



Case Study: Barker College
Rosewood Centre – Sports & Learning Complex

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THE CHALLENGE

The Rosewood Centre, part of Barker College in Hornsby, is a state-of-the-art, purpose-designed and built facility providing five multipurpose courts, gym and exercise spaces, rooms for dance, twelve general-purpose teaching areas, meeting/function rooms, a viewing platform and a café.

The Centre allows Barker's students access to cutting-edge recreation and learning spaces, as well as providing a space for wider community use.

Syndeticom was engaged to design and install multiple audio-visual and structured cabling solutions suitable for the various and diverse spaces within the Rosewood Centre.



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THE SOLUTION

Syndeticom designed a complete audio and visual solution and cabling structure for the Centre, comprising:

- **Design & consulting** – the Syndeticom team worked with Barker College to ensure all data and audio-visual aspects were considered from the offset.
- **Structured cabling** – installation of fibre and copper structured cabling systems throughout the Centre provides reliability and speed of connections, forming a high-volume multi-service infrastructure backbone for the entire building.
- **Comms rooms fit-outs** – data and audio-visual racks were installed within the Centre, with positioning and security a key factor.
- **LED video walls** - six Samsung LED walls were installed; five multipurpose courts have their own 2.5m x 1.5m LED walls that can natively display the relevant scoreboard over 30 sports or be used as a video wall; and a sixth 5.5m x 3.5m large wall is used as a main presentation screen. All video walls use a 3.9mm pixel pitch.



