



Buildings & Housings

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Founded in the UK in 1959, over the last 65+ years we have grown into a successful worldwide brand.

Distributed in 100+ countries

Turnover c.£40m

260+ staff in UK, France & USA

B2B Dealing with Government funded sectors and with private and public companies worldwide.



The Environment is at our Core

We are passionate about our environment and are committed to continuously improving our environmental performance. Our goal is to drive lasting change to improve all of our futures, not only by improving our own processes but by providing our customers with the products to enable them to improve theirs.



Quality by Design

Our mission is to design, manufacture and supply innovative market-leading products that enable our customers to contribute towards a cleaner, safer and more sustainable environment.



Modular Buildings



Glasdon have over 50 years' specialist experience in the supply, delivery and installation of customer-specified modular buildings for applications including visitor gatehouses and checkpoints, office accommodation and control rooms, vending booths, and security cabins. A modular approach enables a wide range of building configurations to meet specific project requirements.

NEW Accord™ Specification-led Buildings

Built around your vision

Accord™ is a single-storey, steel-framed building module that combines the efficiency of off-site manufacture with the flexibility of a specification-led approach.

Built around your brief, Accord's layouts, openings, facades, finishes and thermal requirements can all be tailored to your project specifications.

Its hot-rolled steel frame provides strength, longevity, and dimensional precision, with external cladding tailored to support contemporary, traditional, and brand-led architectural visions.

Contact us to start
your specification
today





For more product details, scan or click the QR code to see Accord online.



Flexible by Nature

Accord™ is suited to projects where your design intent matters as much as delivery:

- **Security gatehouses**
- **Customer-facing reception spaces**
- **Retail pop-ups**
- **Car hire offices**
- **Sales and marketing suites**
- **Compact office environments**

Buildings are supplied as self-contained units (up to 10m x 3m), manufactured off-site and delivered ready for efficient installation.

A Specification-Led Approach

Accord™ supports two ways of working:

1

Defined Specification

Full drawings and performance requirements are provided.

2

Design Intent

Concept designs are developed into a fully engineered solution.

In both cases, the outcome is the same: a building engineered around your brief.

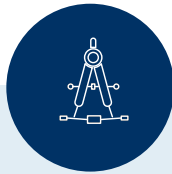
From Concept to Delivery



Stage 1

Define

- Drawings, specifications, finishes and performance requirements reviewed.
- Feasibility confirmed and vision aligned.
- Performance specifications, M&E requirements and lead times assessed.



Stage 2

Specify

- Co-ordinated proposal drawings developed, incorporating layout, openings and configuration.
- Formal quotation issued.
- Revisions managed collaboratively.



Stage 3

Approve

- Order placed.
- Production drawings issued for formal sign-off.
- Specification finalised prior to manufacture.



Stage 4

Deliver

- Building module manufactured off-site in a controlled environment.
- O&M and as-built documentation prepared.
- Delivery completed by our specialist team.

(Detailed process available upon request)

A managed process - Clear stages - No ambiguity





■ Beacon™

DESIGN FEATURES

- A structurally qualified aluminium extrusion system provides a flexible, robust framework for the composite wall panels, fixed glazing, and aluminium door and window options.
- A matching aluminium fascia provides an aesthetic finish to the structurally insulated panel (SIP) roof system, complete with an EPDM membrane for excellent weather resistance.
- The integral gutter and rainwater management system benefits from concealed downpipes to low-level outlets within the corner posts.
- Excellent levels of insulation with double glazing supplied as standard.
- Fully insulated composite floor panel supported by a preservative-treated timber plinth and finished with slip-resistant vinyl flooring.
- Attractive and functional vinyl-faced wallpaper and a decorative suspended ceiling system help to provide a comfortable and pleasant working environment.
- An extensive selection of panels and options allow bespoke layouts to be created.

MATERIALS & CONSTRUCTION

Beacon features high-quality modern building materials and components that minimise future maintenance costs whilst offering long life expectancy and operational use. The aluminium framework is available in standard silver anodised or anthracite grey polyester powder-coated finishes, colour-matched to the high-performance, pre-finished steel facings of the composite wall panels. Alternative colours are available on request.

SIZES & LAYOUTS

Although offered with standard panel increments of 0.61, 1.22 and 2.44m, Beacon buildings can be manufactured to any specific size within the maximum length and width dimension offered.

DELIVERY & INSTALLATION

To keep installation time to a minimum and avoid major site disturbance, Beacon buildings are normally transported in fully assembled form and offloaded by a crane equipped vehicle or site crane. Should your site circumstances change, these buildings can also be relocated.

SPECIFYING

Please contact our Sales Office, who will be happy to assist with specifying your building.

Beacon buildings are normally ordered in sketch plan form with panel and optional feature references marked as appropriate. See example below.

**NOMINAL INTERNAL SIZES
(LENGTH x WIDTH)**

2.44m Widths

1.22m x 2.44m	1.22m x 3.66m
2.44m x 2.44m	2.44m x 3.66m
4.88m x 2.44m	3.66m x 3.66m
6.10m x 2.44m	4.88m x 3.66m
7.32m x 2.44m	6.10m x 3.66m
8.54m x 2.44m	7.32m x 3.66m

3.05m Widths

1.22m x 3.05m
2.44m x 3.05m
3.66m x 3.05m
4.88m x 3.05m
6.10m x 3.05m
7.32m x 3.05m

The overall external framework size of a Beacon building is 200mm greater than the nominal internal size, e.g. a 2.44 x 3.66m building is 2.64 x 3.86m.

Beacon buildings can also be manufactured to any specific length or width within the maximum size of 7.32m x 3.66m.

STANDARD RANGE

Choose between silver grey wall panels with a natural anodised aluminium framework, and anthracite grey wall panels with matching polyester powder-coated framework.

NON-STANDARD RANGE

Bespoke colours and finishes are available to suit corporate branding. Choose from a range of pre-finished steel panels and an extensive selection of RAL and BS 4800 colours to create matching or contrasting aesthetics.

Beacon buildings are normally delivered in approximately 8 weeks depending on specification.

PITCHED ROOF

The external roof system comprises:

- Structurally Insulated Panels (SIPs) with perimeter fascia.
- An EPDM roof membrane.
- Integrated guttering and downpipe system.
- Decorative suspended ceiling.

The internal/undercover roof system comprises:

- Fully insulated composite panel.
- Flexible-sheet roof covering.
- Decorative vinyl internal finish.

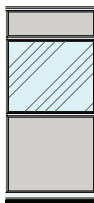
PANELS NOMINALLY 0.61m, 1.22m AND 2.44m WIDE

BN1



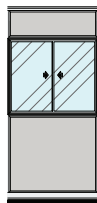
Blank

BN2



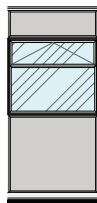
Fixed Window

BN3



Heavy-Duty Horizontal Sliding Window

BN4



Fixed / Top-Hung Opening Window

BN5



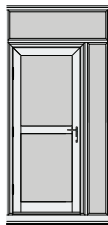
High-Level Fixed Window

BN6



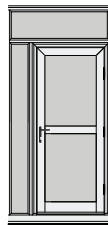
High-Level Top-Hung Opening Window

BN7/L



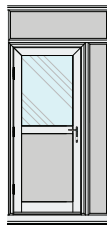
Outward Opening Offset Blank Door (L.H.H)

BN7/R



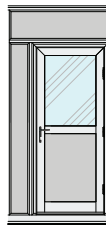
Outward Opening Offset Blank Door (R.H.H)

BN8/L



Outward Opening Offset Half-Glazed Door (L.H.H)

BN8/R



Outward Opening Offset Half-Glazed Door (R.H.H)

BN9



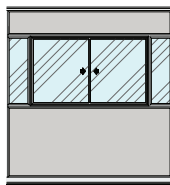
Blank

BN10



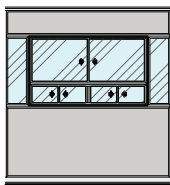
Fixed Window

BN11



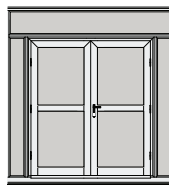
Heavy-Duty Horizontal Sliding Door

BN12



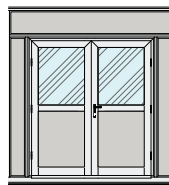
Multi-Opening Horizontal Sliding Window

BN13



Outward Opening Blank Double Door

BN14



Outward Opening Half-Glazed Double Door

OPTIONAL FEATURES

GLAZING

- Ref. 8** Anti-Sun solar control glass (Grey)
Ref. 10 Obscure glazing
 Textured toughened glass.

EXTERIOR FITTINGS

- Ref. 12** External security shutters
 High-quality, externally fitted security roller shutters with powder-coated finish.
Ref. 18 External shelf (420mm projection)
Ref. 19 External canopy (620mm projection)

INTERIOR FITTINGS

A selection of internal fixtures and fittings can be supplied to satisfy your needs. These include worktops, cupboards, and welfare & toilet facilities as appropriate. Please discuss your requirements with our Sales Team.

ELECTRICS

- Ref. 4A** Standard electrical installation
 Consisting of light fitting, light switch and double 13A switched plug point, all wired to consumer unit ready to receive mains supply.
Ref. 4LF Additional light fitting
Ref. 4PP Additional double 13A switched plug point
Ref. 11 Electric heater
 Panel convactor heater complete with integral thermostat.
 Air conditioning (comfort heating and cooling) can be added, subject to design parameters.

VENTILATION

- Ref. 5** Hit and miss ventilator
 Outer stainless-steel louvre with internal register (230 x 150mm). For fitting to panels and doors.
Ref. 6 Electrically operated ventilator
 Wall-mounted extractor fan.
 Extractor rate 260m³/hr.

MISCELLANEOUS

- Ref. 13** Removable floor panel for services access
 300 x 300mm (260 x 260mm clear opening) as standard.
Ref. 15 Internal partitioning
 Composite panels with foam core, plywood skins and decorative vinyl finish.
Ref. 16 Laminate internal surface
 Light grey laminate to internal surfaces of walls to provide hard-wearing easily cleaned finish.
 Alternative colours available on request.

TECHNICAL INFORMATION

CONSTRUCTION

82mm thick, fully insulated composite wall panels held in anodised or powder-coated aluminium framework.

WALLS

Panel comprising of pre-finished steel external facings/plywood/insulation foam/plywood and decorative vinyl internal finish.

ROOFS

The external roof features a mono-pitched Structurally Insulated Panel (SIP) roof construction. An exterior EPDM roofing membrane is dressed behind the aluminium perimeter fascia for watertight protection and includes an integrated rainwater management system. Internally, the roof is finished with a decorative suspended ceiling system.

The internal / undercover roof features an 82mm thick insulated composite flat roof with a flexible sheet covering and a decorative vinyl paper finish to the underside.

FLOORS

Insulated composite panel panels with a 57mm thick XPS core between 12mm plywood layers. Floors are finished with sheet-welded, 2mm thick, slip-resistant vinyl and have a vapour barrier to the underside.

GLAZING

Standard glazing is generally 4mm thick clear toughened glass supplied in 28mm thick double-glazed units—with both for fixed glazing and opening windows—with the exception of the horizontal-sliding window, which accepts a 14mm thick double-glazed unit.

DOORS

Single- or double-door configurations fitted to open either inwards or outwards. The single doors can be hinged on the left or right. All doors are fitted with a multi-point locking arrangement, aluminium door furniture, and door closer.

EXTERNAL SECURITY SHUTTERS

Security roller shutters fitted externally. Polyester powder-coated aluminium shutters are available and are colour-matched to the building.

THERMAL INSULATION 'U-VALUE'

Composite Walls = $0.43\text{W/m}^2\text{ }^\circ\text{C}$

Composite Floor = $0.30\text{W/m}^2\text{ }^\circ\text{C}$

Roof Construction = $0.17\text{W/m}^2\text{ }^\circ\text{C}$

SOUND REDUCTION

A 'typical' building will have sound reduction up to 15dB depending on source, sound level and frequency of prevailing noise.

FIRE RATING

The pre-finished steel external skins of the composite wall panels have been tested to BS EN 13823 and BS EN ISO 1716, achieving an A1 rating in accordance with BS EN 13501-1. Internally, the vinyl-faced wallpaper has a rating of Euroclass B-s1, d0 and the suspended ceiling has a rating of Euroclass A2-s1, d0.

COLOURS

External: Standard colour combinations: silver grey wall panels with natural anodised aluminium framework or anthracite grey wall panels with matching polyester powder-coated framework to RAL7016.

Internal: White ceiling, light-grey vinyl papered walls, and grey vinyl flooring.

DELIVERY

Beacon buildings are delivered fully assembled and offloaded by a crane-equipped delivery vehicle, ideally straight onto the customer's prepared pre-cast concrete base.

WEIGHTS (APPROXIMATELY)

UNIT SIZE	WEIGHT
2.44m x 2.44m	940kg
4.88m x 2.44m	1550kg
7.32m x 2.44m	2160kg
2.44m x 3.05m	1245kg
4.88m x 3.05m	1850kg
7.32m x 3.05m	2890kg
1.22m x 3.66m	940kg
2.44m x 3.66m	1330kg
4.88m x 3.66m	1720kg
7.32m x 3.66m	2900kg

BASE REQUIREMENTS

The minimum concrete foundation dimensions are 200mm larger than the internal building dimensions. e.g. a 2.44 x 3.66m building is 2.64 x 3.86m.

Where no suitable surface exists, the base should consist of a minimum of 125mm thick concrete over well-consolidated hardcore.

The concrete should be a minimum of C20/25 grade in accordance with BS 8500 Concrete: the Complementary British Standard to BS EN 206-1. The base should be flat, level, and square; ideally, it should be raised slightly above the surrounding ground level.

BASE FIXING

Beacon buildings are built to be secured to a concrete base using M10 through-bolt anchors, which pass through the composite floor panel and treated timber plinths. The quantity of fixings is scaled to the building's dimensions. For ease of installation, holes have been pre-drilled and are marked by black plastic cover caps, which should be replaced once the anchors are secured. Refer to the instructions supplied with the fixings for correct installation as per the manufacturer's recommendations.





■ Consul™

DESIGN FEATURES

- Insulated wall and roof panels help to reduce heat loss during the winter months and heat gain in the summer months.
- A thermally broken aluminium framework helps to prevent condensation.
- An integral rainwater management system provides effective roof drainage to ground level.
- Insulated composite floor panels complete with a vapour barrier to the underside protect against rising damp and heat loss.
- Half-height windows improve site security surveillance.
- A decorative internal wall lining and suspended ceiling system create a pleasant working environment.
- The suspended ceiling system creates a roof void for electrical services and lighting installations.
- Excellent adaptability to suit numerous applications.

MATERIALS & CONSTRUCTION

Minimal maintenance costs due to corrosion-resistant plastic-coated steel wall, aluminium fascia and GRP roof panel external finishes.

SIZES & LAYOUTS

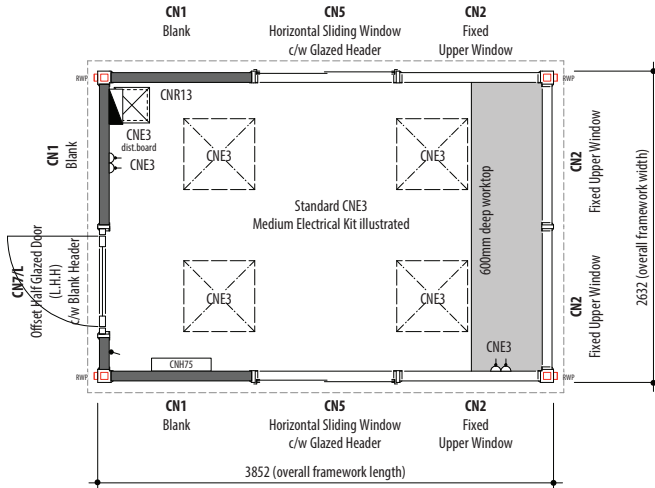
Consul is available in 11 standard sizes with Internal footprints from 1.22 x 2.44m up to 7.32 x 3.66m. 9 panel variations give a choice of layouts to suit specific requirements.

