Indoor sports facilities
Rubb’s innovative indoor sports facilities are custom designed to suit all sporting goals.

Rubb Buildings Ltd has been pioneering the design and manufacture of permanent and relocatable fabric engineered buildings since 1968.

Rubb fabric engineered sports facilities provide worldwide sporting sectors, clubs, schools and other organisations with a competitive edge. Rubb can deliver multi-use sports structures, football training facilities, netball domes and more.

Rubb’s translucent roofing systems provide an internal light and airy atmosphere, effectively bringing the outdoors under cover, protecting players from the elements.

Rubb indoor sports facilities provide many benefits including design and planning flexibility, rapid installation, superior structural performance, minimal maintenance and low life cycle costs.
Advantage Points

Low Maintenance / Low Costs
Our high-quality membrane materials and post-production galvanized welded frames deliver durability over time, making the cost of maintaining Rubb buildings more economical compared to conventional structures.

Energy-Efficient Roof Membranes
Transient membranes allow natural daylight to illuminate the playing area, while the white roof surface reflects heat. Optional Thermohall™ insulation minimizes heat transfer, prevents condensation and virtually eliminates thermal bridging and air infiltration.

Rapid Design, Construction and Installation
Rubb buildings can be quickly designed and erected due to module pre-fabrication. Rubb can provide site supervisors or fully dedicated construction teams to complete any custom project. Structures are transportable by land, sea and air.

Flexible and Cost-Efficient Foundation Systems
Rubb buildings can accommodate many foundation options such as concrete up-stand, ballast weights, and ground anchors into an existing surface. Rubb co-ordination with the groundwork contractor is key for the client to reach the most cost effective solution.

Reduced Time On-Site
Our established supply chain streamlines coordination of delivery and installation. Pre-fabricated elements and the ability to construct our buildings in a variety of weather conditions speeds up the construction process.

Customisable Features
Buildings can accommodate all types of doors, ventilation and equipment to safely support a wide variety of field and court sports such as football, hockey, lacrosse, Gaelic football, rugby, cricket, basketball, volleyball, gymnastics and tennis.

Multiple Use
Rubb indoor sports facilities can function as one large playing area or be sub-divided into smaller areas for younger age groups or training programmes. Sports surfaces can be divided using moveable rebound walls, nets or more permanent dividers.

Comprehensive Long-Term Service
Rubb personnel are on hand to provide help and support, from initial contact to quotation, installation and beyond. Rubb’s commitment to customer service continues after project completion and forms the basis for long-term customer satisfaction.

Technical Specifications

The Rubb Group designs and manufactures quality relocatable and permanent engineered fabric tensioned buildings. Highlights include our ground-breaking military hangars, sunshades, shelters, warehouses and workshops, custom designed specialist sport buildings and storage buildings for a variety of sectors including aviation, ports, emergency relief, energy, construction, bulk storage and environmental (waste and recycling). Projects range from basic buildings to full turnkey solutions.

Efficient Use of Space
Steel frame system allows for cost-effective clear-span space and high vertical walls to suit customers’ needs. We offer a variety of span profile shapes and door system options.

High-Quality Membrane
High-strength, heavy-weight PVDF coated architectural membranes from proven suppliers. Many structures are still in use 30 years after installation.

Code-compliance
Rubb buildings are designed for site specific, full code-compliance with respect to wind and snow loads.

Insulation Options
PVC-coated polyester membrane will not propagate flames or sustain combustion when exposed to a fire. The structure is self-venting, allowing heat and smoke to escape.

Efficient Heat Management
The membrane cladding of a Rubb building is continuously sealed to provide a weather-tight shell. The buildings can be insulated, heated or air-conditioned as required. Rubb structures are uniquely suited for use as dehumidified facilities.

Superior Structural Frame
A well-engineered structural framing system, with the best corrosion protection in the industry. The steel framework is protected from corrosion by hot dip galvanizing. Galvanizing is the process of metallurgically bonding a tough coating of zinc into the steel surface. Rubb buildings are more durable because of this added protection.

Unique Fire Safety Features
Rubb’s patented Thermohall™ features a flexible insulated fabric system which offers major advantages over other insulating systems.

Complete Environmental Control
The membrane cladding of a Rubb building is continuously sealed to provide a weather-tight shell. The buildings can be insulated, heated or air-conditioned as required. Rubb structures are uniquely suited for use as dehumidified facilities.

