



# Modular Site Accommodation

Complete site solutions in a single building

Version 3.0

# What We Do

We are Algeco. The market-leading UK provider of modular and portable space solutions.

## Our purpose

Together, we build sustainable futures.

## Almost 60 years of hire solutions

We've been helping organisations solve their temporary space challenges quickly, easily and cost-effectively for 60 years.

## A huge product range

We can provide everything you need – from a single storage unit for a few weeks, to hiring large multi-storey open-plan offices, to buying a state-of-the-art £multi-million architecturally designed permanent building. Plus, all our accommodation solutions are available as turnkey packages with internal and external facilities, so all you have to do is move in!

## The Algeco Range



# Why Algeco?

Save time, hassle, and expense managing multiple suppliers. Our hire products are available instantly nationwide, with quick, hassle-free installation.



## Turnkey Solutions

Our turn-key services provide all the exterior and interior facilities you need for your project through one point of contact.



## Best Value

Through economies of scale, our products and services balance quality to offer you the best value possible.



## Availability

With over 40,000 portable and modular units for rent in the UK, we have the best product availability on the market.



## UK-Wide Service

With locations throughout the UK, we can deliver and install your portable buildings directly to your site, no matter where you are.



## Health and Safety

Leading safety practices on both customer sites and throughout Algeco operations.



## ESG and Sustainability

Comprehensive strategy, equality, diversity & inclusion and social responsibility are at the core of our values.






# Strength in Depth

## Algeco is part of the Modulaire Group

Europe & Asia Pacific's leading business service company specialising in modular space.

-  23 countries with operations in Europe and Asia Pacific
-  5100 employees around the world
-  330,000 modular space and storage units
-  180 depots and branches
-  56,000 customers globally in diverse end markets

## Algeco UK Limited

-  1,200 employees within the UK
-  80,000 units ranging from containers to multi-storey buildings
-  22 branches covering the whole of the UK





# Turnkey Solutions



### Complete site set up through one point of contact

Building structures are only part of Algeco hire solutions. Our one-stop-shop provides all the interior and exterior details of your temporary building hire, installed and ready to go.

### Whole solutions, not just building shells

Avoid juggling multiple suppliers, purchase orders and invoices. Arrange everything from fencing and furniture to fire safety equipment and white goods before your accommodation arrives.

We can even supply Wi-Fi data, display your branding on the outside of your building and keep consumables like hand sanitiser stocked up.

### Make life easier

Sourcing everything you need from one provider means you and your teams can get to work faster with less hassle. It also means you spend less time coordinating and communicating with suppliers, which results in fewer moving parts on-site.





Here's a selection of interior and exterior products and services we can include with your temporary accommodation.

- **Anti-Vandal Secure Storage**
- **Branding**
- **Catering Equipment & Commercial Kitchens**
- **Climate Control Systems**
- **Hygiene Solutions**
- **Easyflo Water Bowers**
- **Effluent Tanks**
- **Electrical Service Testing**
- **Fencing & Barriers**
- **Fire Safety Equipment**
- **First Aid Kits**
- **Fuel Boxes**
- **Furniture Hire**
- **Generators & Battery Solutions**
- **Jackpad Foundations**
- **Security Lockers**
- **Service Connections**
- **Smart Tech & Sockets**
- **Smoking Shelters**
- **Steps, Staircases & Ramps**
- **Storage Container Accessories**
- **Washroom Consumables**
- **White Goods**
- **Wi-Fi Data**

# Introducing Moduflex®

Moduflex® is the market-leading modular building system purpose-designed for temporary use, available in a wide range of applications.



## Welfare facilities

A host of welfare facilities including commercial kitchens, canteens, changing rooms, toilets and showers to complement your office accommodation.



## Light, bright & airy

At 2.5 metres tall, Moduflex® has a higher internal ceiling than most equivalent building systems, creating a bright and airy environment filled with natural light.



## Total flexibility

Our patented design can be stacked and linked to create large, open spaces up to three storeys high. Variable wall, window, and door panels remove easily and completely, to create different layout configurations with minimal restrictions.



## Quick & easy installation

Install requires minimal planning permission and groundworks, unlike traditional semi-permanent modular systems. This means less hassle, fewer disruptions, and better health and safety for everyone on site.



## Easy maintenance

The all-steel external and internal construction is robust, easy to clean and simple to repair should something go wrong.



## Safe & secure

Internally-operated integral window roller shutters promote a more secure and private environment, day and night.



### Reduce heat loss

Double glazed PVC-U windows equivalent to 'A'-rated energy performance improves thermal and acoustic insulation. It also reduces heat loss and cold drafts to create a warm, comfortable environment.



### Use less electricity

PIR sensors automatically switch off when spaces are not in use to further reduce energy usage. Daylight dimming LED lighting is also available.



### Save water

Waterless urinals, non-concussive taps with flow restrictors, and dual flush toilets reduce unnecessary water consumption.



### Responsibly made

Moduflex® is made using responsibly sourced, recycled PVC-U and recyclable timber sourced from certified/managed forests.



### Smart energy usage

Time-controlled heating and instantaneous water heaters reduce energy consumption without compromising warmth and comfort.



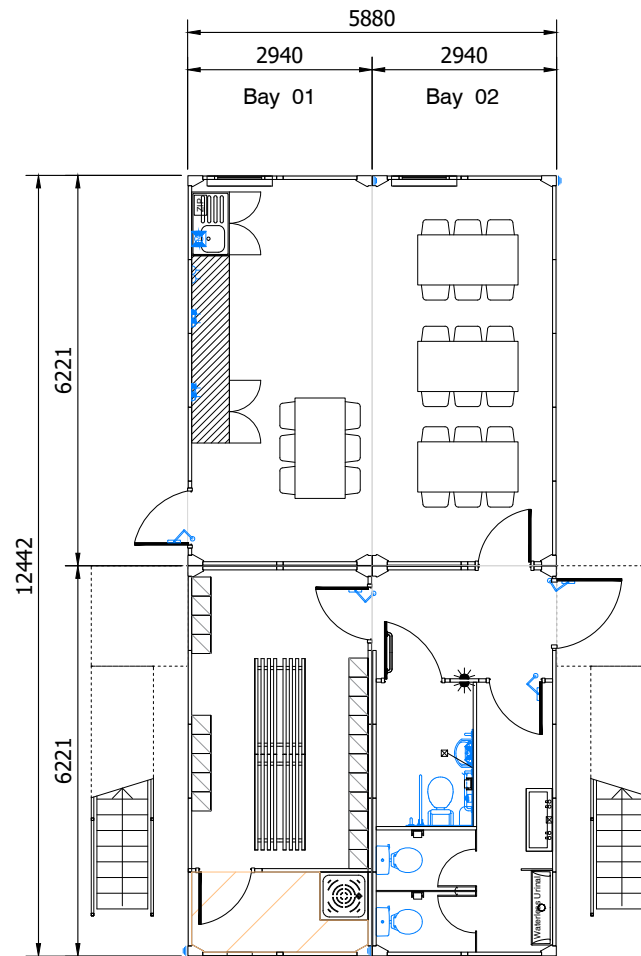
# Moduflex® Layouts

Moduflex® is a fully modular solution. This allows you to create many different designs and layouts for a wide range of applications. Here's a selection of our popular configurations.

# Type A

## Overview

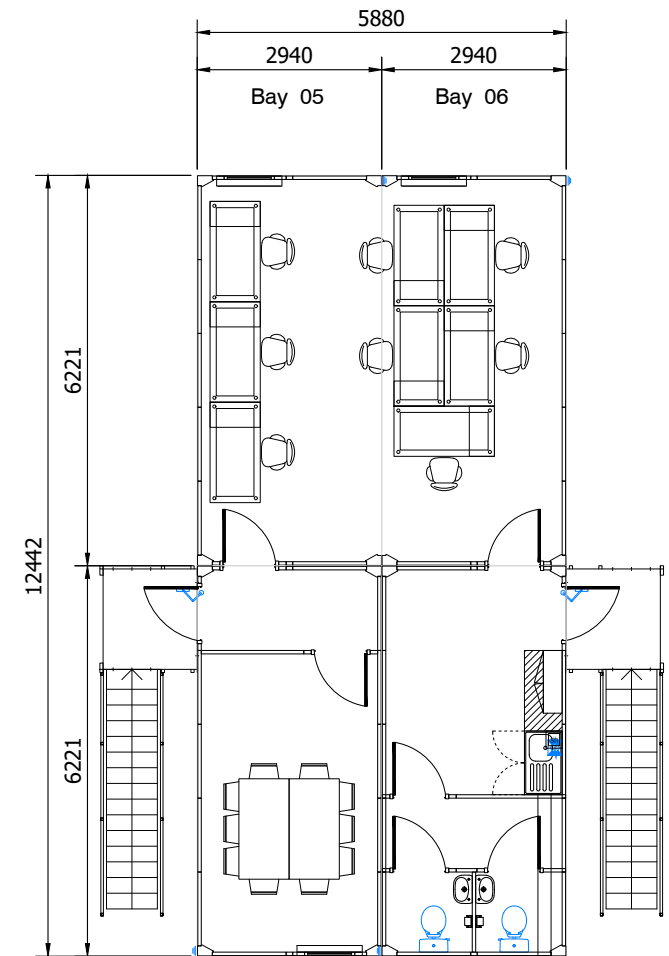
- 8 Bay Complex
- Open Office (for circa 8 people)
- 24/48 Person Welfare
- Meeting Room
- Changing Facilities
- Shower Facilities



