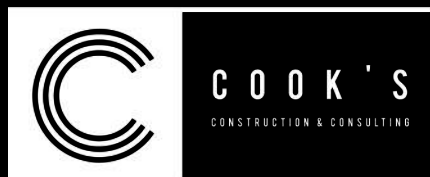


CORE

TAKING YOUR CONCEPTS TO NEW HEIGHTS



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About ASP Access Floors

ASP Access Floors are a leading global company in the access flooring industry, revolutionising access flooring systems and installation. **ASP Access Floors** specialises in the manufacture, distribution and installation of access flooring solutions Worldwide.

With over 20 years experience, **ASP Access Floors** has developed and patented multiple unique access floor designs which have been used in some of the most iconic projects around the world. Ongoing research and development allows **ASP Access Floors** to produce innovative solutions that offer the market quality, versatility and infinite support.

“

We are leaders in our space, and the end result is a seamless, integrated, structural system

”

The ASP Access Floor Systems are renowned for their ability to be supremely adaptable to any job brief. The **ASP Access Floors** service, from consultation to job completion stage, is unparalleled in the access flooring marketplace, and they are renowned for it.

The blueprint of **ASP Access Floors** is a flair for innovation, which is demonstrated in all they do. They are leaders in their space, and the end result is a seamless, integrated structural system which is functional, offers lifelong durability, and shows a sustainability which **ASP Access Floors** is committed to. While delivering an unmatched high standard of quality in their products, they also ensure consistent compliance with Environmental Standards and Regulations.

A REVOLUTIONARY IDEA

ASP Access Floors provide a controlled cavity in between the slab and finished floor level where all data, power, hydraulic and fire services can be distributed. The modular design of the access floor allows the flexibility to alter a building's service layout to accommodate changing technological and space driven operations.

BUT: they work to your specs. **ASP Access Floors** are committed to delivering on not only the needs list, but also the wish list, of an Architect or Designers project plans. They are incredibly adaptable to any job presented.

Furthermore, **ASP Access Floors** is all about educating the industry on the science behind what they do, so applications are understood before the task at hand commences.

Today, our society uses access flooring in various applications such as:

- Commercial Buildings
- Data Centres
- Control/Switch and Communications Rooms
- Casinos
- Entertainment Facilities
- Education Facilities
- Medical Institutions
- Defence/Government Services

The flexibility of using an access floor system has created the perfect solution for many owners, developers, builders, designers, architects and facility managers. They work towards what you have in mind to make it happen, and offer after sales and installation accessibility to our **ASP Access Floors** team so you feel well supported all the way through your design process, project implementation and well after.

THE BENEFITS

ASP provides businesses and developers the perfect balance between optimum design and functionality.

✓ Ease of reconfiguration

The modular design of the access floor enables businesses to reconfigure their offices.

✓ Reduced costs and ease of maintenance

The cost differentiation between the installation and maintenance of traditional suspended ceiling system versus **ASP Access Floors system** are exceptionally high. Overall access floors are approximately 40% cheaper to maintain the services.

✓ Maintenance

Services can be maintained regularly and without lengthy time delays as servicemen are able to isolate and service particular zones as required, which minimises the interruptions to your workplace.

✓ Fast and efficient installation which meets the project timeline

Installing the services in the floor in lieu of the suspended ceiling system dramatically cuts the time of installation, which in turn cuts the overall project construction time.

✓ Occupant comfort

With the HVAC system installed in the floor, employees are able to individually control the air pressure and temperature through their office floor diffusers.

Environmental Policy

OUR ENVIRONMENTAL COMMITMENT

As a member of the **Green Building Council of Australia (GBCA)** and the **US Green Building Council (USGBC)**, **ASP Access Floors'** Environmental Policy outlines how ASP endeavours to use recycled materials, reduce its Carbon Footprint and optimise its supply chain.

The implementation of the policy will ensure ASP:

- Considers sustainability in all relevant decision making
- Reduces their greenhouse gas emissions
- Produces less waste and increase recycling

The aim of this policy is to incorporate ecologically sustainable development principles in every facet of design, manufacturing and installation with the introduction of the following five key objectives:



Indoor Environment Quality



Waste Management



Recycled Content



Life Cycle Analysis



Environmental Product Declaration



AREAS OF FOCUS

The results from the LCA and the sensitivity analysis show potential improvements to reduce ASP's access floor systems' overall environmental impacts. Areas of focus include:

- The use of certified 100% hydroelectricity at the steel manufacturing plant
- Increasing the percentage of recycled cement in the cementitious core mix
- Finding more environmental alternatives to the panel core
- Reducing the weight of the whole system to reduce both production and distribution environmental impacts
- The monitoring of freight services to ensure shipping methods with the best available technology and least environmental impact are used
- Optimising distribution routes to eliminate unnecessary transport
- Substituting truck freight with rail freight where practical

Beyond the scope of the study, **ASP Access Floors** is looking to set up a product stewardship programme to recover and recycle the access floor componentry at their end of their life.

ENVIRONMENTAL PRODUCT DECLARATION

ASP Access Floors are the first access floor company in the Southern Hemisphere to have obtained an Environmental Product Declaration (EPD®).

An Environmental Product Declaration, EPD®, is a verified document that reports environmental data of products based on life cycle assessment (LCA) and other relevant information and in accordance with the international standard ISO 14025 (Type III Environmental Declarations).

For more information and to download a copy of our ICON or URBAN EPD® visit: <https://www.environdec.com/EPD-Search>



ASP Access Floors is a global leader in manufacturing, distribution, and installation of access flooring and is completely dedicated to complying with Environmental Standards and Regulations.

The primary mission of **ASP Access Floors** is to provide all of their clients with exceptional products and service. Through research and analysing current trends and problems which occur within access floors, **ASP Access Floors** has already developed some of the most unique and effective products on the market. In fact, they are the market leader in Australia and around the world, with global expansion currently in place.

COMPLIANCE

- **ASP Access Floors** operates under the guidelines of an Environmental Management System (EMS), compliant with international standard ISO 14001.
- **ASP Access Floors** environmental product declaration (EPD) is certified in accordance with ISO 14025 and EN 15804
- **ASP Access Floors** products comply with Australian Standard AS4154 along with international standards CISCA, EN 12825, PSA MOB and DIN.

“
We are the first access floor company in the Southern Hemisphere to have obtained an Environmental Product Declaration (EPD®)
”

GREEN STAR AND LEED PROJECT PROFESSIONALS

ASP Access Floors has completed numerous **Green Star** and **Leadership in Energy and Environmental Design (LEED)** rated projects. Some of these include:

Barangaroo International Towers

Lend Lease's International Towers stand at the entrance to the Barangaroo Commercial Precinct. Comprising 300,000 m² of ASP ICON X and CONCEPT + HPL systems, the three International Towers showcase the latest in innovative and sustainable design. Barangaroo International Towers is the largest access flooring project ever undertaken in Australia. **ASP Access Floors** received CarboNZero and CEMARS Certification in response to the work they have undertaken with regards to Barangaroo International Towers and its environmental requirements. The designs for the Barangaroo International Towers have achieved a minimum 5 Star NABERS Energy rating and 6 Star Green Star Office Design and As Built (V3) Rating. **ASP Access Floors** are committed to working with the Green Building Council of Australia through our production of products with low VOC content and high recycled material content, reduced carbon emissions.

Brisbane Supreme Courts

The Brisbane Supreme Courts are a unique legal precinct and one of the largest court buildings in Australia with over 60,000 square metres of floor space spread over 19 floors. The concept of a "comfortable and healthy building" working with natural light and under floor air was designed to provide occupants maximum comfort. The Access Floor housed the air plenum and was finished in the specified specialty timber due to the complexity and highly specified project in which **ASP Access Floors** aimed to achieve outstanding results.

Medibank Head Office Melbourne

720 Bourke Street, Melbourne is a unique development comprising of 16 levels of A-Grade of office accommodation with Premium Grade Services. A true workplace evolution, with the building designed to optimise the health of its tenants. Being able to incorporate under floor air-conditioning with the ASP ICON AIR System in the space was an important component of this Green Star project, as it amplifies occupant comfort while reducing the systems energy consumption.

ANZ Head Office Docklands

The ambitious ANZ project required an Air Tight access floor system with smoke and zone baffling. Due to the design of the mechanical units, the specification required the ASP ICON AIR System to achieve each zone to be tested to comply with stringent controlled air leakage rates without floor coverings.

1 Bligh Street, Sydney

Various floor finishes such as tiling, timber, vinyl and carpet were used which dictated multiple different set-downs in the ICON X access flooring. In order to marry the floor against the curved facade of the building, our specially designed 800 x 600mm sized panels were used to achieve the vastness of the curve. Due to the building's 6 star Green Star rating, strict guidelines were placed on the percentage of recycled steel. ASP Access Floors Environmental Initiatives heavily focus on producing products with high recycled content, low VOC's and reduced carbon emissions.

Australian Catholic University, VIC

As the Australian Catholic University has been awarded the maximum 6 Star Green Star – Education Design v1 Certified rating from the Green Building Council of Australia, **ASP Access Floors** were able to comply with the sustainable nature of the project. **ASP Access Floors** aimed to use sustainable features in their floors which predominantly had a vinyl finish on top, along with housing under floor air-conditioning.

University of Adelaide

New Engineering Building – This project introduced a new concept combining ASP Access Floor's Icon Air System with an acoustic foam baffling system. The product "Soberfoam" was utilised and these 25mm foam panels and were fixed with an adhesive to the underside of each access floor panel. The foam panels were also incorporated with **ASP Access Floors'** propriatry zone baffle system to provide insulated acoustic baffles between zones.



The ASP Product Range

INNOVATION AND QUALITY

The **ASP Access Floors** product range comprises of innovative, high quality access floor systems and accessories that cater to all project environments, applications and project needs.

The ASP catalogue is a comprehensive guide to the patented access floor system assemblies, architectural details, environment guides and technical information to help design the perfect floor for each application.

WE SEE THINGS DIFFERENTLY

Technology is constantly advancing and so is the way we design and shape our working environments, and so with this in mind, **ASP Access Floors**, constantly review, design and further develop the ASP product range. We bounce off your ideas, and are inspired to stretch our design parameters further, based on the quandaries you present to us.

ASP Access Floors are at the forefront of innovative design, and produce solutions to issues you've perhaps not even factored in yet, problem solving before it happens with our forward thinking approach.

GOOD DESIGN AND FUNCTION

ASP provides clients with the perfect balance between optimum design and functionality. Each design focuses on creating solutions that are cost effective, quiet underfoot, durable, serviceable and allowing for quick and easy installation.

We work to your brief and your challenges, where flexibility is of paramount importance.

We are constantly looking for smart, market leading solutions to meet our client's needs.

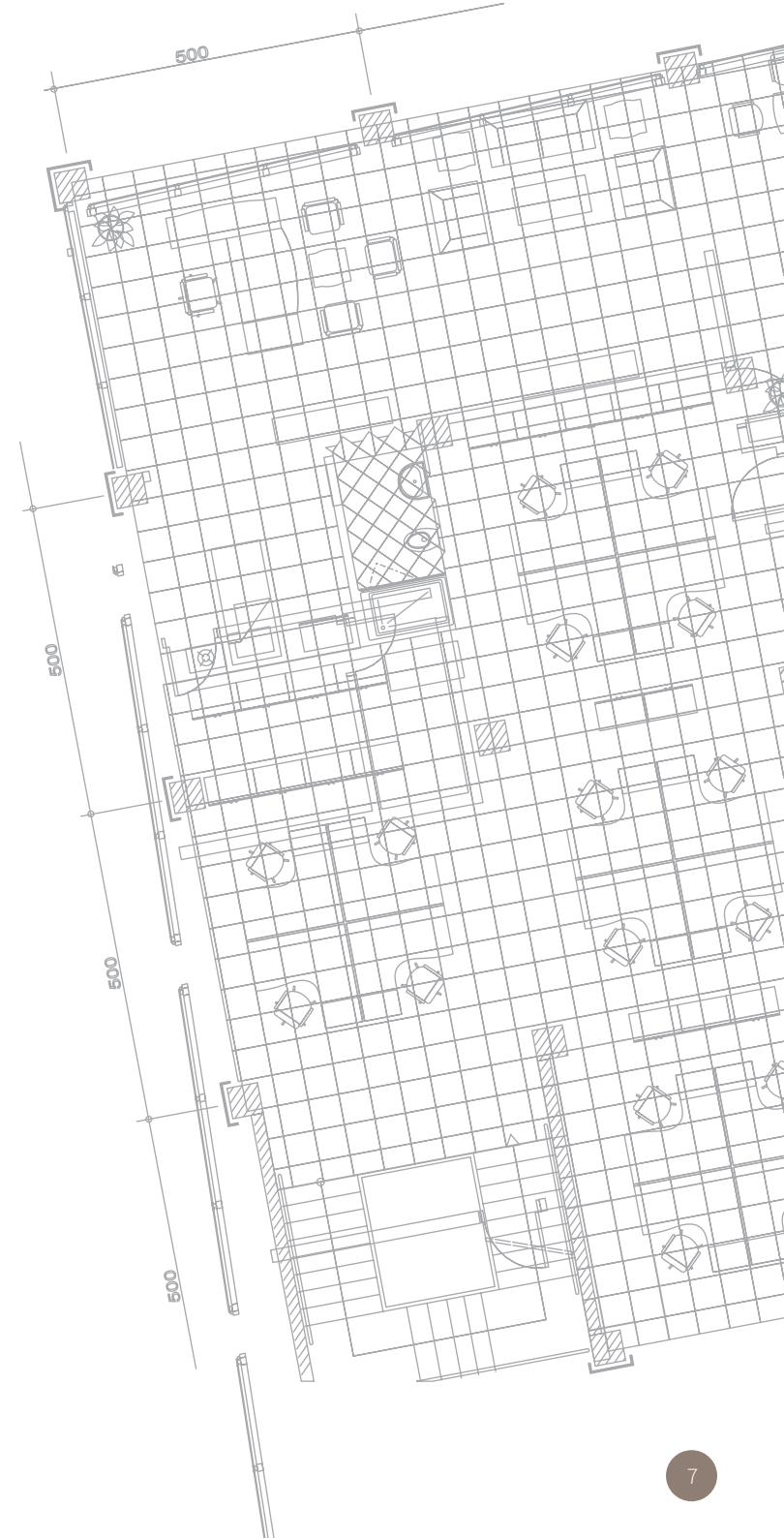
As **ASP Access Floors** has a global presence, and we are constantly inspired by international projects that we have completed around the world. We don't see challenges as constraints, instead a way to extend our ever increasing knowledge.



ASP Access Floors patents and designs

ASP Access Floors has many international patents on our product designs:

- 01 Series Under Structure System:** The only under structure system to provide an inbuilt expansion joint into the pedestal design, as well as a specialised cushioning and sound absorption gasket.
- 02 AT System:** A complete air tight access floor solution specifically designed to minimise and control the amount of air leakage. The system is complete with a propriety air tight stringer and air highway/baffle system.
- 03** An access floor assembly and components
- 04** Adjustable and lockable pedestal for an access floor assembly
- 05** A noise attenuating and vibration damping pedestal for an access floor assembly
- 06** Air highway stringer and underfloor air ducting system
- 07** Power and data mounting bracket for an access floor assembly
- 08** An earthing connector for an access floor panel
- 09** Head for an access floor pedestal
- 10** An access floor panel



Commercial Environment

In Commercial Offices **ASP Access Floors** engage to understand the Architects and Designers vision for the building, the environmental objectives of the build, the head contractors key considerations and service consultants requirements. Access Floor Systems are designed with these objectives in mind.

With commercial towers building higher and striving to achieve better environmental credentials, it is imperative that ASP Access Floors are well educated in commercial industry news.



ENVIRONMENTAL

Green Star compliant / LEED compliant / High recycled content / Low VOC's / Low Carbon footprint.



MAINTENANCE

- Ease of access for regular maintenance.
- The access floor provides the building owner, manager and client the ability to clearly define service runs and access. This can help with power metering of areas within a floor space and could help manage power consumption.
- Ease of maintenance and serviceability with minimal disruption to the office workflow.
- Reduced maintenance costs when using underfloor services as opposed to maintenance within ceiling voids.



ARCHITECTURAL CONSIDERATIONS

- The ability to incorporate underfloor air increases occupant comfort and in turn increases productivity in the workplace.
- The ability to incorporate underfloor air allows for more efficient heating and cooling.
- Improved indoor air quality with the use of underfloor air.
- Ability to construct tiered levels in lecture halls, allowing for underfloor services in these areas.
- Greater design freedom in ceiling materials specification when installing all primary services in the underfloor space. Advantageous in heritage buildings.



LOAD CAPACITY

Various load ratings, meeting requirements of static and live loads, across the access floor.



COST EFFICIENCY

- When completing alterations to or maintenance within the floor space, it has been found installing additional services to the underfloor space is far more cost effective than within the ceiling space. Acoustic ceiling tiles damage easily and up to 70% need replacing during a cycle of fit out works.
- When an Access Floor is designed into a new building from the start of the project, service reticulation in the building can be less expensive to install and less expensive to service over the life of the building.



SAFETY & SECURITY

Elimination of safety hazards in office environments with all cabling and services safely contained in the underfloor cavity.



ACCESSIBILITY

Ease of accessibility to underfloor services.



FINISHES

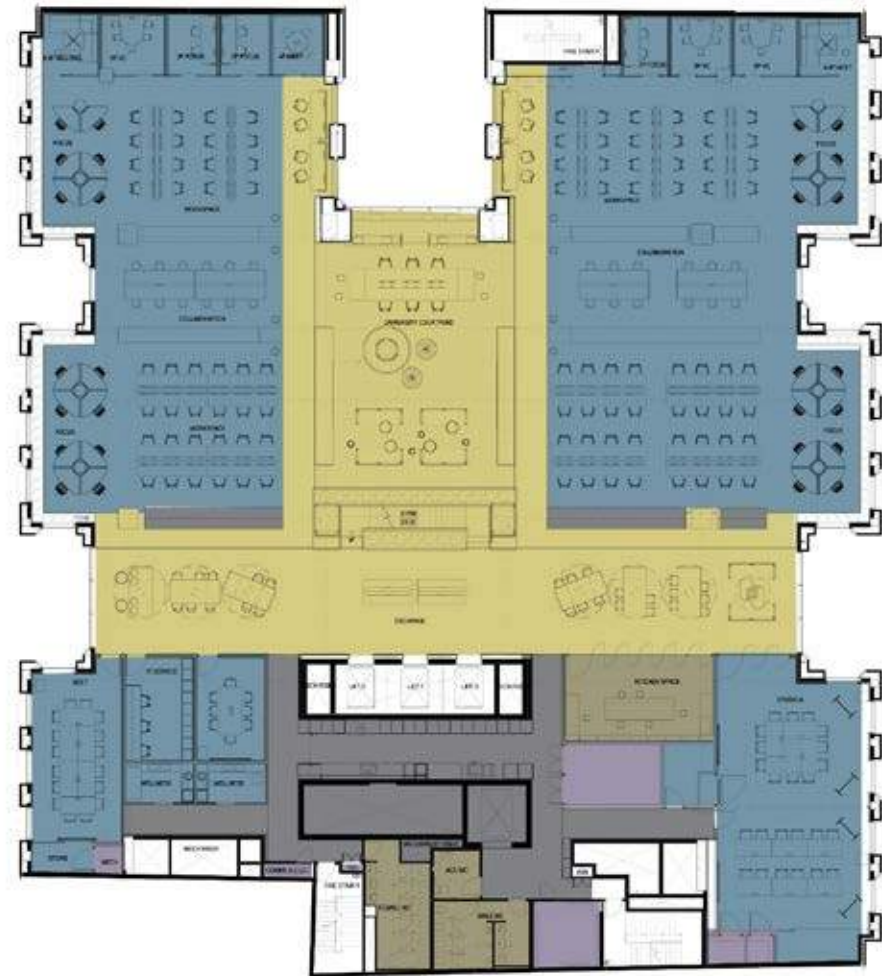
Design Freedom: Access floor panels can be pre-finished in a number of custom specified floor finishes whilst maintaining full access to the underfloor cavity.

Floor finishes may include but are not limited terrazzo, stone, tiles, rubber, cork, marmoleum, vinyl, timber, concrete.



ACOUSTICS

Acoustically rated to control sound transmission between public spaces and working spaces.



The access floor solution for each project is unique, varied and will most likely be multi-faceted. Please contact the ASP Access Floors sales team for assistance in tailoring your project's access floor solution.