Specifications

Technical

www.rubbuk.com

excellence in engineering
Rubb Buildings Ltd was selected to design, manufacture and construct this 40m wide x 55m long steel and fabric clad structure for the University of York. The new sports structure has replaced a Rubb BVE building, which was installed in 2006.

The new sports facility features a taller apex height of 13.4m and provide a higher internal clear centre height of 11.9m. The Mansard, multi-pitch roof provides a greater internal volume of playing space at 20,600m³. The sports building includes a central, premier standard, multi-sports court for recreational and performance level basketball, netball, badminton, futsal and volleyball.

The area can be divided into three sections, which can each accommodate a basketball or volleyball court or up to four badminton courts. Lowering vertical PVC panels transforms the facility to create a full hall show court for all sports including basketball, which is supported by drop-down basketball nets and three scoreboards.

The 6.7m high sidewalls and end gables feature 80mm thick steel cladding, and Rubb’s Thermohall insulated fabric membrane completes the roof of the facility.

Gerflor Taraflex™ Sport M sports flooring provides the highest level of performance, comfort and safety, and 2.4m high rebound boards have been installed around the full internal perimeter. The sports building also includes a storage room for sports equipment. A glass partition divides the playing area and the viewing walkway. A high level, gas fired heating system and LED lighting system, both designed to Sport England specifications, have been installed in the sports facility.
The new campus is made up of two buildings, a main block which houses innovative spaces for teaching, and a sports block, which is a custom-made part fabric structure containing a mix of spaces as well as a main sports hall. Alongside the sports building is a new all-weather sports pitch built to FIFA ** standards.

The split level 20m span x 70m long sports complex boasts a 7m high x 33m long playing area based on a four court badminton hall. This area, situated at the rear of the building, can also be converted to one basketball court, one netball court, one tennis court or one 5-a-side football pitch. A 4m high x 37m long amenities block completes the front of the facility and includes an entrance lobby, a dance studio, executive studio, changing facilities, four store rooms, a seminar room and a construction zone.

The sports structure features Rubb’s traditional galvanized internal BVC type steel frame. The walls from the ground up feature 4m high, 100mm thick insulated steel cladding, providing a U-value of 0.21w/m²k. Rubb’s Thermohall insulated cladding completes the upper walls and roof.

“Rubb provided an ingenious solution for our new school; they were able to offer a design for a sports hall that met our requirements and those of the planning authorities for a contemporary sports facility, but which was affordable and deliverable within the original planning timelines. The sports hall has surpassed our expectations; it was delivered to time and budget and because of its innovative design, it was able to enhance the opportunities offered by Ipswich Academy. I would recommend Rubb to anyone considering investing in new sports facilities; it is a company that offers great solutions that in my experience are delivered on time and to budget.”

Steve Hawley | Estates / Facilities Manager
Meadowbank Sports Arena

Northern Ireland, UK
70m x 145m long BVC

At 70m span x 145m long, with sidewalls of 9m, the complex caters for a wide range of indoor sports activities.

Rubb tailor designed and manufactured this multi-use sports facility for a variety of activities including tennis, netball, hockey, badminton, football and a five lane indoor 300m running track.

The facility is a hybrid structure constructed with a traditionally built brick amenities block integrated into a Rubb building, with a PVC fabric roof to let in natural light, and kingspan steel clad sidewalls for added security.

The facility also features a 3.2m wide x 205m long viewing platform comprising 450 stadium seats, five wheelchair refuge points and five staircases which are fully handrailed. Attention to detail and customer care was paramount with our team skillfully blending aesthetic architectural specifications with proven sports systems.

“We find one of the strongest facets of the building is its versatility. The facility has obviously raised the profile of the district - Meadowbank Multi Sports Arena is now seen as a regional and national facility.”
John Mc Claughlin | CEO Magherafelt Council

St Mary’s Sport Training Centre

Dorset, UK
20m x 48m long BVE

Rubb Buildings Ltd worked with main contractor Greenslade to provide a 20m span x 48m long sports hall with sidewalls of 5m, featuring a multi-use games area large enough to accommodate a full size basketball court.

The area, 8.4m high at the building’s apex, can also be adapted to accommodate a match-play volleyball court, a netball court with portable goals, a 18m x 33m 5-a-side pitch, four badminton courts or four mini games courts.

