Multisport

Innovative fabric buildings

BMT GROUP

Official Representative Of

RUBB Building Systems

Rubb can design, manufacture, and install flexible sport facilities to meet your exact needs.

The design and planning flexibility, speed of construction and durable, cost effective operation of Rubb sports structures provide worldwide sporting sectors, clubs, schools and other organisations with a competitive edge. Rubb can deliver sports hubs, multi-use sports halls, football facilities, netball domes and more, worldwide.

Rubb multisport facilities provide sports organisations, sports departments, and local communities with the ideal playing environment that can accommodate a wide range of activities in one venue.

Multisport facilities incorporate a continuous indoor space, featuring a playing surface suitable for a variety of field and court sports including athletics, football, netball, tennis, volleyball, hockey, lacrosse, Gaelic football, rugby, cricket, basketball, gymnastics and more. This space can be divided up using rebound boards and netting to create playing areas for specific sporting activities.

Advantages

Low maintenance and 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

Translucent membranes allow natural daylight to illuminate the workspace while the white roof surface reflects heat. Thermohall® insulation can minimise heat transfer, prevents condensation and virtually eliminates thermal bridging and air infiltration.

Structure quality

All structures are code complaint, designed to meet wind and snow loadings of its geographical location. Rubb PVC fabric cladding has a manufacturer's warranty of 10 years. Steelwork is hot dip galvanized in post production to eliminate any chance of corrosion, and comes with a 25-year warranty.

Multiple door options

Rubb offers a variety of different building door solutions. They can be selected and designed to suit many size and opening requirements. This flexibility ensures that our clients get the best option for their selected Rubb building type, depending on their operational needs.

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.

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.

Rapid construction, installation, and relocation

Rubb buildings can be quickly erected, dismantled and relocated 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.

Customisable features

Buildings can accommodate all types of door, ventilation and other systems. They can safely support high loads imposed by overhead cranes, ceiling-mounted HVAC and fire-suppression systems, fall-protection equipment, and other superimposed loads.

Comprehensive long-term service

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

University of York

York, UK

Type
BVE

Span
40m

Long
55m

Eaves
5m

Apex
13.4m

Door
RSD

Thermohall®
200mm

This indoor multi sports facility features an apex height of 13.4m and an internal clear centre height of 11.9m. The Mansard, multi-pitch roof provides an 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 with vertical partitians, which can each accommodate a basketball or volleyball court or up to four badminton courts. The facility can also be transformed to create a full hall show court for all sports including basketball, which will be supported by drop-down basketball nets and three scoreboards.

Meadowbank Arena

Magherafelt, Northern Ireland

Type
BVL

Span
70m

Long
145m

Eaves
9m

Apex
17m

Door
RSD

At 70m span x 145m long, with sidewalls of 9m, the complex is the largest of its kind in Europe.

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. Mounted along one side and one end is a 3.2m wide x 205m long, viewing platform comprising 450 stadium seats, five wheelchair refuge points and five staircases which are fully handrailed.

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

We find one of the strongest facets of the building is its versatility.

Magherafelt District Council,
John McLaughlin

Ipswich Academy

Ipswich, UK

Type
BVC

Span
20m

Long
70m

Eaves
7m

Apex
10m

Door
RSD

Thermohall®
100mm

Rubb Buildings Ltd joined forces with construction giant Balfour Beatty to deliver a custom-made sports structure containing a mix of spaces as well as a main sports hall as part of a new £16m academy in Ipswich.

The split level 20m span x 70m long multi 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-aside football pitch.

The 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. Rubb's Thermohall® insulated cladding completes the upper walls and roof.

Rubb were able to offer a design that met our requirements which was affordable and deliverable within the original planning timelines.

Estates & Facilities Manager,
Steve Hawley

Ards Blair Leisure

Newtownards, Northern Ireland

Type
BVE

Span
40m

Long
55m

Eaves
5m

Apex
13.4m

Door
RSD

Rubb worked closely with main contractor Heron Bros Ltd and Ards and North Down Borough Council to supply a 43m span x 59m long multi sports facility. This multi-purpose space has the ability to accommodate a large number of sports including badminton, basketball, football, gymnastics, netball, tennis, trampolining and volleyball amongst others, as well as providing inclement weather cover training facilities in the winter months. In the summer it will host sport classes and has the possibility to also accommodate larger individual events.

The steel frame of the multi sports building is constructed within a 3m high traditional brick perimeter wall which transitions seamlessly with the Rubb fabric sports hall cladding and the main conventional building.

To support multi sports, the Rubb team called upon their experience to design and install internal rebound boards and a full netting system, including court dividers. Completing the exterior of the facility, the Rubb construction team installed gutters, down pipes and vents. As part of the project Rubb also supplied and installed a mechanical ventilation system to create an optimum playing environment.

