Maintaining a clean and dry underfloor space will assist in preserving the long-term performance of the system and minimising the potential for unwanted noise.

REPLACEMENT COMPONENTS

Replacement access hatches, pedestals, panels and associated components should be supplied or approved by ASP Access Floors to ensure compatibility with the installed Urban Interlock system.

Damaged components should not be repaired, substituted or modified without approval. Contact ASP Access Floors for assessment and the recommended replacement or reinstatement procedure.



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