Ground Floor

Bay 03

Bay 04



First Floor

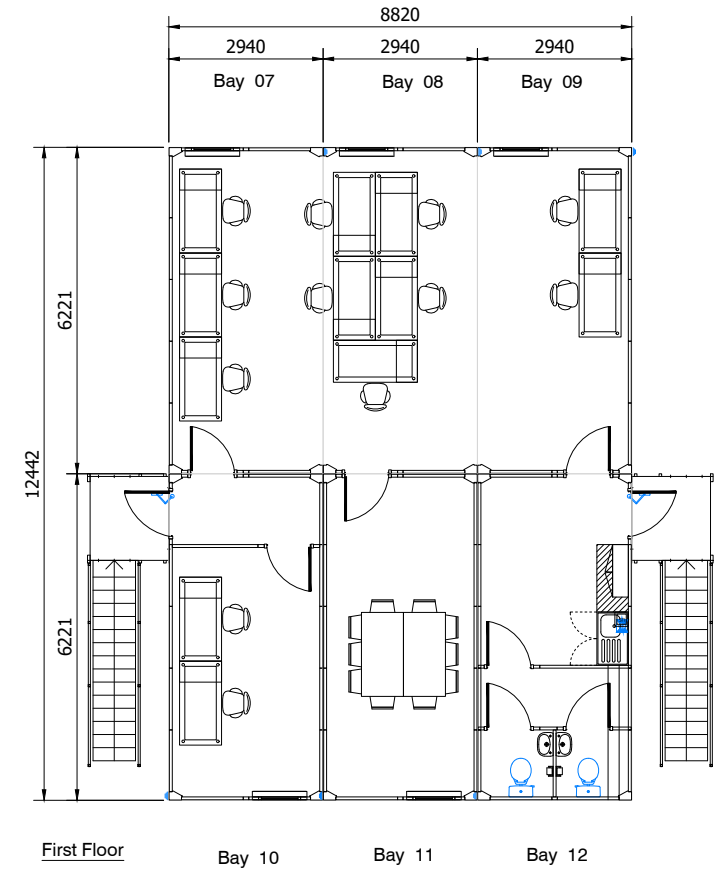
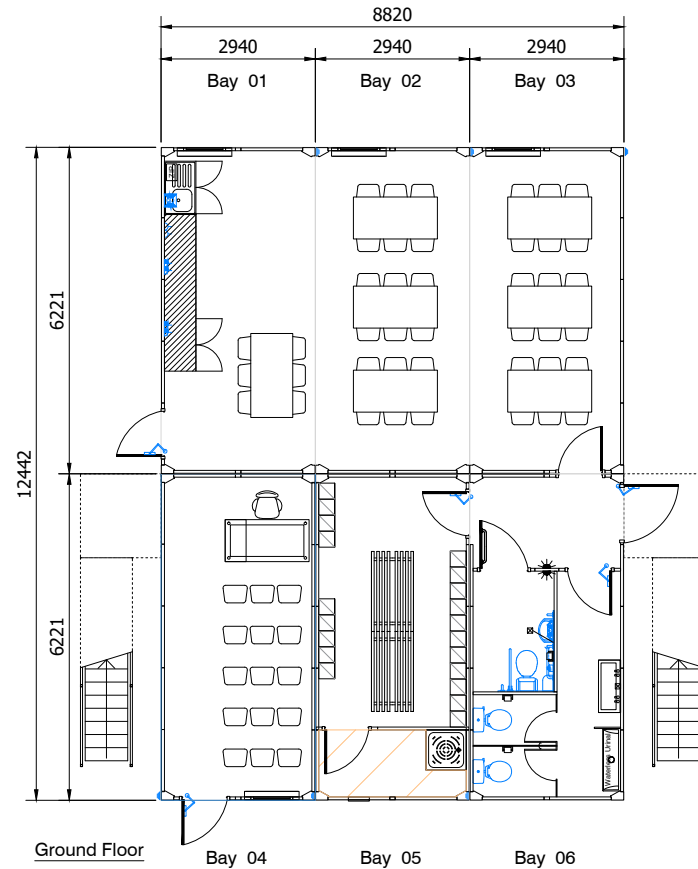
Bay 07

Bay 08

# Type B

## Overview

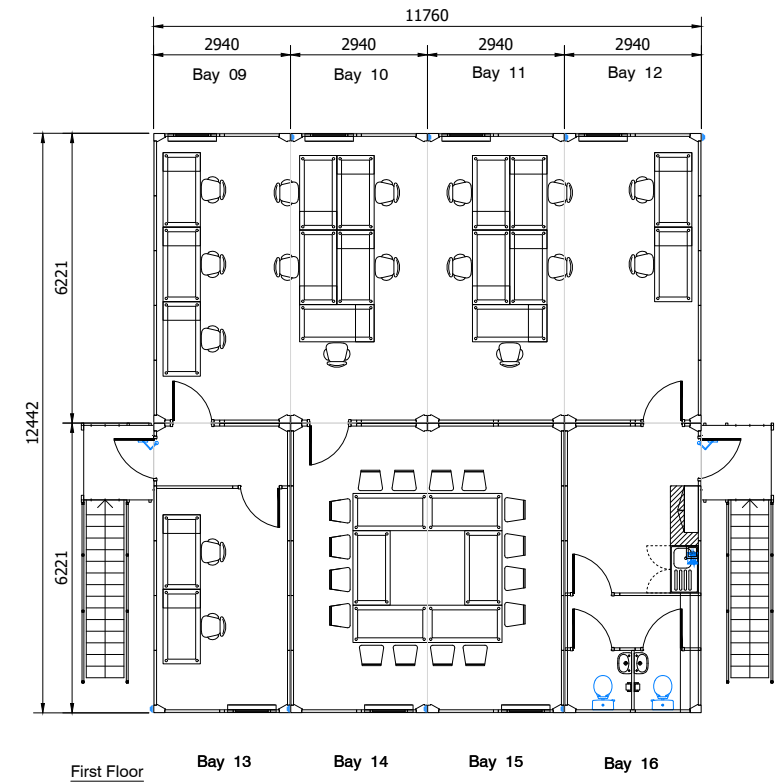
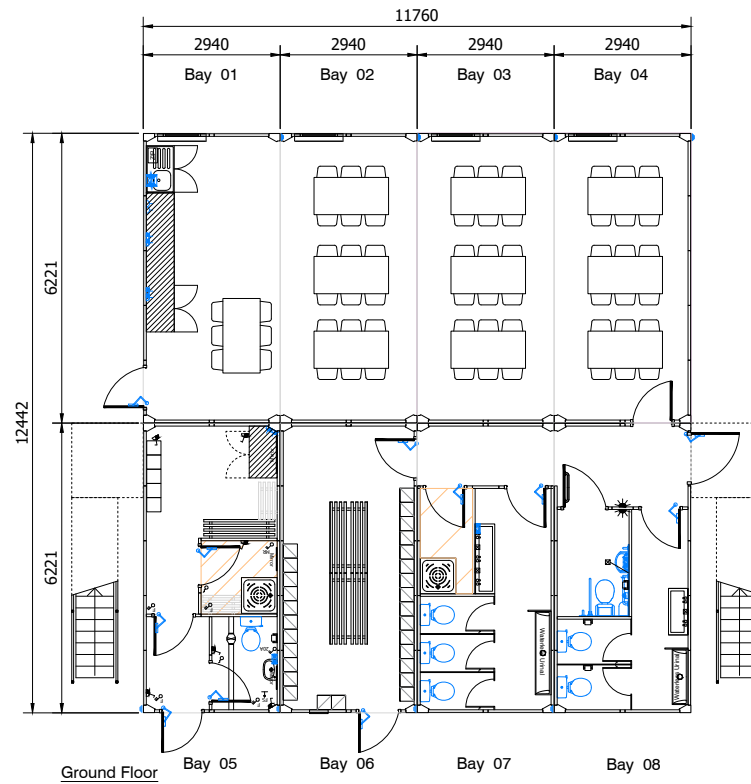
- 12 Bay Complex
- Open Office (for circa 10 people)
- 48–84 Person Welfare
- Meeting Room (to suit max 10 people)
- Changing Facilities
- Shower Facilities



# Type C

## Overview

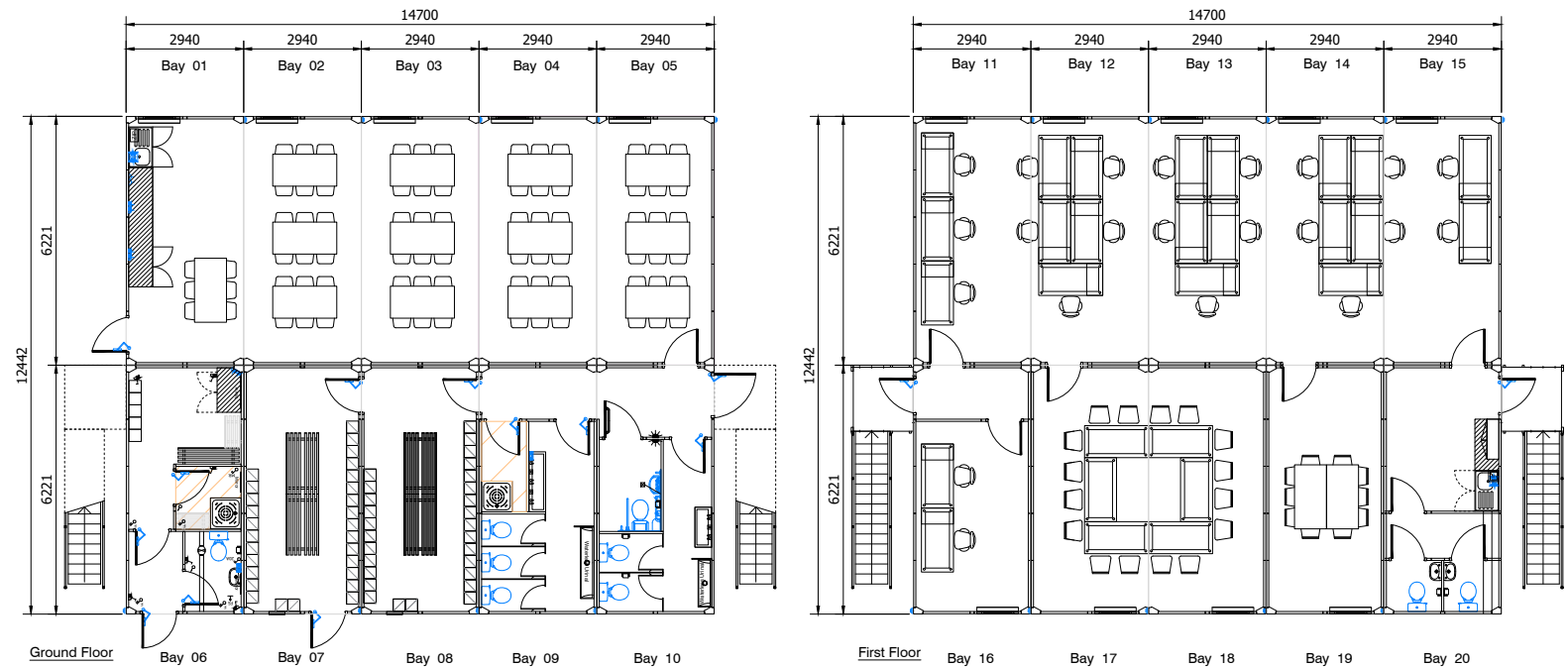
- 16 Bay Complex
- Open Office (for circa 15 people)
- 60–120 Person Welfare
- Large Meeting Room (to suit max 20 people)
- Changing Facilities
- Shower Facilities