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THE SOLUTION

- Fitness & Conference rooms – Each fitness Centre was fitted with a 75” display and conference rooms fitted with 86” displays, with all locations using Crestron control and audio systems.
 - Wayfinding digital signage – three digital screens were installed near entrances and stairwells to help students and visitors to the Centre navigate their way around the Centre.
 - Meeting room booking displays – Crestron room scheduling panels for conference and meeting rooms throughout the building which integrate with the Office 365, Resource Central and the School timetable.
 - Audio system - 3D acoustic modelling, using EASE, was undertaken by Syndeticom to ensure even sound coverage throughout the Centre
 - Classroom AV – wall-mounted short throw interactive Epson projectors were installed in each classroom with Vivi wireless capability, ceiling speakers and Crestron control. Custom cabinetry was installed to maintain a sleek, clean design.
 - Custom fixtures & fittings – custom built LED panel shot clocks were designed and mounted above the basketball hoops, all court speakers were mounted to structural columns, then custom painted to integrate with the building’s aesthetic.
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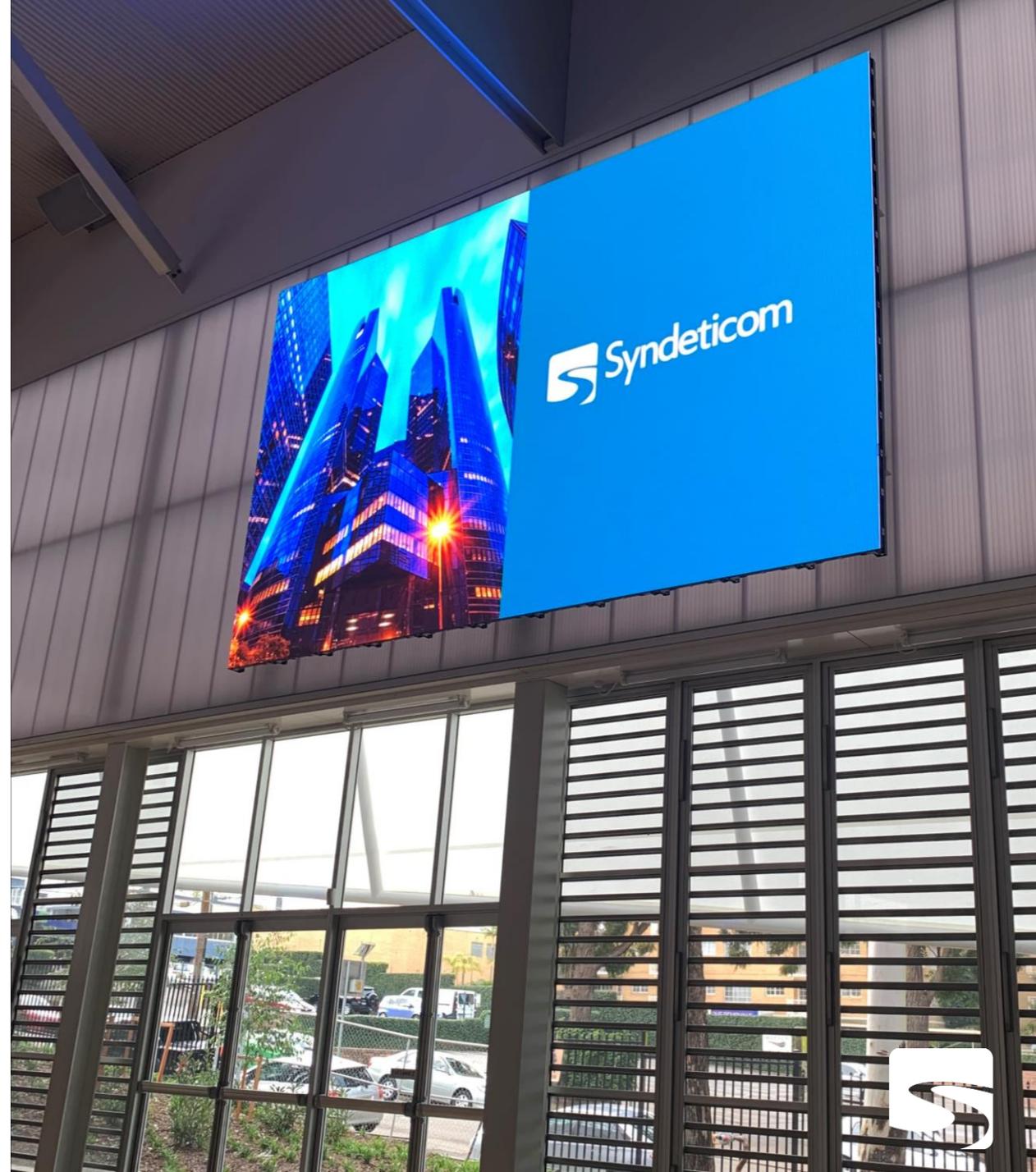


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THE BENEFITS

Syndeticom's expertise ensured the complex requirements of this project were met through a consultative and customised approach, resulting in a quality install, exceptional sound performance and a commitment to the overall vision.



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CLIENT TESTIMONIAL:

“Barker College has been working with Syndeticom since 2015 and have complete confidence in their expertise. Syndeticom completed our AV and network cabling work to a very high standard and demonstrated their value in how they addressed the challenges associated with this project. They have always sought to understand the school’s requirements and ensure that these were met.”

The audio system for the five multipurpose indoor courts was particularly complex as the structural features presented some audio-visual challenges. Syndeticom conducted acoustic modelling and presented a range of solutions that involved a high level of customisation to address the specific challenges of the site, working closely with all elements of the design and construction teams to come up with a final design that met the requirements for all stakeholders.

Syndeticom bring an established understanding of the requirements and constraints of the education sector, and so were well equipped to understand our needs. I would not hesitate to recommend the Syndeticom team for large scale, complex installations where technical and design expertise, professionalism and a strong customer focus are essential.”

James Stewart, Director of ICT & eLearning, Barker College





1 AV equipment housed in custom cabinetry • 2 Structured cabling • 3 Wayfinding signage in walkways & corridors •
4 LED screens in sports hall • 5 Overhead projectors with wireless capability in classrooms • 6 Meeting room booking display panels •

