



paragon

STRUCTURES



THE **NEXT GENERATION** OF **SUSTAINABLE**
SPORTS STRUCTURES

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BESPOKE SPORTS BUILDINGS THAT MEET YOUR NEEDS

Paragon Structures specialises in the design and delivery of bespoke high performance buildings for the UK's sport and education sectors.

Our unique insulated tensioned membrane structures are environmentally-friendly and significantly more cost effective and faster to build than traditional sports buildings. With over 40 years' management, planning and construction experience, we provide a full turnkey service, working with you from initial consultation and project design to completion and beyond to develop a sports building that meets your needs, whether you are a school, college, university or sports club.

WHAT ARE THE BENEFITS OF TENSIONED MEMBRANE BUILDINGS?

- Lower costs – up to 40% cheaper capital costs and reduced foundation costs
- Rapid build times – a 1,000 sq m insulated structure is typically erected in just 35 days, significantly reducing build time, cost, disruption and risk
- Energy efficient – cuts energy costs by up to 50% compared to traditional builds
- Built to last – 25 year membrane and 50 year frame warranty
- Superior performance – designed to withstand extreme weather conditions
- Exceptional interiors – clear-span spaces, generous roof heights and abundant natural light



CUT YOUR CARBON EMISSIONS

- UK BREEAM rating of Excellent
- Low carbon footprint materials compared to steel or brick buildings, including the aluminium frame and fabric membrane, which are both 100% recyclable
- Superior insulation and enhanced airtightness of the membrane – 10 times better than building regulations limits – results in a highly thermally efficient structure
- The glass fibre insulation is formaldehyde free, containing a minimum of 25% recycled material
- Abundance of natural light and computer-controlled artificial lighting reduce energy consumption and costs
- Minimal construction waste to landfill. Pre-engineered solution means very low construction site traffic



DESIGNED TO MEET THE NEEDS OF ALL SPORTS

Meeting Sport England and national governing body of sport standards, our buildings provide the ideal playing environment for both training and competitions, with vast clear-span interiors, generous roof heights and translucent daylight panels that flood them with natural light. Superior insulation and anti-condensation technology ensure a comfortable year-round environment for all sports, including:

- Athletics
- Basketball
- Badminton
- Cricket
- Equestrian
- Football
- Golf
- Gyms
- Hockey
- Multi-sports
- Netball
- Tennis
- Trampolining
- Rugby
- Swimming
- Volleyball

PATENTED TECHNOLOGY

Our award-winning sports buildings are lightweight structures comprising a military-grade aluminium frame and a tensioned fabric membrane – the longest-lasting fabric of its type in the world.

Using patented technology and following years of extensive research and development, our super insulated buildings are designed to perform for decades. Fully bespoke, they come with a 25-year, pro-rata guarantee on the exterior membrane, while the aluminium substructure is guaranteed rust-proof for 50 years.

Our sport structures are engineered to withstand extreme weather conditions, including hurricane strength winds and heavy snow loads. They are also flame retardant and comply with all British building standards and safety regulations.

EASY TO MAINTAIN

With a virtually airtight building envelope and fully lofted fibreglass insulation system, our sport structures have lower operating and energy costs than conventional sports buildings. Maintenance costs are kept to the minimum too. No repainting, guttering or roof repairs are required for the lifecycle of the building – a simple clean of the membrane with water and a soft industrial brush every two years is all that's needed to keep our sport structures performing to the highest of standards.

FULLY BESPOKE

Our tensioned membrane buildings can be customised to your specifications and design requirements. We offer a wide variety of exterior cladding options, colours and graphics, so you can create a truly unique sports facility.



WORLD-CLASS SPORTS FACILITIES FOR MILLFIELD SCHOOL

We designed and delivered two state-of-the-art sports centres for Millfield School to complement their existing facilities.

The Millfield Indoor Cricket Centre facilitates year-round practice for pupils and the wider sporting community, including the English Cricket Board for its coaching and umpire courses. The innovative building features PitchVision technology on three lanes, a 4G fielding area, three adaptable bowling and batting surfaces, as well as five nets and an expansive 22-metre run-up.

The second structure, the John Graveney Golf Centre, includes six practice bays with the opportunity to hit balls from the inside to outside. A further six practice bays, an 81sq m Huxley putting green and the use of the GC Quad Ball Monitor, allow players to have feedback on all shots, including putting.

Both projects were completed in just seven months and went on to win Somerset Building Control Partnership's Educational Building of the Year Award. They were also highly commended in the LABC Building Excellence Awards.

"Paragon Structures have taken our golf and cricket facilities to the next level. I'm blown away by the results. Compared to traditional constructions, Paragon's sprung structure solution was unbeatable; we essentially ended up with two new buildings for the price of one traditionally-built, all delivered in just seven months from start to finish."

Neil Chapillon, Head of Estates at Millfield School



OUR PARTNERS

We work with a range of expert partners to create our outstanding sports buildings. These include:

- **SPRUNG** – 13,000 buildings in more than 100 countries, Sprung design and build all our structures, ship to site and even supply the engineer who oversees construction to exact detail.
- **COWAN ARCHITECTS** – an innovative, multi-disciplinary national architectural practice, with over 36 years' experience. We have collaborated with Cowan on a number of education, sports and swimming projects across the UK.
- **SWIM ENGLAND** – partnering with England's national governing body for swimming, we have developed concept designs for a high-quality, cost-effective and environmentally-friendly swimming and activity centre that can be rapidly constructed with economic cost certainty through a pre-designed, off-site solution.



CONTACT US

Please get in touch to see how we can help you create sustainable sports facilities fit for the future.

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