# Type D

## Overview

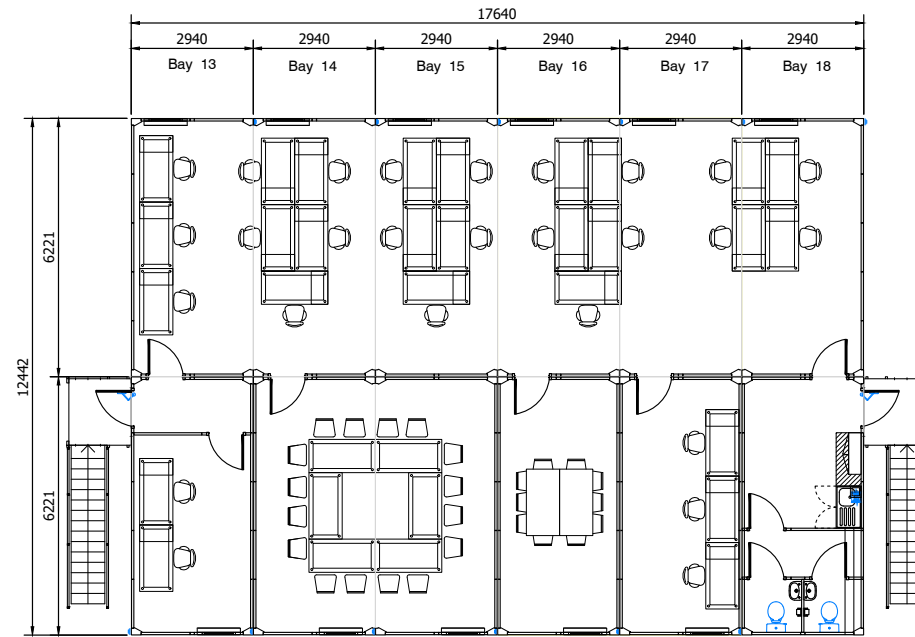
- 20 Bay Complex
- Open Office (for circa 20 people)
- 78–156 Person Welfare
- Large Meeting Room (to suit max 20 people)
- Small Meeting Room (to suit max 12 people)
- Changing Facilities
- Shower Facilities



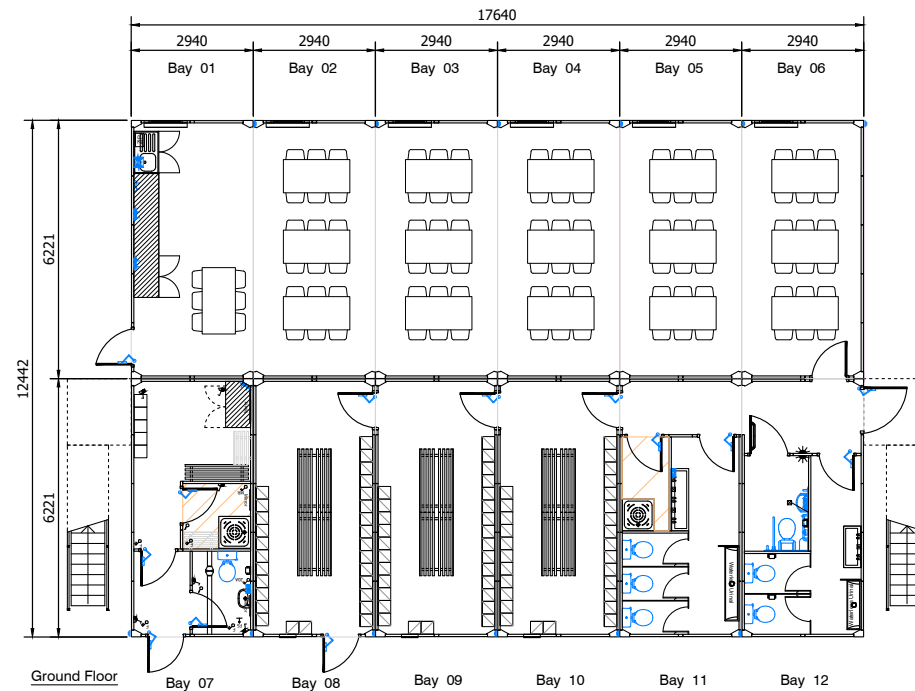
# Type E

## Overview

- 24 Bay Complex
- Open Office (for circa 22 people)
- 104–256 Operatives
- Large Meeting Room (to suit max 20 people)
- Small Meeting Room (to suit max 12 people)
- Changing Facilities
- Shower Facilities



First Floor

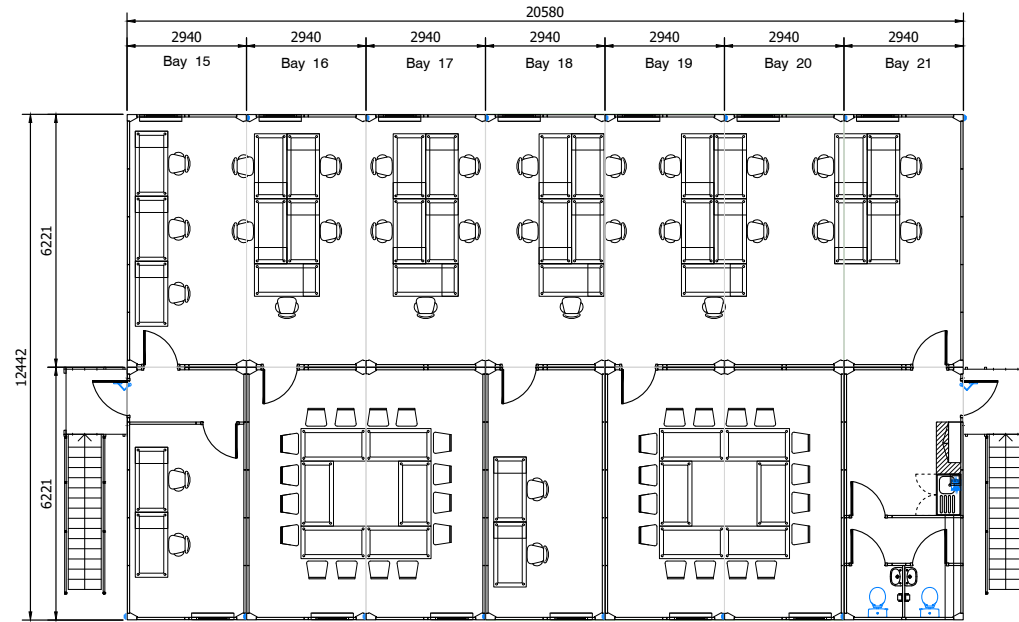


Ground Floor

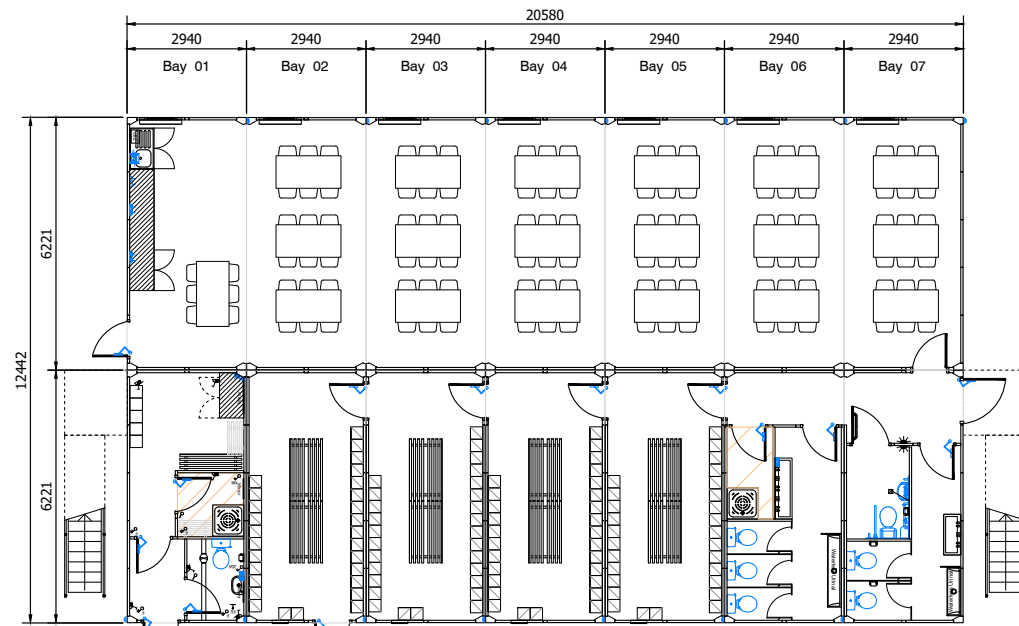
# Type F

## Overview

- 28 Bay Complex
- Open Office (for circa 27 people)
- 96–192 Person Welfare
- Large Meeting Rooms (to suit max 20 people each)
- Changing Facilities
- Shower Facilities



