



ARCHITECTURAL & INTERIOR PRODUCTS

Data Centre *Solutions*



Construction Specialties®



Your Vision, *Our Expertise*

At Construction Specialties, we understand the importance of optimising uptime for data centres — and their extreme sensitivity. One single drop of water can cause a severe amount of damage. You cannot afford to compromise.

When constructing a data centre, it is critical that you choose a solution that will protect the sensitive equipment within the building, while at the same time allowing that equipment to perform at the highest level possible.

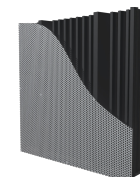
With an extensive range of architectural and interior products including performance louvres, screens, fins, grilles, sunshades, expansion joints, entrance flooring solutions, Acrovyn® wall and door protection, and floor bumper rails, Construction Specialties can bring your next project to life.

World Class Solutions



Conventional Architectural Louvres

Providing ventilation and visual screening of plant or other equipment or in generator enclosures where rain penetration is not a concern.



Perform Louvres

Where airflow and weather protection are needed, but the louvred look is not desired. An elegant way to hide louvres.



Storm Resistant Louvres

Engineered to provide excellent A Class protection from rain penetration and excellent airflow.



Acoustic Louvres

Where both noise control and airflow are required, Acoustic Louvres can be installed for use in generator enclosures as standalone screens, or integrated into building façades. They can also be used in combination with any of our rain defence or ventilation models, if required.



Explovent Safety Venting

Explovent venting systems are designed to safely relieve pressure during an explosion by providing a controlled release point, thereby protecting buildings and their occupants from the destructive forces of a blast.



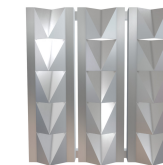
Floor & Bumper Rails

Floor bumper rails are designed to safeguard walls and other structures from damage caused by carts, trolleys, equipment, and pedestrian traffic.



Acrovyn® Wall & Door Protection

Renowned for its durability and wide range of uses Acrovyn® protects interior walls, doors and corners against damage from pedestrian and wheeled traffic. (Also available in robust checker plate)



Decorative Solutions

Screens, fins, grilles and sunshades can add instant glamour to your building's exterior.



Entrance Floor Mats

Entrance flooring solutions are designed to effectively trap dirt and moisture at building entry points, enhancing safety while protecting interior flooring from wear and damage.



Expansion Joint Solutions

Expansion joints are engineered components installed in structures to absorb movement caused by thermal expansion, contraction, and other dynamic forces, preventing damage and maintaining structural integrity.

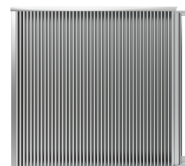
Award Winning Performance Louvres

With Construction Specialties, you do not need to sacrifice form for function. You may never look at louvres the same way again.

Scan to see our full AMCA catalogue



High Performance Data Centre Louvres



RS-5605

The award winning RS-5605 High Performance Louvre for Data Centres, features vertical blades and visible mullions, offering maximum protection against wind-driven rain with **excellent** airflow. Tested and certified by AMCA, the RS-5605 achieves a Class A1 rating (A up to 4.9m/s core velocity with 70% higher than the standard testing and a Coefficient of Discharge Class 1).



RS-5900

The RS-5900 High Performance Louvre for Data Centres, features vertical blades and visible mullions, offering excellent protection against wind-driven rain with **very good** airflow. Tested and certified by AMCA, the RS-5900 achieves a Class A2 rating (A up to 4.9m/s core velocity with 70% higher than the standard testing and a Coefficient of Discharge class 2).



RSH-5700 AND RSV-5700

These RSH-5700 and RSV-5700 High Performance Louvre for Data Centres, features 127mm blades available in a horizontal (RSH-5700) or vertical (RSV-5700) orientation. This model offers good protection against wind-driven rain with moderate free area and **good** airflow. Tested and certified by AMCA, the RSH-5700 achieves a Class A2 rating (A up to 5m/s core velocity with 70% higher than the standard testing and Coefficient of Discharge class 2).



Single Stage Performance Louvres



A-4080/85

The A-4080 and A-4085 single stage performance louvre is a non-drainable louvre with a 102mm blade. It is available with either a visible mullion (A-4080) or hidden mullion (A-4085). Tested and certified by AMCA, the A-4080/85 has 54% throat area and a Coefficient of Discharge Class 2.



A-6177

The A-6177 modular ventilation louvre has excellent airflow performance and is ideal for applications with permanent mechanical extract ventilation or a plant room(s) with (a) minimum requirement on water ingress. Tested and certified by AMCA, the A-6177 achieves has 58% throat area and a Coefficient of Discharge Class 2.