Tel: 02 9620 9915 Email: sales@aspfloors.com.au



Data Centre/Comms Environment

As our world increasingly becomes more digitally connected, Data Centres are constantly leveraging new systems, methods and advanced technologies. It is of high importance to **ASP Access Floors** that the company is abreast the new solutions and concepts around data centre architecture and design.

ASP Access Floors data centre solutions focus on aiding the data centre to run more optimally which in turn creates a competitive advantage for them.

MAINTENANCE

- Ease of access for regular maintenance.
- The access floor provides the building owner, manager and client the ability to clearly define service runs and access. This can help with power metering of areas

within a floor space and could help manage power consumption.

- Reduced maintenance costs when using underfloor services as opposed to maintenance within ceiling voids.

ARCHITECTURAL CONSIDERATIONS

- The ability to incorporate underfloor air to allow for ventilation and enhance temperature control.
- Rack cooling options either through under rack cutouts or floor air grilles.

- Multiple and extensive services that are required in data centre and communication rooms are able to be concealed within the floor cavity
- Ability to use ASP Proprietary Bridging stringer to bridge large spans of ducts and other services that are over 600mm.

LOAD CAPACITY

Various load ratings, meeting requirements of static and live loads, across the access floor.

COST EFFICIENCY

- When completing alterations to or maintenance within the floor space, it has been found installing additional services to the underfloor space is far more cost effective than within the ceiling space. Acoustic ceiling tiles damage easily and up to 70% need replacing during a cycle of fit out works.
- When an Access Floor is designed into a new building from the start of the project, service reticulation in the building can be less expensive to install and less expensive to service over the life of the building.

ENVIRONMENTAL

Green Star compliant / LEED compliant / High recycled content / Low VOC's / Low Carbon footprint / Floorscore Certified.



SAFETY & SECURITY

Elimination of safety hazards in office environments with all cabling and services safely contained in the underfloor cavity.



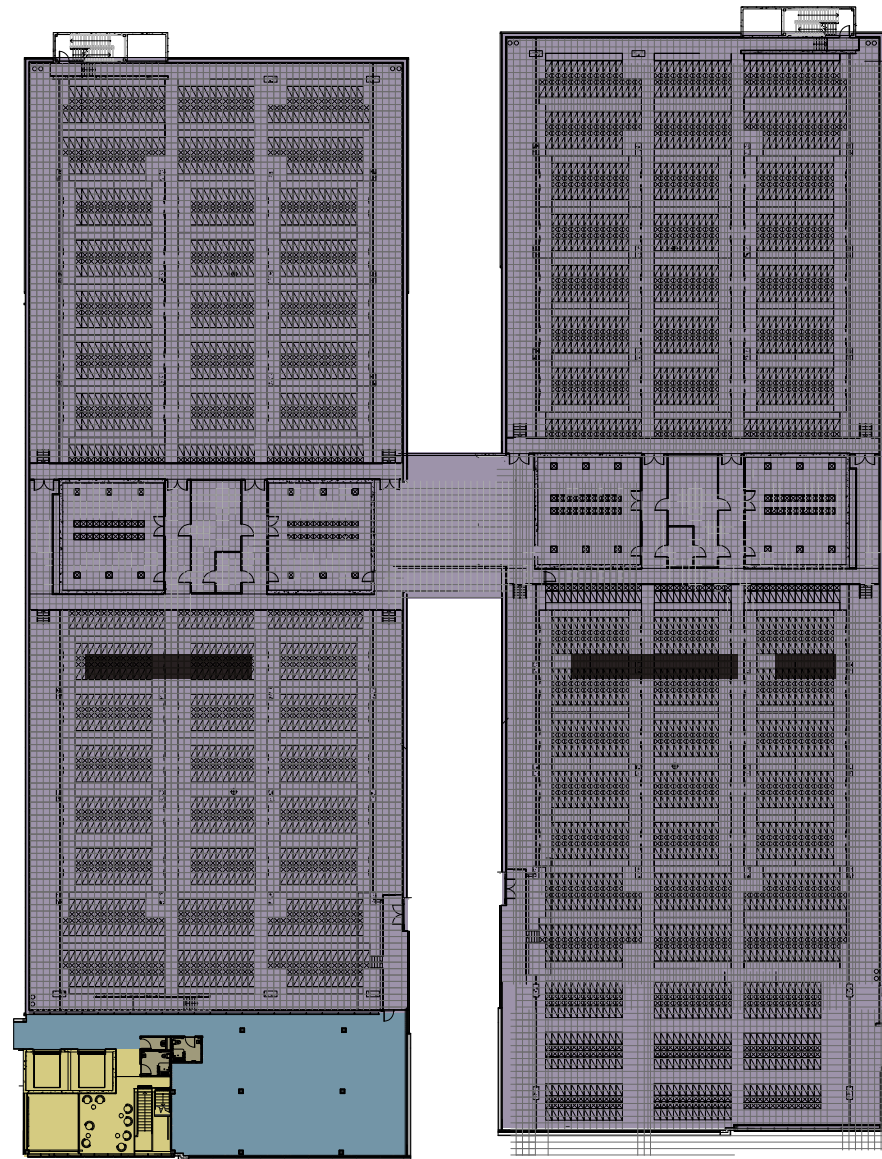
ACCESSIBILITY

- Ease of accessibility to underfloor services.
- Gravity laid panels allow quick and easy access to underfloor services for maintenance, rerouting or upgrading.



FINISHES

Pre-finished Anti-Static and conductive HPL and Vinyl floor finish options are available.



The access floor solution for each project is unique, varied and will most likely be multi-faceted. Please contact the ASP Access Floors sales team for assistance in tailoring your project's access floor solution.

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URBAN INTERLOCK



CONCEPT +



I+ HPL EXTRA HEAVY GRADE



ICON X MEDIUM GRADE

*Alternative finish Concept + Vinyl

Education Environment

Education facilities of today strive to achieve both design and environmental excellence in their architecture and interiors. **ASP Access Floors** engage to understand the Architects and Designers vision for the building, the environmental objectives of the build, the head contractor's key considerations and service consultant's requirements for each project.

Access floor systems are recommended as a result of this research an often address key design elements such as acoustics, load requirements, adaptability and flexibility of space.



ENVIRONMENTAL

Green Star compliant / LEED compliant / High recycled content / Low VOC's / Low Carbon footprint.



MAINTENANCE

- Ease of access for regular maintenance.
- The access floor provides the building owner, manager and client the ability to clearly define service runs and access. This can help with power metering of areas within a floor space and could help manage power consumption.
- Ease of maintenance and serviceability with minimal disruption to the environments workflow.
- Reduced maintenance costs when using underfloor services as opposed to maintenance within ceiling voids.



ARCHITECTURAL CONSIDERATIONS

- The ability to incorporate underfloor air increases occupant comfort and in turn increases productivity in the education facility
- The ability to incorporate underfloor air allows for more efficient heating and cooling.
- Greater design freedom in ceiling materials specification
- when installing all primary services in the underfloor space. Advantageous in heritage buildings.
- Improved indoor air quality with the use of underfloor air
- Ability to construct tiered levels in lecture halls, allowing for underfloor services in these arease buildings.



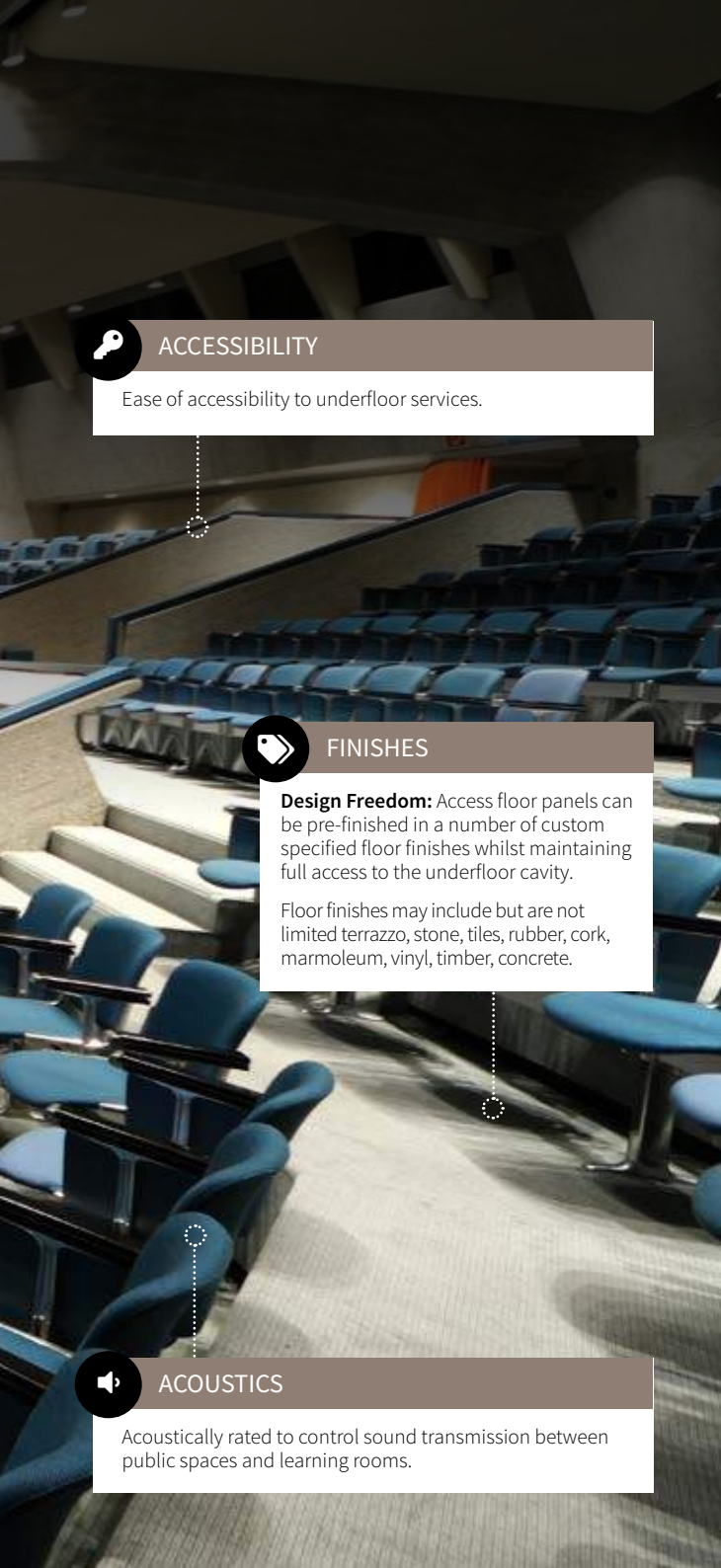
LOAD CAPACITY

Various load ratings, meeting requirements of static and live loads, across the access floor.



COST EFFICIENCY

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- When an Access Floor is designed into a new building from the start of the project, service reticulation in the building can be less expensive to install and less expensive to service over the life of the building.



ACCESSIBILITY

Ease of accessibility to underfloor services.



FINISHES

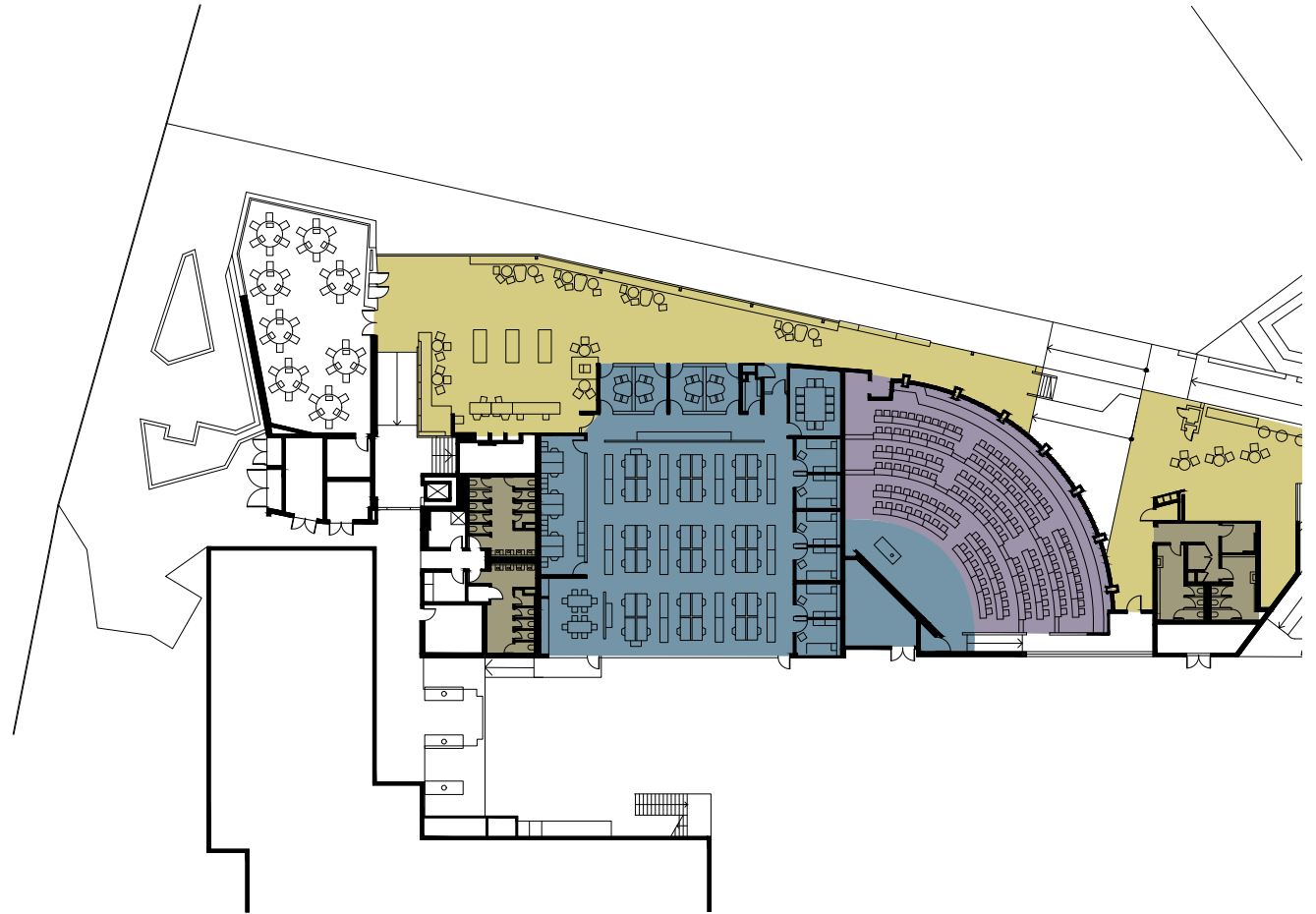
Design Freedom: Access floor panels can be pre-finished in a number of custom specified floor finishes whilst maintaining full access to the underfloor cavity.

Floor finishes may include but are not limited to terrazzo, stone, tiles, rubber, cork, marmoleum, vinyl, timber, concrete.



ACOUSTICS

Acoustically rated to control sound transmission between public spaces and learning rooms.



The access floor solution for each project is unique, varied and will most likely be multi-faceted. Please contact the ASP Access Floors sales team for assistance in tailoring your project's access floor solution.

Tel: 02 9620 9915 Email: sales@aspfloors.com.au



Entertainment Environment

The access floor solution for each entertainment venue, building or precinct is unique, varied and will most likely be multi-faceted. ASP Access Floors understands that great entertainment design creates spaces that are flexible, adaptable to change, but ultimately create an extraordinary experience for the people who visit.

Designing access floor systems for these venues that allow the designers an adaptable and flexible solution to support their vision is **ASP Access Floors** primary focus.



ENVIRONMENTAL

Green Star compliant / LEED compliant / High recycled content / Low VOC's / Low Carbon footprint.



MAINTENANCE

- Ease of access for regular maintenance.
- The access floor provides the building owner, manager and client the ability to clearly define service runs and access. This can help with power metering of areas within a floor space and could help manage power consumption.
- Ease of maintenance and serviceability with minimal disruption to the environments workflow.
- Reduced maintenance costs when using underfloor services as opposed to maintenance within ceiling voids.



ARCHITECTURAL CONSIDERATIONS

- The ability to incorporate underfloor air allows for more efficient heating and cooling.
- Greater design freedom in ceiling materials specification when installing all primary services in the underfloor space. Advantageous in heritage buildings.
- Improved indoor air quality with the use of underfloor air
- Ability to construct tiered levels in theatre and convention halls, allowing for underfloor services in these areas



ACCESSIBILITY

Ease of accessibility to underfloor services.



LOAD CAPACITY

- Various load ratings, meeting requirements of static and live loads, across the access floor.
- Heavy load capacity to cater for entertainment venue requirements E.g. Slot/Pokie
- Machines, Promotional display areas, Theatre/Staging arenas.
- Heavy Duty Access Floor system for stage and back of house areas able to support heavy equipment used in an entertainment environment.



FINISHES

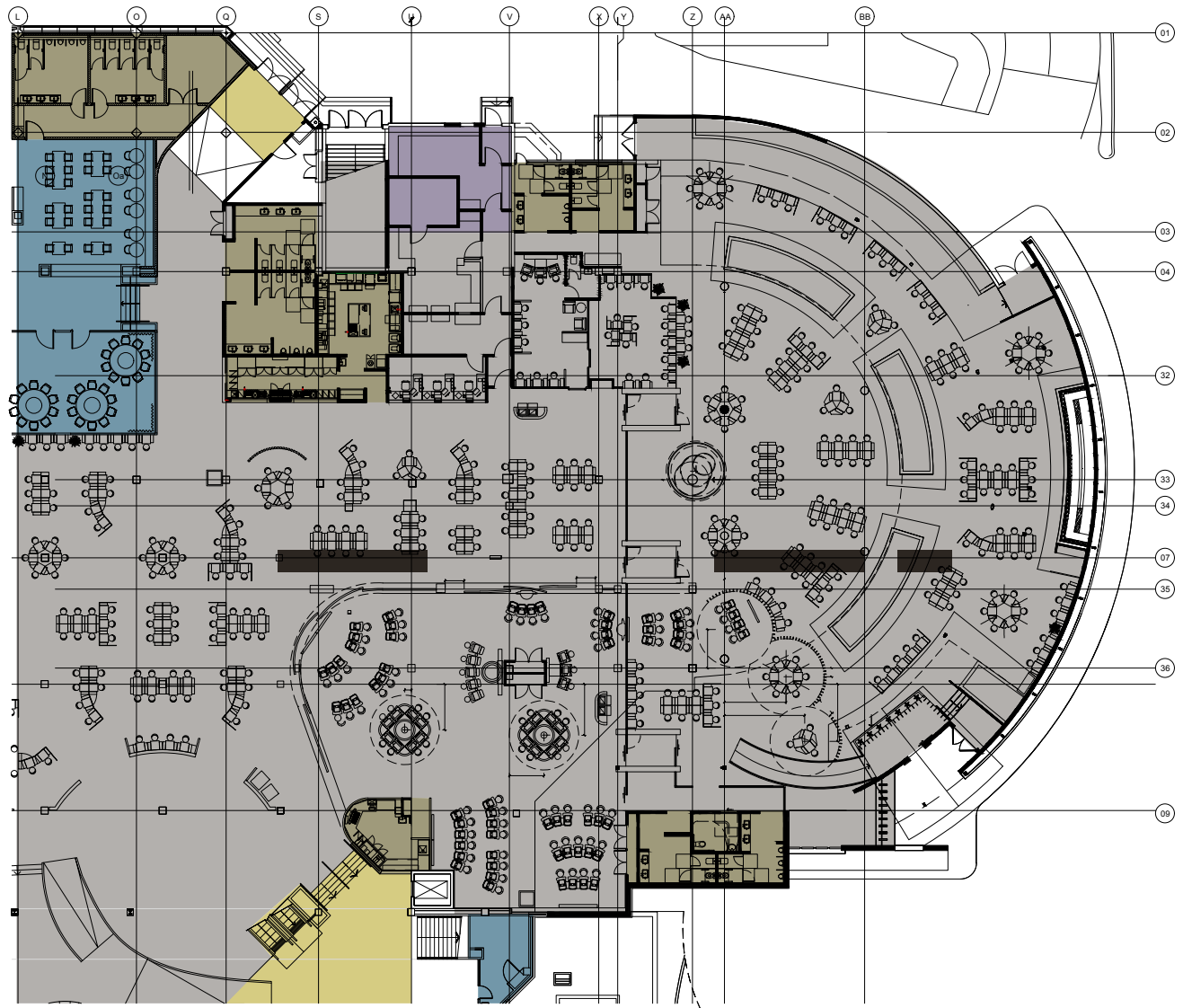
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COST EFFICIENCY

When an Access Floor is designed into a new building from the start of the project, service reticulation in the building can be less expensive to install and less expensive to service over the life of the building.