DELIVERY & INSTALLATION

Delivered pre-assembled for ease and speed of installation. Short lead-time from order to delivery due to the modular construction of the building.

SPECIFYING

EXAMPLE SKETCH PLAN OF HOUSING SIZE 3.66 x 2.44m



Please use the following sequence to specify your Consul building, or call our Sales Team, who will be happy to assist.

- 1) Select your Consul size. This determines how many panels you need to choose.
- 2) Select your panels from the options below. (Please see the housing sizes list for number of panels required for your building)

Size	Number of Panels
1.22 x 2.44	6
2.44 x 2.44	8
4.88 x 2.44	12
6.10 x 2.44	14
7.32 x 2.44	16

Size	Number of Panels
1.22 x 3.66	8
2.44 x 3.66	10
3.66 x 3.66	12
4.88 x 3.66	14
6.10 x 3.66	16
7.32 x 3.66	18

- 3) Illustrate your building panels layout by sketch plan, paying attention to positioning of doors, vents, windows and access panels.
- 4) Choose any optional features required.

DIMENSIONS

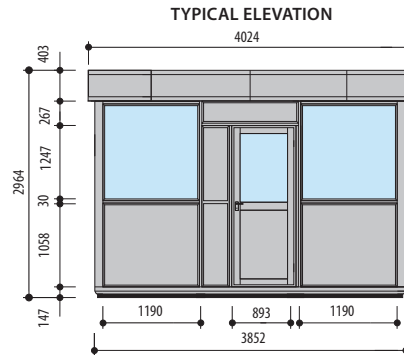
The overall external framework size of a Consul building is 192mm greater than the nominal internal size, e.g. a 3.66 x 2.44m building is 3.852 x 2.632m.

Consul buildings are available with one of two roof systems: a GRP pitched roof for external locations, or a flat roof for internal or undercover locations.

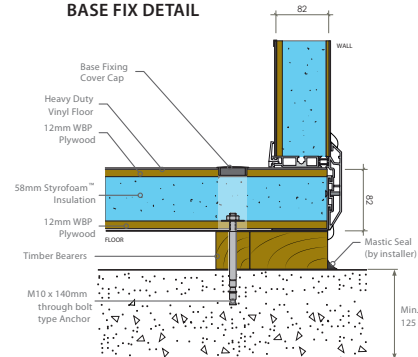
Pitched Roof

The external roof system comprises:

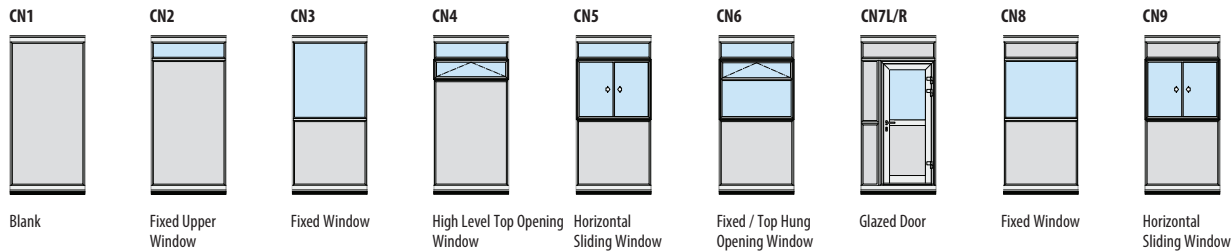
- Fully insulated GRP pitched roof with perimeter fascia
- Integral rainwater gutter and downpipe arrangement
- Decorative suspended ceiling



BASE FIX DETAIL



PANELS NOMINALLY 1.2m WIDE



OPTIONAL FEATURES

ELECTRICS

Standard Electrical Installation

Standard electrical kits consisting of lighting, light switch, double 13 amp plug points, all wired to consumer unit ready to receive mains supply.

Additional plug point

An additional 13 amp switched double plug point.

Data socket

An unwired data socket ready for local connection to telecom networks.

Heater

An electric convector heater for wall mounting, wired integrally to a fused switch. Heater output will vary subject to building size.

Lighting

Standard lighting kits provide a 300-500Lux illuminance in accordance with Lighting Guide 7 (2005) : Office Lighting.

PARTITIONING

Internal wall partitioning can be specified in 1.2m standard lengths.

EXTERNAL GRP CANOPY

A 1m wide external canopy with a 620mm external projection is available to provide coverage to panels CN7, CN8 and CN9.

WORKTOPS

600mm deep worktops can be specified in 1.2m increments of length up to a maximum single length of 3.6m. Alternate depths of 300mm and 900mm are also available.

CUPBOARD UNITS

Cupboard door finish is available in Matt White.

Under-worktop floor-mounted cupboard units with a single dividing shelf:

- Single 600 x 600mm
- Double 1200 x 600mm
- Single four-drawer unit 600 x 600mm

Wall-mounted cupboard units with a single dividing shelf:

- Single 600 x 290mm
- Double 1000 x 290mm

TECHNICAL INFORMATION

COMPOSITE WALL PANELS

The 82mm composite wall panels are constructed from 4mm outer and 9mm inner WBP plywood with an external weather-resistant plastic-coated steel skin. The panels are insulated with a 68mm Styrofoam core. The internal face of the panel is finished with a high-quality flame-retardant decorative vinyl.

EXTRUDED ALUMINIUM FRAME

Consul buildings are constructed from an extruded aluminium framework system, which is bolted together to form a robust skeletal structure. The aluminium extrusions feature a Polyamide thermal break, which is 1000 times less conductive than aluminium and minimises heat transfer through the structure. As a result, the building internal temperature is better regulated and the risk of condensation is reduced.

ALUMINIUM FASCIA, ROOF AND GUTTER SYSTEM

GRP Roof and aluminium fascia panels are fixed together and sealed using a resin system to provide a waterproof gutter channel for rainwater management. Rainwater from the roof is channelled along the gutter to integral rainwater downpipes located within the corner post extrusions, which allows rainwater to flow down and discharge adjacent ground level. Stainless-steel grilles are fitted at gutter level above the integral rainwater downpipes to filter out leaves and other debris, helping to maintain free-flowing drainage. A 'telltale' overflow is provided in the fascia panel above the door to indicate if the gutter grilles have become blocked and need to be cleared. If there is an obstruction within the rainwater

management system, then the 'telltale' will drip, indicating that the roof and gutter system need attention.

The fascia is fabricated from aluminium panels with Armortec® coating*, which are bolted together with joints appropriately sealed. Roof and fascia panels are insulated to help prevent condensation.

TIMBER PLINTH BASE

The floor is constructed on a treated timber plinth, which raises the composite floor panels off the ground. The floor is underlain with a water-resistant membrane to minimise the risk of water permeating from beneath the building.

DOORS

Aluminium single doors can be either left- or right-hand hung. Doors are outward-opening and fitted with aluminium handles and hinges, together with multi-point locking systems for increased security.

GLAZING

Double glazing as standard.

COLOURS

External Wall Panel: Goosewing Grey (10-A-05)
External Fascia Panel: Goosewing Grey (10-A-05)
Frame: Natural Anodised Aluminium
Roof: Dark Grey

BASE FIXING

Base fixing by our customers is achieved using M10 anchor bolts through the composite floor panel and timber floor bearers into a concrete base. The number of fixings required varies depending on the dimensions

of the building. Base fixing positions are protected by cover caps located in the floor once base fixings have been installed. Refer to the instructions supplied with the fixings for correct installation in accordance with the manufacturer recommendations.

BASE REQUIREMENTS

The minimum base size required is equal to the overall building size. The nominal building sizes are based on internal dimensions. External dimensions are 192mm larger and concrete bases should be provided to this size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hard core.

The concrete should be of minimum C20/25 grade in accordance with BS 8500 Concrete:

The complementary British Standard to BS EN 206-1. The base should be flat, level and square preferably raised slightly above the surrounding ground level.

***Armortec®** corrosion-resistant coating is specially formulated to extend the life of Glasdon metal products and components used externally.





Warrior™

DESIGN FEATURES

- Available with a pitched roof for outdoor siting or a flat roof for internal applications.
- Plastic-coated steel exterior panels with a robust, corrosion-free aluminium framework.
- Can be configured in sizes from 1.22 x 1.22m to 7.32 x 2.44m.
- Delivered fully assembled and offloaded by crane.
- Can be manufactured in other shapes, e.g. octagonal.
- The building can be relocated at a future date if required.

MATERIALS & CONSTRUCTION

With minimal future maintenance and long-term durability as key considerations, the wall panels are manufactured with a tough plastic-coated steel exterior and held within a robust aluminium framework.

SIZES & LAYOUTS

Warrior buildings can be specified from an extensive range of panels to meet your particular size specifications ranging from 1.22 x 1.22m up to a maximum of 7.32 x 2.44m. As well as conventional quadrilateral layouts they are also available in other shapes, e.g. octagonal. A wide choice of optional features is available for lighting, heating, glazing and ventilation.

INTERNAL APPLICATIONS

The versatility of the Warrior system means that the standard pitched roof can be substituted with a flat roof for internal applications.

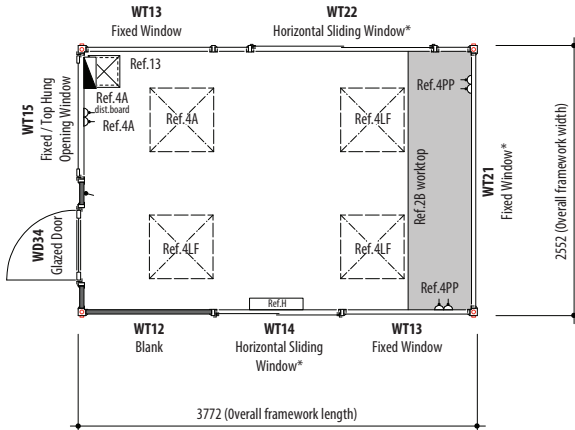
DELIVERY & INSTALLATION

To minimise installation time and avoid major site disturbance, Warrior buildings are normally transported in fully assembled form and offloaded by crane. Should your site circumstances change, they can also be relocated.

SPECIFYING

Please contact our Sales Office who will be happy to assist with specifying your building.

Warrior buildings are normally ordered in sketch plan form with panel and optional feature references marked as appropriate. See example below.



* Ref. 20 Heavy-duty horizontal sliding window option available

DIMENSIONS

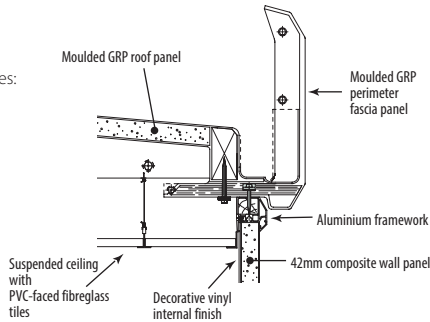
The overall frame size of a Warrior building is 112mm greater than the nominal internal size, e.g. a 3.66 x 2.44m building is 3.772 x 2.552m.

Warrior buildings are supplied in two alternative roof systems: the GRP pitched roof system is for external locations and the flat roof system for internal/undercover locations.

PITCHED ROOF

The external roof system comprises:

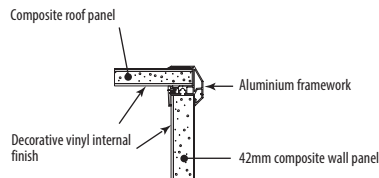
- Fully insulated GRP pitched roof with perimeter fascia
- Integral rainwater gutter and downpipe arrangement
- Decorative suspended ceiling



FLAT ROOF

The internal/undercover roof system comprises:

- Fully insulated composite panel
- Flexible-sheet roof covering
- Decorative vinyl internal finish



STANDARD BUILDING SIZES

NOMINAL INTERNAL SIZES (LENGTH X WIDTH)

1.22m Widths	2.44m Widths
1.22 x 1.22m	2.44 x 2.44m
2.44 x 1.22m	3.66 x 2.44m
3.66 x 1.22m	4.88 x 2.44m
	6.10 x 2.44m
	7.32 x 2.44m

Please note that Warrior buildings can be manufactured to meet any specific size requirements within the maximum dimensions of 7.32m (length) and 2.44m (width).

AVAILABILITY

Warrior buildings are normally delivered in approximately 6-8 weeks depending on specification.

COLOURS

STANDARD RANGE

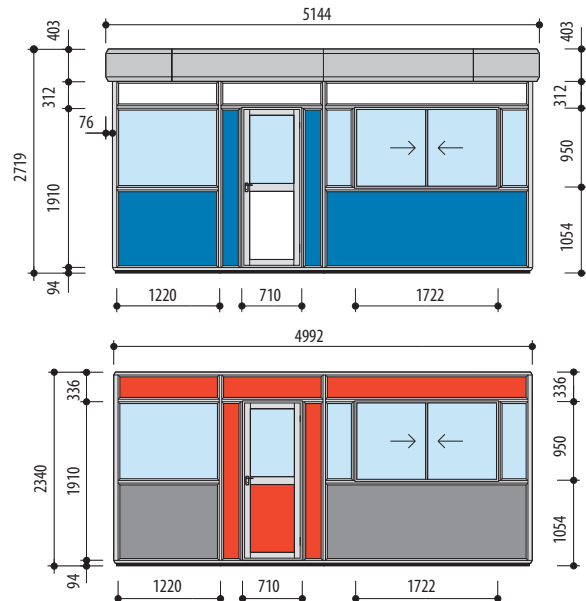
The standard external colour scheme comprises Moorland Green (equivalent to BS 4800 12.B.21) for the walls, Light Grey (BS 4800 00.A.05) for the pitched roof perimeter fascia; and a natural anodised finish to the aluminium framework.

NON-STANDARD RANGE

To harmonise with existing architecture and corporate themes, alternative wall panel colours are available at additional cost:

Anthracite	RAL 7016
Goosewing Grey	RAL 7038
Chilli Red	RAL 3000
Solent Blue	RAL 240 40 40
White	RAL 9003

A contrasting or similar colour for the perimeter fascia and/or powder-coated framework can also be chosen at an additional cost.



PANELS NOMINALLY 1.22m AND 2.44m WIDE



*Please see 'Optional features - Glazing' section

OPTIONAL FEATURES

GLAZING

- Ref. 8 **Anti-sun solar control glass (Grey)**
- Ref. 9 **Double glazing**
Hermetically sealed toughened glass units.
- Ref. 10 **Obscure glazing**
Textured toughened glass.
- Ref. 20 ***Heavy-duty horizontal sliding window**
Available as alternative in WT14 and WT22 panels.

EXTERIOR FITTINGS

- Ref. 12 **External security shutters**
High-quality, externally fitted security roller shutters with powder-coated finish.
- Ref. 18 **External GRP shelf (420mm projection)**
- Ref. 19 **External GRP canopy (620mm projection)**

INTERIOR FITTINGS

- Ref. 2A **1220mm long worktop**
- Ref. 2B **2440mm long worktop**
All worktops are 32mm thick laminate-faced chipboard 600mm deep.
- Ref. 13 **Removable floor panel for services access**
- Ref. 15 **Internal partitioning**
Composite panels with foam core, plywood skins and decorative vinyl finish.

ELECTRICS

- Ref. 4A **Standard electrical installation**
Consisting of light fitting, light switch and double 13A switched plug point. All wired to consumer unit ready to receive mains supply.
- Ref. 4LF **Additional light fitting**
- Ref. 4PP **Additional double 13A switched plug point**
- Ref. 11 **Electric heater**
Panel convector heater complete with integral thermostat.

VENTILATION

- Ref. 5 **Hit and miss ventilator**
Outer stainless-steel louvre with internal register (230 x 150mm), for fitting to panels and doors.
- Ref. 6 **Electrically-operated ventilator**
Wall- or roof-mounted extractor fan. Extractor rate 260m³/hr.

MISCELLANEOUS

- Ref. 16 **Laminate internal surface**
Light Grey laminate to internal surfaces of walls to provide hard-wearing, easily cleaned finish. Alternative colours available on request.

DOORS

- Ref. 21 **Heavy-duty doors**
For high usage, the standard aluminum-framed doors can be upgraded to a heavy-duty version with door closers.

TECHNICAL INFORMATION

CONSTRUCTION

Patented system with 42mm thick fully insulated composite panels held in natural anodised aluminium framework.