First Floor



Ground Floor

# Type G

## Overview

- 36 Bay Complex
- Open Office (for circa 50 people)
- 84–168 Person Welfare
- Large Meeting Rooms (to suit max 20 people each)
- Small Meeting Room (to suit max 12 people)
- Changing Facilities
- Shower Facilities



# Type H

## Overview

- 36 Bay Complex
- Open Office (for circa 50 people)
- 96–192 Person Welfare
- Large Meeting Room (to suit max 20 people)
- Small Meeting Room (to suit max 12 people)
- Changing Facilities
- Shower Facilities



# Type I

## Overview

- 42 Bay Complex
- Open Office (for circa 54 people)
- 96–192 Person Welfare
- Large Meeting Rooms (to suit max 20 people each)
- Small Meeting Room (to suit max 12 people)
- Changing Facilities
- Shower Facilities



# Our Best Selling Facilities

Creating your one-stop-shop solution



## Furniture Hire

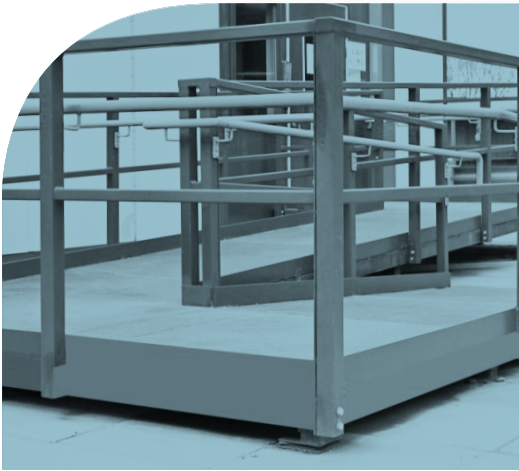
- Furniture is essential for all buildings. We offer a wide range of complete office, meeting/conference room, canteen and drying room packages, to get you up and running on day one.
- We have a choice of workstations, chair types and storage units for every application, providing quality furniture that is built to last.
- Hassle-free with no delays – Our furniture is delivered assembled and ready to go inside your building.
- Maintenance-free – Avoid problems associated with managing, storing, maintaining and disposing of furniture you purchase. We simply take it away when you no longer need it. Sorted.
- Additional options available – Include reception area furniture, space-saving tall lockers & drawers for hot-desking and job-sharing environments, hygiene screens, privacy screens and recycling bins.



## Climate Control

- Climate control systems substantially increase energy efficiency and equally reduce CO<sub>2</sub> emissions compared to convector heaters, for better environmental sustainability.
- Lower energy consumption means you could save hundreds of £ in electricity costs every year.
- Systems optimise user comfort all year round, for improved productivity benefits.
- High (split) and low-level systems are available including servicing and maintenance.
- Low-level systems both heat and cool, can save up to 56% on energy costs\* and can be easily retro-fitted to buildings already on hire.
- Costs are lower than you think – starting at just £2.29 per week\* for a low level system.

\*Based on Algeco heating cycle comparison for an existing customer (July 2021). A copy is available on request.



## Ramps & Steps

- Provide safe, quality and sustainable means of accessing your building, for a professional solution.
- Ensure compliance with Building Regulations Part M (Access to and use of buildings) and Part K (Protection from falling, collision and impact) by providing ramps and steps.
- Quality modular ramps – Are needed for public access buildings. Our ramps are fully adjustable and made of steel for robustness, durability and non-combustibility. Configurations are customised to your site conditions and installed rapidly. Ramps can be modified, adapted, removed and re-used for a fully flexible, sustainable solution.
- Quality modular steps – Most commonly specified for site accommodation applications and as entry-level access solutions. Fully adjustable and made from steel for non-combustibility.
- Sustainable and cost-effective recycled plastic options are also available.
- Full service included – Site surveys (where required), installation and removal.



## Fire Protection

- The safety of everyone on site should be the first priority. That includes temporary or additional buildings, which should always be fitted with fire protection equipment.
- Fire Alarms – Developed specifically for the Construction industry, we offer wireless fire points, smoke & heat detectors and base stations, all certified to relevant standards, including the Fire Protection Association Joint Code of Practice.
- Cost-effective wired fire alarms are also available.
- Fire Extinguishers – We offer the full range of options – Water (General purpose), Foam (Multi-Risk environments), Powder (Highly flammable materials) and CO<sub>2</sub> (Electrical equipment), along with stands and mobile trolleys. Plus dedicated units for safely recycling used extinguishers.
- Our options available are suitable for use in portable, modular and traditional permanent buildings.



## Generators

- For hire from 20kVA to 1260kVA, with cables and a distribution board (MDU).
- 60-hour runtime and smart telemetry included as standard.
- Unlimited hours and fuel management available as options.
- Plenty of options to reduce environmental impact, including Stage V-compliant generators, HVO-fuelled generations and hybrid generator sets.
- Hybrid generator sets are ideal for brownfield or urban sites where noise pollution might disturb the local community or be in breach of local noise guidelines.

# Introducing Fireflex®

Fireflex® offers all the benefits of our market-leading Moduflex® temporary modular building system, with added fire-rated performance to exceed fire safety standards, and the competition.

Robust factory-engineered modules make Fireflex® the perfect temporary building solution for brownfield sites and locations with a close proximity to other buildings.



## Exceed fire safety standards

Specifically designed to provide enhanced fire protection, the structure forms a fire-rated enclosure to the module which helps operators exceed the requirements of the Joint Code of Practice (JCoP).



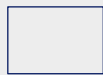
## 60-minute fire-rated

Each element of the building provides (from inside to out) a minimum performance of 60 minutes and provides a high level of fire protection to both the occupants of the modular structure and adjacent buildings and properties.



## Built to last

The Fireflex® building system has a design life of 50 years. The standard lacquer coated steel finish has a predicted service life of up to 20 years before its first repaint.



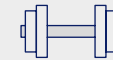
## Active fire curtain

Each opening window is fitted with active fire curtain barriers. The Vii®Fire product is a compact manual roller system tested up to 1000°C. The Fire Curtain is concealed in a steel casing above the window on the internal face. If the thermal fuse reaches 135°F/57°C, the Vii®Fire system will deploy to provide a protective barrier.



## Ideal for inner-city use

Fireflex® is 2.4m wide and ideal for restricted sites where the required 6m fire break cannot be achieved. In some cities, a movement order will not be required which saves time, cost, and makes choosing installation times/dates easier.



## Strong & stable

Fireflex® has been successfully assessed for its strength and stability. The building system has been assessed in accordance with Eurocode UK National Annexes in one, two and three storey configurations.



# Fireflex® Layouts

Fireflex® allows you to create many different designs and layouts for a wide range of applications. Here's a selection of popular configurations.

# Type A

## Overview

- 12 Bay Complex
- 10–12 Person Office
- 30–60 Person Welfare
- Meeting Room
- Changing Facilities
- Shower Facilities



# Type B

## Overview

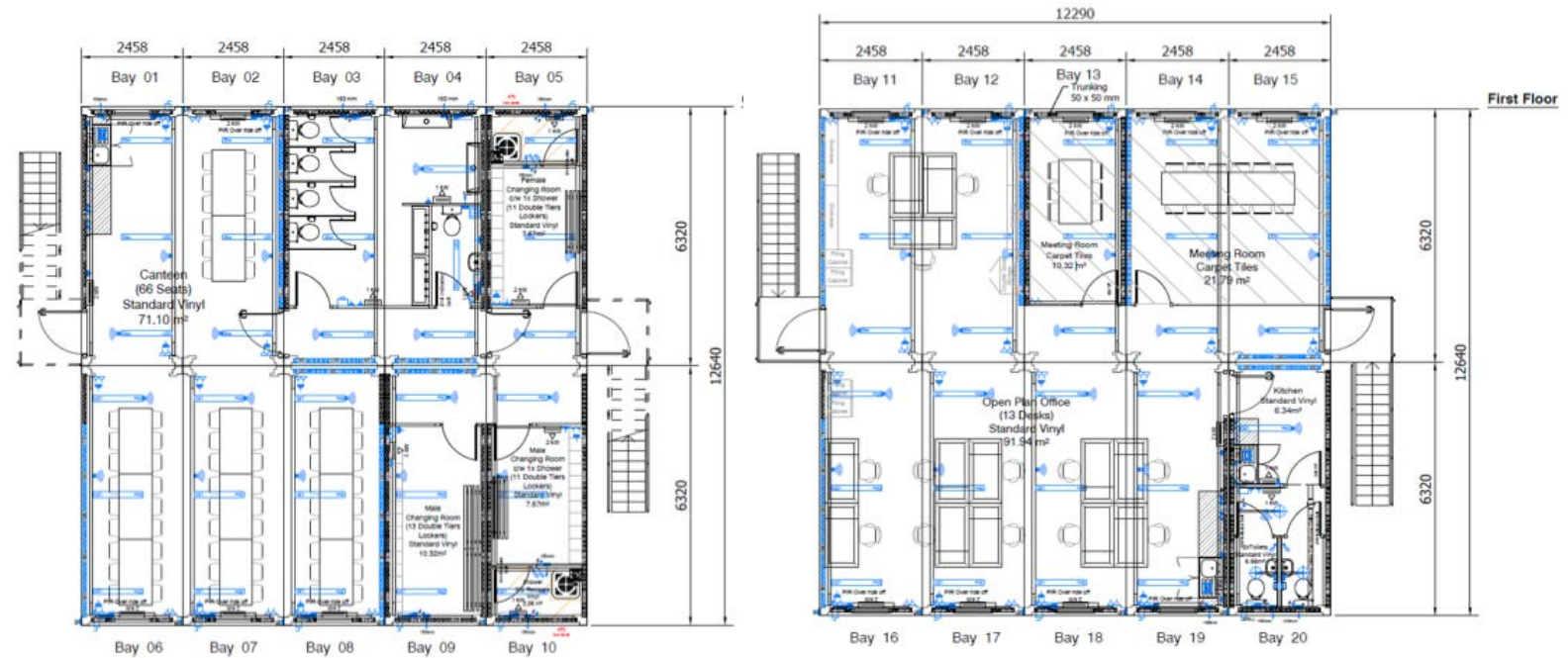
- 16 Bay Complex
- 12–14 Person Office
- 42–84 Person Welfare
- Meeting Room
- Changing Facilities
- Shower Facilities