The access floor solution for each project is unique, varied and will most likely be multi-faceted. Please contact the ASP Access Floors sales team for assistance in tailoring your project's access floor solution.

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ACOUSTICS

Acoustically rated to control sound transmission between public and private spaces.

- URBAN INTERLOCK
- CONCEPT +
- CONCEPT + HPL
- ICON X MEDIUM GRADE
- ICON HD

Casino Environment

Casino design is an intricate process that involves optimising floor plan, décor and atmospherics to encourage consumer gambling. Hidden to the eye of the patron though, are the design elements implemented to cater to the high level security and high load requirements that the casino needs.

ASP Access Floors specifically designs for Casino environments with proprietary features able to sustain the high live load casino requirements.



MAINTENANCE

- Ease of access for regular maintenance.
- The access floor provides the building owner, manager and client the ability to clearly define service runs and access. This can help with power metering of areas within a floor space and could help manage power consumption.
- Ease of maintenance and serviceability with minimal disruption to the office workflow.
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ARCHITECTURAL CONSIDERATIONS

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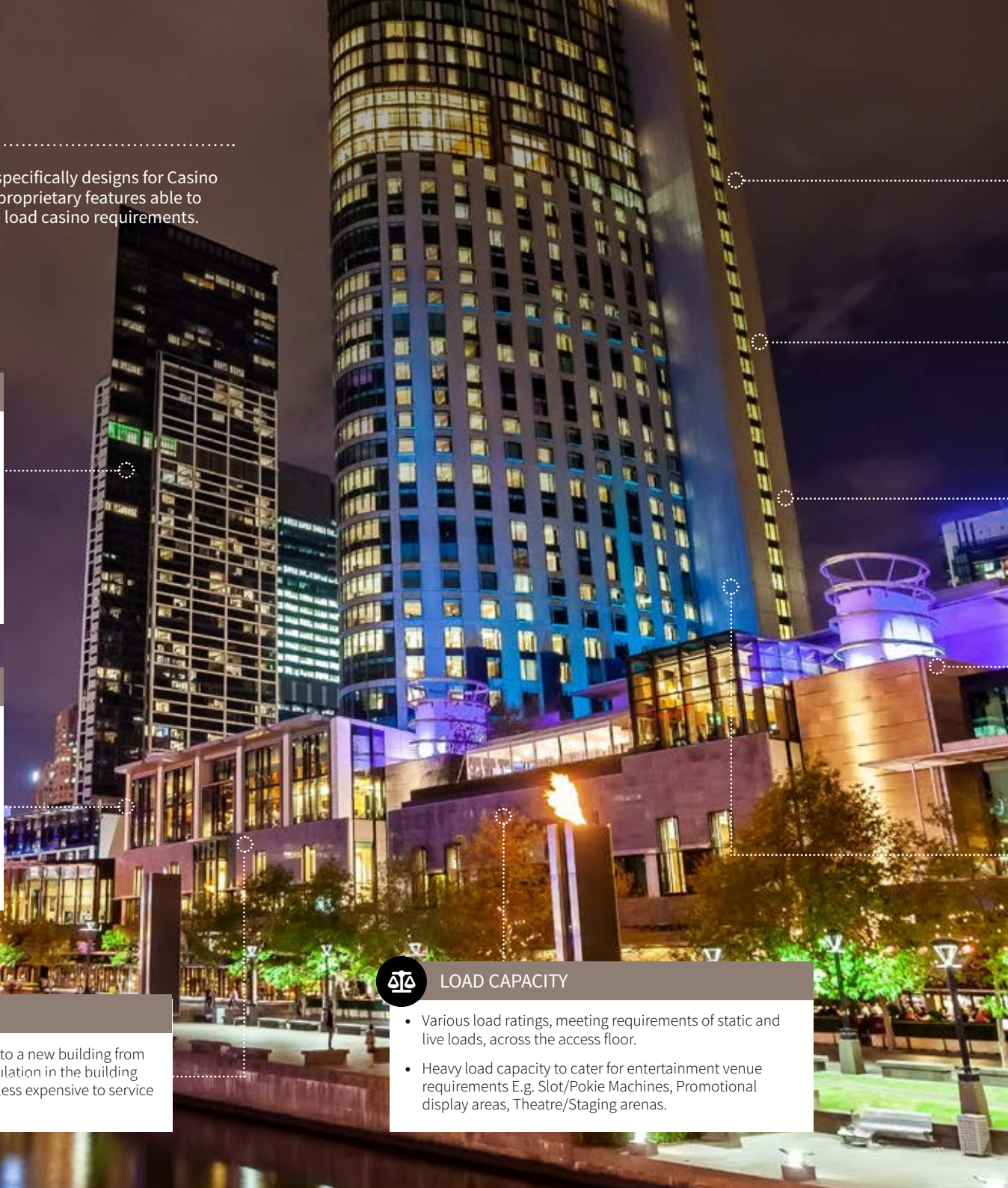
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LOAD CAPACITY

- Various load ratings, meeting requirements of static and live loads, across the access floor.
- Heavy load capacity to cater for entertainment venue requirements E.g. Slot/Pokie Machines, Promotional display areas, Theatre/Staging arenas.





ENVIRONMENTAL

Green Star compliant / LEED compliant / High recycled content / Low VOC's / Low Carbon footprint.



SAFETY & SECURITY

Ease of reconfiguration for the Casino's high security needs



ACCESSIBILITY

Ease of accessibility to underfloor services.



ACOUSTICS

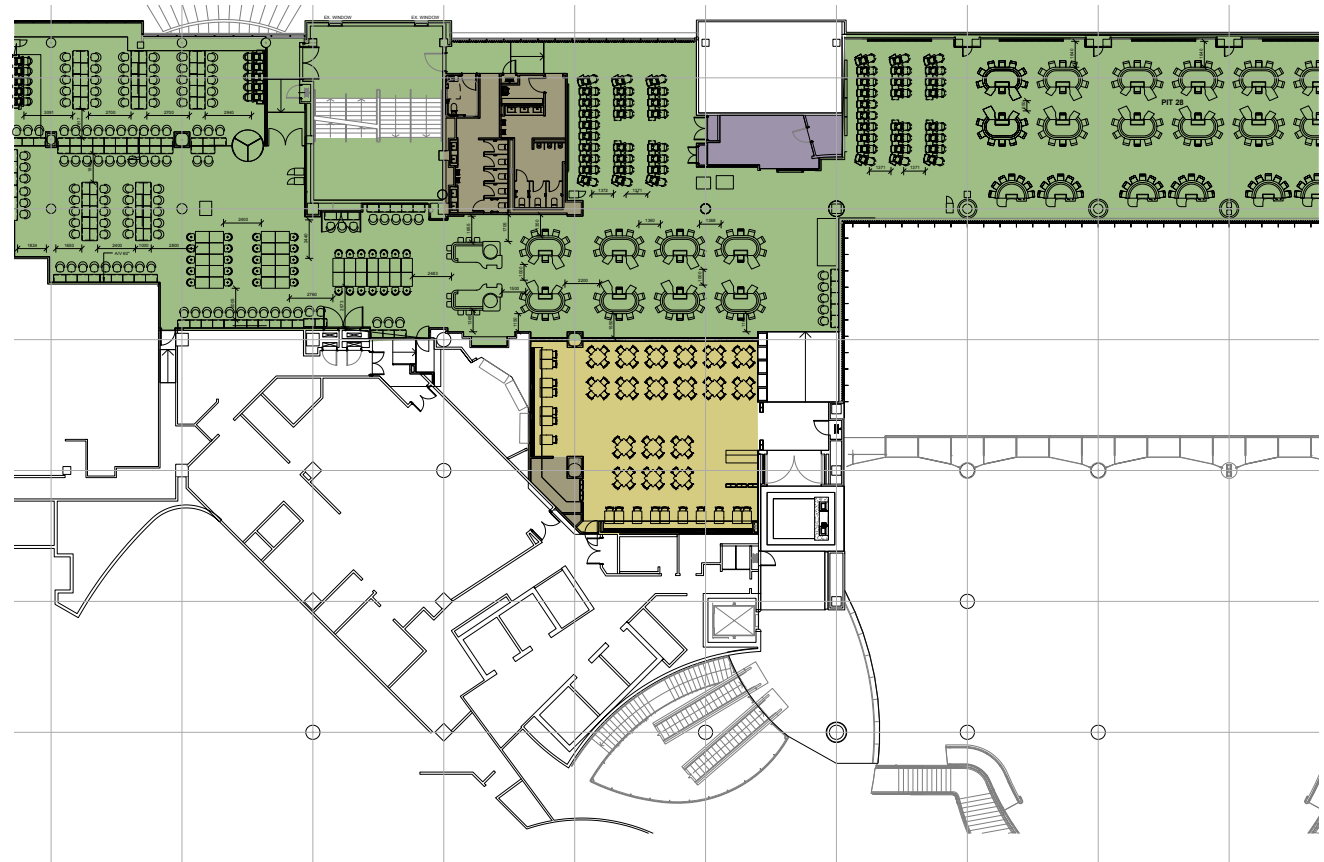
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FINISHES

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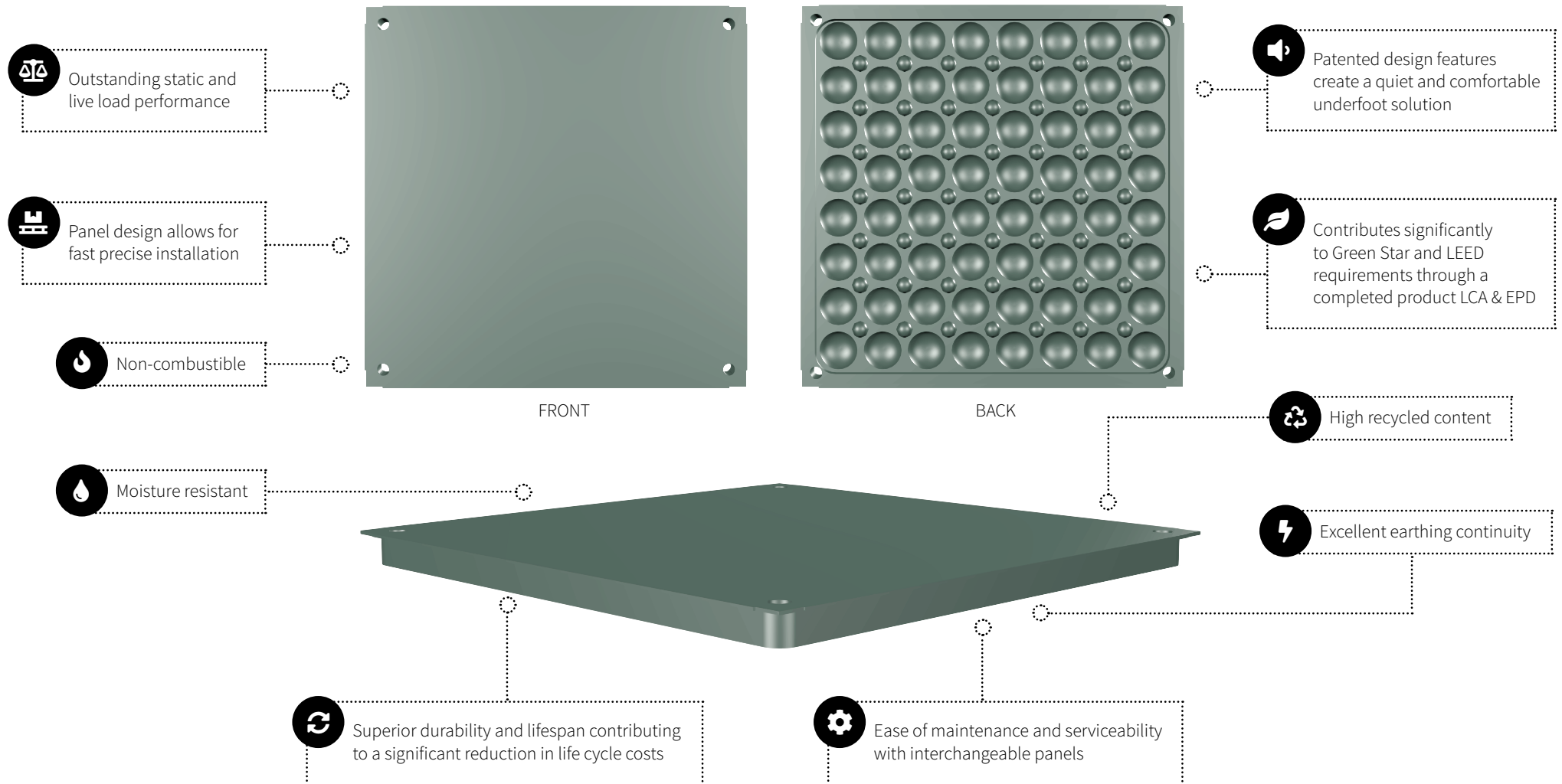


*ICON HD 9.0kN <3000mm ceiling height. *ICON HD 11.0kN >3001mm ceiling height.

Introducing the ASP Icon Panel

ABOUT THE PANEL

The Icon Panel is the principal component of ASP's signature Icon Series. The Icon Panels' patented design features have revolutionised the access floor industry.



THE PANEL CONSTRUCTION

SIZE 600mm x 600mm

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

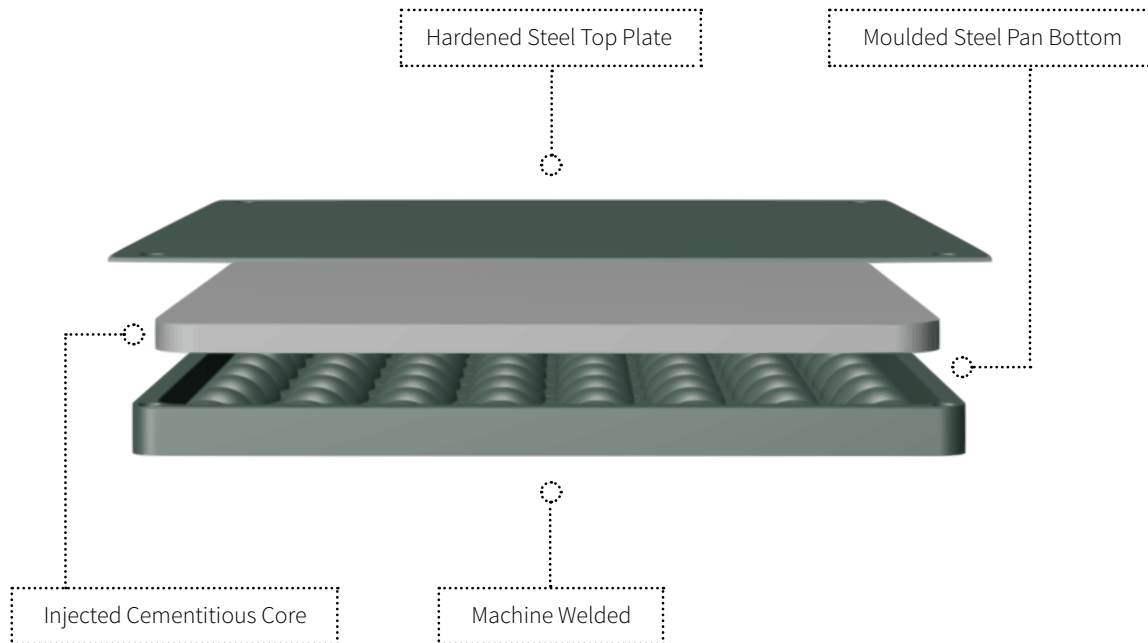
$\pm 0.25\text{mm}$ and a flatness tolerance of $\pm 0.5\text{mm}$ measured on a diagonal across the top of the panel

FINISH

ASP's standard powder coated finish.

CONNECTION

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







DESIGN FEATURES

In-built 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 panel to panel contact noise.

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.

Finishing Panels

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

Versatility

Panels are interchangeable with other panels.

LOAD TOLERANCES

Available load levels:

Able to go from medium up to super heavy industrial.

LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade

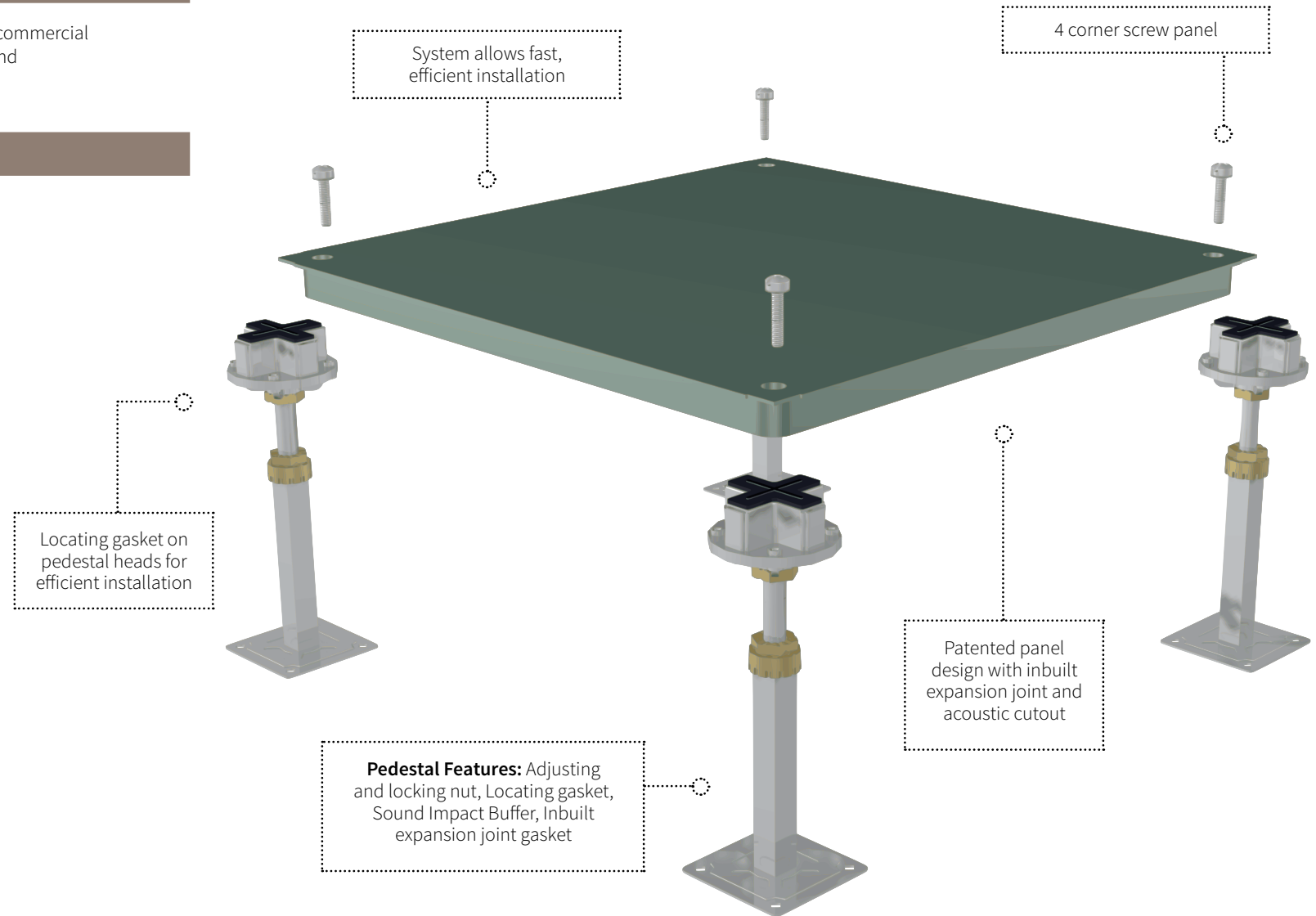
ICON X

ABOUT THE SYSTEM

Icon X is considered the classic system for commercial environments. It is widely used for power and data cable management.

