Liftable buildings

Innovative fabric structures

BMT GROUP

Official Representative Of

RUBB Building Systems

Rubb's liftable buildings are custom designed to suit our clients' needs.

Rubb is a leading provider of tailor-made liftable buildings. We work closely with end users to ensure our building designs incorporate the most efficient use of available space. Rubb has delivered many high-quality liftable solutions around the world.

Rubb's liftable buildings provide the same world renowned high-quality structure with the added design elements which enables the building to be liftable, moveable, extendable and re-locatable to meet your individual requirements.

They are already being used to their full potential in the ship and heavy fabrication industry. The versatility of these structures enable all kinds of work to be carried out whilst under cover with the ability to be positioned and repositioned in multiple locations. The structures are equipped with lifting points providing easy crane connections, allowing the structure to be lifted into position to provide the require cover.

In addition Rubb's liftable buildings can also be designed to be mounted and ran on a track system to provide a perfect solution for large scale production lines or coverage of ships and dry docks.

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

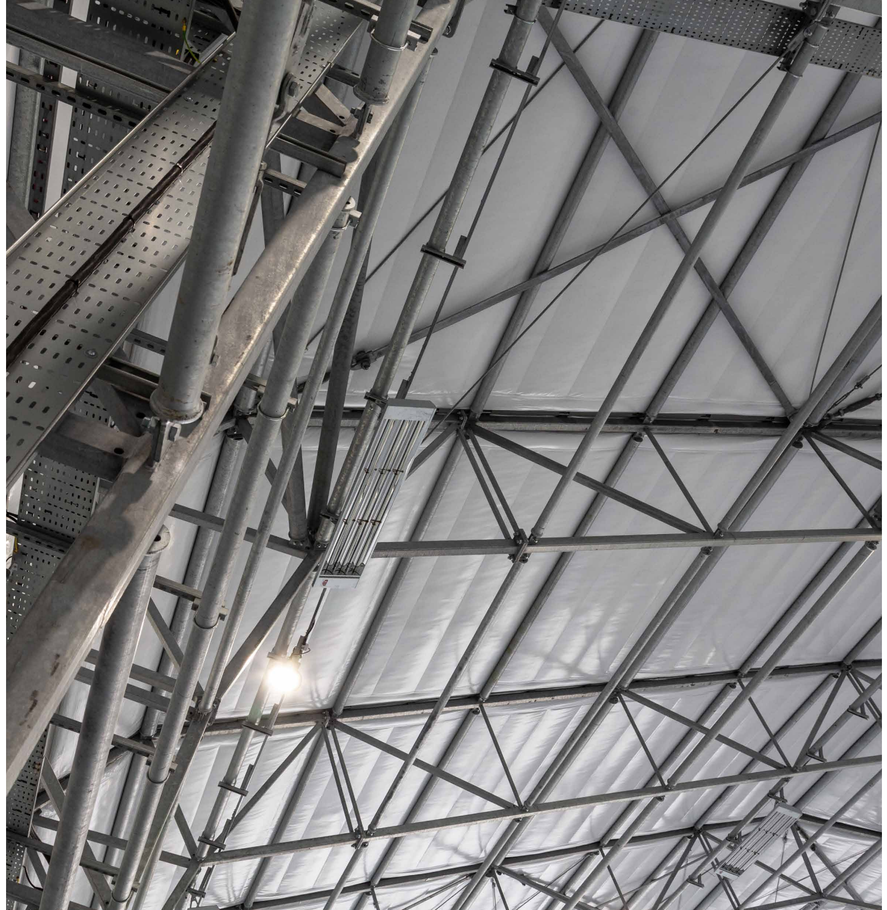
All structures are code complaint, designed to meet wind and snow loadings of its geographical location. Rubb PVC fabric cladding has a manufacturer's warranty of 10 years. Steelwork is hot dip galvanized in post production to eliminate any chance of corrosion, and comes with a 25-year warranty.

Multiple door options

Rubb offers a variety of different 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.

Harland & Wolff

Belfast, Northern Ireland

Type
BVE

Span
30m

Long
35m

Eaves
12.5m

Apex
20.1m

Door
Access

Rubb Buildings Ltd was tasked with designing, manufacturing and erecting two crane liftable buildings to cover offshore pile clusters.

The two marine manufacturing covers feature spans of 30m and each measure 35m in length. To increase the overall internal apex height of the manufacturing bays to 20.2m, H&W asked Rubb to use a 7.3m high wall constructed out of 40ft containers as the building's foundation. A custom designed supporting frame was created to hold the containers together and act as the fixing base for the Rubb BLE structures.

The buildings are designed with reinforced base beams and anchor brackets so they can be easily lifted from their container foundations and moved to one side.

The quality of the workmanship from the design drawings and loading calculations was impeccable and visits to site from design engineers and directors assisted in a smooth program of works.

Harland & Wolff
Chris McNally

Offshore Repairs

Kent, UK

Type
BVI

Span
22.5m

Long
20m

Eaves
5.5m

Apex
8m

Door
3x AFT

This company was investigating a wind turbine blade improvement and upgrade solution which would utilise its offshore jack up vessels.

To make the operation cost effective and efficient, the wind turbine blades had to be modified out at sea and under cover. Doing this would save the time and money usually taken to transport the blades back to shore, and it would resolve the high risk of personnel doing the modifications up at height.

After working closely with the Rubb design team, a viable concept was created. Rubb provided a solution by designing and constructing a bespoke structure on board the specially designed vessel. The new blade improvement facility was fully constructed on the dockside, then lifted with the a 1000-tonne crane into position onto a specially designed platform.

Swan Hunter

Newcastle, UK

Type
NV

Span
27m

Long
45m

Eaves
11.5m

Apex
21m

Door
Open

Originally manufactured by Rubb back in 1982, the two rail mounted liftable structures measuring 27m span x 24m long and 11.5m high sidewalls, were often moved from shipyard to shipyard along the river by barge, and were used to house the ships and frigates being built by Swan Hunter during manufacture.

The structures have since been dismantled and shipped to India where they will continue to be used by the shipbuilding industry.

The hot dipped galvanized steel framework of Rubb structures has proved to be long-lasting and durable — already 40 years old, the structures are still able to preform in the harshest of climates.

The PVC fabric membrane was rolled up and reused once the structures arrived at their new destination.

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 liftable building projects.

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

BVE

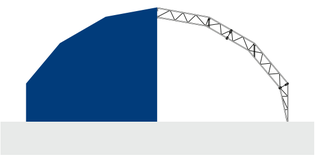
BVE structures feature lattice frame sidewalls and can be designed with single or multiple lattice roof pitches. 20m to 40m span widths, by any length.

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.



NV

The Rubb NV structure type originated in Norway and is designed with a high apex height in mind for maximum storage space.

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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