WALLS

Panel comprising of plastic-coated steel external face/foam/plywood and decorative vinyl internal finish.

ROOFS**EXTERNAL VERSION:**

Fully insulated GRP pitched roof and perimeter fascia with an integral rainwater gutter and downpipe arrangement and a decorative suspended ceiling.

INTERNAL VERSION:

Composite panel comprising of flexible sheet roof covering/plywood/foam/plywood and decorative vinyl internal finish.

FLOORS

Panel comprising of 2mm heavy-duty vinyl floor covering on exterior grade plywood with vapour barrier and insulation to underside, supported by treated softwood plinth and bearers.

GLAZING

Generally in 4mm thick clear toughened glass, increased to 6mm thick for the WP8, WT16 and WT21 fixed window panels. 6mm thick high-impact thermoplastic glazing is used in the door. All opening windows are proprietary aluminium framed systems.

DOORS

Doors can be supplied either inward- or outward-opening, right- or left-hand-hung, and are fitted with anodised aluminium door furniture and a Euro-profile mortice lock.

ROLLER SHUTTER

Grey extruded aluminium. Option of powder-coated aluminium to preferred colour at additional cost.

EXTERNAL SECURITY SHUTTERS

Security roller shutters fitted externally. Grey powder-coated finish as standard. Natural anodised aluminium and custom powder-coated colours are available at additional cost.

THERMAL INSULATION 'U' VALUE

Blank wall panel	0.85 W/m ² °C.
Flat roof panel	0.98 W/m ² °C.
Pitched roof	0.65 W/m ² °C.

SOUND REDUCTION

A 'typical' building will have sound reduction up to 15dB depending on source, sound level and frequency of prevailing noise.

FIRE RATING

The external pre-finished steel skin is typically Class 2-s2,d0 rating to BS EN 13501-1. Internally, the vinyl wallpaper and suspended ceiling system provide a minimum rating of B-s2,d0 to BS EN 13501-1.

CLOURS

Externally: natural anodised framework with panels in Moorland Green [nearest equivalent BS 4800 (12.B.21)] and pitched roof perimeter fascia in Grey (00-A-05) as standard. Other colours and/or colour coated framework can be provided on request.

Internally: off-white ceiling, grey/white textured vinyl walls and grey floor.

WEIGHTS (APPROX.)

1.22 x 1.22m
2.44 x 1.22m
2.44 x 2.44m
4.88 x 2.44m
7.32 x 2.44m

C/W PITCHED ROOF

315kg
485kg
760kg
1305kg
1870kg

C/W FLAT ROOF

185kg
310kg
520kg
865kg
1220kg

DELIVERY

Warrior buildings are normally delivered in fully assembled form ready for the customer to base fix, seal and connect to services.

BASE REQUIREMENTS

The overall size of a Warrior building is 112mm greater than the nominal internal size, e.g. a 3.66 x 2.44m building is 3.772 x 2.552m.

The minimum base size required is equal to the overall building size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should be flat, level and square, and preferably be raised slightly above the surrounding ground level.

BASE FIXING

Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the building.





■ Heritage

DESIGN FEATURES

- An elegant roof fascia system, based on a traditional period style.
- An attractive internal wall and ceiling lining, which provides a light and airy working environment.
- A choice of colours for the walls, roof fascia and framework to allow co-ordination with the surrounding architecture.
- A concealed rainwater management system guides water to ground level corner outlets and prevents indiscriminate run-off from the roof during stormy conditions.
- The option of full-width panel glazing to improve site security surveillance.

MATERIALS & CONSTRUCTION

The roof fascia and insulated wall panels of Heritage are manufactured with a smooth semi-gloss GRP (glass-reinforced polyester) external finish. The wall panels are held within a robust aluminium framework and are manufactured with a decorative moulded relief, which further enhances the traditional effect.

SIZES & SPECIFICATION

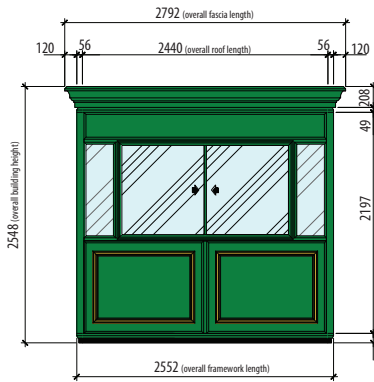
Available in standard panel increments of 1.22m and 2.44m, Heritage buildings can be tailored to meet your individual layout in sizes from 1.22 x 1.22m up to 4.88 x 2.44m. A wide choice of optional features is available for lighting, heating, glazing and ventilation.

DELIVERY & INSTALLATION

To minimise installation time and avoid major site disturbance, Heritage buildings are always transported to site in fully assembled form and offloaded by delivery vehicle crane. Should your site circumstances change, these buildings can also be relocated.

If you would like to discuss your requirements for a particular Heritage project, please contact our Sales Office.

DIMENSIONS



BUILDING SIZES

NOMINAL INTERNAL SIZES (LENGTH x WIDTH)

1.22m Widths

1.22 x 1.22m
2.44 x 1.22m

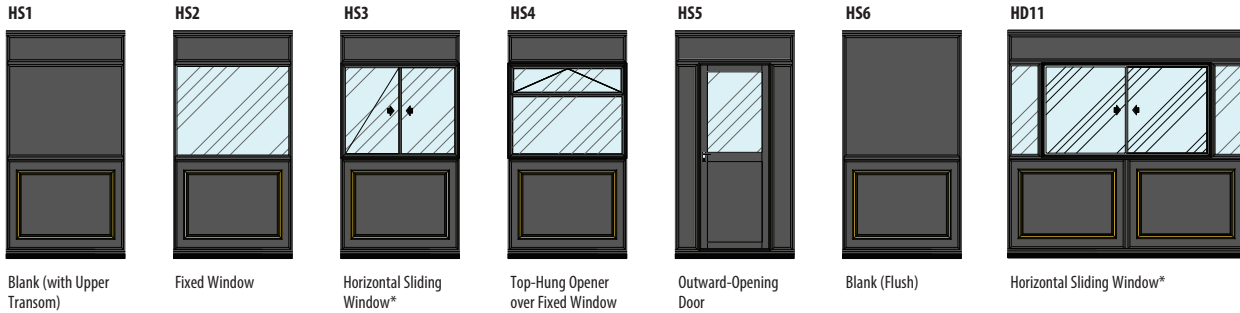
2.44m Widths

2.44 x 2.44m
3.66 x 2.44m
4.88 x 2.44m

AVAILABILITY

Heritage buildings are normally delivered in approximately 8-10 weeks depending on specification.

PANELS NOMINALLY 1.22m AND 2.44m WIDE



OPTIONAL FEATURES

GLAZING

- Ref. 8** Anti-Sun solar control glass (Grey)
- Ref. 9** Double glazing
Hermetically sealed toughened glass units.
- Ref. 20** *Heavy-duty horizontal sliding window
Available as alternative in HS3 and HD11 panels.

EXTERIOR FITTINGS

- Ref. 12** External security shutters
High-quality, externally fitted security roller shutters with powder-coated finish.

INTERIOR FITTINGS

- Ref. 2A** 1220mm long worktop
- Ref. 2B** 2440mm long worktop
All worktops are 32mm laminate-faced chipboard 300mm wide.
- Ref. 13** Removable floor panel for services access

ELECTRICS

- Ref. 4A** Standard electrical installation
Consisting of light fitting, light switch and double 13A switched plug point. All wired to consumer unit ready to receive mains supply.
- Ref. 4LF** Additional light fitting
- Ref. 4PP** Additional double 13A switched plug point
- Ref. 11** Electric heater
Panel convector heater complete with integral thermostat.

VENTILATION

- Ref. 5** Hit and miss ventilator
Outer stainless-steel louvre with internal register (230 x 150mm). For fitting to panels and doors.
- Ref. 6** Electrically operated ventilator
Wall- or roof-mounted extractor fan. Extractor rate 260m³/hr.

TECHNICAL INFORMATION

CONSTRUCTION

Patented system with 42mm thick fully insulated composite panels held in powder-coated aluminium framework.

WALLS

Fully insulated composite panels comprising of decorative vinyl internal face with smooth semi-gloss GRP external face and decorative relief.

ROOFS

Fully insulated GRP pitched roof comprising a moulded perimeter fascia with an integral rainwater gutter and downpipe arrangement and a decorative suspended ceiling.

FLOORS

Panel comprising 2mm heavy-duty vinyl floor covering on exterior grade plywood with vapour barrier and insulation to underside, supported by treated softwood plinth and bearers.

GLAZING

Generally in 4mm thick clear toughened glass, increased to 6mm thick for the H52 fixed window panel. 6mm thick high-impact thermoplastic glazing is used in the door. All opening windows are proprietary aluminium framed systems.

DOORS

Doors can be supplied either inward- or outward-opening, right- or left-hand-hung, and are fitted with anodised aluminium door furniture and a Euro-profile mortice lock.

EXTERNAL SECURITY SHUTTERS

Security roller shutters fitted externally. Powder-coated finish as standard with the option of natural anodised aluminium at additional cost.

THERMAL INSULATION 'U' VALUE

Blank wall panel 0.85 W/m²°C.

SOUND REDUCTION

A 'typical' building will have sound reduction up to 15dB depending on source, sound level and frequency of prevailing noise.

FIRE RATING

The GRP external skin conforms to BS 476: Part 7: Class 2 rating. Internally, the vinyl wallpaper and suspended ceiling system provide a minimum rating of B-s2,d0 to BS EN 13501-1.

COLOURS

The moulded perimeter roof fascia is normally identical to the panel colour. Internally: off-white ceiling tiles, grey/white textured vinyl walls and grey floor.

WEIGHTS (APPROX.)

1.22 x 1.22m	-	425kg
2.44 x 1.22m	-	605kg
2.44 x 2.44m	-	950kg

DELIVERY

Heritage buildings are delivered in fully assembled form ready for our customers to base fix, seal and connect to services.

BASE REQUIREMENTS

The overall size of a Heritage building is 112mm greater than the nominal internal size, e.g. a 3.66 x 2.44m building is 3.772 x 2.552m.

The minimum base size required is equal to the overall building size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should be flat, level and square, and preferably be raised slightly above the surrounding ground level.

BASE FIXING

Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the building.







Boxer™

DESIGN FEATURES

- The plastic-coated steel panels will retain their smart appearance for many years with minimal maintenance.
- Wide choice of optional features for lighting, heating, glazing and ventilation.
- Flush internal walls with attractive vinyl finish and good insulation.
- Available in sizes from 1.2 x 1.2m to 4.0 x 2.6m.
- Wide range of panels to suit your specification.
- Delivered fully assembled and offloaded by crane.

MATERIALS & CONSTRUCTION

Durable plastic-coated steel panels help protect Boxer from corrosion and preserve its appearance for many years, minimising maintenance costs throughout its service life.

SIZES & SPECIFICATION

Boxer buildings can be specified in sizes ranging from 1.2 x 1.2m up to a maximum of 4.0 x 2.6m and are offered with a wide choice of optional features for lighting, heating, glazing and ventilation.

STANDARD MODELS

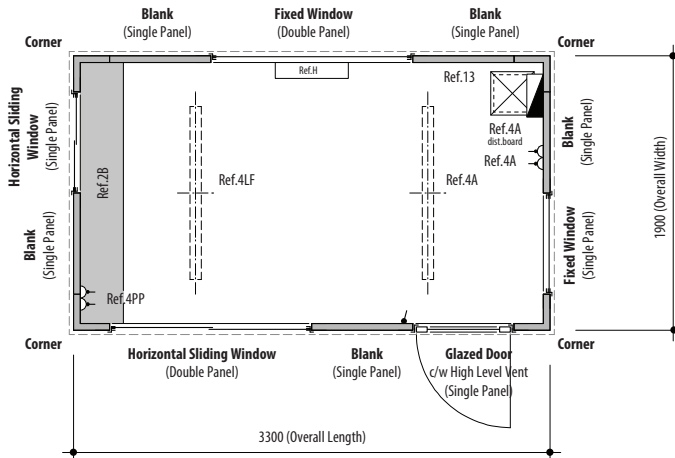
Six standard buildings based on popular layouts are available and offer a significant saving in comparison to our bespoke building layouts.

DELIVERY & INSTALLATION

Boxer buildings are always delivered to site in pre-assembled form and normally offloaded directly on to your pre-cast concrete base. You can have your building up and running within a few hours of delivery by simply base fixing and connecting to the mains power supply.

SPECIFYING

NOMINAL EXTERNAL BUILDING SIZE OF 3.3 x 1.9m



Please contact our Sales Office who will be happy to assist with specifying your building.

Boxer buildings are normally ordered in sketch plan form with panel and optional feature references marked as appropriate. Example sketch shown left.

STANDARD BUILDING SIZES

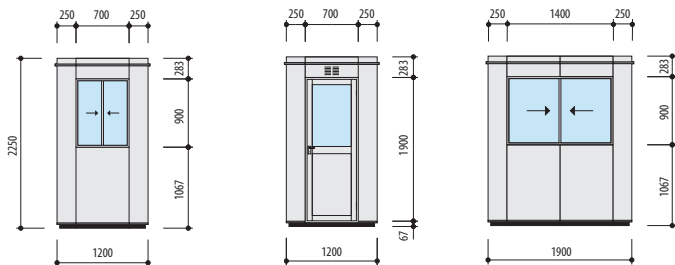
1.2m Widths	1.9m Widths	2.6m Widths
1.2 x 1.2m	1.9 x 1.9m	2.6 x 2.6m
1.9 x 1.2m	2.6 x 1.9m	3.3 x 2.6m
2.6 x 1.2m	3.3 x 1.9m	4.0 x 2.6m
3.3 x 1.2m	4.0 x 1.9m	

AVAILABILITY

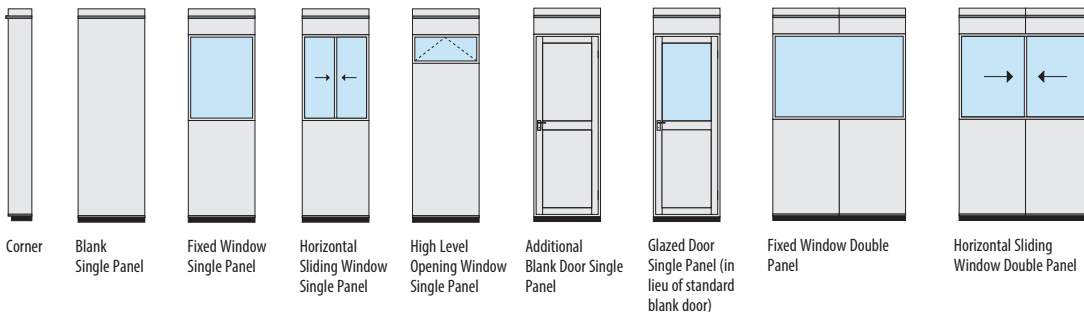
Boxer buildings are normally delivered in approximately 4-6 weeks, depending on size and specification.

DIMENSIONS

TYPICAL PANEL DIMENSIONS



PANELS NOMINALLY 0.25 x 0.25m CORNER, 0.7m AND 1.4m WIDE



Note: Panels with a window or door cannot be positioned adjacent to each other on the same elevation i.e. they must have a blank panel or corner on each adjacent side to provide fixing grounds for window and door frames.

STANDARD BUILDINGS

- A range of six small buildings built to a fixed specification.
- The same high quality but offered at a reduced cost.

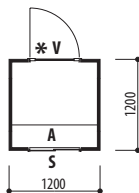
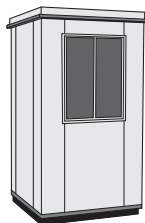
Key

- V** = Adjustable vent
S = Horizontal Sliding Window Single Panel
L = Horizontal Sliding Window Double Panel
A = Worktop
F = Fixed Window Single Panel

AVAILABILITY

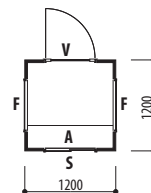
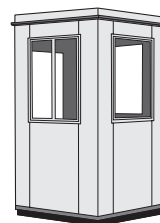
Boxer Standards are always delivered in fully assembled form, normally within 4-6 weeks, ready for the customer to base fix, seal and connect to services.