APPLICATIONS

- Commercial Office Building
- Banks
- Learning Institutions
- Libraries



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade

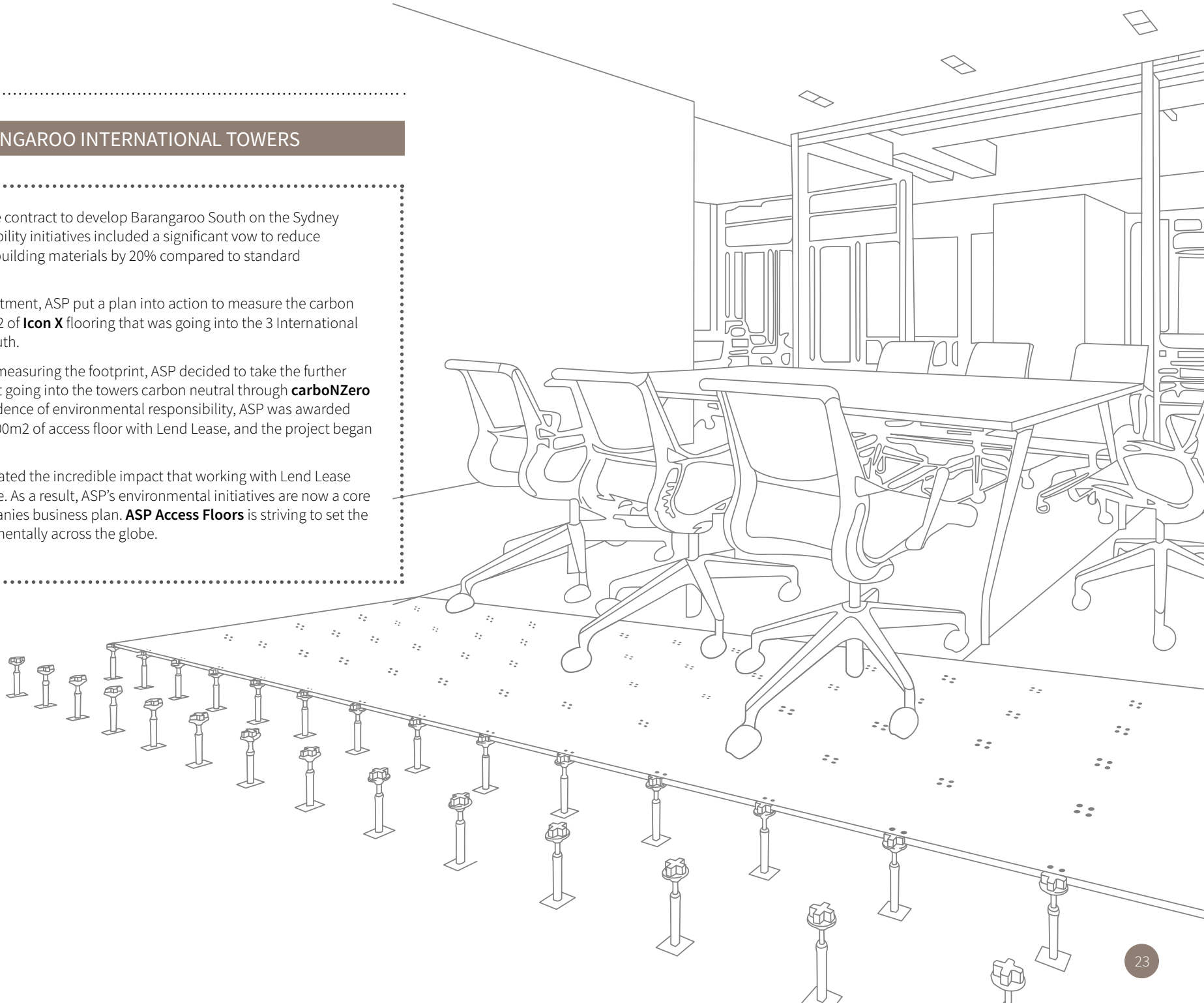
CASE STUDY – BARANGAROO INTERNATIONAL TOWERS

When Lend Lease won the contract to develop Barangaroo South on the Sydney waterfront, their sustainability initiatives included a significant vow to reduce the embodied carbon of building materials by 20% compared to standard construction practices.

In response to this commitment, ASP put a plan into action to measure the carbon footprint of the 300,000m² of **Icon X** flooring that was going into the 3 International Towers at Barangaroo South.

Not satisfied with simply measuring the footprint, ASP decided to take the further step of making all product going into the towers carbon neutral through **carboNZero** certification. With this evidence of environmental responsibility, ASP was awarded the contract for the 300,000m² of access floor with Lend Lease, and the project began in earnest.

ASP couldn't have anticipated the incredible impact that working with Lend Lease on this project would have. As a result, ASP's environmental initiatives are now a core driving focus in the company's business plan. **ASP Access Floors** is striving to set the market standard environmentally across the globe.



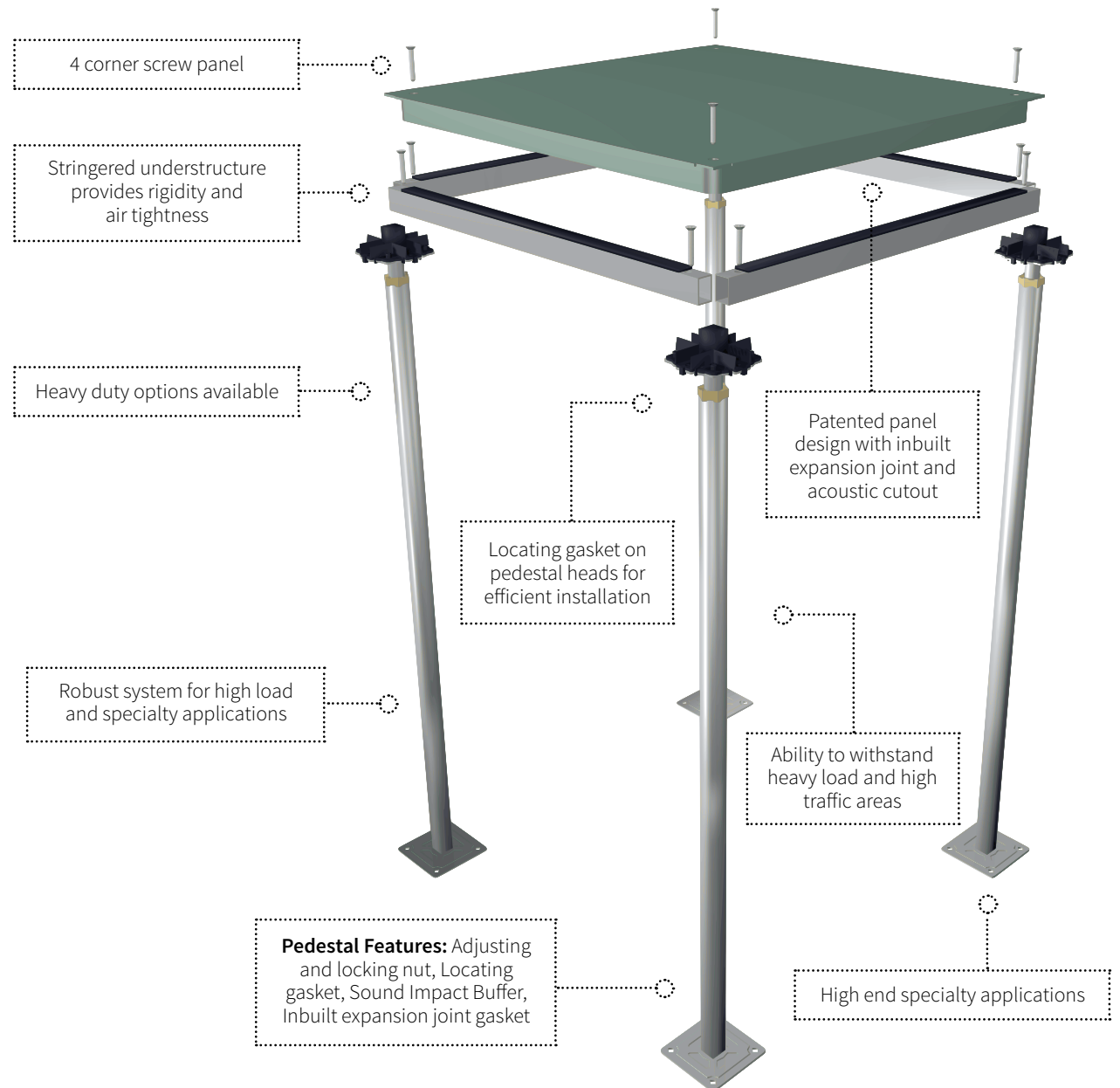
ICON Data

ABOUT THE SYSTEM

Icon Data utilizes stringers to create a robust rigid grid under structure. This system allows the use of access flooring in environments that have requirements for higher underfloor void spaces, heavier live loads and/or prefinished panels through integration with the Concept + Series.

APPLICATIONS

- Defence Projects
- Courtrooms
- Tiered seating environments
- Projects with higher void areas than 800mm high
- Data rooms incorporating the Icon + Series
- Cleanrooms incorporating the Icon + Series



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

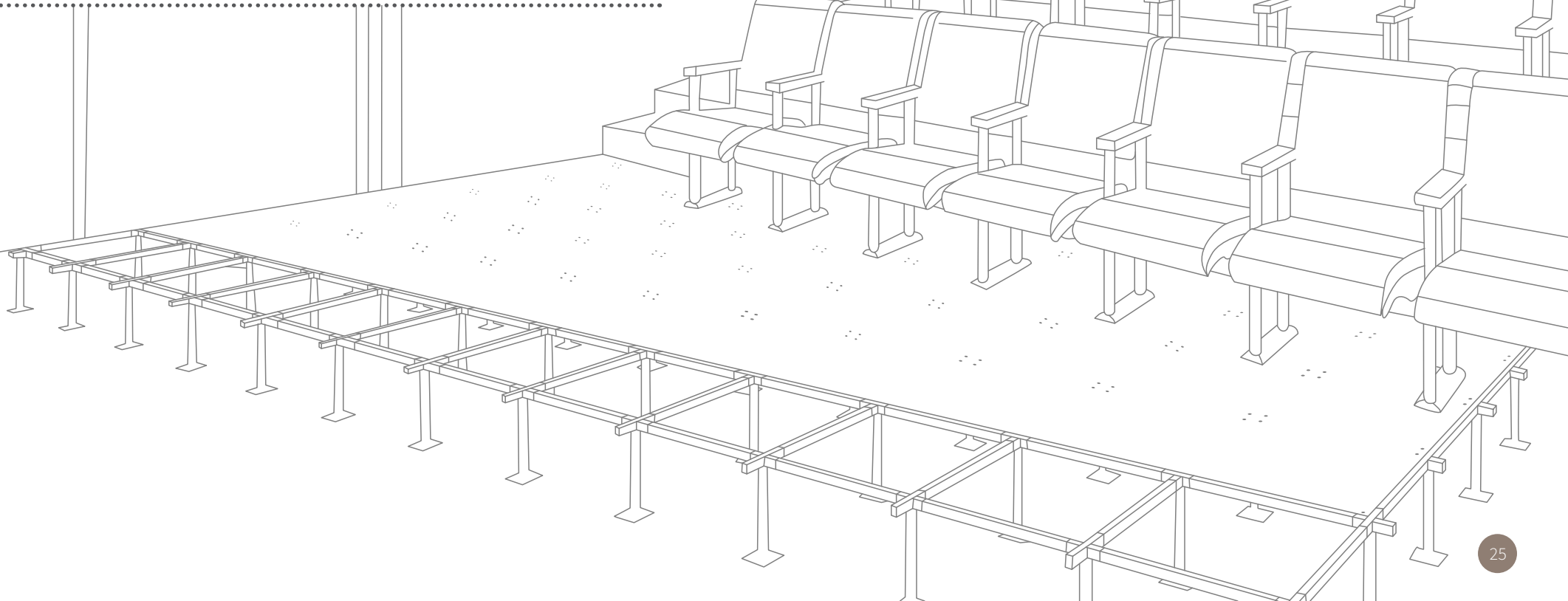
Super Heavy Industrial Grade

CASE STUDY – RAAF BASE WILLIAMTOWN

Security is one of the most important human needs and one of the main factors in Defence building design. Passive defence design focuses on reducing or eliminating the vulnerability, controlling the consequences of invasion and increasing the reparability in the case of an enemy's surprising attack.

Lend Lease completed a recent 1.5 billion dollar upgrade to the RAAF Base in Williamtown, which employed many passive defence design elements. This high security project included some security design elements that required integration with the access flooring system.

ASP Access Floor's Icon Data System provided the solution to regular lifting of the 10,000m² of access floor for security scans and sweeps. The rigid grid understructure allows panels to be lifted and replaced on a regular basis with ease, and creates no disruption to the grid layout.



ICON Air

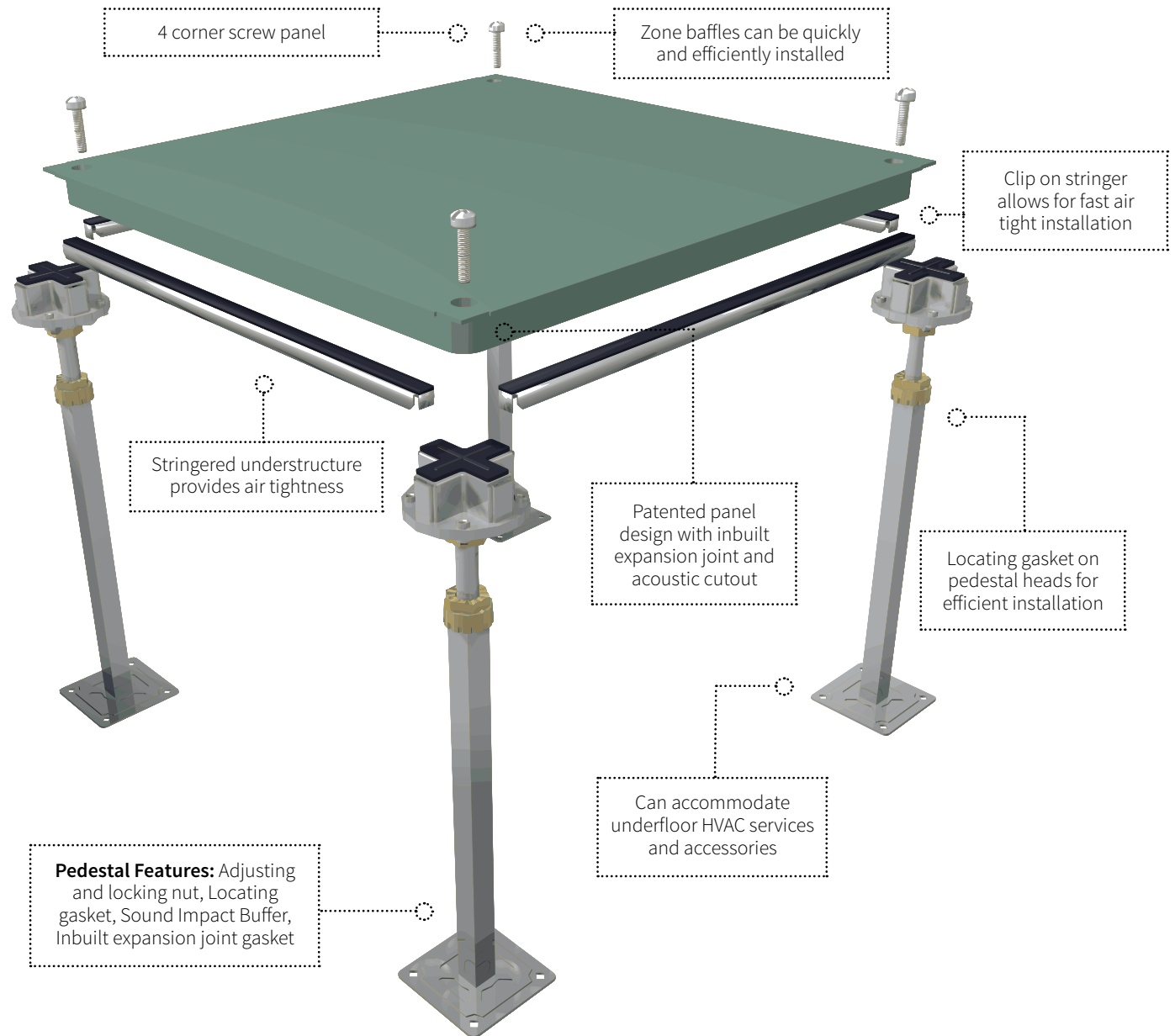
ABOUT THE SYSTEM

Icon Air is specifically designed for environments using an underfloor HVAC (heating, ventilation, and air conditioning) system.

This system incorporates the use of a clip on air tight stringer which creates a seal in between the panels to control and minimize air leakage. With the stringer seal, the underfloor cavity then converts into an air plenum.

APPLICATIONS

- Commercial Office Environments
- Banks
- Learning Institutions
- Libraries
- Casinos



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade

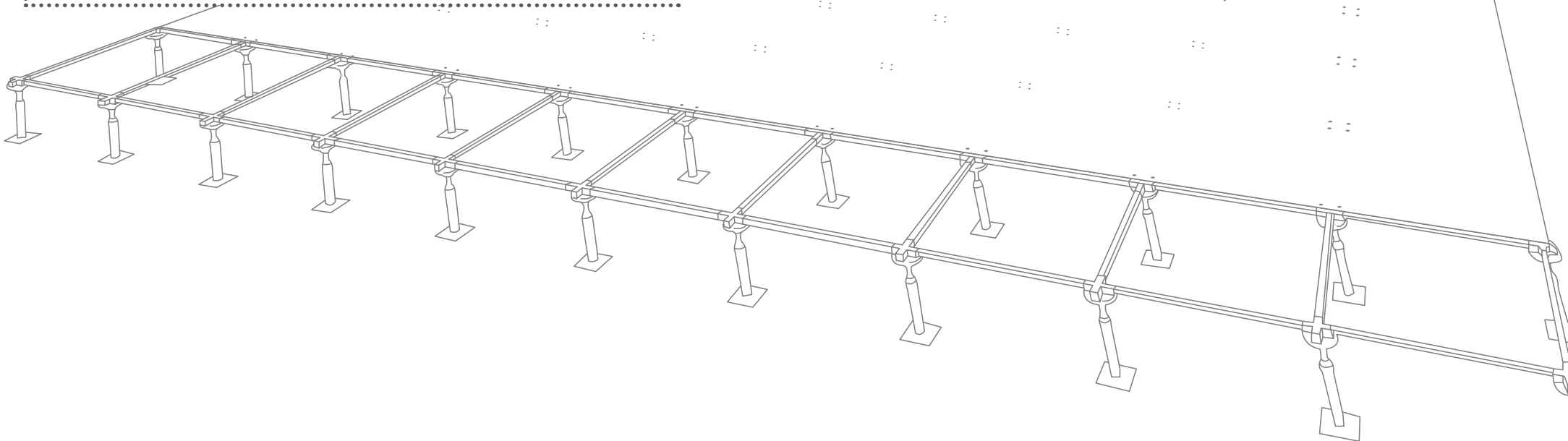
CASE STUDY – MEDIBANK

Medibank is one of Australia's largest health providers whose company's core value is to provide better health for everyone. This value drove the design of their head office, Medibank Place, where with Brookfield Multiplex they were able to create one of the healthiest workplaces in the world.

Being able to incorporate under floor air-conditioning in the design of the 46,000m² of access flooring was an important component of this Green Star project, as it amplifies occupant comfort whilst reducing the systems energy consumption.

The **ASP Access Floors Icon Air System** complete with its clip on air tight stringer and accessories, including baffling and bridging stringers, guaranteed that the flooring system achieved the required air leakage rates. ASP achieved independent testing and certification of the systems compliance with the BSRIA guide.

Working with Brookfield Multiplex and Medibank on this benchmark project, along with ASP's airtight patented products, research, development and extensive testing have made ASP the access floor specialists in air tight access floor applications.



