



RUBB RELOCATABLE military structures

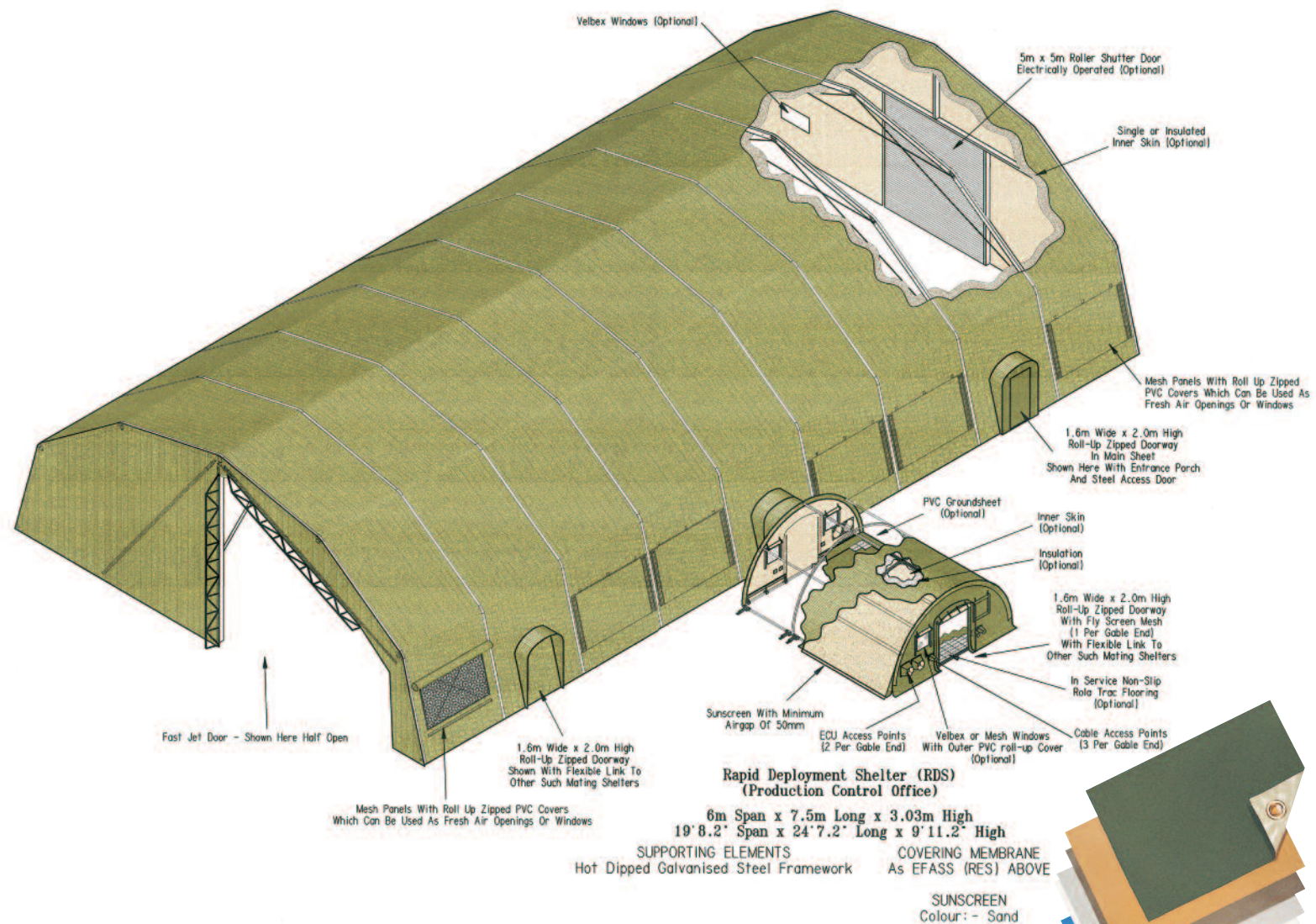
The most versatile buildings and shelters in the world



what's in a Rubb Military Structure? ...total quality

The ability to be rapidly and reliably located at the centre of the action is a key military quality exemplified by the Rubb range of buildings and shelters. Uniquely suitable for armed services, they can be deployed and relocated by air lift to ensure a rapid reaction to emergency situations. They can be erected whatever the terrain and recovered and easily stored after use.