1.2 x 1.2m Model BX240

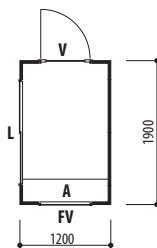


* Blank door

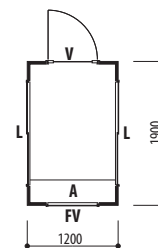
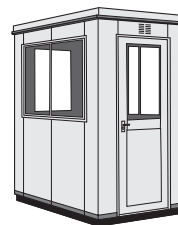
1.2 x 1.2m Model BX242



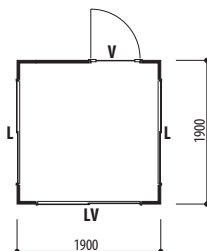
1.9 x 1.2m Model BX464



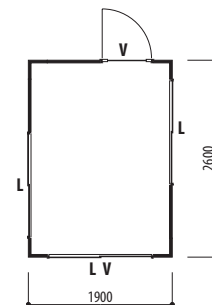
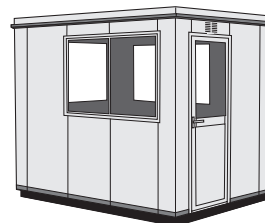
1.9 x 1.2m Model BX466



1.9 x 1.9m Model BX650



2.6 x 1.9m Model BX882



OPTIONAL FEATURES

GLAZING

- Ref. 8** Anti-Sun solar control glass (Grey)
Ref. 9 Double glazing
 Hermetically sealed toughened glass units.
Ref. 10 Obscure glazing
 Textured toughened glass

EXTERIOR FITTINGS

- Ref. 12** External security shutters
 High-quality, externally fitted security roller shutters with powder-coated finish.

INTERIOR FITTINGS

- Ref. 2A** 1200mm long worktop
Ref. 2B 1900mm long worktop

Ref. 2C 2600mm long worktop

All worktops are 32mm white laminate-faced chipboard 300mm wide.

Ref. 13 Removable floor panel for services access
 Ref. 15 Internal partitioning

Composite panels with foam core, plywood skins and decorative vinyl finish.

ELECTRICS

- Ref. 4A** Standard electrical installation
 Consisting of light fitting, light switch and double 13A switched plug point. All wired to consumer unit ready to receive mains supply.
Ref. 4LF Additional light fitting

Ref. 4PP Additional double 13A switched plug point

Ref. 11 Electric heater

Panel convector heater complete with integral thermostat.

VENTILATION

Ref. 5 Adjustable ventilator

Comprising of external louvre (integral to panel) and register. Always positioned on door and window panels only and at high level.

Ref. 6 Electrically operated ventilator

Wall- or roof-mounted extractor fan. Extractor rate 260m³/hr.

TECHNICAL INFORMATION

WALLS

Constructed from 0.9mm plastic-coated steel panel with 25mm foam insulation and a 12mm laminate-faced chipboard lining panel.

ROOFS

Panel comprising of flexible sheet roof covering/plywood/foam/plywood and decorative vinyl internal finish.

FLOORS

Panel comprising 2mm heavy-duty vinyl floor covering on exterior grade plywood with vapour barrier and insulation on the underside, supported by a treated softwood plinth and bearers.

EXTERNAL SECURITY SHUTTERS

Security roller shutters fitted externally. Powder-coated finish as standard with the option of natural anodised aluminium at additional cost.

GLAZING

Generally all 4mm toughened glass except 6mm high-impact thermoplastic glazing on the doors. Glass secured in anodised aluminium framework.

DOORS

700 x 1900mm high, right- or left-hand hung, inward- or outward-opening, fitted with anodised aluminium furniture and a mortice lock.

VENTILATION

Adjustable ventilator comprising louvre (integral to panel) and internal register in fixed layout position as appropriate.

WORKTOPS

32mm white laminate-faced chipboard.

THERMAL INSULATION

A standard blank panel has a 'U' value of 0.98 W/m²°C.

COLOURS

External panel:

Grey [approx. BS 4800 (10.A.05)]

Fascia trim:

Merlin Grey [approx. BS.4800 (18.B.25)]

A small range of alternative colours is available at additional cost.

Internally: grey ceiling, grey decorative laminate walls and grey floor.

WEIGHTS (APPROX.)

1.2 x 1.2m - 220kg

1.2 x 1.9m - 300kg

1.9 x 1.9m - 330kg

2.6 x 1.9m - 375kg

3.3 x 2.6m - 600kg

4.0 x 2.6m - 630kg

DELIVERY

Boxer buildings are always delivered in fully assembled form ready for the customer to base fix, seal and connect to services.

BASE REQUIREMENTS

The minimum base size required is equal to the overall building size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore.

The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1.

The base should be flat, level and square, and preferably be raised slightly above the surrounding ground level.

BASE FIXING

Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the building.



Smaller Buildings & Kiosks

Glasdon relocatable GRP buildings are suitable for a wide range of indoor & outdoor applications and can be tailored to your requirements.

Popular applications include cabins for security personnel and car park attendants, gatehouses, toll booths, sales and check-in kiosks, and visitor information points for heritage and leisure sites.



Genesis™

DESIGN FEATURES

- High-quality internal finish for an attractive appearance and easy maintenance.
- Flame-retardant panels.
- Textured Tulsa mesh grip flooring.
- Galvanised frame with ground-fixing plates.
- Integrated forklift points for easy relocation.
- Customised external graphic options available.

MATERIALS & CONSTRUCTION

Genesis features modern styling and is finished internally and externally with high-quality GRP. The Genesis system also features flame retardant panels.

SIZES & SPECIFICATION

Six standard Genesis models are available in four sizes: 1.5 x 1.5m, 2.3 x 1.5m, 2.7 x 2.2m, and 3.9 x 2.7m.

DELIVERY & INSTALLATION

All Genesis buildings are delivered to site pre-assembled and feature a galvanised steel subframe for ease of offloading and relocation, ready for base fixing by the customer as appropriate for permanent installations.

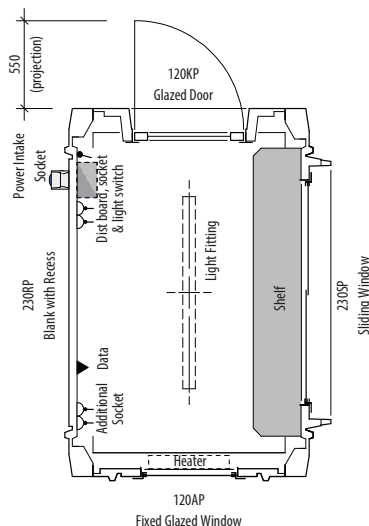
Genesis models K1515, K1523 and K1523A are suitable for customer offloading via a forklift truck (please note minimum 1200mm long forks are required) with FOC Carriage to any UK Mainland site for this offloading scenario. If you do not have access to a forklift, please advise at time of order so that delivery can be arranged using a crane-equipped vehicle for a surcharge. Genesis Models K2227, K2227A and K2739 are always delivered utilising a crane-equipped vehicle charged at an appropriate rate for the location.

SPECIFYING

Please contact our Sales Team, who will be happy to assist with specifying your building.

Genesis is ordered from the six standard models in sketch plan form with an optional feature reference marked as appropriate. See example below.

NOMINAL EXTERNAL BUILDING SIZE OF 2.3 x 1.5m



OPTIONAL EXTRAS

ELECTRICS

A standard electrical kit consisting of light fitting, light switch and double 13 amp switched plug point, all wired to a distribution board with RCD protection, ready to receive mains supply.

ADDITIONAL DOUBLE SOCKET

An additional double 13 amp switched plug point.

DATA SOCKET

An unwired data socket, ready for connection to the telecoms network.

EXTERNAL POWER INTAKE SOCKET

A standard 32 amp external power intake socket installed through the wall panel, ideal for portable applications where cables are not permanent.

HEATER

A 0.75kw manual panel convector heater for wall mounting, wired integrally to a fused switch.

SHELF KIT

22mm thick laminate faced 250mm deep shelf kits are available with varied lengths to suit the size of the building. The shelf is generally located under the sliding window but other options may be available, including deeper worktops.

PLINTH TRIM KIT

An optional plinth trim kit is available to cover the subframe. The plinth trim kit will be applied by the customer and is removable to enable the unit to be relocated.

AVAILABILITY

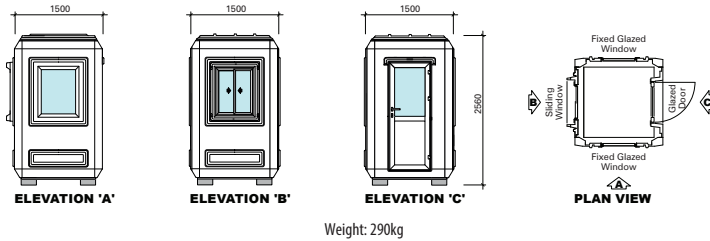
When stock is available, Genesis normally has a lead time of 7 to 14 days from receipt of order or artwork approval (if personalisation is required). However, if stock is not available, a lead time of up to 8 weeks may be required (subject to confirmation at time of order).



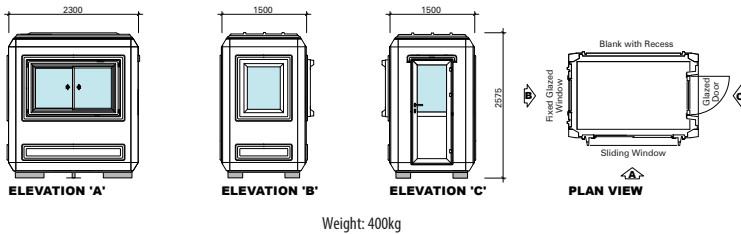
STANDARD BUILDINGS

- A range of six small buildings built to a fixed specification.
- High-quality materials at a budget-conscious cost.
- Normally available from stock to satisfy urgent requirements.
- Free delivery to mainland UK (subject to conditions).

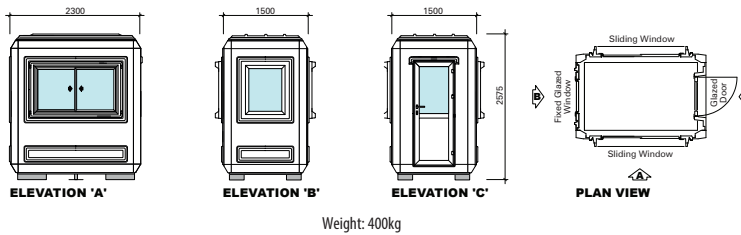
1.5 x 1.5m Model K1515



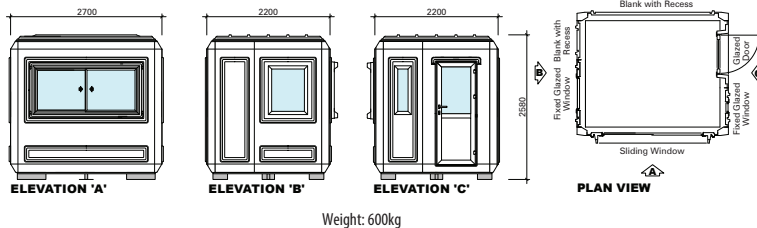
2.3 x 1.5m Model K1523



2.3 x 1.5m Model K1523A Double Sliding Windows



2.7 x 2.2m Model K2227



TECHNICAL INFORMATION

PANEL COMPOSITION

External and internal pigmented gelcoat backed with flame-retardant GRP laminate on either side of a core of particle board and flame-retardant foam insulation, as applicable to the panel type.

ROOFS

Insulated as standard and manufactured in one piece.

FLOORS

Textured Tulsa mesh grip surface on 18mm Phenolic faced plywood board.

GLAZING

Toughened safety glass.

DOORS

Right-hand hung aluminium door with a Euro-profile cylinder mortice lock.

COLOUR

Standard White*

DELIVERY

All Genesis buildings are delivered to site pre-assembled. Models K1515, K1523 and K1523A are suitable for customer offloading via a forklift truck. Models K2227, K2227A and K2739 are always delivered utilising a crane-equipped vehicle charged at an appropriate rate for the location.

BASE REQUIREMENTS

1.5 x 1.5m building – 1400 x 1400 x 125mm
 2.3 x 1.5m building – 2200 x 1400 x 125mm
 2.7 x 2.2m building – 2600 x 2100 x 125mm
 3.9 x 2.7m building – 3800 x 2600 x 250mm

BASE FIXINGS

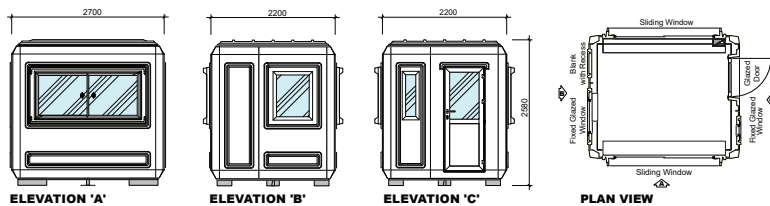
Base fixing by the customer is achieved using anchor bolts and can be carried out through pre-drilled holes in the subframe.

*Disclaimer: Please note white colour listed is Standard White. Variations in shade may be encountered.



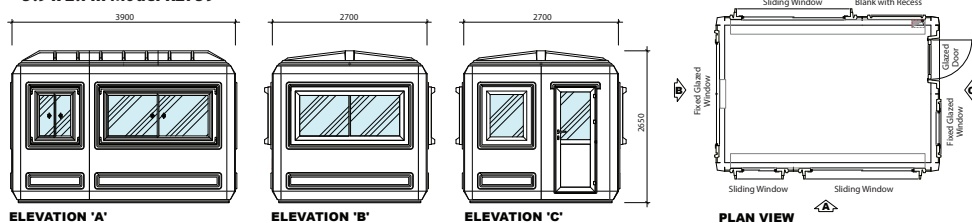
STANDARD BUILDINGS

2.7 x 2.2m Model K227A



Weight: 600 kg

3.9 x 2.7m Model K2739

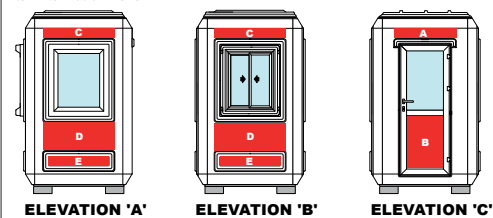


Weight: 930kg

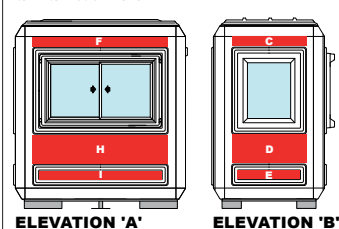
PERSONALISATION

Genesis can be personalised in a variety of areas using your own logos, photographs or artwork. Please contact our Sales Office for more information.

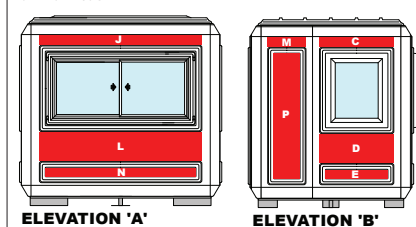
1.5 x 1.5 Model K1515



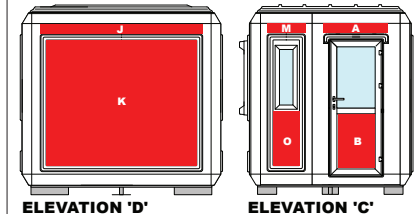
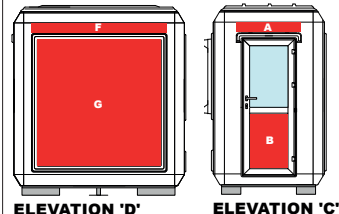
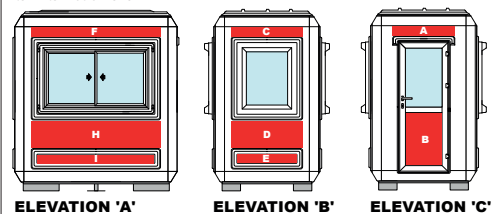
2.3 x 1.5 Model K1523



2.7 x 2.2 Model K2227



2.3 x 1.5 Model 1523A







■ Olympic™

DESIGN FEATURES

- Classic contoured GRP construction with a clean, professional appearance.
- High-quality, semi-gloss external panel finish.
- Smooth, resin-rich internal GRP surfaces.
- Slip-resistant vinyl flooring.
- Wide range of modular wall panels for custom layouts
- Fire-retardant panels included as standard.