ICON HD

ABOUT THE SYSTEM

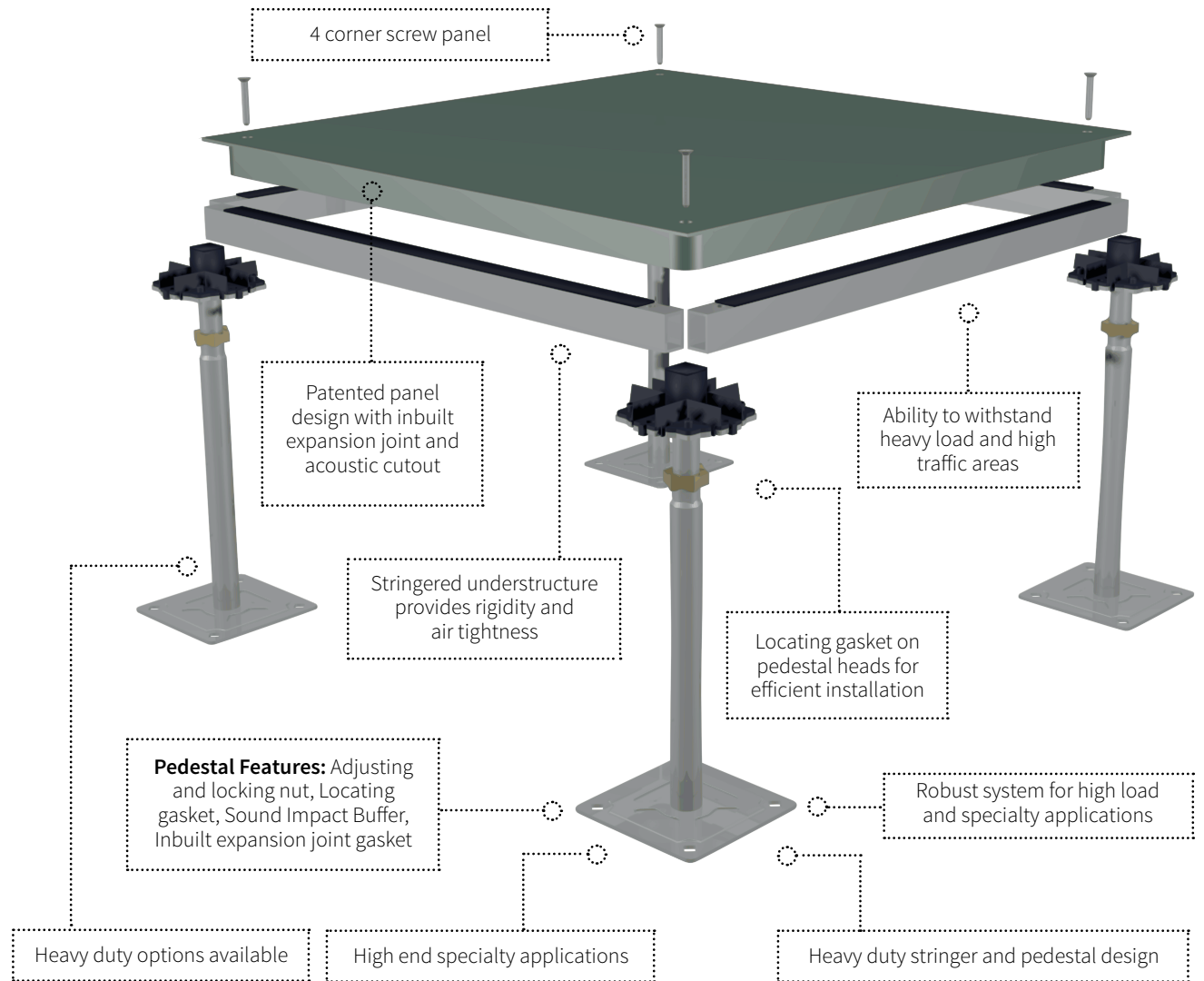
Icon HD offers an upgrade on Icon X, Icon Data and Icon Air for panel loads of 9kN, 11kN and 13kN.

This upgrade incorporates thicker steel than the standard systems which provide a longer lifespan and comes with an extended product warranty of 20 years.

Icon HD is suitable for environments that are subject to regular heavy live rolling loads.

APPLICATIONS

- Casinos
- Showrooms
- Areas of high rolling loads



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade

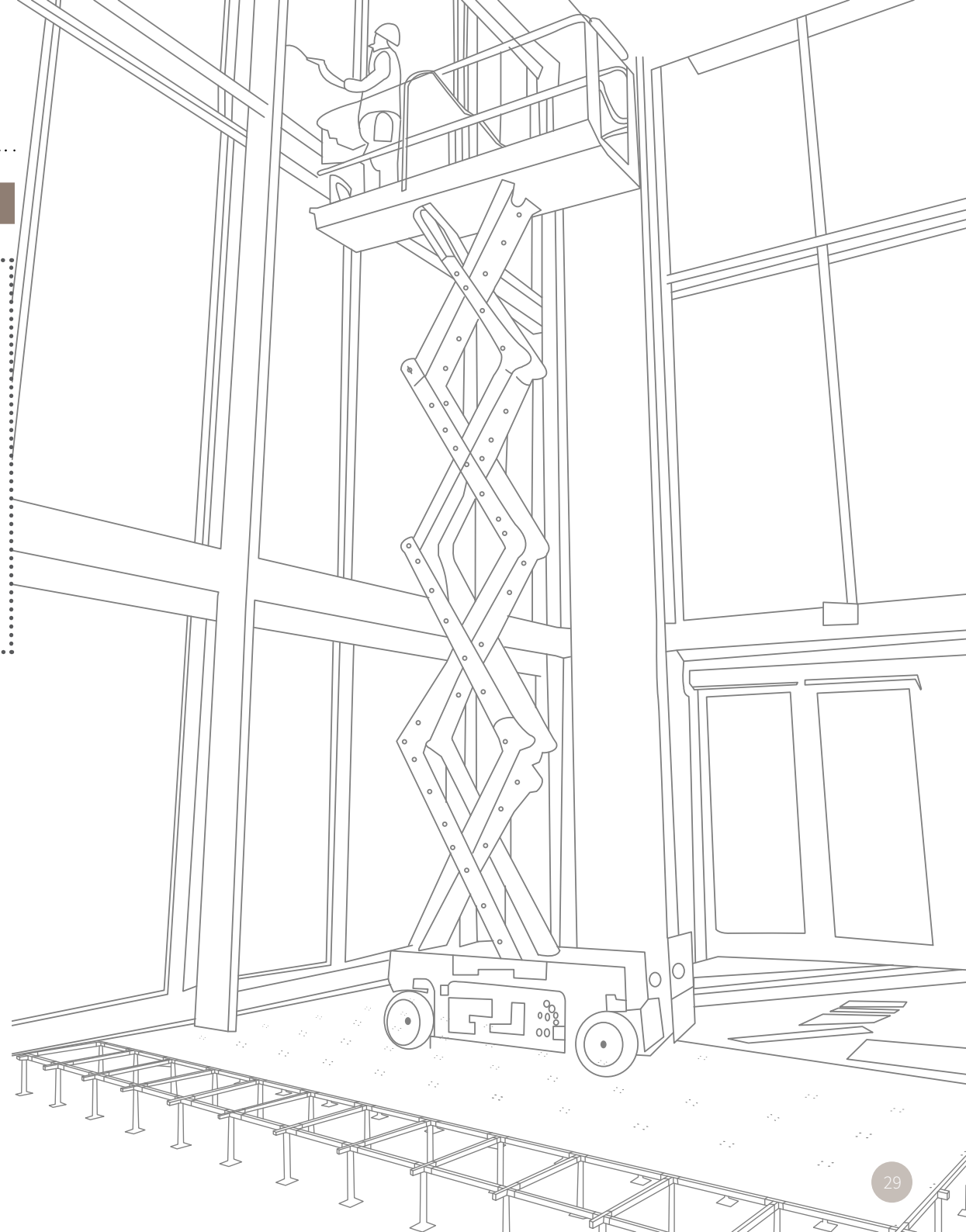
CASE STUDY – STAR CASINO

The Star Casino is the second largest casino in Australia, located on the famous Darling Harbour waterfront. Probuild recently completed for The Star Entertainment Group a large gaming floor expansion within Sydney's landmark casino.

Essentially, casino design is an intricate process that involves optimising floor plan, décor and atmospherics to encourage consumer gambling. Hidden to the eye of the patron though, are the design elements implemented to cater to the high level security and high load requirements that the casino needs.

ASP Access Floors supplied and installed their patented **Icon HD** casino grade system throughout the new extension. This system is specifically designed with proprietary features to sustain the high live load casino requirements.

The rigid grid understructure allows panels to be lifted, reconfigured and replaced on a regular basis with ease, and creates no disruption to the grid layout. This adaptability ensures the casino's high level security processes are able to be completed.



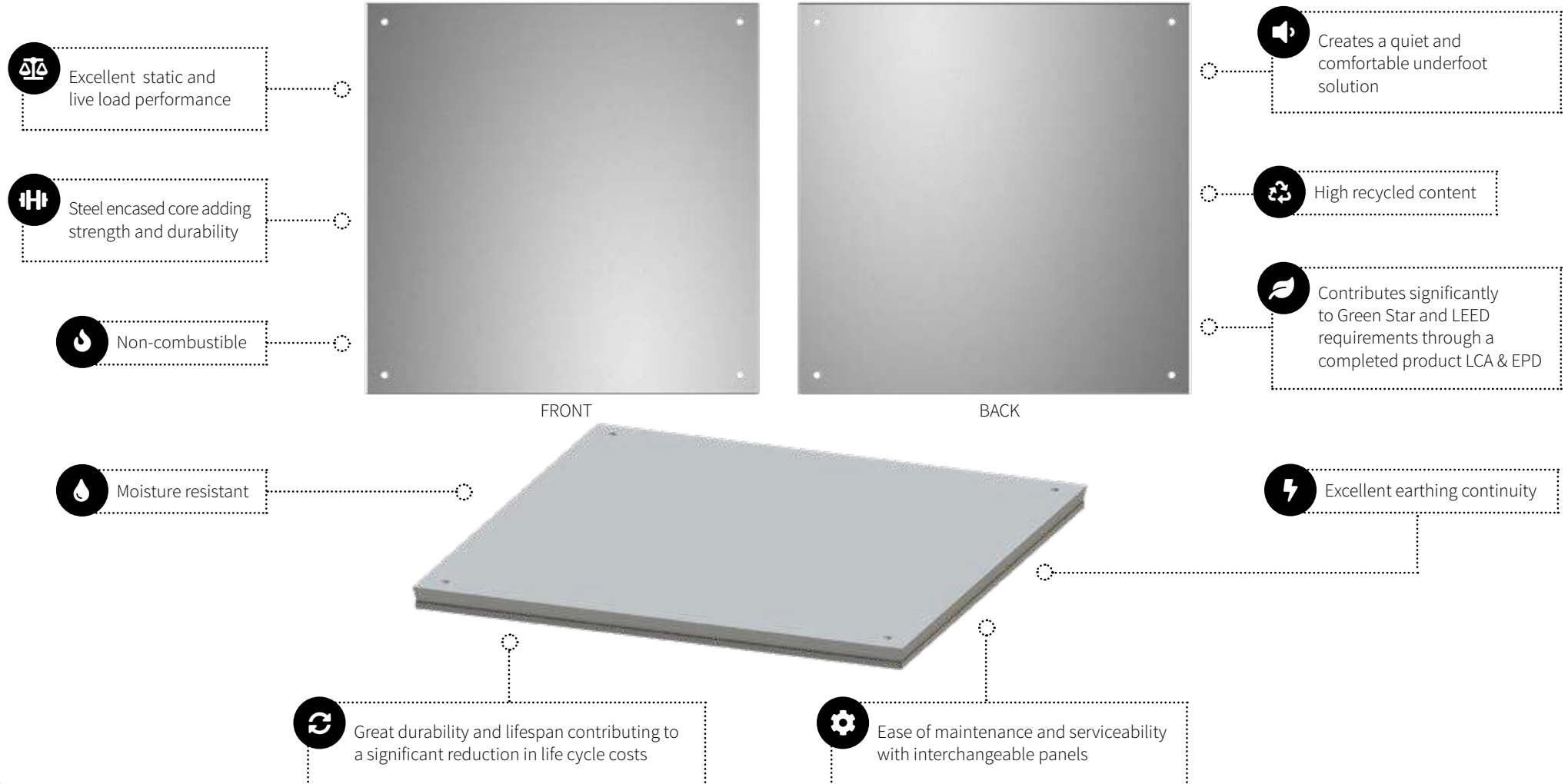
Introducing the ASP Urban Panel

ABOUT THE SERIES

The **Urban Series** allows for both functionality and design flexibility with its strength and composition.

URBAN PANEL

This steel wrapped **Urban Panel** is a composition panel with its main core ingredients of gypsum and fibre. The core is wrapped with galvanized steel, creating a strong durable panel suitable for commercial environments.



THE PANEL CONSTRUCTION

SIZE 600mm x 600mm

DEPTH

Medium Grade 25.3mm Heavy 30.6mm

Extra Heavy Grade 30.8mm Industrial Grade 31.2mm

CONSTRUCTION

The panel is constructed from a lower sheet of die formed steel with corrosion resistant protection, inside and out, encapsulating a calcium sulphate core. A top sheet of steel is then positioned and the edges are folded and pressed to overlap the lower case

CORE Calcium Sulphate

TOLERANCE

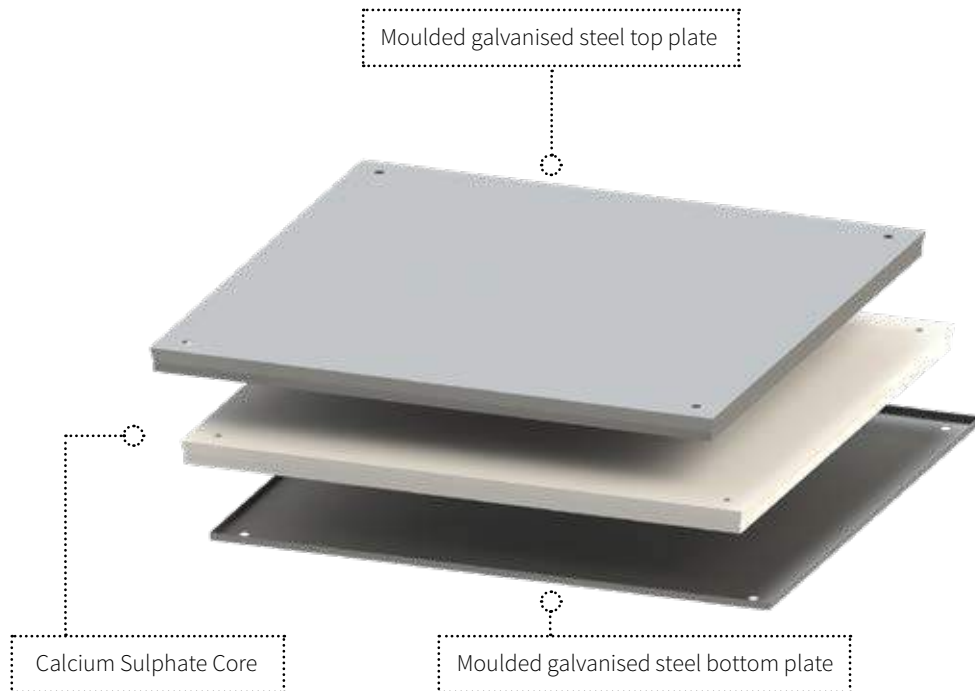
$\pm 0.25\text{mm}$ and a flatness tolerance of $\pm 0.5\text{mm}$ measured on a diagonal across the top of the panel

FINISH

Galvanised Steel

CONNECTION

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



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade



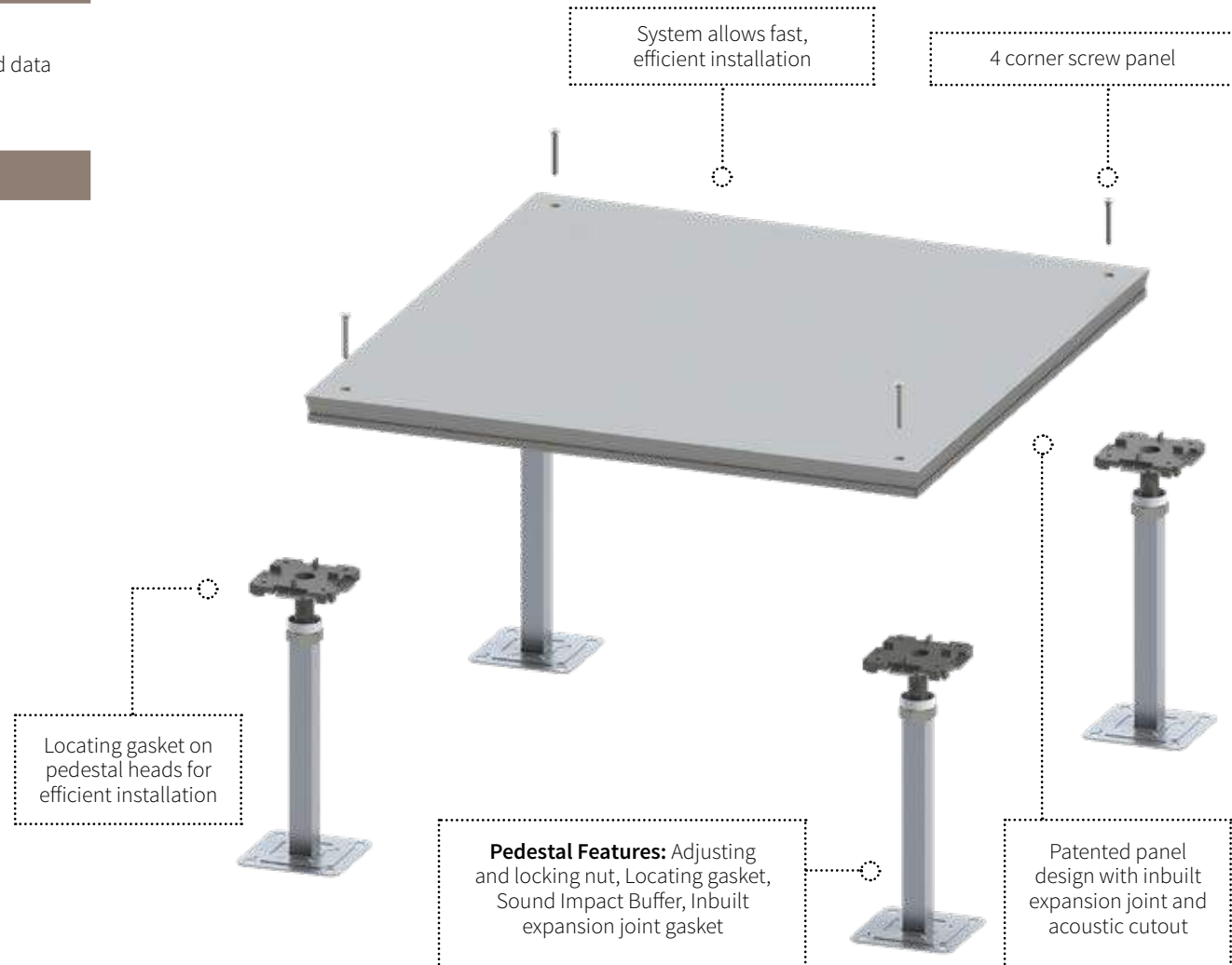
Urban X

ABOUT THE SYSTEM

The **Urban X System** is an alternate system to Icon X for commercial environments. It is widely used for power and data cable management.

APPLICATIONS

- Commercial Office Building
- Banks
- Learning Institutions
- Libraries

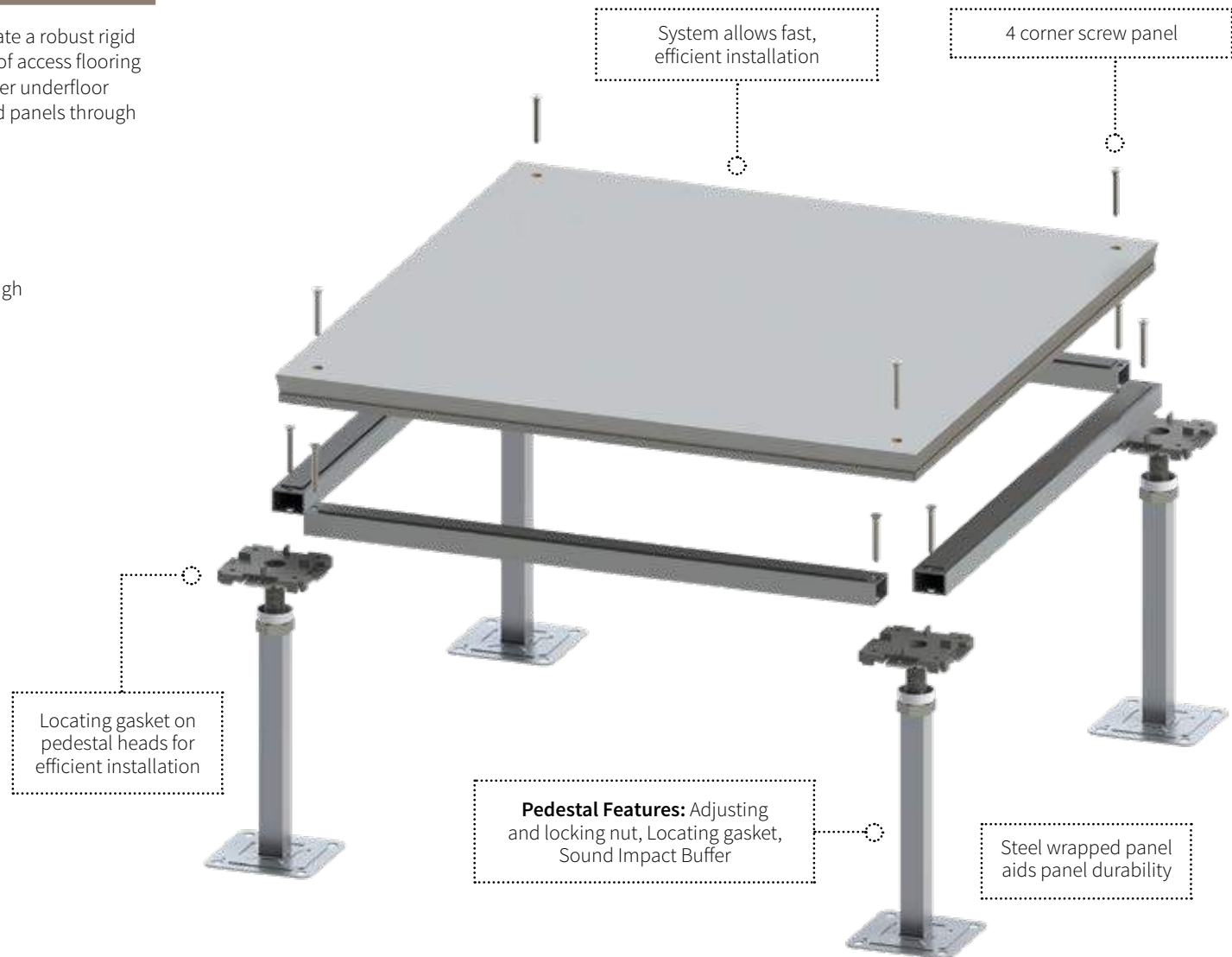


Urban Data

ABOUT THE SYSTEM

The Urban Data System utilizes stringers to create a robust rigid grid under structure. This system allows the use of access flooring in environments that have requirements for higher underfloor void spaces, heavier live loads and/or prefinished panels through integration with the Concept + Series.