# Type C

## Overview

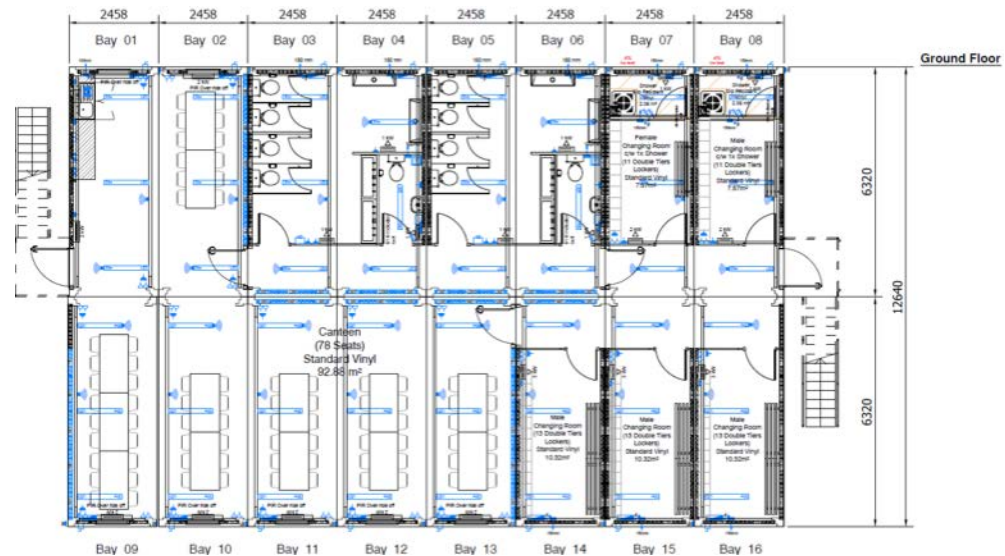
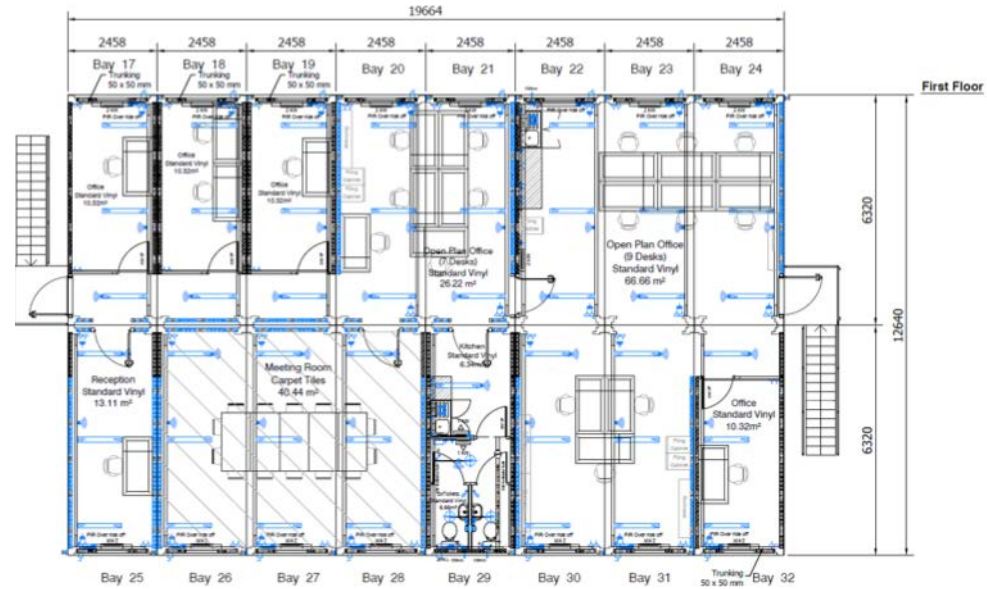
- 20 Bay Complex
- 16 Person Office
- 66–132 Person Welfare
- Meeting Room
- Changing Facilities
- Shower Facilities



# Type D

## Overview

- 32 Bay Complex
- 20 Person Office
- 78–156 Person Welfare
- Meeting Room
- Changing Facilities
- Shower Facilities



# Ensuring compliance with JCoP 10.2

The Joint Code of Practice on the Protection from Fire on Construction Sites and Buildings Undergoing Renovation (JCoP) provides guidance for managing fire risk on construction projects.

The scope of JCoP 10.2 generally applies to:

- Projects where temporary site accommodation is used on contracts with a main value of £2.5m or above
- Smaller contracts where they form part of a larger construction project

Compliance with the Code is often required by insurers, meaning non-compliance could affect insurance cover for the project.

JCoP 10.2 and HSG168

JCoP 10.2 works alongside the Health & Safety Executive guidance – Fire Safety in Construction (HSG168).

Both documents require that where temporary buildings are vertically stacked, the floor/roof assembly between units must achieve 30 minutes fire resistance for loadbearing, integrity and insulation (REI). This applies even where the buildings are located more than 6m from the permanent structure.

[VIEW OUR JCoP GUIDE](#)

## What you need to do for your site accommodation to comply with JCoP 10.2

### Less than 6 metres clear fire break

Clause 13.2 states that temporary buildings should be separated from the building under construction and other permanent structures by as wide a fire break as reasonably practicable.

Where possible, this should be at least 10m, but a minimum of 6m is commonly applied. If a 6m fire break cannot be achieved, the temporary building must be fire-rated in accordance with Clause 13.3.

For high-risk buildings such as large timber frame structures, the recommended separation increases to 20m.

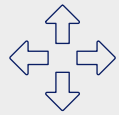
### More than 6 metres clear fire break

Where the recommended separation distance (6m or 20m for high-risk projects) is maintained, single-storey temporary buildings generally do not require additional fire-rating.

However, stacked buildings must still achieve 30 minutes fire resistance between floors, as set out in Clause 13.6 and HSG168.

# Introducing Containex®

Containex® is an innovative modular building system with unrivalled versatility.



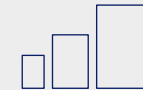
## Versatile

Suitable for a wide range of uses – classrooms and training rooms, offices, wellbeing centres, nurseries.



## Turnkey Solutions

Turn-key project solutions, including, planning & building regulations approvals, foundations, generator hire, furniture, air-conditioning etc.



## Multiple Sizes

From a single unit to three-storey 2,500m<sup>2</sup> building.



## Welfare Facilities

Site accommodation with all facilities in a single open-plan building – offices, toilets and showers, canteen, changing rooms, meetings rooms, with a range of window options, including floor to ceiling glazing and balconies for site activity viewing.



## Security and Privacy

Integral window shutters – enhanced security and privacy.



## Flexible Configurations

Modules can be joined side to side or end to end.



### Adjustable

All side panels can be fully removed and re-installed when needed, enabling total flexibility when installing or adjusting configuration.



### Flexibility

Total internal layout flexibility – with no compromise on structural integrity.



### Access Options

Internal staircases available for two and three storey buildings.



### Easy Relocation

Modules can be disassembled and flat packed - easy relocation and reduced transportation costs – up to 10 modules can be loaded onto a single truck.



### Perfect Fit

Containex perfect for space constrained or restricted access sites.



# Containex<sup>®</sup> Specifications

# Type A

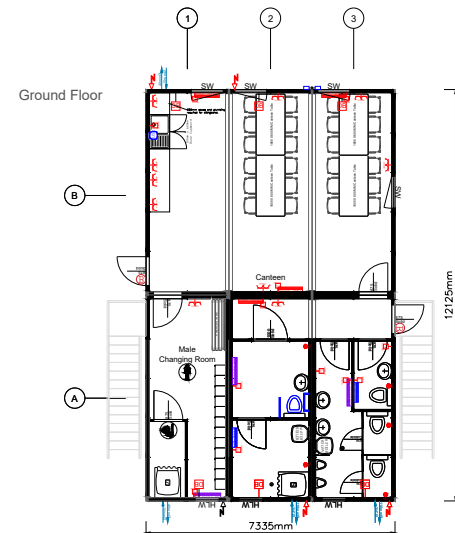
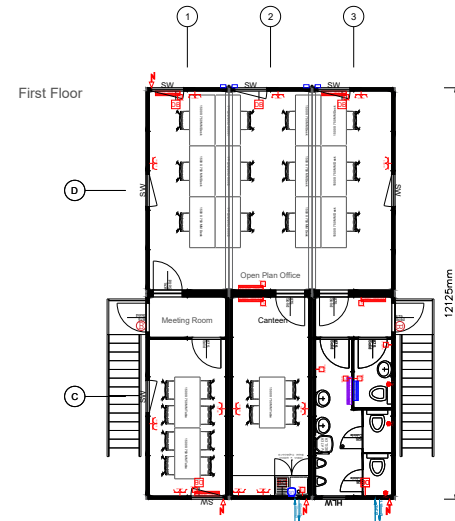
## CTX60