MATERIALS & CONSTRUCTION

Olympic wall and roof panels are manufactured from tough and durable GRP (glass-reinforced polyester) with a pigmented smooth semi-gloss external surface. The use of advanced composite building materials, combined with high-quality fittings, helps to maintain a smart appearance over many years and minimise future maintenance costs.

SIZE & SPECIFICATION

Olympic is available in two standard sizes of 1.2m x 1.5m and 2.2m x 1.5m. A wide selection of modular panels and optional features—including lighting, heating, glazing, ventilation, and worktops—enables layouts to be tailored to specific site orientations.

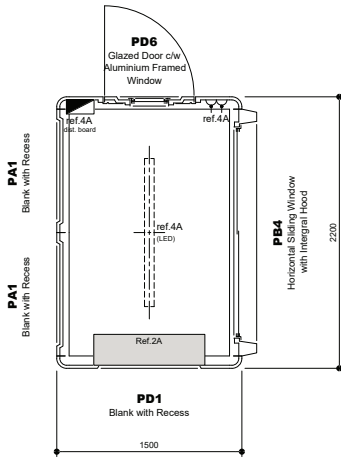
Wall and roof panels can be manufactured in any colour to harmonise with existing surroundings and co-ordinate with a corporate identity.

DELIVERY & INSTALLATION

Olympic is normally transported in fully assembled form and offloaded directly onto a pre-cast concrete base using a vehicle crane. Fast installation is achieved through simple base fixing and sealing by your contractor, followed by a straightforward mains power connection.

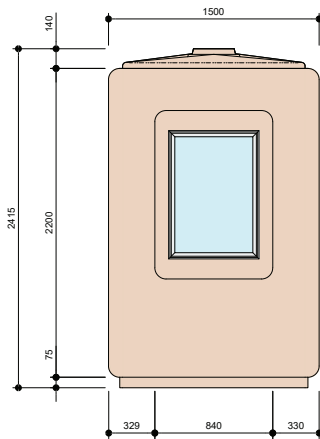
SPECIFYING

Please contact our Sales Team, who will be happy to assist with specifying your building. Olympic is normally ordered in sketch plan form with panel and optional feature references marked as appropriate. See example below.

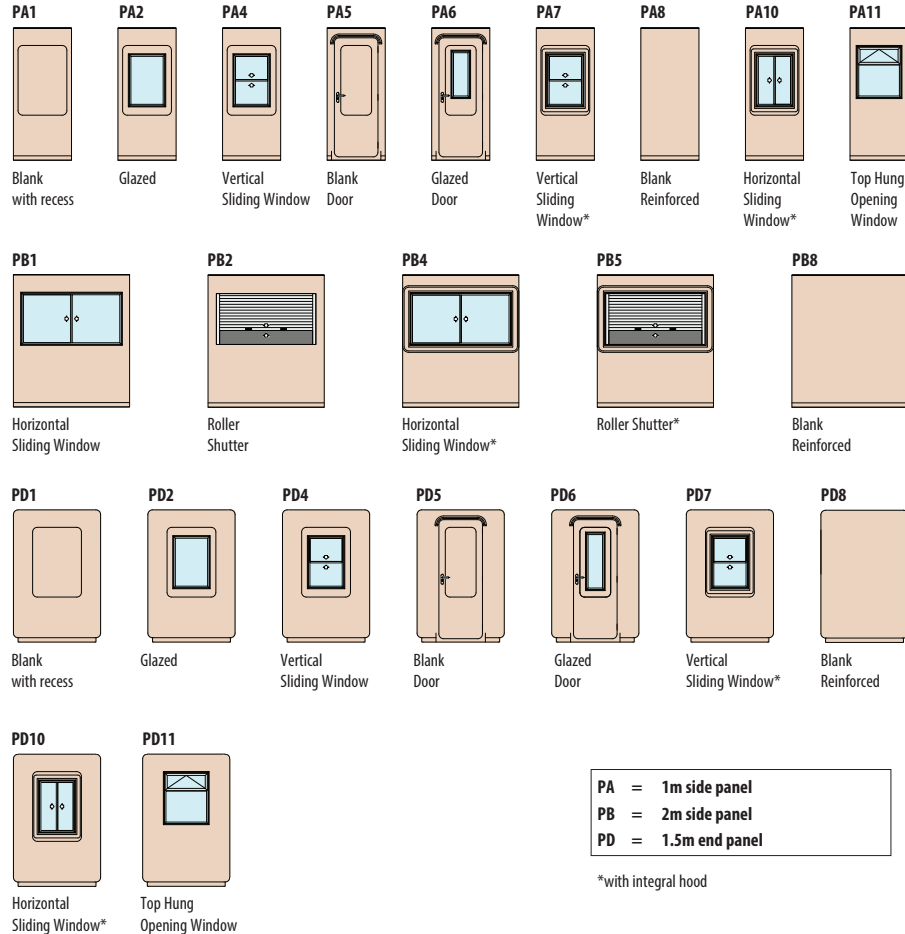


DIMENSIONS

Typical Panel Dimensions



PANELS



AVAILABILITY

Olympic is normally delivered in approximately 6-8 weeks depending on specification.

OPTIONAL FEATURES

GLAZING

- Ref. 8 Anti-sun solar control glass (Grey)**
Ref. 9 Double glazing
 Hermetically sealed toughened glass units.
Ref. 10 Obscure glazing
 Textured toughened glass.

LARGE WINDOWS

Heavy-duty, horizontal-sliding

This has an increased frame width to incorporate roller bearings and double glazing (Ref. 9) when required. Recommended for high usage applications.

Fixed**Multi-opening horizontal-sliding****Fixed/twin top-hung opening**

Above 3 options are available as an alternative in PB1 and PB4 panels.

SMALL WINDOWS

High-level top-hung opening

Available to PA8, PB8 and PD8 panels.

Fixed top-hung opening

Available to PB8 panel.

Fixed

Available as an alternative to PA11 top-hung opening window.

EXTERIOR FITTINGS

- Ref. 12 External security shutters**
 High-quality, externally fitted security roller shutters with powder-coated finish.
Ref. 18a External GRP shelves
 1m wide (400mm projection)
Ref. 18b External GRP shelves
 2m wide (400mm projection)
Ref. 19a External GRP canopy
 1m wide (700mm projection)
Ref. 19b External GRP canopy
 2m wide (700mm projection)

INTERIOR FITTINGS

- Ref. 2A 900mm Long Worktop**
Ref. 2B 1900mm Long Worktop
Ref. 13 Removable floor panel for services access

ELECTRICS

Ref. 4A Standard electrical installation

Consists of an LED light fitting, a light switch, and a double 13A switched plug point—all wired to a distribution board, ready to receive the mains supply.

Ref. 4LF Additional LED light fitting**Ref. 4PP Additional double 13A switched plug point****Ref. 11 Electric heater**

Thermostatically controlled, wall-mounted, and wired to a fused spur.

VENTILATION

Ref. 5 Hit and Miss ventilator

Outer stainless-steel louvre with internal register (230 x 150mm). For fitting to panels and doors.

Ref. 6 Electrically operated ventilator

Suitable for roof 'hump' or wall mounting. Extractor rate: 260m³/hr.

MISCELLANEOUS

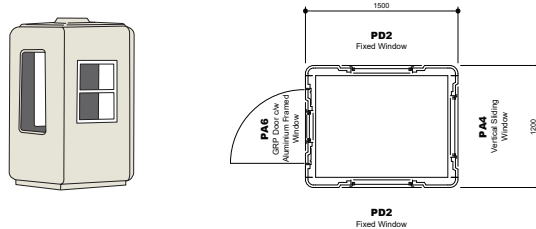
Ref. 14 Additional timber reinforcement

18mm plywood incorporated within double-skin GRP over the full area of the blank recessed panels.

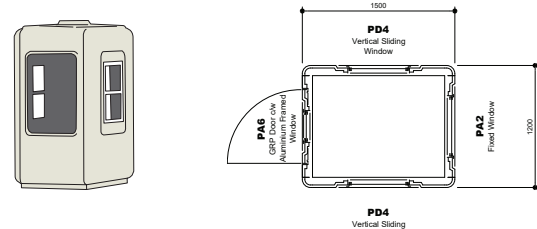
STANDARD BUILDINGS

- A range of four small buildings built to a fixed specification.
- The same high quality offered at a reduced cost.

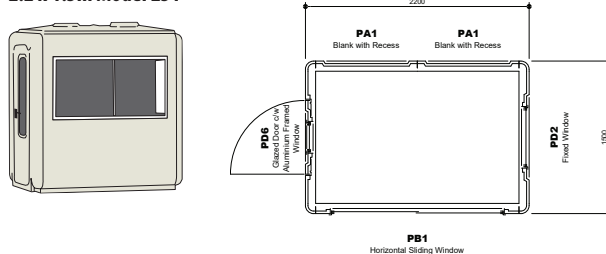
1.2 x 1.5m Model 150



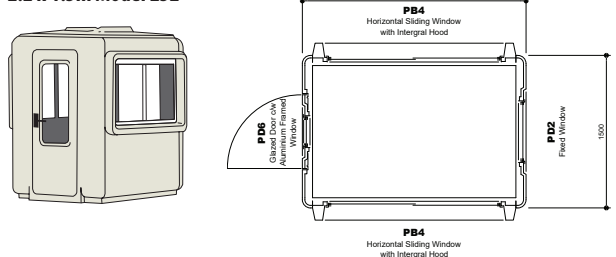
1.2 x 1.5m Model 151



2.2 x 1.5m Model 251



2.2 x 1.5m Model 252



TECHNICAL INFORMATION

PANEL COMPOSITION

External pigmented gelcoat backed with GRP laminate, applied to both sides of an 18mm core. Core materials comprise timber, plywood, insulation foam, and steel inserts as required for each specific panel. The interior is finished with a resin-rich, smooth GRP surface.

FIXING GROUNDS

Lightweight fixing can be achieved on any panel area. For fixing to timber core, use the flat sections of any blank reinforced panels (see drawings **PA8**, **PB8**, and **PD8**) or the flat spaces between recessed areas (e.g., **PA1/2**). The **Ref. 14** option provides a timber core within the internal flat areas of recessed panels, maintaining a consistent external aesthetic. The core area is available up to full height with a maximum width of 1200mm, as required.

ROOFS

Fully insulated as standard and manufactured in one piece.

FLOORS

Fully insulated panel comprising 2mm heavy-duty vinyl covering on plywood/foam/plywood panel with vapour barrier underside, supported by treated softwood battens between floor and base.

GLAZING

4mm toughened glass is supplied as standard in a natural anodised aluminium framework.

DOORS (GRP)

The standard single door is 750mm wide and opens outwards. It can be supplied right- or left-hand-hung and is fitted with stainless-steel door furniture, a Euro-profile cylinder mortice lock, a door closer, and a checkstrap.

ROLLER SHUTTER

Polyester powder-coated aluminium security shutters as standard on panels **PB2** and **PB5**.

EXTERNAL SECURITY SHUTTERS

Polyester powder-coated aluminium security shutters as standard.

THERMAL INSULATION

Panels have 'U' values of:
1.54 W/m²°C - blank panel
1.12 W/m²°C - roof panel
0.59 W/m²°C - floor panel

SOUND REDUCTION

A 'typical' building will have sound reduction up to 15dB depending upon source, sound level and frequency of prevailing noise.

FIRE RATING

Externally: BS 476 Part 7 Class 2 surface spread of flame.
Internally: BS 476 Part 7 Class 1 surface spread of flame which, together with results from BS 476 Part 6, allows the material to be defined as Class '0'.

COLOURS

The standard external production colour is Beige [nearest reference BS 4800 (10.B.19)].

Any other standard BS or RAL colour reference can be provided, subject to availability.

The standard internal surface is a white, resin-rich, smooth GRP laminate.

WEIGHTS (APPROX.)

1.2 x 1.5m - 215kg
2.2 x 1.5m - 450kg

DELIVERY

Olympic is normally delivered in fully assembled form ready to base fix, seal and connect to services. Where access is restricted, it can be delivered in panel form for on-site assembly.

BASE REQUIREMENTS

The length of an Olympic is always 200mm longer than the side panels used, e.g. a building having 2 no. 1m panels in each side and 1 no. 1.5m panel at each end has the dimensions 2200mm x 1500mm.

The minimum base size required is equal to the overall building size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should be flat, level and square, and preferably be raised slightly above the surrounding ground level.

BASE FIXING

Base fixing is accomplished using the expanding anchor bolts supplied.

Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the building.





Housings

We specialise in the supply, delivery and installation of GRP and steel modular housings & enclosures.

These products provide secure facilities for electrical switchgear, substations, transformers, generators and power supply systems; control panels, meters and monitoring equipment; water, chlorination and valve systems; and roadside, rail side and telecommunication equipment.



■ Element™

DESIGN FEATURES

- Modular construction allows for modification or relocation in the future.
- Delivered fully assembled for quick and easy installation.
- Corrosion-resistant GRP external panels and stainless-steel fixtures and fittings provide long service life with minimal repair and maintenance.
- GRP panels feature an MDF core for structural strength.
- Secure stainless-steel hinges.
- Structurally analysed: suitable for use in the majority of UK locations.
- 12mm internal core and 12mm reinforced flanges.
- Steel reinforced ground fixing flange.
- Supplied with self-tapping masonry bolts for base fixing.

MATERIALS & CONSTRUCTION

Smooth, semi-gloss GRP roof and wall panels in Light Grey semi-gloss BS 4800 (00.A.05). Anchored into position using self-tapping masonry bolts as standard.

SIZES & SPECIFICATION

Choice of 10 standard sizes available from 1m x 2m up to 5m x 3m external footprint with a 2.5m clear internal height.
Offered in standard panel increments of 1m due to roof panel span.
3 entryway options: single access 0.8m, double access 1.32m and double access 1.75m.

DELIVERY & INSTALLATION

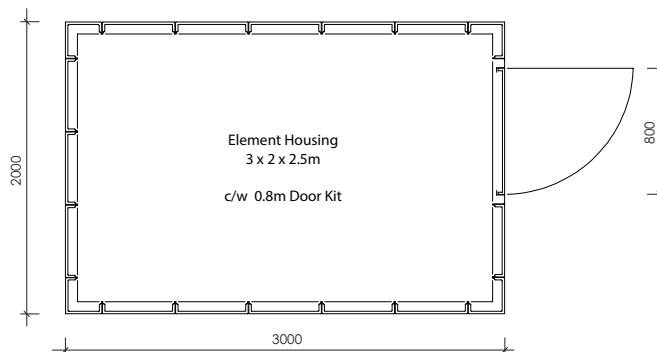
Delivered fully assembled by crane for quick and easy delivery. Element can be relocated in the future if required.

SPECIFYING

Please choose your Element sizing from the list below, or contact our sales team for more information.

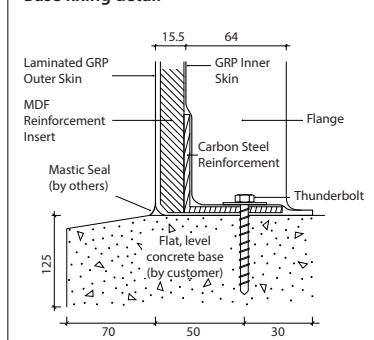
1m x 2m x 2.5m
 2m x 2m x 2.5m
 3m x 2m x 2.5m
 4m x 2m x 2.5m
 5m x 2m x 2.5m
 1m x 3m x 2.5m
 2m x 3m x 2.5m
 3m x 3m x 2.5m
 4m x 3m x 2.5m
 5m x 3m x 2.5m

EXAMPLE SKETCH PLAN OF HOUSING SIZE 3 x 2 x 2.5m



TECHNICAL INFORMATION

Base fixing detail



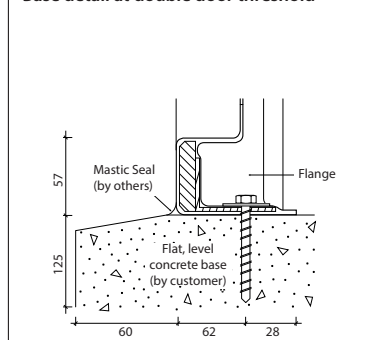
PANEL COMPOSITION (ROOFS, CORNERS AND WALLS)

Externally, a smooth semi-gloss GRP laminate finish (resin and glass reinforcement), incorporating a 12 mm MDF reinforcement core, with additional reinforcement in the flanges to enhance structural strength. Internally, a textured white finish is applied. Roof construction: smooth semi-gloss GRP external finish. Roofs up to 1m span in lengths of 2m and 3m are usually supplied in one piece.