- Very compact space requirement for warehousing.
- Few parts of standard design minimise inventory demands.
- Membrane can be of camouflage, NATO green, UN white or a from a choice of other colours.
- Light weight for easier transportation and erection.
- Can be easily repaired.
- Will not sustain flame spread.



Superior Structural Frame

The backbone of a Rubb Military structure is a well engineered structural framing system. Rubb gets the details right and then provides the best corrosion protection system in the industry.

Efficient Space Utilization

Rubb's truss frame system allows for cost effective clear span space and high vertical walls to suit the requirements of many sports activities. Multi-span Rubb linked buildings cover large areas with a fraction of the columns required for other construction types and provide the opportunity for multiple storage facilities under one roof.

Ease of Installation

Rubb's prefabricated modular design means less on site installation time. A Rubb building frame and cladding for a 100,000 ft² (9,300m²) military cargo facility would require approximately three months for a typical crew to complete.

Translucent Roof Membrane

The use of white translucent roof fabrics provides a light, bright and airy environment. Energy costs are reduced because artificial lighting is usually not required in daytime hours.

High Quality Membrane Fabrics

Rubb uses high strength, heavy weight coated architectural fabrics from proven suppliers. Many Rubb structures are still in use with original membranes after a quarter century of use.

Simple Foundations

Many Rubb structures can be installed with relocatable foundations. Where concrete is required, the structural capability of the Rubb system typically allows for lower foundation costs than with other building types.

Suitable for Difficult Sites

The flexible membrane and steel frame design of a Rubb building allows installation on uneven or sloping sites. The buildings also accept moderate differential settlement common on sites with filled land without the need for pilings.

Complete Environmental Control

Rubb military structures can be effectively insulated, heated or air conditioned to provide a perfect operating environment no matter what the weather is outside.

Fire and Life Safety

Rubb buildings offer proven fire performance advantages over other building types.

Low Lifetime Maintenance

The use of higher quality membrane materials and the rugged, post production galvanized welded frame of a Rubb building ensure a long, low maintenance service life. Rubb buildings are noted for their reliability and durability over time.

Long Term Service

Rubb's commitment to customer service continues after project completion and forms the basis for long term customer satisfaction.



Rapid installation of a Rubb RES Type shelter, which can be installed in matter of hours.



Rubb Military Buildings and Shelters from Around The World

Major benefits

Rubb buildings and shelters provide major advantages over other structures. They can be cost effectively extended or reduced in size or even relocated to another site to respond to changing logistical considerations. For military aviation, rapid installation in almost any environment or terrain can be of vital importance.

Rubb hangars are also a functional solution for smaller aircraft and helicopters in demanding terrain and climates where space is limited or relocation anticipated.

- Bright, efficient and safe working environment.
- Extremely low lifetime maintenance cost.
- Space and resource efficient.
- Quickly erected or dismantled and relocated.
- Dependably engineered and manufactured.
- All welded fabrications post production hot dip galvanized.
- Air transportable for quick deployment.
- Proven in use with Armed Forces around the world.

RDS Type shelters used as a military camp by the British Military Forces - includes fully operational communications centre.



Shelters...

Rubb Buildings unrivalled skills and experience in the shelters market have enabled us to design and fabricate a hi-tech product to satisfy the exacting demands required for a variety of climate conditions. The RDS and RES structure ranges have been developed to provide a simple, rapid response to changing logistical requirements providing ideal shelters for today's armed forces.

Rubb's broader range of relocateable buildings and shelters also meet the demands of the military and are in widespread use in such applications as military warehousing, hangers and a large number of speciality operations.



RDS Type

RDS (Rapid Deployment Shelters) are based on standard widths and can be supplied by any length in multiples of 10'. The structural frame is made of very strong but lightweight aluminium or steel. The RDS form is incredibly versatile and can be used for a wide range of applications, including housing and storage operations. They can be interlinked to make field headquarter complexes. The system can be fully erected in matter of hours by a team of four, and can be supplied in kit form to be erected without special skills or tools. Electrical and climate kits are also available.