- 12 person office
- 8 person meeting room
- Canteen
- Changing Facilities
- Shower facilities
- 6 bay complex

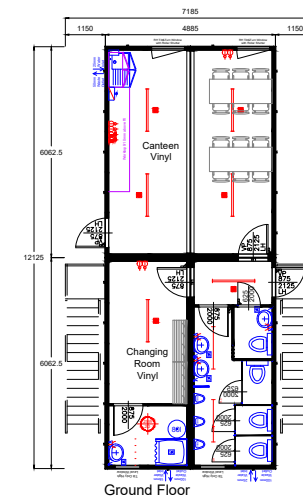
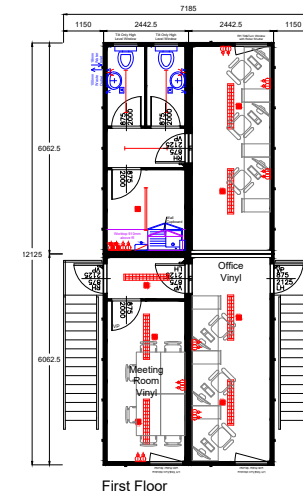
## CTX110

- Large open plan office
- Meeting rooms
- Changing facilities
- Shower facilities
- 8 bay complex

## CTX60



## CTX110





# Type C

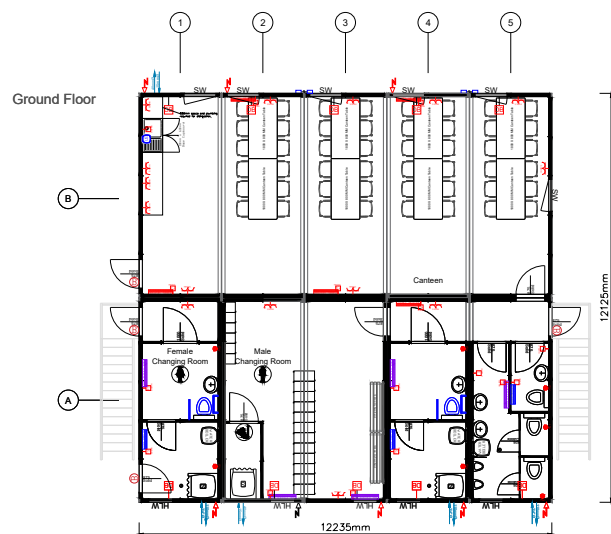
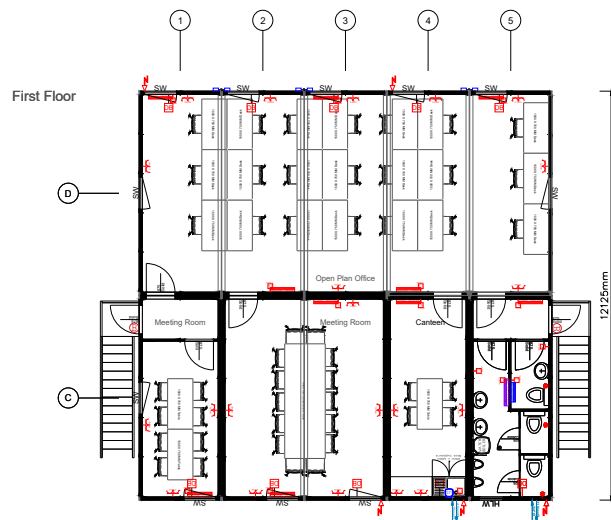
## CTX60

- 21 person office
- 14 person meeting room
- Small meeting room
- Canteen Changing facilities
- Shower facilities
- 20 bay complex

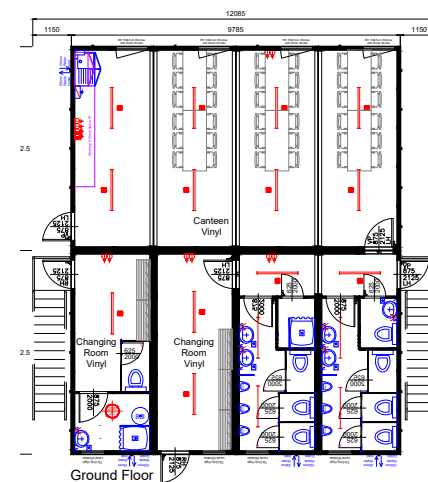
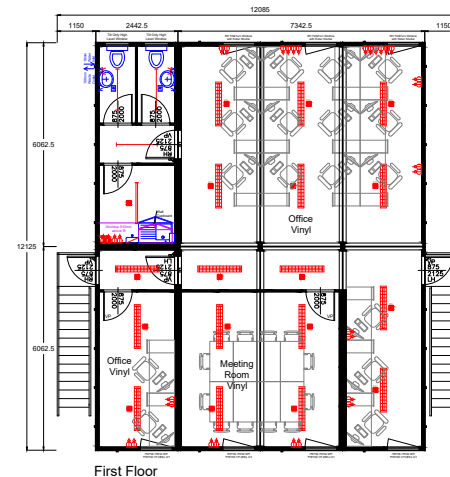
## CTX110

- Large canteen
- Changing facilities
- Large open plan office
- Meeting rooms
- Small office
- Shower facilities
- 16 bay complex

## CTX60



## CTX110



# Type D

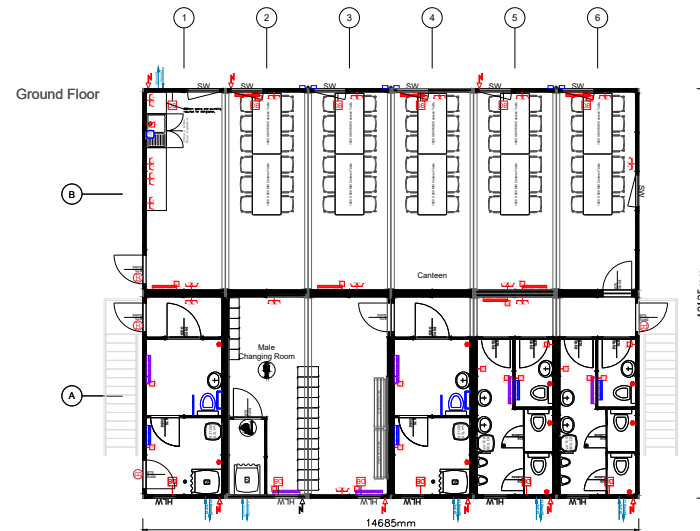
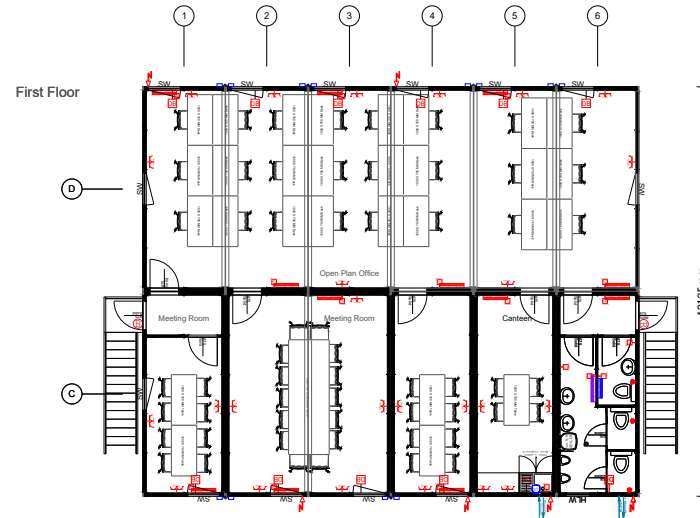
## CTX60

- 24 person office
- Large canteen
- Changing facilities
- Shower facilities
- Meeting rooms
- 24 bay complex

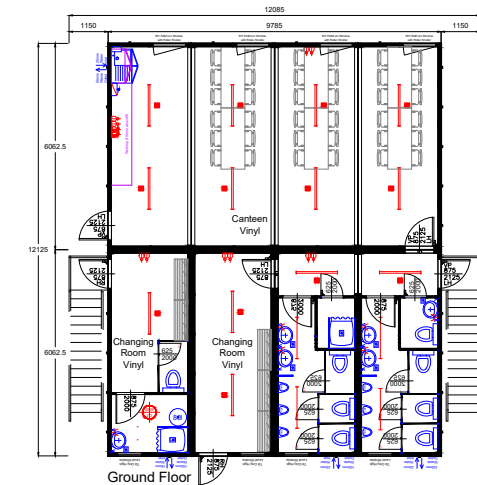
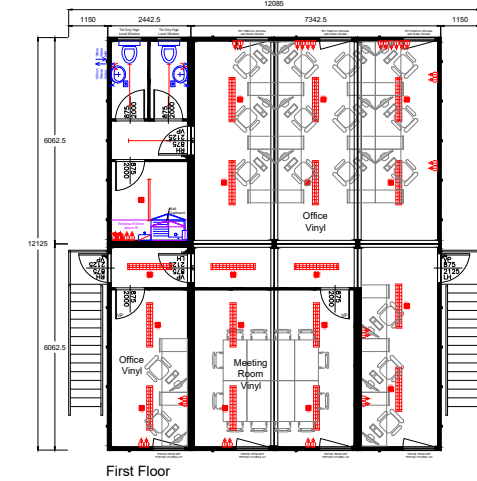
## CTX110

- Large canteen
- Changing facilities
- Large open plan office
- Meeting rooms
- Small office
- Shower facilities
- 16 bay complex