St Mary’s C.E. Middle School’s sports centre features Rubb’s signature galvanized internal steel frame, clad with durable PVDF coated fabric, providing dark juniper green walls and a white translucent roof. This allows natural light inside for a bright playing environment, saving on energy costs.

Within the building there are two partitions which create a 20m x 9m storage area and a 20m x 6m changing area at each gable end respectively. Three metre high steel cladding protects the building’s external walls.

“The service provided by the Rubb team was outstanding: we were consulted at all stages of the project and were regularly updated on the progress of the build. The on-site team literally worked all day, every day to ensure that our sports hall was completed by the agreed deadline - as a client, we could not have asked for more.”
Carl Winch | Head Teacher

Taunton Vale Sports Club

Taunton, UK. 24m x 38m long BVE

Rubb Buildings Ltd manufactured and delivered an indoor sports hall for Taunton Vale Sports Club. The sports facility has a span of 24m and is 38m in length, with 8m indoor sidewalls.

The multi-use sports structure features an inner-skin and insulation package, 3m high steel clad sidewalls and sports rebound boards, both fixed and removable.

Rubb installed a high class lighting system providing 750 Lux, a ventilation system and a gas fired Ambi-rad heating system. The building was designed around the specifications for indoor courts as stipulated by England Netball.

Rubb also used design expertise to ensure that the sports hall can be used for other sports such as badminton, basketball, football, and hockey.
Rubb Buildings Ltd was a key player in the team tasked with completing a new indoor training facility for Sunderland Association Football Club.

Rubb worked with Tolent Construction Ltd and architects Red Box Design Group to make SAFC’s long awaited training facility plans a reality. The sports building features Rubb’s largest building span width to date at 82.4m. The facility measures 64m long with sidewalls of 7.75m and a central internal clearance of 10m high.

The structure stands 12.5m high at its apex and comprises a galvanized steel frame, a white PVC clad roof, a large gutter system, a Fullflow syphonic drainage system and four large vent roof cowls along the apex.

The translucent roof allows natural daylight to illuminate the interior which includes a full size indoor 3G football pitch. The sidewalls and gables are constructed with stone filled gabion cages up to 3.8m high with the upper part clad with Larch timber. A large roller shutter door (7.6m x 3.8m) provides access via the south gable of the building along with three personnel doors.

“The company supported changes in the overall facility footprint and height in accordance with planning conditions to ensure the available space was maximised. The overall finish of the building shows the diversity of the product and service that Rubb provides.”

Peter Weymes | SAFC Facilities Manager

SAFC Academy
Sunderland, UK
82.4m x 50m long BVC
Rubb Buildings Ltd’s design team proved to be in a league of their own after completing the Newcastle United indoor training facility.

Academy development players, as well as members of the first team, use the building to train in perfect conditions whatever the weather.

Rubb UK first approached Newcastle United with the idea of using a Rubb indoor football training facility after hearing that the club was looking for an indoor training centre as an integral part of its football academy. After discussing proposals for the training facility, the client was impressed with what Rubb UK could offer.

The 67m span by 90m long building houses a full sized indoor football pitch and is located at the club’s training centre in Longbenton, Newcastle.

This Rubb football building was tailor-made to Newcastle United’s own specifications and requirements, while falling in line with local planning regulations.

Newcastle United FC needed an area that was large enough to hold a full sized pitch and high enough to provide headroom for throw-ins and free kicks. In addition the building needed to be in place within a fairly short time-frame.

Rubb rose to the challenge and provided an indoor football training building measuring 70m wide by 105m long with sidewalls of 7m. Rubb’s use of an I-beam column leg system as an alternative to lattice truss construction maximises the internal playing area.

West Bromwich Albion’s indoor training facility meets with all local building codes and post production hot dip galvanizing to BS ISO EN 1461 standards ensures the structure’s steel surfaces are protected against corrosion.

The PVC coated polyester membrane cladding flies the club colours of dark blue and white and the translucent roof provides a bright and airy atmosphere. This helps reduce energy costs as artificial lighting is not required during the day.

The West Bromwich Albion FC Community Sports Hall was built on the same site as the club’s indoor training centre. This project was sponsored by Barclays Bank as part of the Kids in the Community initiative.

The sports centre includes changing facilities complete with showers, an office and an equipment storage area. The local community now benefits from the facility.
Rubb worked with main contractor Leadbitter to complete the project following a competitive tender process. The project started out as a one court tennis hall which grew into a two court hall after more funding was secured. Then the design was changed to also accommodate two netball courts.