Screening Louvres



VERT-A-CADE 301

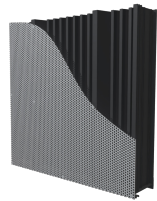
The VAC-301 horizontal screening louvre is our most economical extruded vision barrier. Blade lengths can span up to 6m based on the regional wind loads. It is ideal for enclosing mechanical units and equipment.



VERT-A-CADE 1000

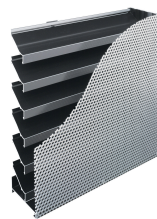
The VAC-1000 horizontal screen provides high-performance free area and sight cut-off, with deep blades that create a heavy shadow line. It can be used to conceal rooftop equipment or reduce glare from headlights in parking garages.

Perform Louvres



PL-5700

The PL-5700 louvre is constructed with a 189mm high performance louvre and a perforated face. The PL-5700 has excellent weather performance, combined with good airflow and sight screening.



PL-4080

The PL-4080 louvre is constructed with a 189mm high performance louvre and a perforated face. The PL-5700 has good weather performance, good airflow and is ideal where rain defence is not a priority.



Complete Suite of Solutions

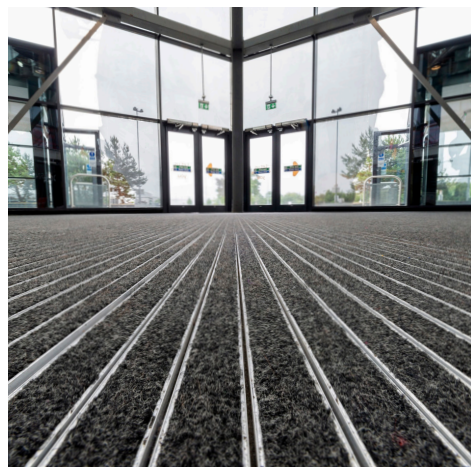


Acrovyn® Wall & Door Protection

Server replacements are recommended every 3 years, and with that comes the potential for damage from large, heavy equipment being moved around. To reduce maintenance costs and potential downtime it's important to consider protecting your building from damage.

Acrovyn offers many solutions to protect the interior of your building from impact damage, all designed with durability in mind.

From impact resistant sheet used for protecting wall and door surfaces to heavy duty corner protectors and crash rails, our range comes in a wide range of different shapes, sizes, materials and colours to suit your needs.

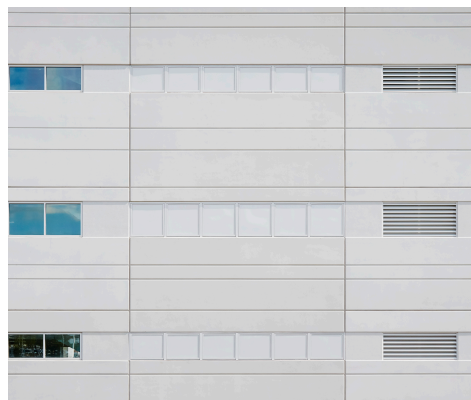


Entrance Flooring Solutions

Dirt containment within a Data Centre is critical to ensuring outside dust, dirt and debris doesn't impact server reliability. One way to combat that is to ensure effective entrance matting is installed at every entrance to the facility, capturing dirt and debris at the door.

Pedisystems entrance matting systems are designed to remove maximum dirt and moisture at the entrance.

Durable, aluminium based systems are available in a range of styles, depths and insert types, with some options designed for heavy loads going across the mat.



Explovent Venting

If your data centre has onsite power generation, or stores potentially explosive materials such as coolant, it may be worth considering an Explosion Venting solution to protect the building, and ensure minimal downtime if an explosive event occurs.

Ideal for substations and gas storage areas, Explovent venting systems are designed to safely relieve pressure during an explosion by providing a controlled release point, thereby protecting data centres and their occupants from the destructive forces of a blast.



Expansion Joint Solutions

Due to the large footprint of Data Centres, Expansion Joint Covers are often required to cover movement joints designed to accommodate structural building movement.

It's also important to consider protecting these joints with fire barriers as fire can spread quickly through unprotected joints.

Raised access floors are common in data centre applications, so quite often simple, all metal cover strips are used to cover the gap. However, in areas where heavy equipment such as servers are being moved about heavy duty all metal covers are recommended to ensure long term durability.