FIXING GROUNDS

Lightweight screws can be used for fixing methods onto panels; however, careful consideration of the fixing length is advised in order to avoid breaking through the external finish. The recommended screw length is a maximum of 12mm with a washer to allow the spread of the load. For heavy duty fixing grounds, we recommend fixing through the reinforced flanges or using the optional unistrut equipment mounting kits.

Base detail at double door threshold



DOORS

The standard single door is 800mm wide, right- or left-hand hung, and opens outwards. The standard double doors are either 1320mm or 1750mm wide, outward opening only. The doors are fitted with robust stainless-steel hinges (three per door) and a variety of door furniture options are available (see optional extras).

COLOURS

The standard colours are:
 Exterior: Grey BS4800 (00.A.05)
 Interior: Textured white paint finish

DELIVERY

Element housings are delivered in fully assembled form ready for the customer to base fix, seal and connect to services. Where access is restricted, housings can be delivered in panel form for on-site assembly.

AVAILABILITY

Element Housings are normally delivered in 3-4 weeks depending on specification.

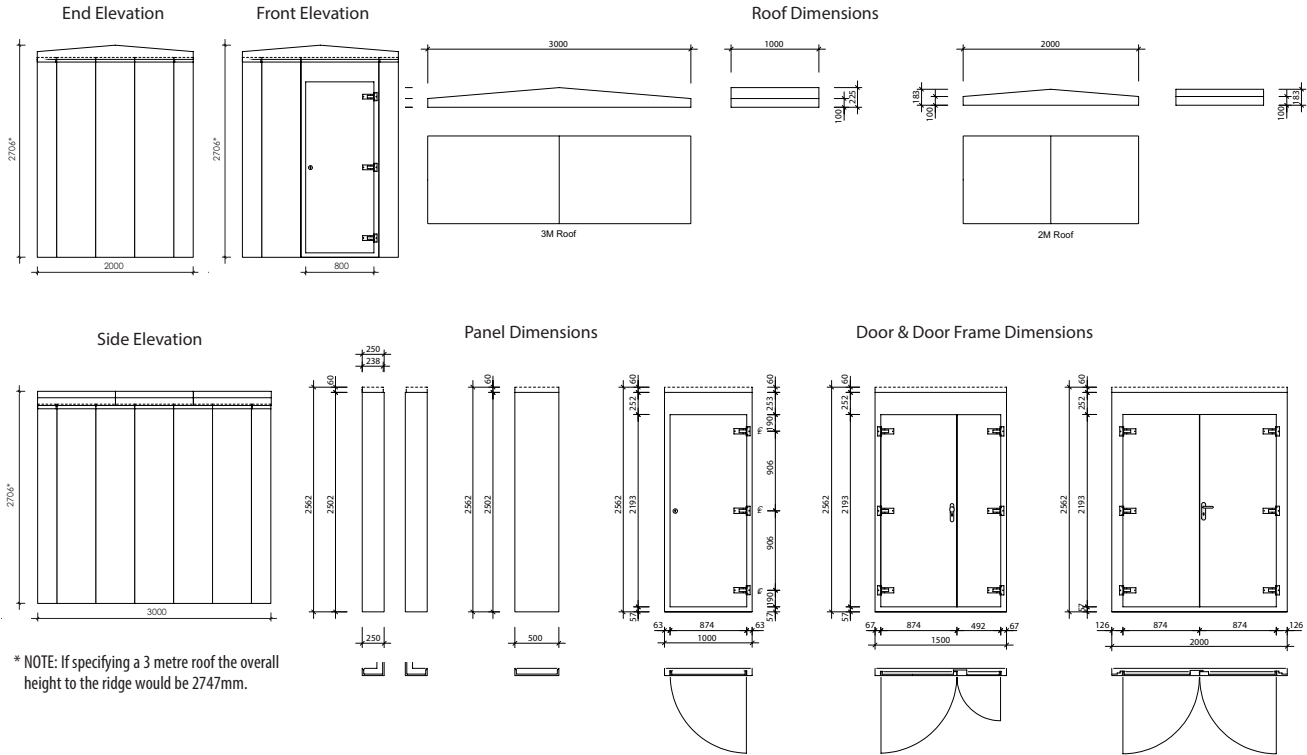
BASE REQUIREMENTS

The minimum base size required is 100mm greater than the nominal external housing size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should preferably be raised slightly above the surrounding ground level.

BASE FIXING

Base fixing by our customers is achieved using self tapping masonry bolts. Refer to the instructions supplied with the fixings or watch the base fix video for correct installation in accordance with the manufacturer's recommendation.

TYPICAL PANEL DIMENSIONS



OPTIONAL FEATURES

Door Furniture

Lock option kits include a Euro-profile cylinder mortice deadlock/escutcheon plate. Handles available include a lever or cylindrical knob.

Door Stay

Stainless-steel door stay options are available for all door sizes. Door stay kits for 1.0m single door and 1.5m - 2.0m double doors.

Ventilation

As standard, 300 x 300mm anodised aluminium louvred vent to provide air flow.

Access Panel

Provided as a closed access point, a standard 300 x 300mm GRP aperture frame with a removable GRP plate allows for external services entry.

Electrics

Standard electrical installation consisting of lighting, a light switch and double 13 amp plug points. All wired to consumer unit ready to receive mains supply.

Additional Plug Point

An additional 13 amp switched plug point.

Data Socket

An unwired data socket ready for local connection to telecoms networks.

Heater

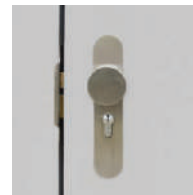
A 0.75kw electrical convactor heater for wall mounting, wired integrally to a fused switch.

Equipment Mounting

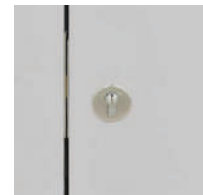
Kits include unistrut channels with brackets.



Lever Handle



Cylindrical Knob Handle



Deadlock



300 x 300mm Vent



Access Panel



■ Fortress™

DESIGN FEATURES

- A durable, plastic-coated steel finish that helps to keep future maintenance costs to a minimum.
- Superior insulation levels to protect sensitive equipment from variations in temperature.
- Integral fixing grounds and a flush internal finish maximise usable space and allow large equipment to be easily mounted across the internal walls.
- A roof system that can be supplied to meet the gas explosion relief standards of Transco.

MATERIALS & CONSTRUCTION

Panels: Plastic-Coated Steel.

SIZES & SPECIFICATION

Available in heights of 1.5m, 2m, 2.5m and 3m, Fortress housings can be specified in sizes from 1 x 1.5m up to 20 x 6m. A comprehensive range of panels and optional features provides the flexibility to meet your specific requirements.

DELIVERY & INSTALLATION

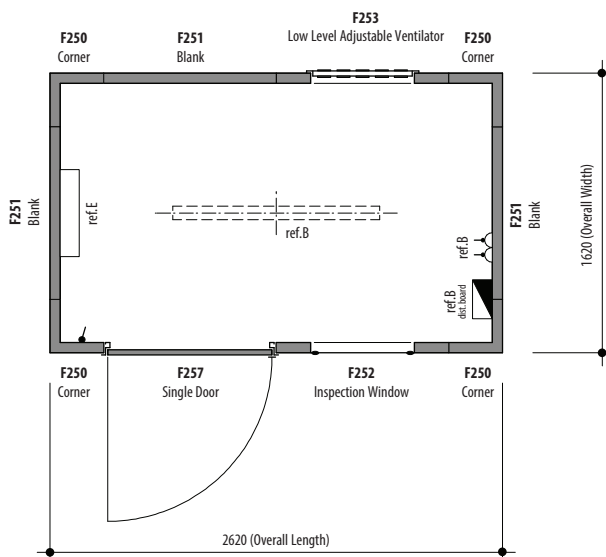
Fortress housings are normally delivered in pre-assembled form and offloaded by crane ready for immediate use. The option of a panel form delivery can easily overcome site access restrictions.

SPECIFYING

Please contact our Sales Office who will be happy to assist with specifying your housing.

Fortress housings are normally ordered in sketch plan form with panel and optional feature references marked as appropriate. See example below.

NOMINAL INTERNAL HOUSING SIZE
OF 2.5 x 1.5 x 2.5m



ROOFS

**FULLY INSULATED AS STANDARD.
1.5m, 2m and 2.5m WIDTHS**

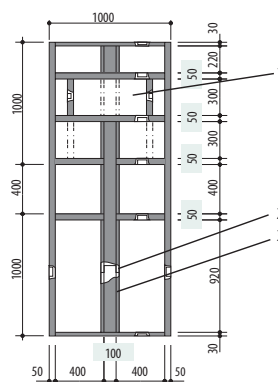
All roofs are generally supplied in one piece for lengths of 1m, 2m and 3m. Roofs for other housing lengths are supplied in sections, e.g. the roof for a 2.5 x 1.5m housing is supplied in one 1.5m section and one 1m section.

3m, 3.5m, 4m, 5m AND 6m WIDTHS

Roofs are supplied in 1m sections spanning the width, e.g. a 6 x 4m roof is supplied in six 1m sections.

STIFFENING FRAME

e.g. Integral Stiffening frame of a 2.5m High Panel Section



- 1 = Gland plate/vent/window position.
- 2 = Cross-sectional profile.
- 3 = For a blank panel this component is repeated in the top half of the panel (as illustrated by the dotted line).

Note: for low level vent/gland plate option the internal frame is turned through 180°.

AVAILABILITY

Fortress housings are normally delivered in 6-8 weeks depending on specification.

OPTIONAL FEATURES

COLOURS

Choice of two standard colours.

- | | |
|--------|------------|
| Ref. 1 | Dark Grey |
| Ref. 2 | Dark Green |

FLOORING

- Ref. A Subfloors**
18mm thick pre-finished slip-resistant plywood supported on treated softwood bearers.
Housings can be mounted on subframes with a variety of flooring materials.

ELECTRICS

- | | |
|---------------|--|
| Ref. B | Standard electrical installation
Consisting of light fitting, light switch and double 13A switched plug point. All wired to consumer unit ready to receive mains supply. |
| Ref. C | Additional light fitting. |
| Ref. D | Additional double 13A switched plug point. |
| Ref. E | Electric heater
Panel convector heater complete with integral thermostat. |

GLAZING

- Ref. M Rooflight**
Clear acrylic double skin rooflight. Positioned
along ridge line at 1m centres.
Size 810mm x 525mm.

VENTILATION

- | | |
|---------------|---|
| Ref. F | <p>Electrically operated ventilator</p> <p>Wall-mounted extractor fan (extractor rate 260m³/hr).</p> |
| Ref. K | <p>Eaves ventilation</p> <p>Concealed fixed ventilation provided by raising roof to create an air gap around the housing perimeter between the roof and the wall. Bird proof.</p> <p>Note: Eaves ventilation adds 40mm to the overall height of the housing.</p> |

Ref. L Roof ventilation

- Clear acrylic double skin rooflight fixed in raised position to provide permanent ventilation.
Positioned along ridge line at 1m centres.
Bird proof. Size 810mm x 525mm.
Ventilation 0.07m².

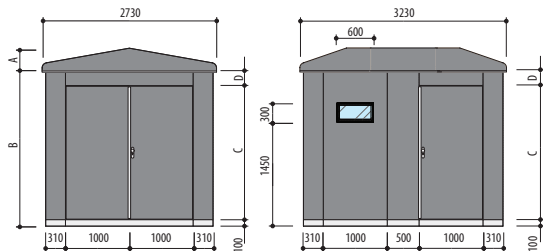
MISCELLANEOUS

- | | |
|---------------|--|
| Ref. X | Explosion relief facility
Fortress housings can comply fully with British Gas requirements. Please see Technical Information. |
| Ref. Q | Exit furniture
Emergency Exit and Panic Exit devices can be incorporated to satisfy the requirements of either BS EN 179 or BS EN 1125 subject to the application conditions. Further advice is available from our Sales/Technical Department. |

DIMENSIONS

The overall housing size (over walls) is 120mm greater than the number of nominal 1m panels (clear internal size), e.g. a nominal internal 4 x 2.5m housing has an overall size of 4120 x 2620mm.

TYPICAL PANEL DIMENSIONS



Housing height (CIH)	Dimensions (mm)			
	A	B	C	D
1.5m	See below	1412	1250	62
2m		1912	1750	62
2.5m		2412	2100	212
3m		2912	2100	712

Housing width (span)	Dimensions (mm)	Housing width (span)	Dimensions (mm)
	A		A
1.5m	285	3.5m	461
2m	328	4m	505
2.5m	373	5m	594
3m	417	6m	682

Note: dimensions may vary depending upon the specification of the housing. We shall be pleased to advise accurate dimensions on request.

To calculate the minimum clear door aperture, please deduct 50mm from the door width and height dimensions shown. It would be necessary to detach the door stay/s and open the door/s beyond 90° to achieve these figures.

PANELS

	0.25m x 0.25m Corner Panel	1m wide Blank Panel	0.5m wide Blank Panel	1m wide Inspection Window Panel	1m wide Low Level Adjustable Vent Panel	1m wide High Level Adjustable Vent Panel	1m wide Low Level Gland Plate Panel	1m wide High Level Gland Plate Panel	1m wide Single Door Panel	1m wide Offset Single Door Panel	2m wide Double Door Panel	2m wide Roller Shutter Panel
1.5m high	F150	F151	F151/5	F152	F153	F154	F155	F156	F157	F158	F159	
2m high	F200	F201	F201/5	F202	F203	F204	F205	F206	F207	F208	F209	
2.5m high	F250	F251	F251/5	F252	F253	F254	F255	F256	F257	F258	F259	F25RS
3m high	F300	F301	F301/5	F302	F303	F304	F305	F306	F307	F308	F309	F30RS

TECHNICAL INFORMATION

WALL PANEL COMPOSITION

Plastic-coated steel outer and inner lining panels with integral stiffening frame and inert insulation. The panels are connected using a patented internal clip.

ROOF PANEL COMPOSITION

External pigmented gelcoat backed with GRP laminate (resin & glass reinforcement) to either side of insulation foam and other core materials. Internally, the underside of the roof panels has a textured white GRP laminate finish.

FIXING GROUNDS

Lightweight fixing can be carried out anywhere on any panel surface. Heavier fixing should utilise additional strength from integral stiffening frame (see panel section details on page 41).

ROOFS

Fully insulated as standard. Roofs are supplied in one piece where possible, otherwise in a minimum number of sections.

FLOORS

An 18mm thick slip-resistant phenolic-faced plywood, supported by treated softwood bearers, can be supplied as a subfloor. Alternatively, subframes and other flooring material can be supplied to individual requirements. Our Technical Staff will be pleased to discuss your particular application.

GLAZING

Inspection panels / glazed areas are generally supplied as aluminum framed windows.

ROLLER SHUTTER

Security shutters are generally proprietary aluminium extrusion systems, requiring 0.5m blank wall panels or corner posts either side for installation.

DOORS

Single door panels are 1000mm wide and right- or left-hand hung. Double-door panels are 2000mm wide. Offset single-door panels are 600mm wide and left- or right-hand hung.

Doors are outward-opening only and are fitted with stainless-steel door furniture, continuous hinges, a full-height anti-jemmy plate, door stays and a Euro-profile cylinder mortice lock.

SOUND REDUCTION

A 'typical' housing will have sound reduction up to 15dB depending upon source, sound level and frequency of prevailing noise.

FIRE RATING

Externally: BS 476 Part 7 Class 2 to roof.