This involved increasing the height of the building, while maintaining the overall footprint. The custom designed sports hall measures 39.5m x 35m with 7.2m high sidewalls of which three metres are steel clad. Rubb was responsible for providing the steel framed superstructure which is clad with a PVDF coated polyester fabric membrane.

“We are looking forward to seeing the latest facility being used by the pupils of Budehaven School and the local community.

“The new sports facility is an iconic building for both the school and wider communities. It has enabled us to enhance the sporting provision for our 1300 students and feeder primary schools.

“The facility supports the development of two growing sports of netball and tennis in the town. The netball hub is now at the heart of our school and community leisure provision and will provide a lasting legacy.”

Mrs Denise May MBE | Director of Sport Budehaven

A Bournemouth school is going for gold following the completion of a beach volleyball hall. LeAF Elite Athlete Academy took delivery of 1202m² of sand for the facility at its LeAF Campus on Duck Lane, Dorset.

Rubb Buildings Ltd was tasked with the design, manufacture and delivery of the 32m span x 40m long sports building which includes two internal beach volleyball courts, complete with sand pits to represent a beach environment.

The Rubb sports facility has sidewalls of 10.8m and boasts a clear playing height of 10m inside. The volleyball hall features Rubb’s galvanized internal steel frame, but with a new design. A tapered lattice leg facilitates the curved roof design specified by the school’s architect Trinity Architecture.

The building is clad with durable PVDF coated fabric, providing blue walls and a white translucent roof. Rubb added the LeAF Campus logo to both gable ends of the structure. Four doors, one in each gable and sidewall, provide access to the facility.

“The indoor beach volleyball facility was used as an Olympic training venue. LeAF Campus hosted men’s and women’s international teams from Brazil, Greece, and Great Britain as they prepared to qualify for the London Olympics in 2012.

The courts provide three full size match courts or four training courts and the international players believe it to be one of the best purpose built facilities in Europe.”

Annetta Minard | Executive Headteacher

Blue Flames Sporting Club

Newcastle, UK. 47m x 66m long BVE

Rubb’s flair for architectural details is clearly displayed by Blue Flames Sporting Club’s indoor netball facility at Longbenton, Newcastle upon Tyne.

Blue Flames’ reverse curved roof provided a construction challenge, with Rubb having to ensure a seamless curve on both the steel framework and the PVC cladding.

One of the key features of these indoor netball facilities is the natural light allowed in through the semi-translucent roof. This natural lighting not only saves on energy costs but also provides a lighter, brighter and more appealing sports activity environment than other structures.

The 47m span x 66m long Blue Flames multi sports netball facility stands adjacent to the Newcastle United Indoor Football Centre, another one of Rubb’s premier sports structures.
Rubb has the capability and experience to design, manufacture, deliver and install custom structures.

With Rubb, you can be sure everything is under control from concept to completion - including cost, quality and delivery.

While we generally have the right standard structure available to meet project needs, Rubb can design custom solutions to meet special requirements. We have the in-house resources to provide a cost effective solution customised to our clients’ needs.

**Design**
Using proven engineering software, we can tailor the project to the specific requirements of the site, type of sport and training needs.

**Production**
Steel and membrane components are fabricated to the highest standard under quality guidelines.

**Installation**
Pre-engineered and pre-fabricated to make on-site installation by a Rubb crew, or your crew, go smoothly and efficiently.

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**BVR Structure**
The BVR structure type features rectangular leg and roof box sections. This takes up less space and therefore provides more overall internal clearance.

**BVI Structure**
The BVI structure type features column legs and roof sections. These structures range from widths of 10m to 30m and are available by any length.

**NV Structure**
The NV was the first steel truss span building manufactured by Rubb. The design originated in Norway and has a vertical sidewall, giving it the acronym NV.

**BVE Structure**
BVE structures can be designed with single or multiple roof pitches per span to increase internal volume. Span widths start from 20m to 40m, by any length.

**BVL Structure**
The BVL features vertical lattice frame sidewalls and single or multiple lattice roof pitches per span. Large spans are available from 50m to 100m in width.

**BVC Structure**
The BVC is designed with a vertical column leg and a lattice frame roof. This structure type is commonly used for sports halls. 40m to 100m width spans are available.