Where required, various fire barrier options, tested for movement cycling are available to suit your needs and protect your building from the spread of fire.





ARKON ENERGY DATA CENTRE
GLOMFJORD, NORWAY
RSH-5700 STORM RESISTANT
LOUVRE

What Our Clients Say

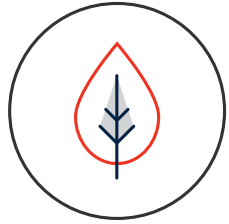
"We were pleased to work with Construction Specialties delivering a number of major data centre projects. Their CS chosen louvres deliver excellent rain protection. They were the highest performance option that met the stringent constraints and regulations of the project. Airflow is of course critical to data centres particularly where indirect evaporative is being used and very large areas of louvres are incorporated into façades for air intake and discharge. CS Louvres enable efficient air movement whilst maintaining an extremely high level of weather protection. Construction Specialties is a perfect fit for these projects."

Simon Jenkins
Director of Architecture
DEM

"Having the CS RS-5605 performance louvre incorporated into our project was important. The CS Louvres perform exceptionally well to protect against wind driven rain entering the building while providing high airflow ventilation which are critical performance criteria required in our design of digital infrastructure facilities while meeting our architectural intent. Construction Specialties are a pleasure to work with in designing and achieving these needs."

Paul Bennett
Director of Architecture
METIER 3

People. Buildings. Better.



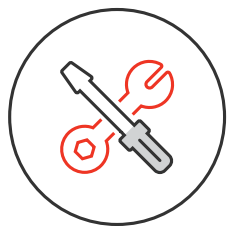
COMMITMENT TO SUSTAINABILITY

At Construction Specialties, our ISO 14001-certified Environmental Management System emphasises our dedication to sustainability. From architectural products made with Certified Low CO2 aluminium, to our PVC-free Acrovyn® wall protection, we are committed to contributing to a better future for everyone.



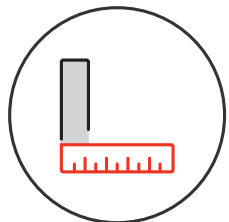
ENGINEERING + TECHNICAL SUPPORT

Our in-house team of experienced engineers and product specialists is dedicated to helping you select the right products for your project. We prioritise Continuing Professional Development, offering webinars, lunch and learn sessions, and product training that contribute to CPD points, ensuring you stay informed and skilled in industry advancements.



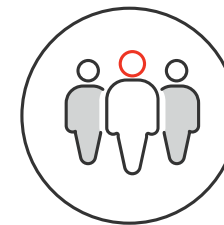
MANUFACTURING EXCELLENCE

Backed by global support, our local manufacturing facilities are state-of-the-art and ISO9001 and ISO14001 certified. Construction Specialties operates manufacturing sites in Enfield and Condell Park, NSW, covering a total of agility customisation of 7,650 square metres. We produce a range of architectural products, including louvres and expansion joints, as well as interior products like Acrovyn and Entrance Flooring Solutions.



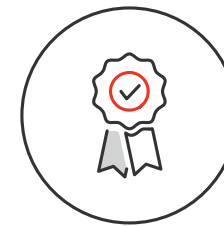
SAVE TIME AND MONEY WITH CUSTOM SOLUTIONS

In the world of data centres, we recognise that one size doesn't fit all. Utilising in-house engineering and manufacturing, we tailor solutions to streamline your build process, improve aesthetics as well as reducing costs on-site..



PEOPLE FIRST APPROACH

Our people embody our core values of integrity, innovation, and sustainability. With a passion for excellence, we are committed to delivering quality architectural solutions that enhance environments worldwide, fostering collaboration and creativity to create inspiring spaces.



BEST-IN-CLASS PERFORMANCE

Setting the standard in industry excellence, our louvres excel in real-world conditions. While competitors use CFD simulations, we validate our louvres in a full-sized test chamber according to the strict requirements of the Air Movement and Control Association (AMCA) standards.



INNOVATION

As a solutions driven organisation, Construction Specialties boasts in-house R&D and engineering capabilities, supported by global innovation centres. Our innovations include the award-winning AIRAH Product of the Year, RS-5605 performance louvre for data centres.

LEADING WITH EXCELLENCE

Established over 75 years ago, Construction Specialties has evolved into a global leader in the manufacturing and supply of specialty building products. With a presence in 25 offices worldwide and employing over 2,000 professionals, we serve diverse markets across continents.

In Australia, Construction Specialties has operated for over three decades with manufacturing facilities in Enfield and Condell Park, NSW.



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