THA/THB Type

Standard TH and THA range shelters are available in standard spans up to 42 feet in width. These shelters have an integral base angle foundation that can be secured to virtually any ground surface with a variety of anchoring methods. Structures can be brought conveniently by air for rapid use. A camp can be erected in a few hours, as the shelters only require simple hand tools and minimal support equipment for installation and pack to a small volume for efficient storage.



RES type...

The RES (Rapid Environmental Shelter) is designed to accommodate individual fixed wing or helicopter aircraft in a state of maximum readiness and can be erected on difficult terrain. Its full end-opening "Trident" door speeds up aircraft deployment. The framework is high-grade aluminium and the fabric membrane provides fire safety advantages. The RES comes with optional lighting equipment, ventilation fan, ducts, insulated fabric panels and full blackout capability.



Above: RES Type, Quick to relocate and erect anywhere in the world to maintain and keep aircraft combat ready 24/7.
Span: 67' (20.5m) x Length 105' (32m) with 13' (4m) sidewalls.

Left: RES Type, (single span) RAF Marham, UK.
Span: 67' (20.5m) x Length 105' (32m).

Below: REH Type, RAF base in South Wales, UK.
Span: 75' (23m) x Length 118' (36m).

REH type...

In remote or hostile areas the go-anywhere REH (Rapid Erect Hanger) can be erected by a minimum workforce of eight without the aid of a crane or heavy lifting equipment. The high proportion of interchangeable parts ensures easy erection in most conditions. For convenience, all components (including accessories such as lights and winches) arrive complete in just one 20ft standard container. The Rapid installation and adaptability to difficult terrain conditions provide an operational advantage and can be fully in use in just 10 hours. The shelter has a full width door for unimpeded, rapid deployment. Rubb's REH shelter is designed for higher snow loads than most aluminium frame hangers.



NV type...

Rubb, NV Type shelters are designed for applications requiring competent, quickly delivered and erected weather protection. While the RDS and RES range shelters can be supplied to building code, most shelter range products are not designed to formal code standards. For these products, Rubb uses destruction testing and thirty plus years of field engineering experience to design shelters that will withstand all but the worst weather conditions. The NV Type shelter is fully relocateable, either on the same site by crane without being dismantled, or packed away in the back of a truck to be transported to another site.



Top: NV Type, USAF, Germany.
Used as a medical stores facility.
Span: 50' (15m) x Length 197' (60m).

Above: NV Type, RAF Lossiemouth, Scotland, UK. Sports Hall linked to existing building.
Span: 65'. 6' (20m) x Length 131' (40m).

Left: NV Type (single span), RAF Military Base, Saudi Arabia.
Span: 65.6' (20m) x Length 78.7' (24m).

Below: Sunshade, RAF Military Base, Italy.
Span: 60' (18m) x Length 60' (18m).

Below Left: BVE Type, (single span) RAF Kinloss, Scotland, UK. Hanger for Nimrod aircraft, it is fully relocateable should the need arise.
Span: 131' (40m) x Length 197' (60m).

Large structures...

Rubb Buildings offer several ranges of buildings. The various designations such as BVE, NV and AVC refer to differing roof shapes and sidewall configurations. In addition to single clear span buildings, Rubb also offers multiple span, linked buildings. These structures can be virtually any width required and have minimal interior columns as compared to alternative construction types.



Sunshades...

These simple but effective structures are ideal in hot climates for protecting aircraft and keeping maintenance staff cool when working in the heat of the day. The all white, translucent or blackout, high UV resistance fabric helps reflect heat.

Dependability...

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. And 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 customized to our clients' needs.

- Design – Using proven engineering software we can tailor the project to the specific requirements of site, type of cargo and logistics needs.
- Production – Steel and membrane components are fabricated with 'first class' 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.

Peace of mind when you choose a Rubb Structure...

Rubb structures are designed, manufactured, installed, serviced and warranted by the companies of the Rubb Group. Rubb's expertly engineered product design and the highest quality materials are backed by over forty years' experience worldwide. More importantly, Rubb has a reputation for accountability and for providing practical solutions to weather protection problems of all kinds.

Our buildings are designed, manufactured and erected to ISO 9001/2000 standards and meet international building code standards for wind, snow and seismic loads.

After-sales service includes repairs and any further adaptation, relocation or refurbishment work. So your peace of mind extends well into the future.



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we will never stop innovating



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