## CTX60



## CTX110



# Standard Spec

## Overview

- External dimensions per module: 6mtr x 2.4mtr
- Internal height 2.34m
- External height: 2.59m
- Internal finish: White steel
- Double glazed, uPVC windows with gas filled insulated glass, tilt & turn mechanism and lockable aluminium roller shutters
- High sanitary windows with tilt mechanism
- Energy efficient lighting with movement detecting PIR sensors
- Thermostatically controlled heaters
- Electrical fan heaters to sanitary areas
- Dual flush cisterns
- Door closers to external doors
- Fully insulated, roof, walls, floor and windows:
  - Walls – 60mm PU foam
  - Floor – 60mm mineral wool
  - Roof – 100mm mineral wool
- 2.0kN ground floor loading, 1.5kN upper floors on request



# Fire-Rated Spec

## Overview

Standard specification plus:

- Increased ceiling height available on request; external & internal height 2.8m & 2.48m
- 30 and 60mins fire protection options for walls and roofs
- Reinforced steel roof, floor and corner frames
- 4kN floor loading ground floor, up to 3kN on upper floors
- Wall insulation 110mm PIR foam (minimum)
- Roof insulation 100mm mineral wool (minimum)
- Fire-protection gypsum plasterboard with coated steel sheet
- Floor insulation 60mm mineral wool (minimum)





# Sustainability

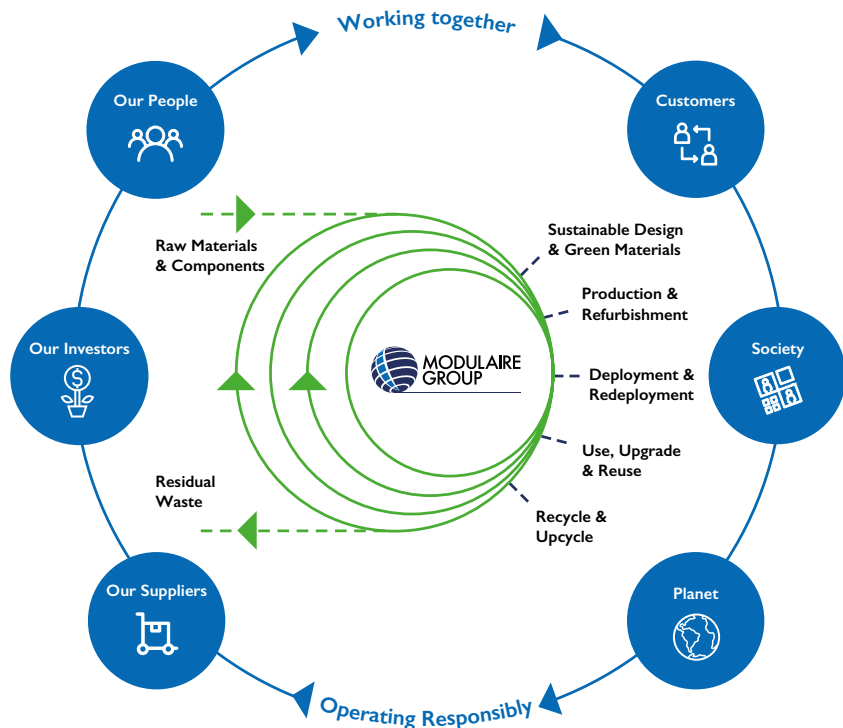
At Algeco, ESG and Sustainability (ESGS) is integrated into all aspects of our business. We measure and communicate ESGs against three external global standards – the United Nations’ Sustainable Development Goals (17 SDGs), the United Nations Global Compact’s principles (UNGC), and the Task Force on Climate-related Financial Disclosures (TCFD).



For further details, please visit our latest **ESG & Sustainability report**

# Loops within Loops

Led by our parent company, Modulaire Group, Loops within Loops is our sustainable circular business model. We use innovative sustainable design solutions to produce modular units that can stay in service longer, going round and round again. This reduces the use of virgin materials and minimises resources and waste. By designing in sustainability and designing out waste, we produce a circular product that can be reused, refurbished, remade and assembled.



Our Loops within Loops business model serves customers and stakeholders by helping to address some of the risks we face as climate change reshapes the economy.

## Circularity

By minimising resource consumption and operating in as many 'circular loops' as possible, our modular solutions are less intensive than traditional construction, with a lower carbon footprint.

## Adaptability

By being fully reusable, flexible, reconfigurable and recyclable, our units can adapt to changing demands and shifting demographics to meet climate change adaptation and demands.

## Hiring

By leasing out assets, they remain under our control for their full life cycle. We can innovatively manage environmental issues, such as recycling and waste, to minimise environmental and social impacts.

**c.73%**

less carbon emissions vs traditional construction<sup>1</sup>

**20x**

Units can be reused, on average, up to 20x or more during their lifecycle<sup>1</sup>

**96%**

Units are up to 96% recyclable<sup>1</sup>



Circularity approach

### 1. 2020 Product footprint analysis of a typical Modulaire unit is based on:

- Stage A1-A5 (sourcing, manufacturing and transporting to site) approximately 200 (kgCO<sub>2</sub>e/m<sup>2</sup>) v 700- 800 (kgCO<sub>2</sub>e/m<sup>2</sup>) for a traditional build. This equates to approximately 73% less carbon emissions compared to a traditional build.
- In use (B1-B6) and end of life (C1-C4) emissions total 210 kgCO<sub>2</sub>e/m<sup>2</sup>. This equates to approximately 65% less carbon emissions compared to a traditional build.

- For the whole life footprint (410 kgCO<sub>2</sub>e/m<sup>2</sup>), details for an equivalent traditional build are difficult to ascertain due to the lack of benchmarks which include B6 data.
- Product footprint calculated in accordance with EN 15978:2011. Modulaire typical unit based on Advance 8000 two classroom unit assembled in France. Typical benchmarks for education buildings based on Whole Life-Cycle Carbon Assessments Guidance (Mayor of London, October 2020). Whole life figure provided in this guidance exclude any allowance for energy consumed during the in-use phase.

# Our Net Zero Plan

## 2022 >

### Resource Efficiency

- Implement Internal Climate Change and Circular Design Key Principles Protocols for new modular space unit designs
- Greening of Supply Chain and ESG Protocols for Suppliers
- Establish Climate Adaptation Plans
- Biodiversity Impacts Protocols

## 2023 >

### Low Carbon Solutions

- 5% absolute reduction in Scope 1 and 2 emissions (vs 2020)
- Source 100% Renewable Energy
- Initiate Operational Carbon baseline tonnes of annual Scope 3 for 2022

## 2024 >

- 7.5% absolute reduction in Scope 1 and 2 emissions (vs 2020)
- Roll out our strategy to reduce or mitigate Scope 3 emissions
- Continuous innovation of low carbon solutions for customers

## 2025 >

- 10% absolute reduction in Scope 1 and 2 emissions (vs 2020) Net Zero
- Reduce the embedded carbon footprint (Stage A1-A5 of a typical Modular Space Unit (vs 2020)1
- Reduce waste to landfill by 50% per typical unit (vs 2020)
- Reduce our water consumption by 10%
- Life Cycle Analysis of all newly manufactured Modular Space Units

## 2030 >

### Innovation & Scale

#### Environmental

- Reduce Scope 1 & 2 GHG emissions by 30-40%
- Reduce Scope 3 emissions by 30-40%
- Progress towards total circularity of units
- Technology for carbon removal
- 100% renewable energy where available and applicable
- Transform new product portfolio to Net Zero carbon

## 2050 >

#### Net Zero

Net Zero carbon of our end-to-end supply chain by 2050 to meet the Paris Agreement goal of 1.5°C.

Our commitment for environmental responsibility and climate action is to minimise carbon emissions for our company and customers and manage our material risk and opportunities.

# Measuring our performance

92



No. of apprentices, trainees, graduates employed

4,616



Paid volunteering hours

24%



Females at Board and Senior Management level

4



Social Enterprises\*

Modulaire Group's 2022 progress against Social KPIs. Algeco UK contributed to these KPIs.

We annually generate an ESG report, alongside a dedicated report focusing on our commitment to social values.

The full reports can be viewed on the links below.

[VIEW OUR REPORTS](#)

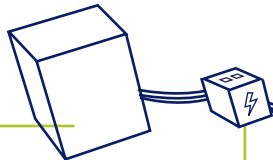
\* Data for Algeco UK only

# Off Grid Solutions

Today's organisations are continually seeking ways to reduce carbon footprints and consume fewer natural resources. One way of doing this is moving temporary and site accommodation off grid. Algeco can tailor solutions to site-specific project needs, delivering impressive emissions savings for your individual building and your budget.

Our complete off grid solutions can achieve emissions savings of 50%+ compared to conventional power sources!