- Defence Projects
- Courtrooms
- Tiered seating environments
- Projects with higher void areas than 800mm high
- Data rooms incorporating the Icon + Series
- Cleanrooms incorporating the Icon + Series

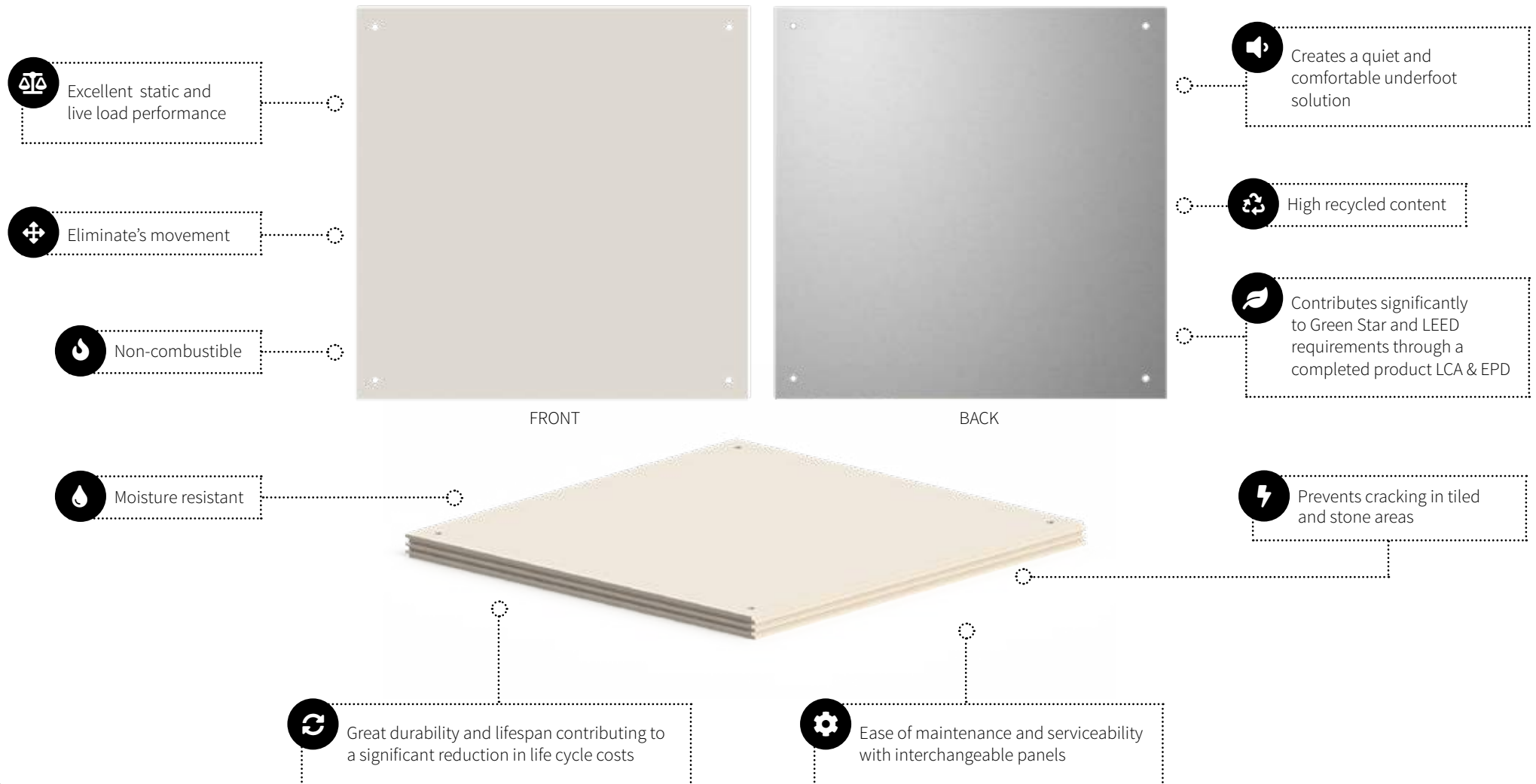


Introducing the ASP Urban Interlock Panel

URBAN INTERLOCK PANEL

The **Urban Interlock Panel** is a composition panel with its main core ingredients of gypsum and fibre. A galvanized steel base plate is adhered to the core, creating a strong durable panel suitable for various environments.

The **Urban Interlock Panel** 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.



THE PANEL CONSTRUCTION

SIZE 600mm x 600mm

DEPTH

Extra Heavy Grade 30.4mm

Industrial Grade 30.8mm

Heavy Industrial Grade 38.4mm

Super Heavy Industrial 38.8mm

CONSTRUCTION

The panel consists of a bare calcium sulphate surface and a bottom galvanized steel reinforcing plate. The panel edges feature an interlocking profile.

CORE 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

FINISH

Bare Calcium Sulphate

CONNECTION

The panel interlocks to the adjacent panels and can be screw fixed to the pedestal head at all four corners

Urban Interlock Profile View



Interlocking Edge Profile Detail



LOAD TOLERANCES

Medium Grade

Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade



Urban Interlock

ABOUT THE SYSTEM

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.

THE SCIENCE BEHIND THE SYSTEM

The **ASP Urban Interlock System** has been scientifically designed to disseminate load transference through the system to ensure there are zero stress rises and zero deflection within the system.

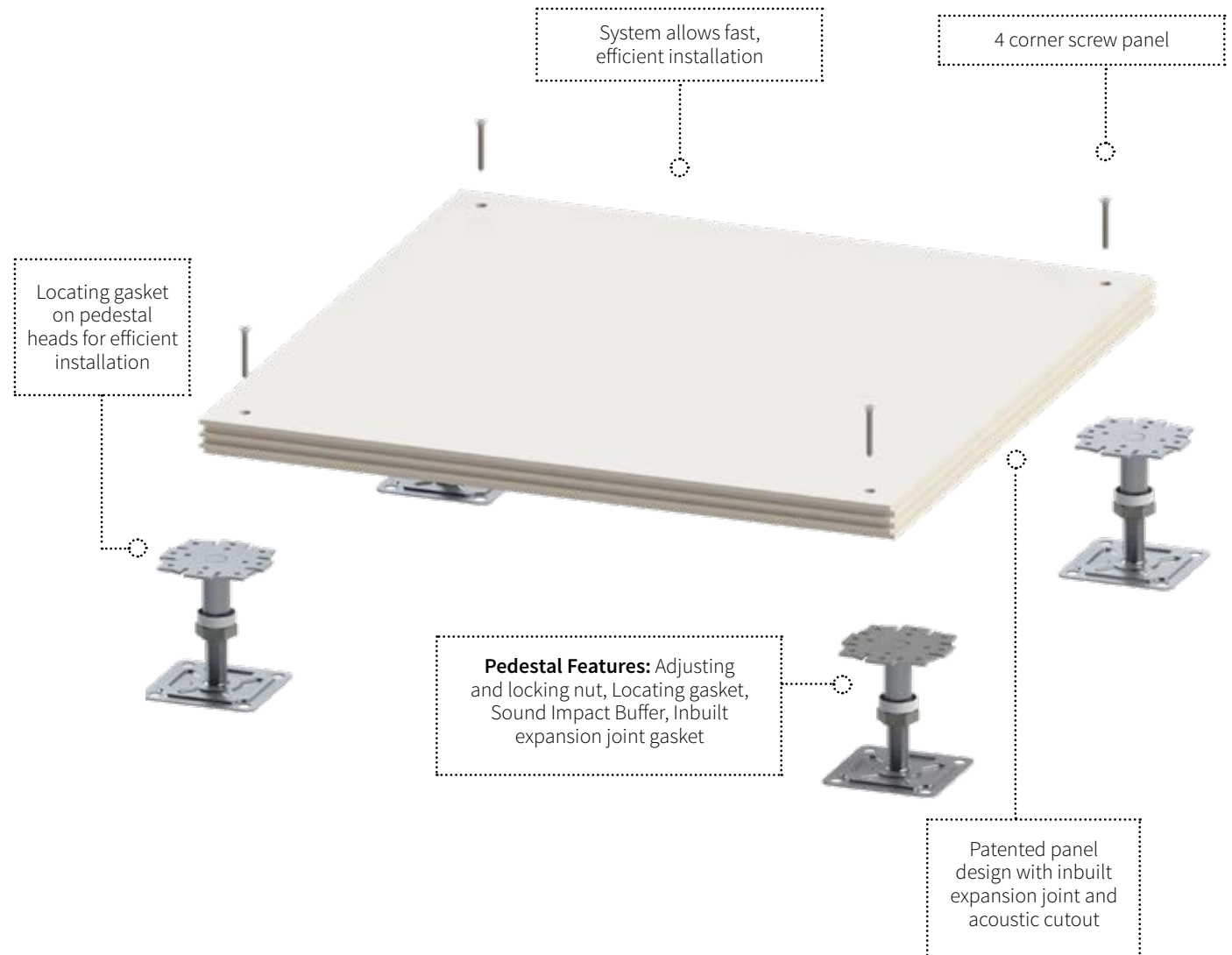
Deflection and stress rises were a great problem for access floors in the 1970's, 80's and 90's due to the basic design and lack of understanding of building movement and design.

ASP has designed a proprietary interlock system that is able to take great loads both static and dynamic. This has provided the perfect solution imitating a secondary slab effect that ensures tiles and stone finishes do not crack.

The Interlock system provides an interlocked design, which ensures no movement and so eliminates the need for substrates. This elimination of substrates means the Interlock is a cost and time efficient design solution.

APPLICATIONS

- Stone and tiled areas
- Lift Lobbies
- Amenities
- Foyers
- Breakout spaces

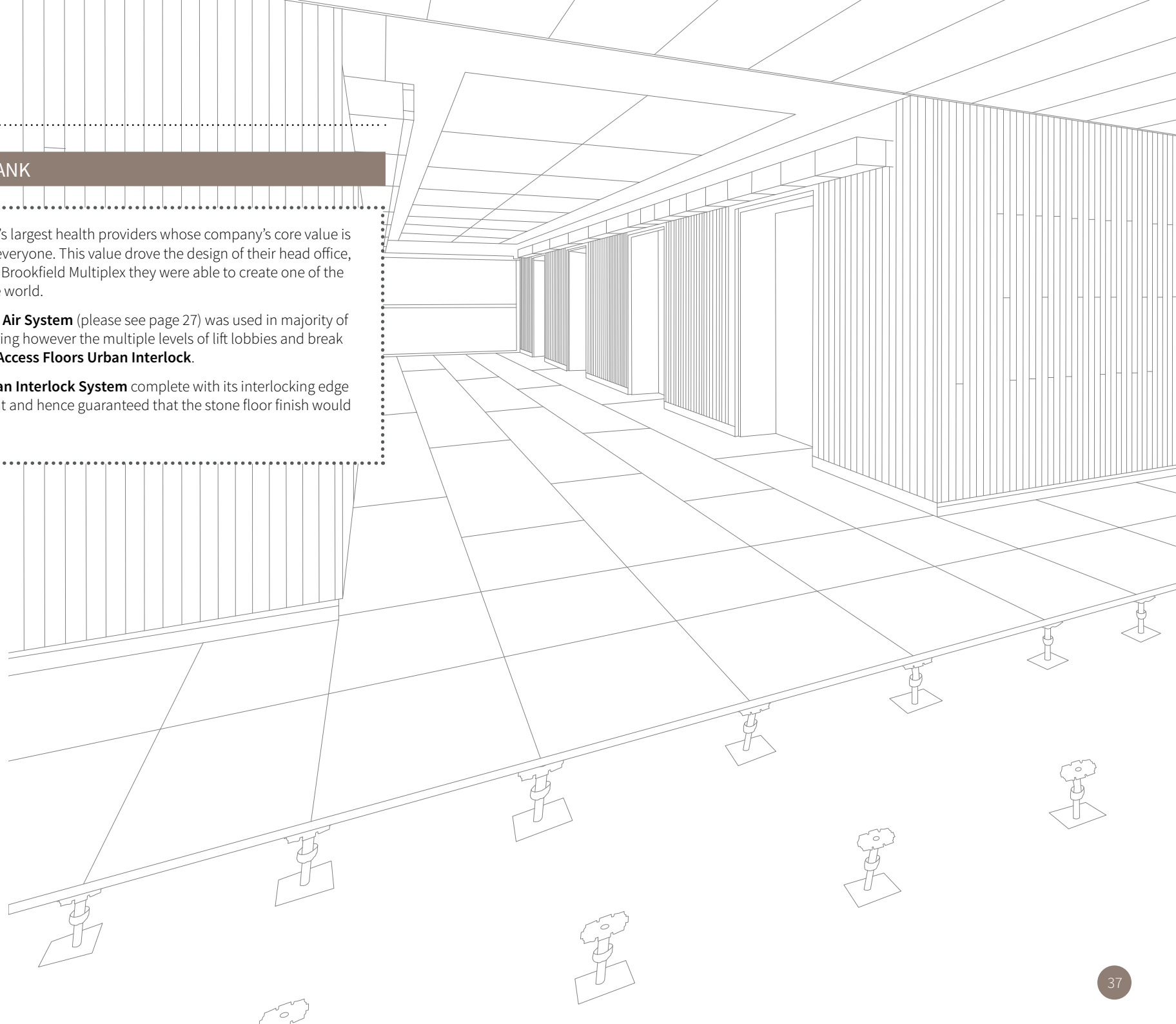


CASE STUDY – MEDIBANK

Medibank is one of Australia's largest health providers whose company's core value is to provide better health for everyone. This value drove the design of their head office, Medibank Place, where with Brookfield Multiplex they were able to create one of the healthiest workplaces in the world.

The **ASP Access Floors Icon Air System** (please see page 27) was used in majority of the 46,000m² of access flooring however the multiple levels of lift lobbies and break out spaces utilised the **ASP Access Floors Urban Interlock**.

The **ASP Access Floors Urban Interlock System** complete with its interlocking edge profile eliminated movement and hence guaranteed that the stone floor finish would not crack.



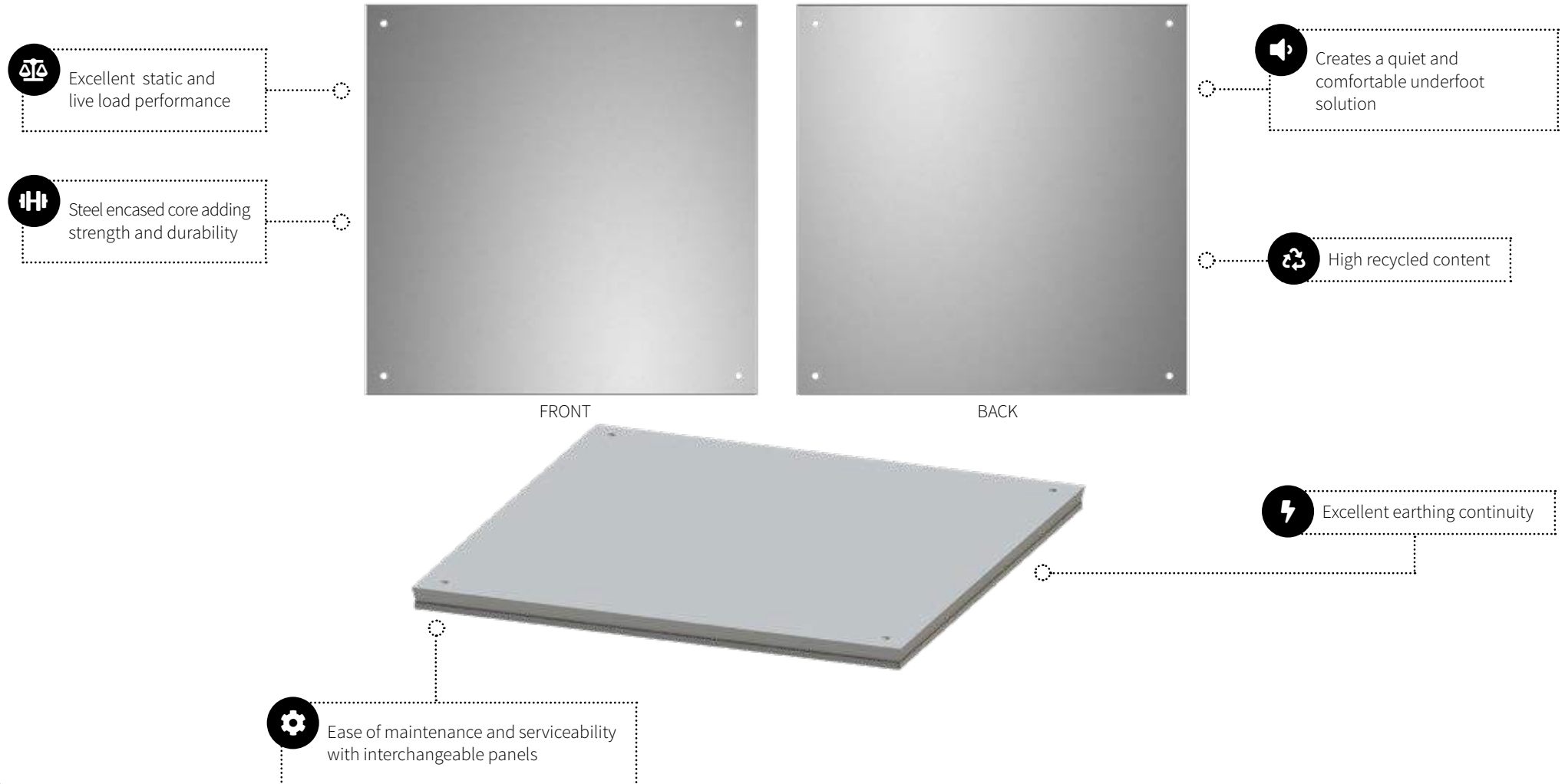
Introducing the ASP Origin Panel

ABOUT THE SERIES

The **Origin Series** was the first access floor system developed in history. The system, with its wood core, has evolved over time to now be a robust panel which allows a functional and efficient access floor solution.

ORIGIN PANEL

This steel wrapped **Origin Panel** is a composition panel with a composition particleboard core. The core is wrapped with galvanized steel, creating a strong durable panel suitable for commercial environments.