Externally: BS 476 Part 7 Class 1 to wall.

Internally: BS 476 Part 7 Class 1 which, together with results from BS 476 Part 6, allows the material to be defined as Class '0'. An improved system providing an external Class 1/0 roof is available.

EXPLOSION RELIEF

Fortress housings can be configured to comply with applications requiring explosion relief for a maximum pressure of 35 mbar by a lifting roof option.

THERMAL INSULATION

Walls: 0.59 W/m²°C Floors: 1.88 W/m²°C

Roofs: 0.57 W/m²°C

COLOURS

Externally, a choice of two standard wall colours:

Dark Grey, approx. BS 4800 (18.B.25)

Dark Green, approx. BS 4800 (12.B.27)

Roof in matching colour.

Internally, light grey wall approx. BS 4800 (10.A.05).

WEIGHTS (APPROX.)

1 x 1.5 x 1.5m - 365kg

4 x 2.5 x 2.5m - 1185kg

2 x 1.5 x 2m - 575kg

6 x 3 x 3m - 1640kg

3 x 2 x 2.5m - 910kg

DELIVERY

Fortress housings are normally delivered in fully assembled form ready for the customer to base fix, seal and connect to services. Where access is restricted, housings can be delivered in panel form for on site assembly.

BASE REQUIREMENTS

The minimum base size required is 250mm greater than the nominal internal housing size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore.

The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should be flat, level and square and preferably be raised slightly above the surrounding ground level.

BASE FIXING

Ensure that the panels are accurately aligned and the housing is completely square, i.e. the corners are at 90° and the diagonal dimensions are exactly the same.

Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the housing.





■ Garrison™

DESIGN FEATURES

- Tough, durable GRP (glass-reinforced polyester) construction with a smooth, pigmented, semi-gloss external finish.
- Modular panel system allows bespoke layouts and easy future relocation.
- Foam or plywood composite core offers insulation and enhanced fixing strength.
- Multiple housing heights and footprints available.
- Extensive optional features, including climate control, glazing, and gas explosion relief roofing.
- Manufactured from fire-retardant materials tested to BS 476 Part 7 for surface spread of flame.
- Off-site construction to minimise on-site disruption and installation time.

MATERIALS & CONSTRUCTION

Garrison wall and roof panels are manufactured from tough and durable GRP with a smooth pigmented semi-gloss external surface. The use of advanced composite building materials, combined with high-quality fittings, provides a low-maintenance housing solution ideal for use in hostile environments and isolated locations.

SIZES & SPECIFICATION

Available in standard heights of 1m up to 3.5m, Garrison can be made with layouts from 1 x 0.5m up to 20 x 6m. A vast selection of optional features includes lighting, heating, ventilation, glazing and explosion relief roofs.

DELIVERY & INSTALLATION

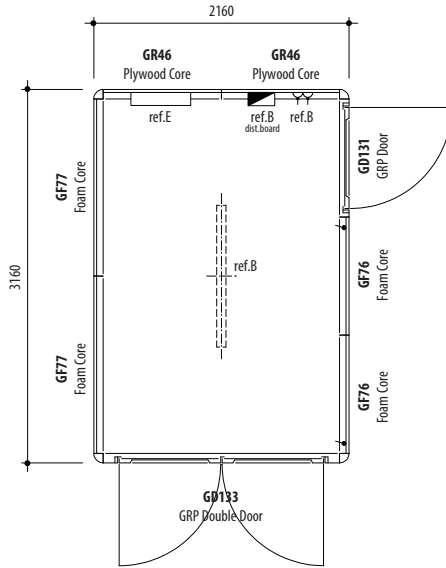
Garrison housings are normally transported in fully assembled form and offloaded by crane to help minimise installation time. The option of panel form delivery means that size and access restrictions can be easily overcome, whilst the modular construction allows modification and relocation in the future.

SPECIFYING

Please contact our Sales Office who will be happy to assist with specifying your housing.

Garrison housings are normally ordered in sketch plan form with panel and optional feature references marked as appropriate. See example below.

NOMINAL INTERNAL HOUSING SIZE OF 3 x 2 x 2m



TYPICAL PANEL DIMENSIONS

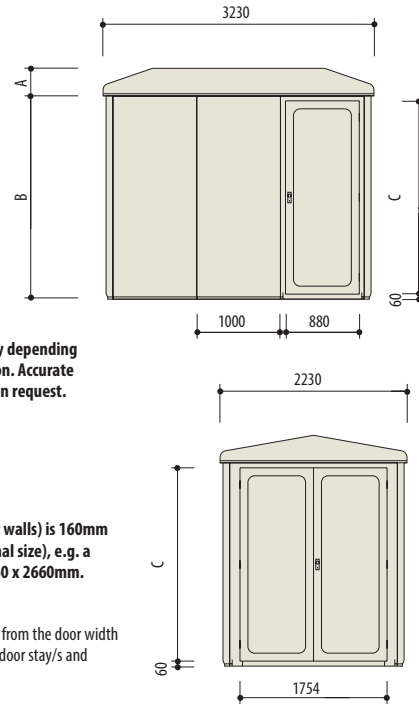
Housing height (CIH)	Dimensions (mm)		
	A	B	C
1m		925	805
1.5m		1425	1305
2m		1925	1805
2.5m		2425	2305
3m		2925	2305
See below			

Housing width (span)	Dimensions (mm)	
	A	
0.5m	200	
1m	240	
1.5m	285	
2m	328	
2.5m	373	
3m	417	
3.5m	461	
4m	506	
5m	594	
6m	682	

Note: Dimensions may vary depending on the housing specification. Accurate dimensions are available on request.

For housing heights up to 3m, the overall housing size (over walls) is 160mm greater than the number of nominal 1m panels (clear internal size), e.g. a nominal internal 4 x 2.5m housing has an overall size of 4160 x 2660mm.

To calculate the minimum clear door aperture please deduct 60mm from the door width and height dimensions shown. It would be necessary to detach the door stay/s and open the door/s beyond 90° to achieve these figures.



EXTERNAL FINISH

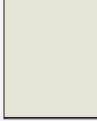
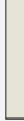
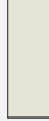
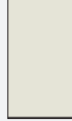
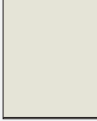
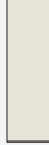
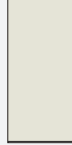
Wall and roof panels feature a smooth, gloss-moulded surface.

AVAILABILITY

Garrison housings are normally delivered in 6-8 weeks depending on specification.



PANELS

	18mm Plywood Core				18mm Foam Core				GRP Doors		
	0.5m Wide	1m Wide	1.5m Wide	2m Wide	0.5m Wide	1m Wide	1.5m Wide	2m Wide	1m Wide	1.5m Wide	2m Wide
1m High	GR31 	GR32 			GF61 	GF62 			GD101 		GD103 
1.5m High	GR35 	GR36 	GR37 	GR38 	GF65 	GF66 	GF67 	GF68 	GD111 	GD112 	GD113 
2m High	GR40 	GR41 	GR42 	GR43 	GF70 	GF71 	GF72 	GF73 	GD121 	GD122 	GD123 
2.5m High	GR45 	GR46 	GR47 	GR48 	GF75 	GF76 	GF77 	GF78 	GD131 	GD132 	GD133 
3m High	GR50 	GR51 	GR52 		GF80 	GF81 	GF82 		GD141 	GD142 	GD143 

NOTE: an option for 3.5m high panels is available upon request.



OPTIONAL FEATURES

COLOURS

Choice of four standard colours.

- Ref. 1** **Beige**
Ref. 2 **Light Grey**
Ref. 3 **Dark Green**
Ref. 4 **Dark Brown**
Ref. NSC **Any other BS 4800 colour**

FLOORING

- Ref. A** **Subfloors**
 18mm thick pre-finished slip-resistant plywood supported on treated softwood bearers. Housings can be mounted on subframes with a variety of flooring materials.

ELECTRICS

- Ref. B** **Standard electrical installation**
 Consists of a light fitting, light switch, and double 13A switched plug point—all wired to a distribution board ready to receive mains supply.
- Ref. C** **Additional light fitting**
Ref. D **Additional double 13A switched plug point.**
Ref. E **Electric heater**
 Panel convactor heater complete with integral thermostat.

VENTILATION

- Ref. F** **Electrically operated ventilator**
 Wall-mounted extractor fan. Extractor rate 260m³/hr.
- Ref. H** **Fixed louvred vent**
 Wall-mounted fixed vent to provide permanent airflow. Bird proof. Nominal size 600mm x 150mm. Ventilation area 0.04m².

- Ref. J** **Adjustable louvred vent**
 Wall-mounted vent with opposed blade damper to provide variable airflow. Bird proof. Nominal size 600mm x 600mm. Maximum ventilation area 0.16m².

- Ref. K** **Eaves ventilation**
 Concealed fixed ventilation provided by raising roof to create an air gap all round the housing perimeter between roof and wall. Bird proof. Ventilation area 0.02m² per 1m panel.
 Note: Eaves ventilation adds 40mm to the overall height of the housing.

- Ref. L** **Roof ventilation**
 Clear acrylic double skin rooflight fixed in raised position to provide permanent ventilation. Positioned along ridge line at 1m centres. Bird proof. Size 810mm x 525mm. Ventilation area 0.07m².

GLAZING

- Ref. M** **Rooflight**
 Clear acrylic double skin rooflight. Positioned along ridge line at 1m centres. Size 810mm x 525mm.
- Ref. NS** **Inspection window**
 600mm x 300mm toughened glass window mounted at high level to admit light or positioned as required for other purposes.
- Ref. NL** **Observation window**
 600mm x 945mm toughened glass window mounted at standard height for observation application. (550mm x 760mm window fitted to GRP doors).

MISCELLANEOUS

- Ref. P** **Removable panels**
 Infrequent access for the installation or removal of large items of equipment can be provided by various means. Our Technical Staff will be pleased to advise the best method for your particular application.
- Ref. Q** **Exit Furniture**
 Emergency Exit and Panic Exit devices can be incorporated to satisfy the requirements of either BS EN 179 or BS EN 1125 subject to the application conditions. Further advice is available from our Sales/Technical Department.
- Ref. R** **Resin-coated internal finish**
 Smooth white semi-gloss washable surface finish suitable for aggressive environments. Alternative colours available on request.
- Ref. T** **Removable threshold**
 Manufactured as a removable component on double door panel to facilitate equipment access.
- Ref. X** **Explosion relief facility**
 Garrison housings can be configured to comply fully with British Gas requirements. Please see Technical Information.



TECHNICAL INFORMATION

PANEL COMPOSITION

External pigmented gelcoat backed with GRP laminate (resin and glass reinforcement) to either side of internal 18mm core materials of timber, plywood, insulating foam and steel inserts as relevant to each panel. Internally finished with washable, abrasion-resistant, flecked paint.

FIXING GROUNDS

Lightweight fixing can be carried out on any area of the foam core panel. Heavier fixing should utilise plywood core panels.

ROOFS

Fully insulated as standard. Roofs up to 2.5m span in lengths of 1m, 2m and 3m are usually supplied in one piece, otherwise they are supplied in a minimum number of sections. Roof spans 3m and above are always supplied in 1m long sections.

FLOORS

An 18mm thick slip-resistant phenolic-faced plywood, supported by treated softwood bearers, can be supplied as a subfloor. Alternatively, subframes and other flooring material can be supplied to individual requirements. Our Technical Staff will be pleased to discuss your particular application.

CORNER POSTS

Colour-matched GRP-coated aluminium posts.

GLAZING

4mm thick toughened glass, generally supplied in aluminium-framed windows.

DOORS

The standard single door is 880mm wide, right- or left-hand hung, outward opening only. The standard double doors are either 1250mm or 1754mm wide, outward opening only. All doors are fitted with s.s. furniture and door stays. 1m and 1.5m high doors have a Euro-profile cylinder mortice deadlock/escutcheon plate. All other doors have a Euro-profile cylinder mortice deadlock/handle set.

THERMAL INSULATION

Panels have 'U' values of:

Plywood core	2.96 W/m ² °C
Foam core	1.02 W/m ² °C
Roof	1.06 W/m ² °C

SOUND REDUCTION

A 'typical' housing will have sound reduction up to 20dB depending upon source, sound level and frequency of prevailing noise.

FIRE RATING

Externally, BS 476 Part 7 Class 2 surface spread of flame. Internally, BS 476 Part 7 Class 1 surface spread of flame which, together with results from BS 476 Part 6, allows the material to be defined as Class '0'. An improved system providing an external Class 1/0 laminate is available.

EXPLOSION RELIEF

Garrison housings can be configured to comply with applications requiring explosion relief for a maximum pressure of 35 mbar by a lifting roof option.

IMPACT TESTING

Impact testing in accordance with the recommendations of BS 4618 Part 1 Section 1:2 1972 has been undertaken. All plywood core wall panel samples resisted impact and through-penetration did not occur. All foam core wall and roof panel samples, when tested to 66% of the total impact energy available, resisted impact and through-penetration did not occur.

COLOURS

The standard external production colours are:

Beige [nearest reference BS 4800 (10.B.19)]	
Light Grey	BS 4800 (00.A.05)
Dark Green	BS 4800 (14.C.39)
Dark Brown	BS 4800 (08.B.29)

Any other standard BS / RAL colour can be provided at an additional cost, subject to availability. The standard internal colour is a natural 'off-white' GRP laminate surface.

WEIGHTS (APPROX.)

Examples:

1 x 1 x 1m high - 127kg	2 x 1 x 1.5m high - 255kg
2 x 2 x 2m high - 399kg	3 x 2 x 2.5m high - 638kg
4 x 3 x 3m high - 1201kg	

DELIVERY

Garrison housings are normally delivered in fully assembled form ready for the customer to base fix, seal and connect to services. Where access is restricted, housings can be delivered in panel form for on-site assembly.

BASE REQUIREMENTS

The minimum base size required is 250mm greater than the nominal internal housing size. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should preferably be raised slightly above the surrounding ground level.

BASE FIXING

Ensure that the panels are accurately aligned and the housing is completely square, i.e. the corners are at 90° and the diagonal dimensions are exactly the same. Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations. Finally, apply an external mastic seal to the perimeter of the housing.





Cabinets

Our range of steel cabinet enclosures offers long-term solutions for housing and protecting small instrumentation plant and electrical equipment. We frequently supply to utility companies, local authorities, construction businesses, and the rail sector.

Our double-skinned insulated cabinets are a popular choice for metering and electrical panels, where minimal temperature variation and low condensation levels are essential for the reliable operation of sensitive equipment.



■ Cadet™

DESIGN FEATURES

- IP-rated with foam insulation and timber reinforcement as appropriate.
- Plastic-coated steel construction will retain its smart appearance over many years.
- Marine grade stainless-steel option offers optimum performance in even the most extreme marine and coastal environments.

MATERIALS & CONSTRUCTION

Cadet Cabinets are type tested to IP56.

Available in plastic-coated steel or stainless-steel.

SIZES & SPECIFICATION

Available in a range of sizes (W x D x H). Single-door cabinets start from 450 x 250 x 400mm up to 1000 x 1000 x 2000mm. Double-door cabinets range from 1200 x 400 x 600mm up to 2000 x 1000 x 2000mm.

Optional features include gland plates, cable entries, inspection windows, ventilation and internal mounting rails.

CABINET SIZES

PLASTIC-COATED STEEL CABINETS & STAINLESS-STEEL CABINETS

WIDTHS (External)	DEPTHS (External)	HEIGHTS (Clear internal)						
		400mm	600mm	800mm	1000mm	1500mm	1800mm	2000mm
SINGLE-DOOR CABINETS								
450mm	250mm	✓	✓	✓	✓			
	400mm							
600mm	400mm	✓	✓	✓	✓			
	600mm							
800mm	400mm	✓	✓	✓	✓	✓	✓	✓
	600mm							
	800mm	✓	✓	✓	✓	✓	✓	✓
1000mm	400mm	✓	✓	✓	✓	✓	✓	✓
	600mm							
	800mm							
	1000mm							
DOUBLE-DOOR CABINETS								
1200mm	400mm		✓	✓	✓	✓	✓	✓
	600mm							
	800mm							
	1000mm							
1500mm	600mm		✓	✓	✓	✓	✓	✓
	800mm							
	1000mm							
2000mm	600mm		✓	✓	✓	✓	✓	✓
	800mm							
	1000mm							

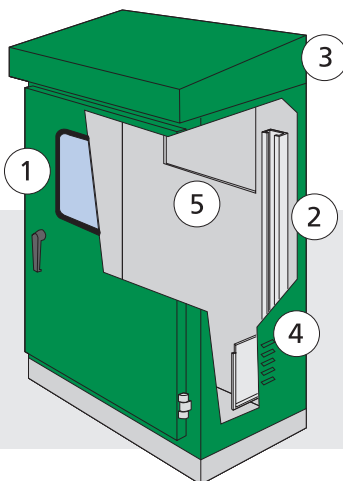
STAINLESS-STEEL CABINETS ARE MANUFACTURED USING 316 GRADE WHICH IS SUITABLE FOR MARINE ENVIRONMENTS.