Paignton College

York, UK

Type
BVE

Span
42m

Long
69m

Eaves
7.5m

Apex
14.6m

Door
RSD

The 42m x 69m BVE community multi sports building, with 7.5m sidewalls, can cater for a wide variety of sports including badminton, netball, basketball, tennis, football, trampolining and hockey. It can be converted to accommodate 12 badminton courts, eight basketball courts, three five-a-side pitches, eight volleyball courts or four tennis courts. The layout is interchangeable.

Paignton Sports College hall features steel clad sidewalls for added security, sidewall gutters for surface water drainage, a ventilation system which provides three-and-a-half air changes per hour, and in a first for the company, an internal lift shaft accessible via a bridge from the car park. The translucent roof provides a natural light and airy atmosphere.

Our PE department is buzzing at a new heightened level, we now have a multi sports hub the size of four normal sports halls completed for us by Rubb.

Head of PE,
David Carpenter

Budehaven School

York, UK

Type
BVE

Span
39.5m

Long
35m

Eaves
7.2m

Apex
14m

Door
RSD

Rubb Buildings Ltd was the main subcontractor responsible for the design, manufacture and installation of the facility at Budehaven Community School, a specialist sports college. Rubb came onboard after main contractor Leadbitter won the contract 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.

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 students and feeder primary schools.

Head Teacher,
Mrs Denise May MBE

St Mary's School

West Dorset, UK

Type
BVE

Span
20m

Long
48m

Eaves
5m

Apex
8.4m

Door
RSD

St Mary's C.E. Middle School opened its new indoor sports facility on July 12th 2012, as the Olympic Torch passed through the town.

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. 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.

Two roller shutter doors provide access to and from the storage area via the hall and outside. Three metre high steel cladding protects the building's external walls. Users can enter and exit the hall through a main entrance at the side of the building or through a changing room access door direct from the school.

ThermoHALL®

Rubb's insulated cladding system

Rubb's patented Thermohall® features a flexible insulated fabric system which offers major advantages over other insulating systems:

- Non-combustible glass wool is encapsulated in air and water tight pockets
- Insulation thickness from 50mm to 150mm
- No air gaps in the cladding, which reduces heat loss and helps eliminate condensation
- Buildings are fully relocatable

Development of Thermohall® started several years ago, with the goal of a new and eco-friendly insulation system. Thermohall® is now fully developed and patented. Thermohall® offers great energy savings and is environmentally friendly—both in fabrication and operation.

- Rubb uses a heavy-duty PVC fabric with a long, useful life and high density, non-combustible glass wool insulation
- All the materials are recyclable. Steel can be recycled through various means and PVC can be recycled through initiatives which are part our operational supply chain and environmental partnerships. The insulation material that Rubb uses is processed from recycled glass
- Rubb Thermohall® structures combine the best properties of both conventional buildings and fabric buildings, high thermal insulation and full relocatablity. All Thermohall® buildings can be delivered to suit our customers' insulation requirements

Thermohall® technical specification

Thickness	U Value (SI) W/m2K	R Value (US) ft-F-hr/BTU
50mm (2in)	0.67 W/m2K	R11
100mm (4in)	0.36 W/m2K	R19
150mm (6in)	0.25 W/m2K	R27

Outer layer

Flame retardant heavy-duty fabric

Inner layer

Self-cleaning PVC fabric

Core

High-density glass wool insulation

Rubb 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 also 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 cargo and logistical needs.

Production

Our steel and membrane components are fabricated with proper equipment and quality control.

Installation

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

Rubb can provide custom designed facilities in a variety of configurations and sizes to suit your specific requirements.

The structure types below are typically used for Rubb's multisport facility projects.

To learn which kind best suits your project, contact the Rubb team today.

BVE

BVE structures feature lattice frame sidewalls and can be designed with single or multiple lattice roof pitches. 20m to 40m span widths, by any length.

BVC

The BVC is designed with a vertical column leg and a lattice frame roof. This structure type offers a large clear internal area. 40m to 100m width spans are available.

BVL

The BVL has vertical lattice frame sidewalls and single or multiple lattice roof pitches per span. Large spans start from 40m to 100m in width, by any length.

BVR

The versatile BVR structure type features rectangular leg and roof box sections. The leg height can be extended for additional interior clearance.

Door options

Rubb offers a variety of different door solutions.

They can be selected and designed to suit many size and opening requirements. This flexibility ensures that our clients get the best option for their selected Rubb building type, depending on their operational needs.

Rubb can supply a wide range of access and industrial roller shutter doors.

Access door

These types of doors are suitable for public and non-public areas. EN 1125 and EN 179 standards apply to push bars and touch bars respectively. All doors and emergency exit doors supplied by Rubb adhere to European product standards. To meet customer requirements, all doors come with CE marking and are ISO 9001 approved.

Roller shutter doors

Commercial off-the-shelf doors, measure up to 10m x 10m, but Rubb can also offer custom door sizes. All doors incorporate a motor driven system, with built in safety mechanisms. Doors can be electrically operated and can be combined with safety devices and traffic lights. All doors can be customised to suit business operations.

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