THE PANEL CONSTRUCTION

SIZE 600mm x 600mm

DEPTH

Medium Grade 30.6mm

Heavy 30.8mm

Extra Heavy Grade 31.2mm

CONSTRUCTION

The panel is constructed from a lower sheet of die formed steel with corrosion resistant protection, inside and out, encapsulating a composition wood core. A top sheet of steel is then positioned and the edges are folded and pressed to overlap the lower case

CORE High Density Particleboard

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

FINISH

Galvanised Steel

CONNECTION

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

Moulded galvanised steel top plate



Wood Core

Moulded galvanised steel bottom plate

LOAD TOLERANCES

Medium Grade

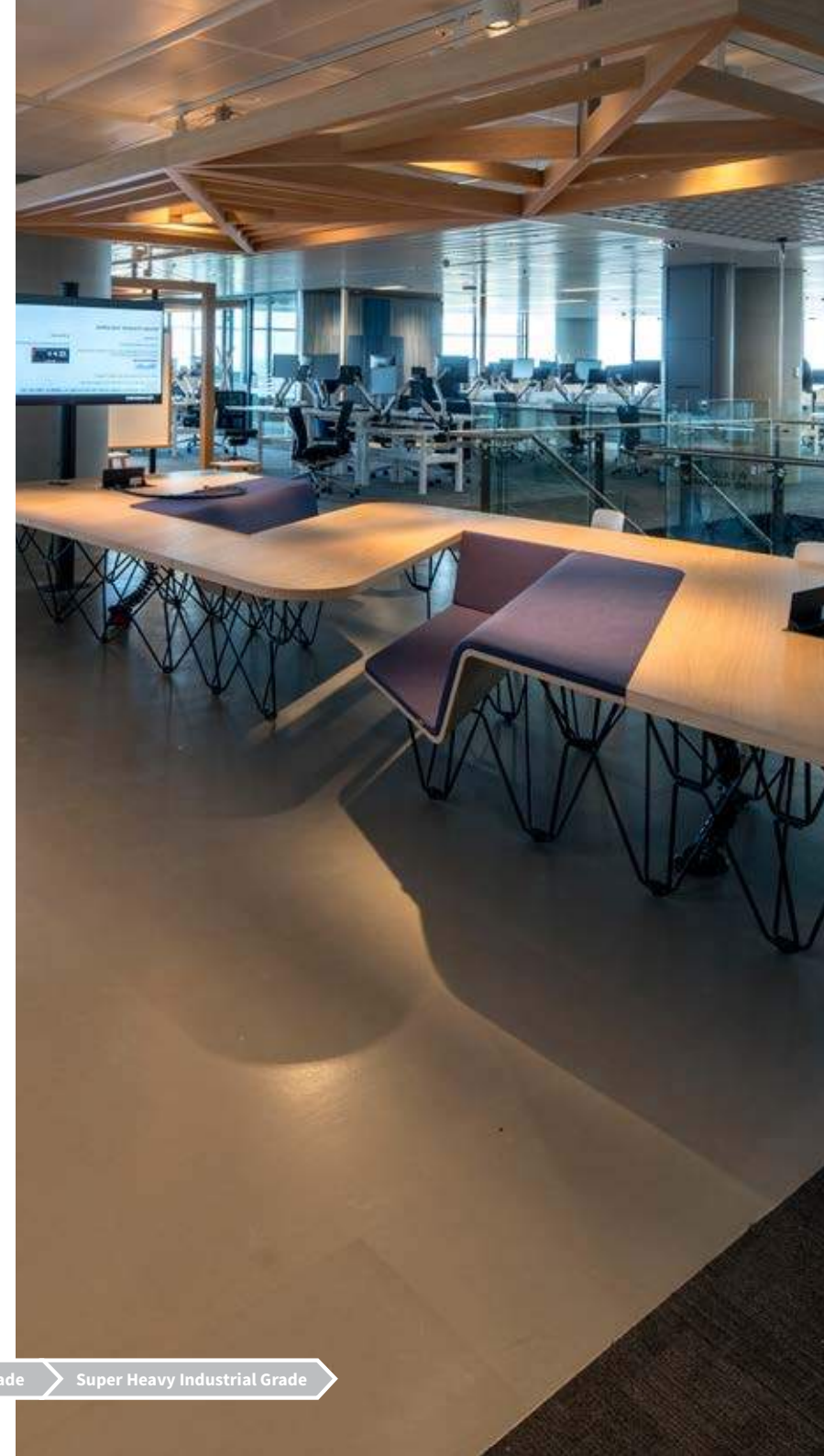
Heavy Grade

Extra Heavy Grade

Industrial Grade

Heavy Industrial Grade

Super Heavy Industrial Grade



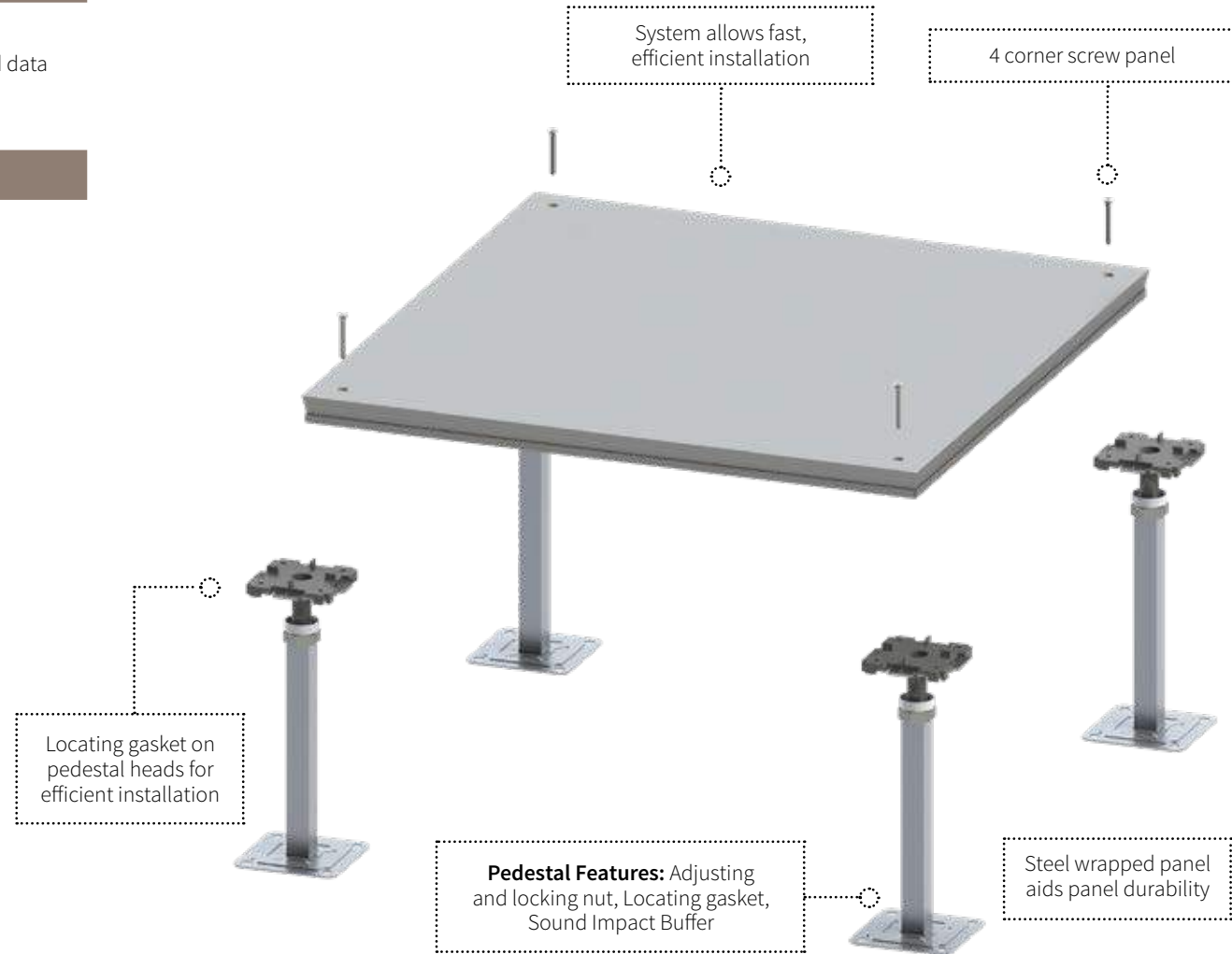
Origin X

ABOUT THE SYSTEM

The **Origin X System** is an alternate system to Icon X for commercial environments. It is widely used for power and data cable management.

APPLICATIONS

- Commercial Office Building
- Banks
- Learning Institutions
- Libraries



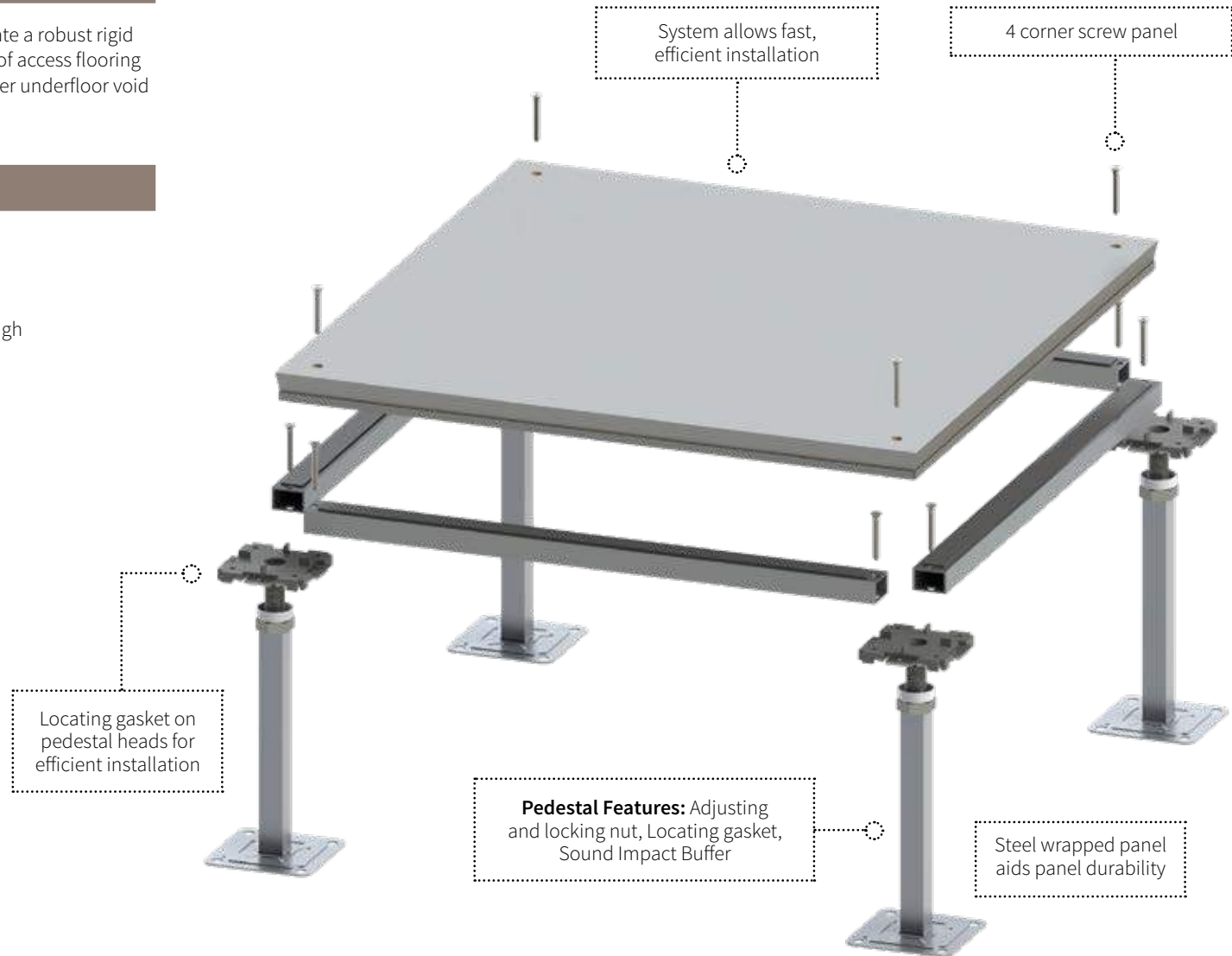
Origin Data

ABOUT THE SYSTEM

The **Origin Data System** utilizes stringers to create a robust rigid grid under structure. This system allows the use of access flooring in environments that have requirements for higher underfloor void spaces over 800mm or heavier live loads.

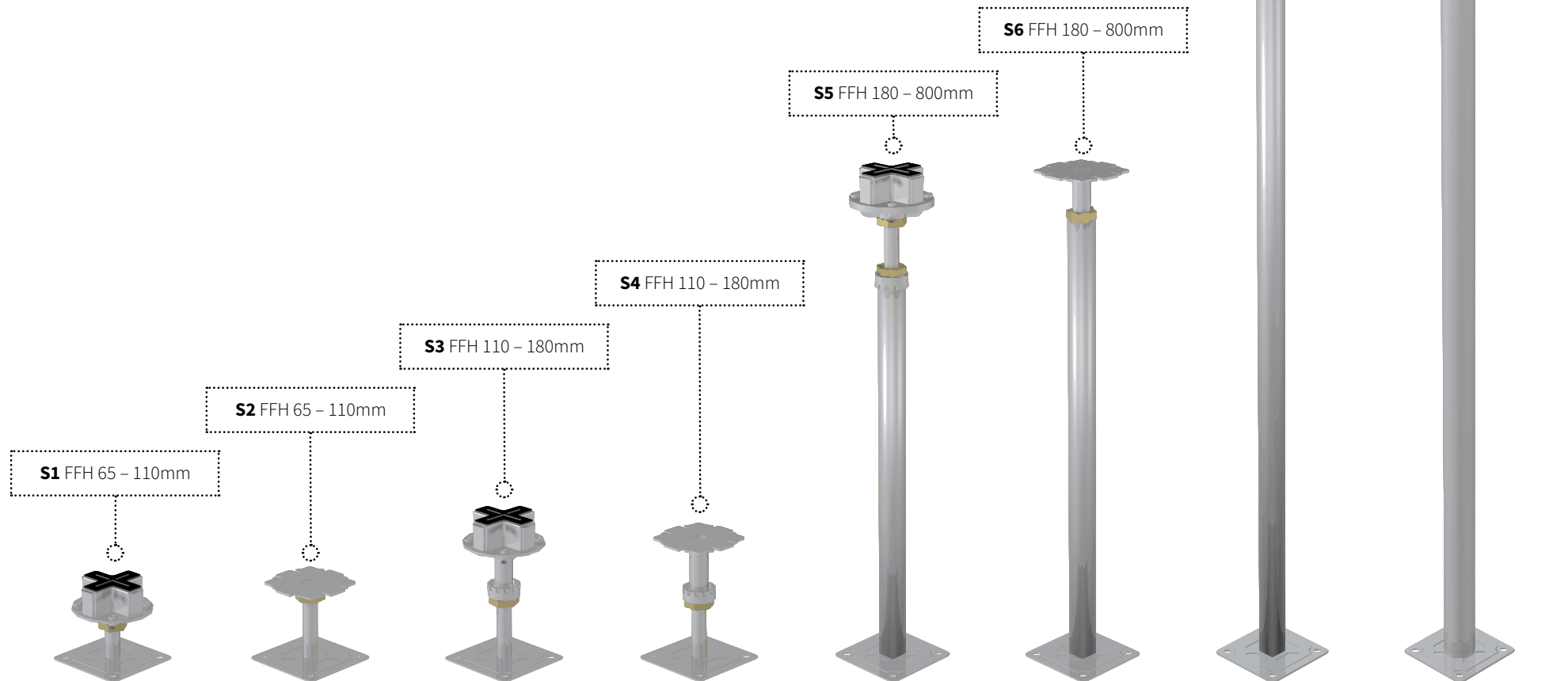
APPLICATIONS

- Defence Projects
- Courtrooms
- Tiered seating environments
- Projects with higher void areas than 800mm high



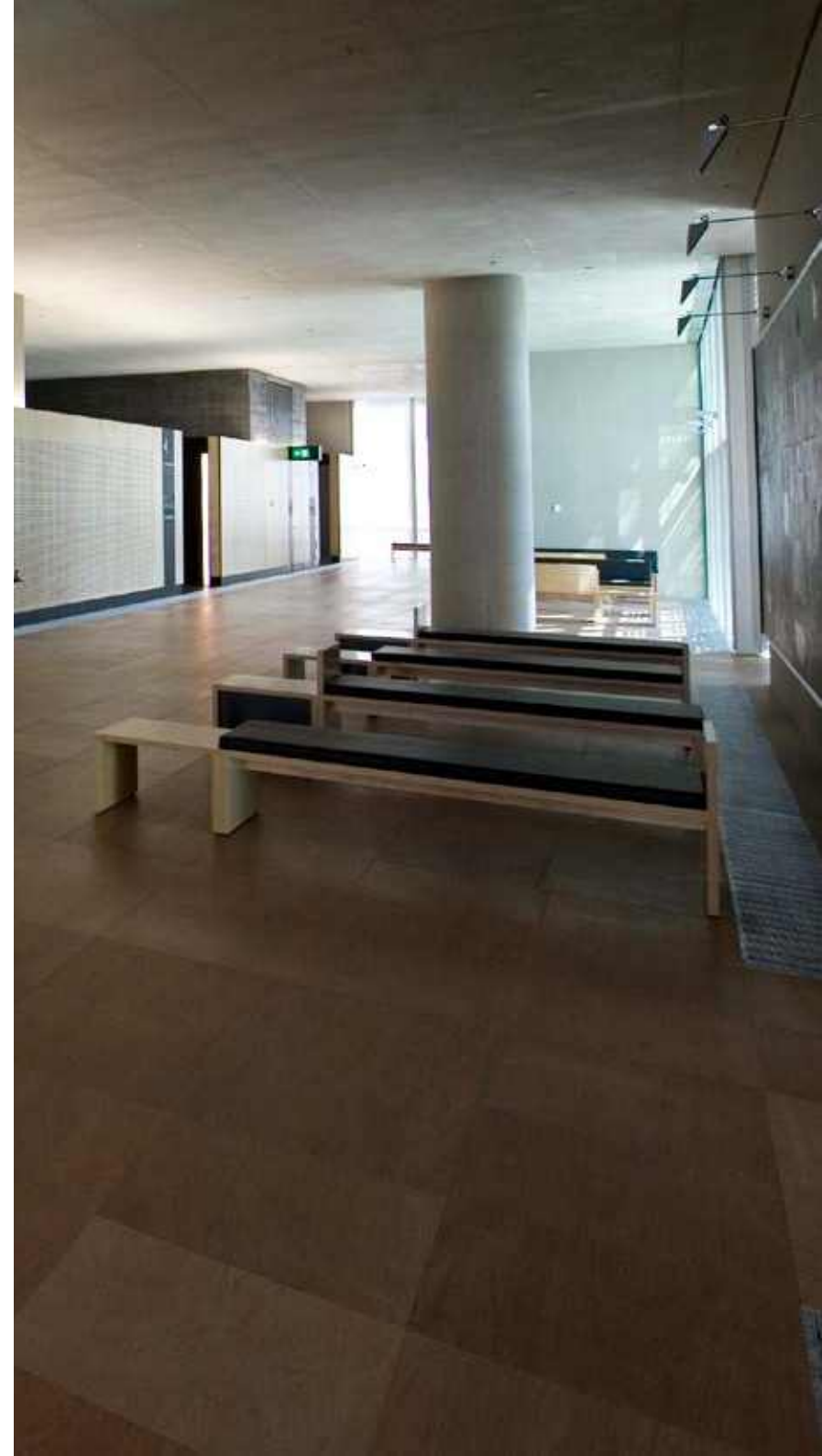
Pedestals

System	S1	S2	S3	S4	S5	S6	S8	S11
Icon X	•	•	•	•	•	•		
Icon Data							•	•
Icon Air	•	•	•	•	•	•		
Urban X		•		•		•	•	
Urban Interlock		•		•		•	•	
Origin X		•		•		•	•	



Accessories

PANEL LIFTER



Air Grilles



AGF-4-34 + OBD 200

Grille Dimensions: 600mm x 200mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	50	100	150	200	250	300	400
Pascal's Pa	1.5	5	10.5	19	30.5	43	75



AGF-4-34 + OBD 300

Grille Dimensions: 600mm x 300mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	50	100	150	200	250	300	400	500
Pascal's Pa	-	1.5	3.5	6	10.5	15	25.5	38



AGF-4-34 + OBD 600

Grille Dimensions: 600mm x 600mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	200	250	300	400	500	600	750	1000
Pascal's Pa	0.5	0.75	1	1.5	2	3.5	5	6.5

The AGF-4-34 range compliments the ASP Icon Series.