AVAILABILITY

Average manufacturing time required for Cadet Cabinets is 3-4 weeks.

KEY TO ILLUSTRATION

- ① Inspection Window
- ② Internal Mounting Rails
- ③ Mono-pitched roof extended over door
- ④ Ventilation
- ⑤ Gland Plates



OPTIONAL FEATURES

COLOURS

Plastic-coated cabinets

Choice of four standard colours:

Ref. CC1 Beige

Ref. CC2 Light Grey

Ref. CC3 Dark Green

Ref. NSC For other colour options please contact our Sales Office.

STAINLESS-STEEL CABINETS

Natural brushed satin finish.

INSPECTION WINDOW

Ref. CC5 All sizes are supplied in 6mm thermoplastic.

FLOOR

Ref. CC8 2mm stainless-steel floor panel.

BASE FIXING BOLTS

Ref. CC9 High-load M8 x 80mm sleeved anchor bolts, supplied in sets of 4 or 6 depending on the cabinet size.

WALL MOUNTING FACILITY

Ref. CC10 Provision for wall mounting. Available to 450mm wide cabinets only.

POST MOUNTING FACILITY

Ref. CC11 Provided by a stainless-steel strap and bracket arrangement with internal fixings. Available to 450mm wide cabinets only.

VENTILATION

Ref. CC12 Fixed louvred grille size of 170 x 115mm with internal shroud and insect mesh.

INTERNAL MOUNTING RAILS

Ref. CC14 Mounting rails to the rear wall to facilitate the installation of equipment.

GLAND PLATES

Ref. CC15 To ease the installation of in-going cables and pipes.

CABLE ENTRIES

Ref. CC16 Up to 25mm dia. cable and 25-50mm dia. cable.

PADLOCKING FACILITY

Ref. CC17 Provided by means of 2 no. stainless-steel fittings.

LIFTING EYES

Ref. CC18 4 no. lifting eyes fitted to cabinet.

TIMBER BACKBOARD

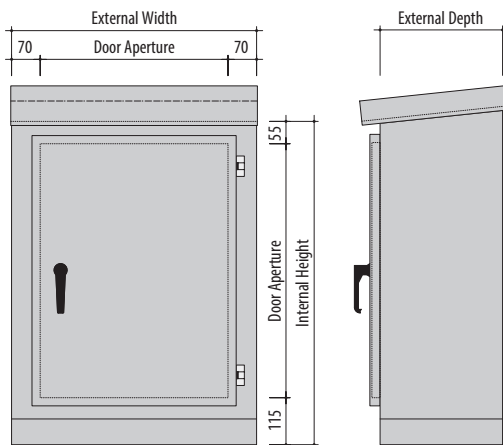
Ref. CC19 Pre-finished plywood backboard to provide fixing grounds for equipment and instrumentation.



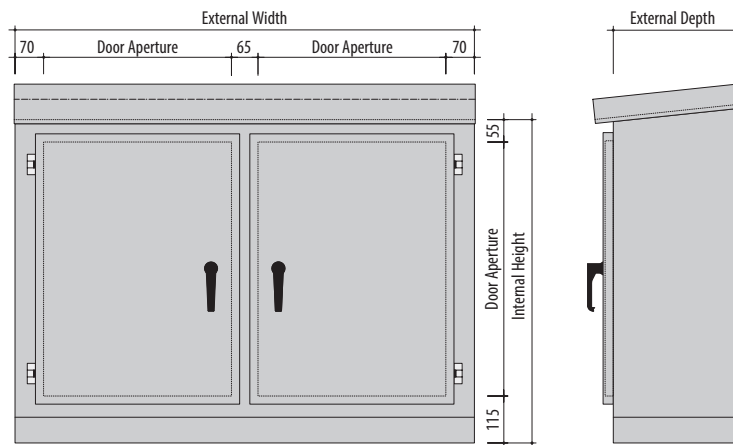
TYPICAL DIMENSIONS

To determine the door aperture size, subtract the door frame dimensions shown from the external width and internal height dimensions.
 Example: A 600mm wide x 1000mm high single-door cabinet has an aperture size of 460mm x 830mm.
 Cabinet dimensions are provided in the Sizes Table on the previous page.

SINGLE-DOOR CABINETS



DOUBLE-DOOR CABINETS



TECHNICAL INFORMATION

WALL COMPOSITION

Plastic-coated cabinets

0.7mm plastic-coated steel outer and inner panels with 25mm foam insulation.

Stainless-steel cabinets (316 grade)

0.9mm stainless-steel outer and inner panels with 25mm foam insulation.

ROOF COMPOSITION

Plastic-coated cabinets

0.7mm plastic-coated steel outer and inner panels with 50mm foam insulation.

Mono-pitched and extended over the door to provide additional weather protection.

Stainless-steel cabinets (316 grade)

0.9mm stainless-steel outer and inner panels with 50mm foam insulation.

Mono-pitched and extended over the door to provide additional weather protection.

DOOR COMPOSITION

All doors are outward opening and single doors are right-hand hung as standard but can be left-hand hung if required.

Door furniture includes black polyamide locking handle and stainless-steel cam action locking plate, stainless-steel hinges and door restraint.

All cabinets with a height below 1500mm have one door locking handle and a three-point locking arrangement. Cabinets with a 1500mm height and above have two door locking handles which provide a four-point locking arrangement.

Plastic-coated cabinets

Composite panel with 0.7mm plastic-coated steel outer and inner panel with 25mm foam core.

Stainless-steel cabinets

Composite panel with 0.9mm stainless-steel (316 grade) outer and inner panel with 25mm foam core.

FLOOR COMPOSITION

Plastic-coated and stainless-steel (316 grade) cabinets

2mm stainless-steel panel. Options of 25mm plywood reinforcement or 25mm foam insulation with 1mm stainless-steel inner panel.

INSULATION

Plastic-coated and stainless-steel cabinets

'U' value = 0.78 W/m²C.

VENTILATION

Two fixed louvred grille vents are fitted as standard to each cabinet. These are positioned at high level and low level on opposite side walls (with both at low level on 400mm high cabinets).

FIRE RATING

Plastic-coated and stainless-steel cabinets

BS476 Part 7 Class 1 to external panel.

COLOURS

Plastic-coated cabinets

The standard external production colours and their nearest BS4800 references are:

Beige	10.B.19
Light Grey	10.A.05
Dark Green	12.B.27

Stainless-steel cabinets

Natural brushed satin finish.

WEIGHTS (APPROX.)

Plastic-coated and stainless-steel cabinets

450(w) x 250(d) x 600mm(h)	- 30kg
1000(w) x 600(d) x 1000mm(h)	- 120kg
1500(w) x 1000(d) x 1800mm(h)	- 300kg
2000(w) x 1000(d) x 1800mm(h)	- 400kg

IP RATING

The plastic-coated single-door cabinets have been type tested to BS EN 60529 : 1992 + A2 : 2013 (degrees of protection provided by enclosures). They achieved a rating of IP56, signifying they are protected against harmful dust and powerful water jets.

For further details of IP ratings, please contact our Sales Office.

DELIVERY

Cadet cabinets are delivered in fully assembled form ready for site installation by others.

BASE REQUIREMENTS

The minimum base size required is 100mm greater than the overall size of the Cadet Cabinet. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should preferably be raised slightly above the surrounding ground level.

BASE FIXING

Ensure that the panels are accurately aligned and the cabinet is completely square, i.e. the corners are at 90° and the diagonal dimensions are exactly the same.

Base fixing (by the customer) is accomplished using the expanding anchor bolts supplied. Refer to the base fixing instructions supplied with the fixings for correct installation in accordance with the manufacturer's recommendations.

Finally, apply an external mastic seal to the perimeter of the cabinet.



■ Citadel™

DESIGN FEATURES

- The forward-sloping roof prevents rainwater and debris from collecting on top of the cabinet.
- Its IP56 rating protects against harmful dust ingress and strong water jets.
- The plastisol external finish is resistant to abrasion and vandalism.
- Citadel requires minimal maintenance and does not need coating or painting.
- Its flush-back design allows it to be sited against walls without creating dirt traps.
- The 2mm Grade 304 stainless-steel chassis minimises corrosion from ground contact and provides a strong, robust base frame with integrated fixing points for secure ground fixing.

MATERIALS & CONSTRUCTION

Constructed from plastic-coated steel with a 2mm stainless-steel chassis, and featuring all-round double-skinned insulation and a reinforced door, Citadel cabinets are built for strength and durability.

SIZES & SPECIFICATION

Citadel cabinets are available in three different industry standard sizes.

BASE REQUIREMENTS

The minimum base size required is 100mm greater than the overall size of the Cadet cabinet. Assuming no suitable existing surface, the base should be a minimum of 125mm concrete on well-consolidated hardcore. The concrete should be of minimum C20/25 grade in accordance with BS8500 Concrete: The Complementary British Standard to BS EN 206-1. The base should preferably be raised slightly above the surrounding ground level..

BASE FIXING

We recommend permanent ground fixing into concrete foundations using anchor bolts; or adjustable-depth, concrete-in anchors (supplied complete with a locating plate) for installation directly into new concrete foundations. Refer to the appropriate base fixing instructions supplied for correct installation in accordance with the manufacturer's recommendations.

CABINET SIZES

Citadel
639



Citadel
659



Citadel
9512



Citadel

Model	Width (mm)	Depth (mm)	Height (mm)	STANDARD FEATURES					OPTIONAL FEATURES
				IP56 or with Ventilation	Double-Skinned Insulated Walls & Roof	Reinforced Double-Skinned Insulated Door	T-Handle Lock or Flush Triangular Lock	Colour*	Pre-finished plywood backboard
Citadel 639	600	300	900	✓	✓	✓	✓	Merlin Grey (18-B-25)	✓
Citadel 659	600	500	900	✓	✓	✓	✓	Merlin Grey (18-B-25)	✓
Citadel 9512	900	500	1200	✓	✓	✓	✓	Merlin Grey (18-B-25)	✓

*Alternative plastic-coated steel colours are available subject to a minimum quantity order.



Customer-Led Projects & Personalisation



Most of our buildings and housings can be configured to meet specific project and installation requirements, ensuring each solution is aligned with your operational needs.

Every project presents its own challenges, which is why we work closely with our customers to develop solutions tailored to their application.

The following pages feature customer-led projects and examples of how customers have personalised their buildings after installation, demonstrating the versatility of our buildings in practice.

Toll Booths for the Humber Bridge

The Humber Bridge was the longest suspension bridge in the world when it opened in 1981 to cut the journey from Hull to Grimsby by 50 miles.

The bridge underwent major refurbishment beginning in the summer of 2013, with lanes resurfaced and a separate project to install an Electronic Toll Collection (ETC) scheme. The Humber Bridge Board selected Spanish systems integrator SICE to renovate the tolling system, which included replacing the entire toll plaza.

SICE contacted Glasdon to supply new toll booths. Working in partnership with our technical buildings team, the client wanted to modify a custom model we had made several years earlier for a similar project on the Tamar Bridge. After securing permission from the Tamar Bridge and Torpoint Ferry Joint Committee to use the concept we prepared for them, the booths were modified by our experts to accommodate the systems used for the Humber Bridge project.

SICE purchased six new booths. Installation had to be precisely arranged and managed to minimise disruption to the busy traffic route, which is used by more than 140,000 vehicles a week. Our dedicated team of specialist engineers worked off-peak hours and weekends to ensure the work was completed to schedule.



GARRISON : Scaling New Heights for the Telecoms Industry

The established Garrison Modular Housing range has provided unique solutions to numerous challenging and individual applications for over 40 years, with our clients' specific needs always at the forefront. Since 2017, Garrison has been the mobile telecom industry's preferred choice for the provision of robust, durable and high-quality GRP Foul Weather Enclosures (FWEs) for various network installations within the UK. To date, more than 250 fixed specification enclosures have been supplied, predominantly throughout the Highlands and Islands of Scotland, often in remote and inaccessible locations.



About WHP Telecoms

When it comes to network coverage and telecommunications infrastructure, few companies are as experienced and customer oriented as WHP Telecoms Limited. Offering their bespoke telecom solutions up and down the country, WHP are the industry leader in both mobile and fixed network solutions.

As a Tier 1 provider, WHP have previously partnered with industry staples like BT, Vodafone, and Virgin Media, whilst also working alongside important institutions such as the Home Office and the Scottish Government. With over 35 years of expertise, WHP have garnered one of the largest and most professional telecoms workforces in the UK, able to deploy their expert services across the nation.

The Challenge

In March 2024, WHP Telecoms contacted us regarding the urgent provision of a Garrison FWE for a live project in the Scottish Highlands to protect critical telecoms equipment. The location in question was one of the highest altitude cell sites in the UK (at 1080m above sea level) and extremely exposed, with windspeeds up to 124mph likely to be encountered.



The Solution

Our Garrison™ (GRP) Modular Housing Range was selected due to its proven track record for the provision of safe, secure equipment accommodation in similar demanding applications. For complete peace of mind, swift (independent) structural analysis of the enclosure confirmed its suitability for this extreme site.

Supplied with an electrical installation comprising of lighting, power, ventilation, and cable management to minimise installation time on site, the Garrison FWE fully complies with relevant telecoms industry specifications and can be quickly and easily tailored to meet individual customer requirements.

Due to the restrictive mountain top site, neither fully assembled delivery nor kit-form supply for on-site assembly was a viable option. Instead, rotating lifting eyes were fitted to allow delivery to final site by helicopter!



The Result

In accordance with the client's end of May 2024 deadline, assembly of the Garrison FWE was fully completed, and it was transport to a location close to the mountain top. From there, WHP Telecoms arranged for a suitable helicopter to airlift the enclosure up to the cell site and safely position it on the prepared concrete base, where it was securely base fixed and sealed by their experienced site engineers.

Peter Burnell, Programme Manager at WHP Telecoms, had this to say:

'Glasdon's performance was exceptional. We urgently needed a Garrison Foul Weather Enclosure specifically designed for a high-altitude location. They were highly reactive, easy to deal with, and proactive in providing updates, all leading to the speedy delivery of this bespoke Garrison. This effectiveness allowed us to deliver for our client within challenging time frames and constraints. Thank you!'





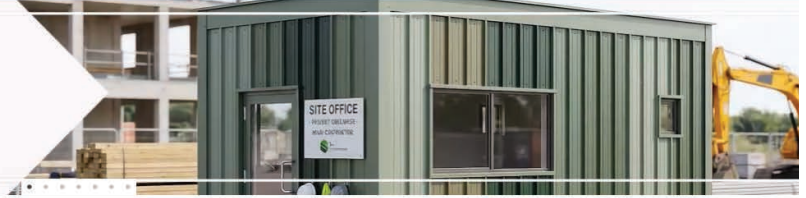


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Glasdon has specialist experience in the design, manufacturing, delivery and installation of prefab GRP buildings and steel portable housings. From office accommodation and security gatehouses to industrial equipment enclosures, we've got the technical expertise to help you.

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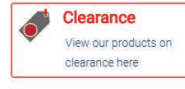
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Glasdon U.K. Limited

Buildings & Housings Division
Poulton Business Park
Poulton-le-Fylde
Lancashire
FY6 8JW

Tel: (01253) 600418

Fax: (01253) 792558

E-mail: bh@glasdon-uk.co.uk

Web: www.glasdon.com

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