## HVO Powered Hybrid Generator



## Battery Pod Charged by solar energy

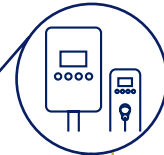
## Smart Sockets



## Climate Control Heating & cooling systems



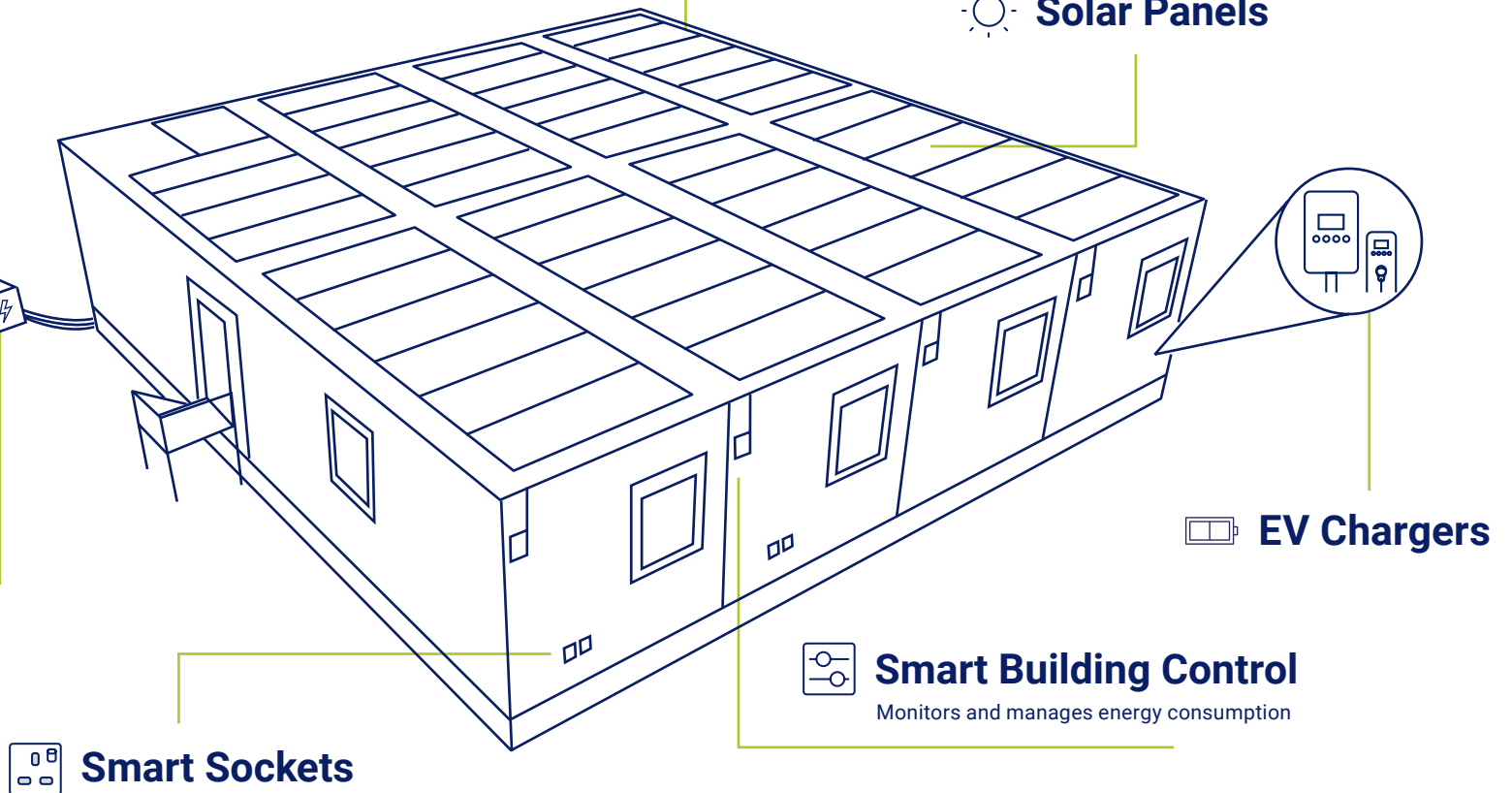
## Solar Panels



## EV Chargers



## Smart Building Control Monitors and manages energy consumption



# Case Study

## The Challenge

In February 2023, GallifordTry appointed Algeco as one of three strategic partners for temporary buildings, accommodation, and welfare hire across its Group.

GallifordTry's original specification prescribed that its compounds, where feasible, should be connected to a permanent power supply at a renewable rate. This was not feasible at the proposed compound site at its Blofield scheme on the A47 in East Anglia.

The project team therefore set themselves the target to create the most sustainable connection possible, not only to reduce carbon emissions, but also to avoid the risk of pollution and maintenance activities that a site may face from fuels.

## The Solution

In a first of its kind, GallifordTry and Algeco have combined smart technology and solar power in temporary site accommodation to achieve impressive CO<sub>2</sub>e (Carbon dioxide equivalent) reductions.

This was achieved through:

- Smart energy controls
- Smart power sockets
- Solar roof panels
- Hybrid generator
- HVO fuel in place of diesel
- Climate control

The Algeco core smart technology solution was integrated into the eight site accommodation modules for measurement, control and the reduction of energy consumption.

## The Results

Energy savings observed between pre- and post-control were circa 35%, an impressive result that sets a new benchmark for site accommodation.

In the first week after installation of the solar panels and battery, there was a 100% reduction in generator run-time. This saved over 924ltr of HVO (equalling £1,663 and 180kg of CO<sub>2</sub>e).

During the first six months of installation (to October 2023), the quantifiable benefits include:

- Reduction in fuel of 900ltrs/wk
- Cost saving of £1,660/wk
- Carbon saving of 180 kgCO<sub>2</sub>e/wk or 2,850 kgCO<sub>2</sub>e/wk and 282,000 kgCO<sub>2</sub>e over the lifetime of the project considering the diesel equivalent carbon emissions

Other benefits include:

- Reduced risk of pollution events due to reduction / elimination for fuel
- Reduced delivery traffic on the local roads
- Better control of environmental conditions within the working space
- Positive working conditions



# Technical Data

Description	6m Moduflex®	9m Moduflex®	Fireflex®
Module Dimensions (W x L x H)	2930 <sup>+</sup> x 6211mm x 2900mm (20ft x 10ft x 10ft)*	2930 <sup>+</sup> x 8220mm x 2900mm (30ft x 10ft x 10ft)*	2442 <sup>++</sup> x 6320mm x 2940mm (20ft x 10ft x 10ft)
Weight **	2500kg	3200kg	3000kg
Triple-stacking capability	✓		✓
Turn-key solutions available	✓	✓	✓
Suitable for placement within 6m clear zone as defined in JCoP 10.1			✓
Typical EPC Rating***	C-D	C-D	B-C
<b>Wall Panels</b>			
Structure	55mm composite	55mm composite	100mm sandwich panels
Insulation	55mm polyurethane insulation	55mm polyurethane insulation	Mineral wool density 100kg/m <sup>3</sup>
Inner Lining	0.45mm embossed pre finished steel inner lining	0.45mm embossed pre finished steel inner lining	Decorative inner steel sheet
'U' Values	0.403 W/m <sup>2</sup> K	0.403 W/m <sup>2</sup> K	0.38 W/m <sup>2</sup> K
Fire Performance			92 minutes integrity/60+ minutes insulation
<b>Internal Walls</b>			
<b>Roof</b>			
Structure	1 degree dual pitch roof. 0.5mm interlocking lacquered steel tray ceiling	1 degree dual pitch roof. 0.5mm interlocking lacquered steel tray ceiling	1 degree dual pitch roof. 0.5mm interlocking lacquered steel tray ceiling
<b>Floor</b>			
Structure	Steel structure – Twin longitudinal sections with transverse steel floor bearers welded and positioned at 400mm centres (Floor loading of 2.5kn/m <sup>2</sup> )	Steel structure – Twin longitudinal sections with transverse steel floor bearers welded and positioned at 400mm centres (Floor loading of 2.5kn/m <sup>2</sup> )	The floor chassis consists of side skids from bespoke cold formed profiles. The floor is decked with 19mm CTBX plywood. The floor is insulated with 2 layers 80mm mineral wool fitted between and under the structural floor (Floor loading of 2.5kn/m <sup>2</sup> )
'U' Values	0.501 W/m <sup>2</sup> K <sup>+++</sup>	0.501 W/m <sup>2</sup> K <sup>+++</sup>	0.26 W/m <sup>2</sup> K

\*Units may vary slightly. \*\*Weight of an empty open plan unit. \*\*\*Higher EPC figures obtained by optional Air Conditioning packages selected. +Plus 10mm spacer ++Plus 16mm spacer +++Subject to perimeter area ratio

# Technical Data

Description	Containex® Standard	Containex® Fire-Rated
	Compact and flexible modules with interchangeable wall panels	Compact and flexible modules with interchangeable wall panels
Module Dimensions (W x L x H)	6055 x 2435 x 2591mm (20 x 8 x 8.5ft)	6055 x 2435 x 2591mm (20 x 8 x 8.5ft) or 6055 x 2435 x 2800mm (20 x 8 x 9.1ft)
Weight **	2000kg	2150kg
Triple-stacking capability	✓	✓
Turnkey solutions available	✓	✓
Fire performance	Non Fire Rated	30 minute as standard, 60 minute optional upgrade
Typical EPC Rating***	B	B
<b>External Walls</b>		
Structure	60mm sandwich panel	110mm sandwich panel
Insulation	60mm PU foam	110mm PIR foam (minimum)
Inner Lining	0.5mm Steel Sheet	0.5mm Steel Sheet
'U' Values	0.38 W/m <sup>2</sup> K	0.2 W/m <sup>2</sup> K
Fire Performance	Untested	30 – 60 minute
<b>Roof</b>		
Structure	Cold rolled welded steel profiles, covered by galvanised steel plate with double rabbet, thickness 0.6mm. Internal ceiling 12.5mm plasterboard with coated steel plate.	Cold rolled welded steel profiles, covered by galvanised steel plate with double rabbet, thickness 0.6mm. Internal ceiling 12.5mm plasterboard with coated steel plate.
<b>Floor</b>		
Structure	Cold rolled welded steel floor section with steel bearers positioned at 600m centres and integrated fork pockets. Insulated with 60mm of mineral wool insulation with 22mm thick cement board overlaid.	Cold rolled welded steel floor section with steel bearers positioned at 400m centres and integrated fork pockets. Insulated with 60mm of mineral wool insulation with 22mm thick cement board overlaid.
'U' Values	0.55 W/m <sup>2</sup> K	0.55 W/m <sup>2</sup> K

\*Units may vary slightly. \*\*Weight of an empty open plan unit. \*\*\*Higher EPC figures obtained by optional Air Conditioning packages selected. †Plus 10mm spacer ††Plus 16mm spacer †††Subject to perimeter area ratio



Learn more about how Moduflex<sup>®</sup>, Fireflex<sup>®</sup>  
and Containex<sup>®</sup> can promote worker wellbeing  
and improve productivity on your site.

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