AGF-L-28 + OBD 200

Grille Dimensions: 600mm x 200mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	50	100	150	200	250	300	400
Pascal's Pa	1.5	5	10.5	19	30.5	43	75

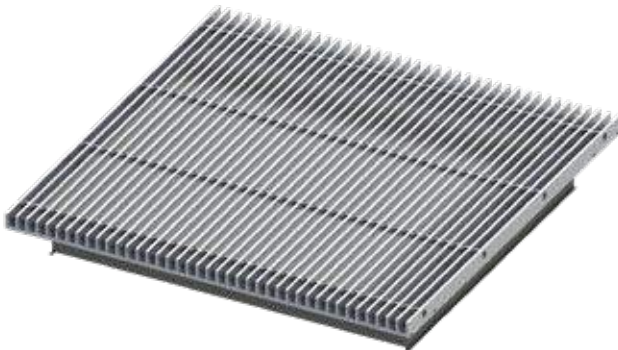


AGF-L-28 + OBD 300

Grille Dimensions: 600mm x 300mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	50	100	150	200	250	300	400	500
Pascal's Pa	-	2	4	6.5	11.5	16.5	27.5	41



AGF-L-28 + OBD 600

Grille Dimensions: 600mm x 600mm
Composition: 100% Aluminium
Finish: Clear Anodised

TECHNICAL DATA

Air Flow L/s	200	250	300	400	500	600	750	1000
Pascal's Pa	0.5	0.75	1	1.5	2	3.5	5	6.5

The AGF-L-28 range compliments the ASP Origin Series

Air Grilles

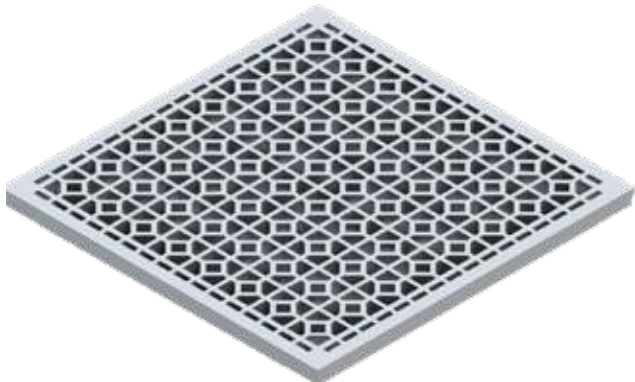


A2000

The A2000 Air Grille is 600mm x 600mm with a 56% open area. Each air grille weighs 11kg. The A2000 is made from aluminium and compliments the ASP Icon Series.

TECHNICAL DATA NOTE: THE BELOW DATA IS FOR THE AIR GRILLE WITH NO DAMPER

Static Pressure (Pa)	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
Air Volume (m3/h)	1295	1892	2340	2726	2980	3289	3576	3774	4035	4245
Air Velocity (m/s)	8.4	12.1	15.1	17.5	19.6	22.1	23.2	24.8	26.4	27.6



W2000

The W2000 Air Grille is 600mm x 600mm with a 56% open area. Each air grille weighs 9kg. The W2000 is made from aluminium and compliments the ASP Origin Series.

TECHNICAL DATA

Air Flow L/s	18	599	733	847	947	1037	1120	1197	1270	1339
Pressure Pa	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25

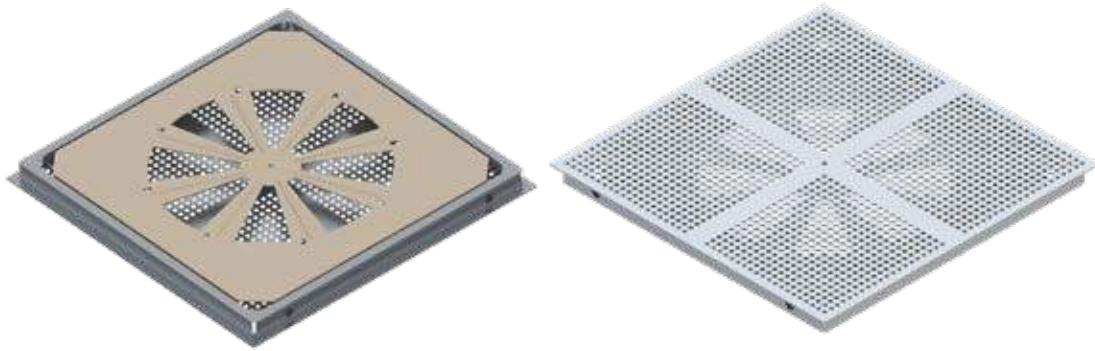


S2000

The S2000 Air Grille is 600mm x 600mm with a 68% open area. Each air grille weighs 22kg. The S2000 is made from galvanized steel and compliments the ASP Icon Series.

TECHNICAL DATA NOTE: THE BELOW DATA IS FOR THE AIR GRILLE WITH NO DAMPER

Static Pressure (Pa)	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
Air Volume (m3/h)	1274	1832	2241	2598	2901	3123	3369	3678	3889	4041
Air Velocity (m/s)	8.3	11.6	14.1	16.6	18.2	20.1	22.6	24.1	24.7	26.4

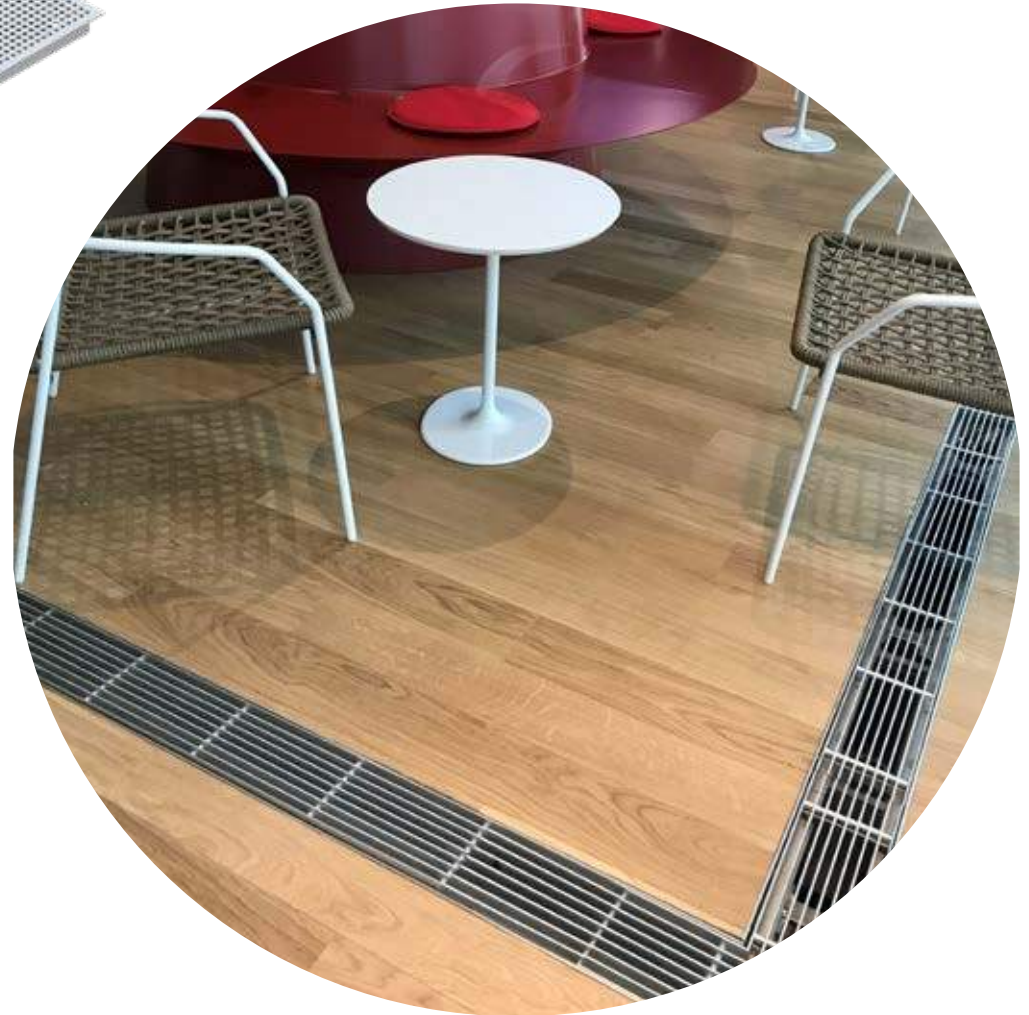


PERFORATED AIR GRILLE PANEL

The standard size is 600mm long. This perforated panel is a hollow steel panel with an inbuilt damper to help distribute and control the air flow in Data/Control Room applications.. The perforated panel has a 25% open area. The perforated panel damper is adjusted using an Allen key which turns the damper fins.

TECHNICAL DATA

Pressure Pa	Air Volume	
	Without Damper	With Damper
2.5	108	91
5	164	132
7.5	202	164
10	232	193
12.5	261	215
15	289	238
17.5	308	255
20	329	274
22.5	353	291
25	370	308



Grommets

CIRCULAR GROMMETS



125-RSI-CE SCREW IN GROMMET WITH BRUSHES

CUT OUT SIZE	124mm Diameter
CABLE PENETRATION SIZE	25mm Diameter
OUTER FLANGE SIZE	148mm Diameter

This 125mm grommet is designed to be screw fixed into position.



80-RSI-CE PUSH IN GROMMET

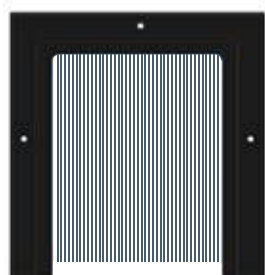
CUT OUT SIZE	80mm Diameter
CABLE PENETRATION SIZE	74mm Diameter
OUTER FLANGE SIZE	86mm Diameter



100-RSI-DB 100MM DOUBLE BRUSHED CIRCULAR

CUT OUT SIZE	100mm Diameter
CABLE PENETRATION SIZE	100mm Diameter
OUTER FLANGE SIZE	144mm Diameter

CABLE GROMMETS - NON BRUSHED, BRUSHED AND TWIN BRUSHED COP - WB BRUSH SERIES



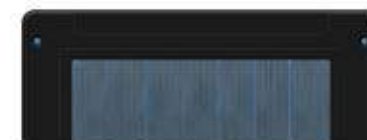
COP WB SINGLE COARSE BRUSH

CUT OUT SIZE	190 x 160mm
CABLE PENETRATION SIZE	170 x 140mm
OUTER FLANGE SIZE	215 x 205mm



COP WBD 4 SIDED DOUBLE BRUSH

CUT OUT SIZE	235 x 165mm
CABLE PENETRATION SIZE	200 x 130mm
OUTER FLANGE SIZE	280 x 210mm



COP WBD 4 SIDED DOUBLE BRUSH

CUT OUT SIZE	235 x 85mm
CABLE PENETRATION SIZE	200 x 65mm
OUTER FLANGE SIZE	280 x 105mm

CABLE GROMMETS – AL SERIES



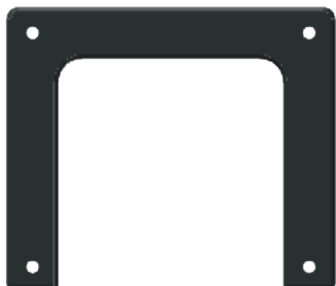
AL 1072

CUT OUT SIZE	152 x 152mm
CABLE PENETRATION SIZE	135 x 145mm
OUTER FLANGE SIZE	170 x 190mm



AL 10049

CUT OUT SIZE	107 x 155mm
CABLE PENETRATION SIZE	95 x 145mm
OUTER FLANGE SIZE	125 x 190mm



AL 10312

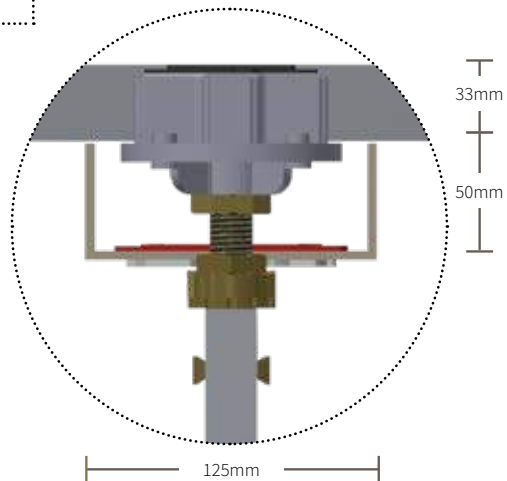
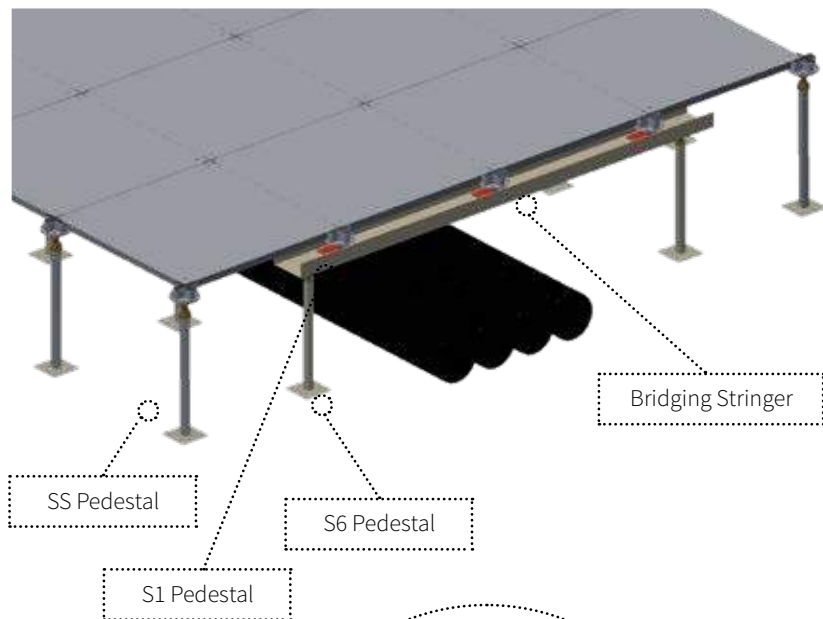
CUT OUT SIZE	105 x 100mm
CABLE PENETRATION SIZE	95 x 95mm
OUTER FLANGE SIZE	125 x 190mm



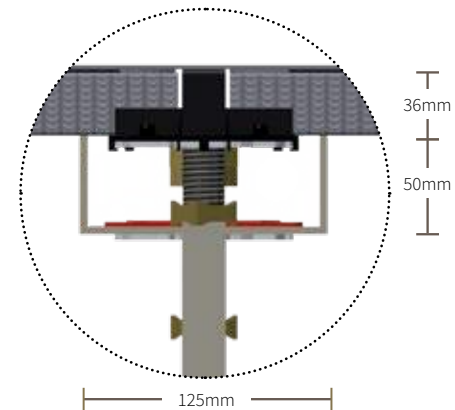
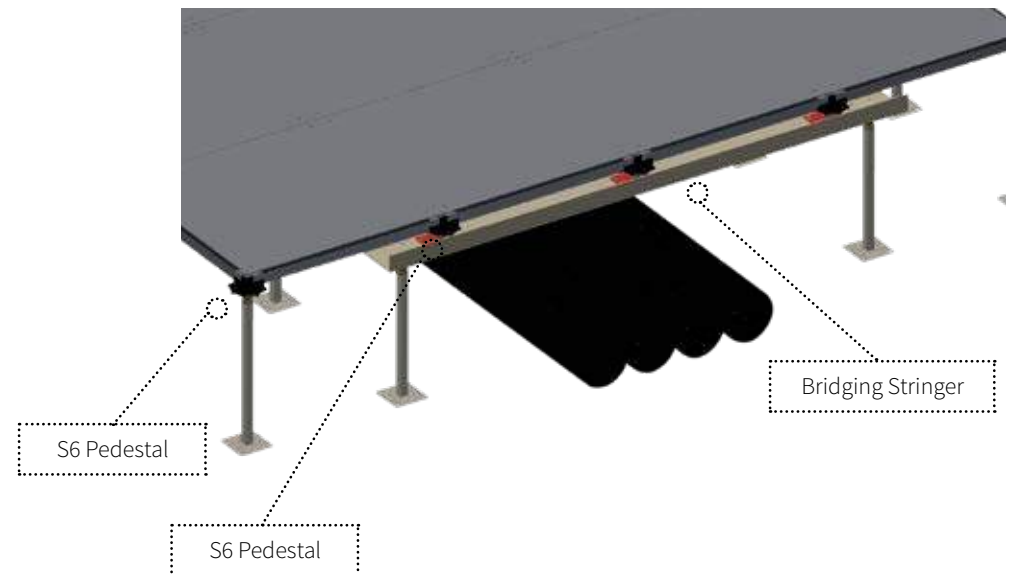
Bridging Stringer

The ASP Bridging Stringer can be incorporated into applications that require bridging over 600mm to span services such as A/C ducts, oversized cable trays, etc. The bridging stringer is designed to span across 1200mm lengths, without the use of supplementary support.

ICON X Bridging Stringer Detail



ICON Data Bridging Stringer Detail



Zone Baffle

ASSEMBLY

The ASP ICON AIR Zone Baffle is a factory fabricated clip on system that can be incorporated into any environment that requires an underfloor air plenum. The Zone Baffle creates an air tight seal to ensure that each zone is secured

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

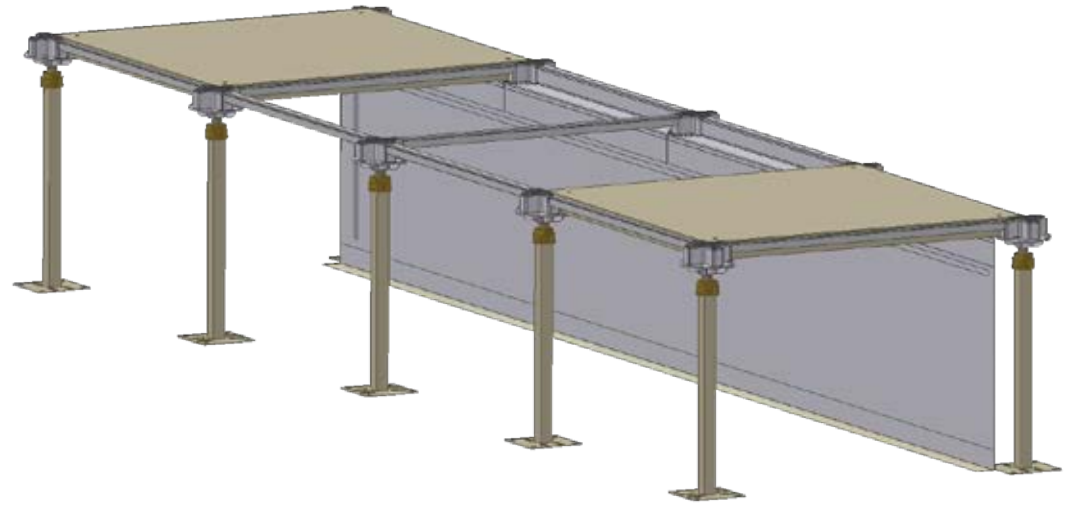
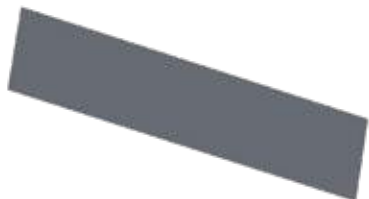
ZONE BAFFLE STRINGER

A proprietary ICON AIR Stringer is designed to be easily clipped into place on the ICON AIR pedestal head, allowing a fast and efficient air tight installation.



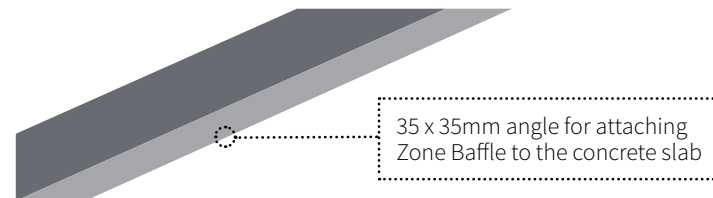
ZONE BAFFLE PANEL

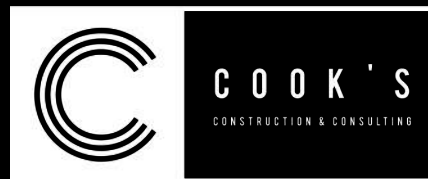
The Zone Baffle Panel is manufactured to the required project finished floor height and is quickly clipped into place on the Zone Baffle Stringer.



ZONE BAFFLE ANGLE

A 35x35mm angle is screw fixed onto the Zone Baffle Panel and then adhered to the slab.





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