



MANUFACTURED
IN THE UK

 elements europe



Elements Europe
Offsite Modular Manufacturers
www.elements-europe.com

From concept to completion



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About us

Elements Europe is one of the nation's leading modular manufacturers, with a proven track record of delivering multi million pound offsite building solutions to the construction industry since its inception in 2005.

Elements Europe's experience and capability to deliver its innovative bespoke building systems to a number of sectors has led the way to it becoming an industry leader, delivering for major clients.

Owned by its shareholders GS E&C (part of the GS Group) and Sarkate Securities (part of The Pickstock Group), Elements Europe is uniquely positioned in the offsite construction market.

The Pickstock Group's experience in traditional construction has shaped our approach to offsite construction and ultimately has ensured a seamless integration between our systems in the factory and work onsite.

Flexibility and our ability to offer bespoke solutions to our clients is what sets us apart. Not only do we offer a wide range of systems to numerous sectors but we can also offer flexibility in the way we deliver projects, with the ability to offer a total offsite solution.

We strive to ensure that both the visual and technical aspects of our client's expectations are met using a wide range of materials and finishes. Our design, procurement and production teams work hard to create and manufacture the most suitable product for our

clients, whether it be a 5* star hotel room or student accommodation.

The entire process is controlled from our manufacturing facility based in the West Midlands. Everything from steel rolling through to the final cleaning of completed modules and quality sign off is done here.

Once manufactured our in-house haulage team delivers to site for install, offering a complete service.

Innovation, collaboration and commitment is at the heart of our ethos, creating dynamic and forward thinking businesses.

From concept to completion our teams collaborate with our clients to ensure that we consistently exceed their expectations.



Our Manufacturing Site

Design

Elements Europe has a dedicated design and engineering resource which guarantees that our clients receive the best possible service.

Early involvement in a project ensures all design and detailing is correct at concept stage. Projects are value engineered, and the architectural schemes developed to maximise the benefits of offsite manufacturing.

Elements Europe works closely with the client to ensure the best and most cost effective design is achieved. A prototype is always produced and presented, ensuring complete satisfaction.

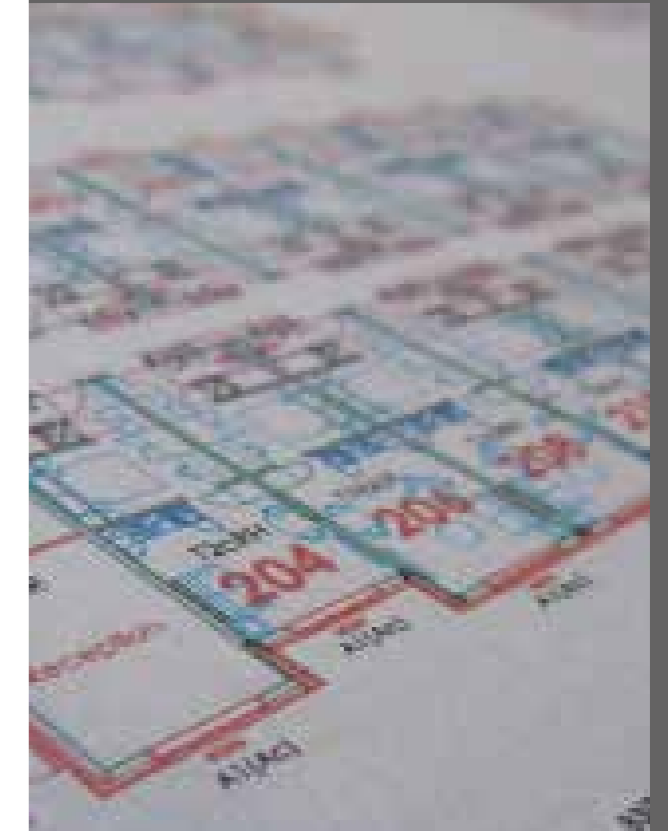
The structure of the modules are manufactured using the latest CAD/CAM technology, which drives the cold rolled steel roll-forming equipment, ensuring precision engineering.

All design work is carried out to meet the requirements of The Construction (Design and Management) Regulations 2015 (CDM 2015).

Clients can rest assured that all of Elements Europe's systems meet regulatory requirements including current building regulations.

Our systems are covered by NHBC/SCI manuals and certifications, are CE Marked and meet the requirements of mortgage finance schemes.

Our design team provides full technical support to clients from concept to completion.



Interior Design

Elements Europe can offer an interior design service to those clients who require a high internal specification.

Our in-house interior design and procurement teams work closely to present our clients with a look that is fitting to their requirements and budget.

Modular Construction

Elements Europe has attracted a wide range of clients from a number of sectors including:

- Hotels
- Student accommodation
- School buildings
- Private rented sector
- Residential
- Health care
- Defence
- Retail

WHY MODULAR CONSTRUCTION?

Reduced construction programme

Cost and programme certainty

Tailored to exact client's specifications

Manufacturing in a controlled factory environment

Quality managed manufacturing process

Repetitive production line process ensures consistent high quality

Lightweight structural systems

Reduced snagging

Creates a watertight structure earlier than traditional build

Reduced onsite waste

Excellent acoustic, fire, thermal and air tightness performance

Reduced onsite labour requirements

Improved health and safety

Reduced site deliveries

Promotes sustainability

Expedited construction programme



Steel Fabrication

Elements Europe offers a full solution to your steel frame building requirements - with a team of specialist structural steel fabricators we ensure your building is constructed to the highest standard and to a spec that suits you.

All of our work is carried out by a professional coded workforce, all of whom are experts in their field, so that you can put your trust in a reputable, committed team.

With modular steel buildings, each unit can be constructed offsite, and this can save time and money when it comes to delivering a project.

As needed, these individual steel constructions can be placed side-by-side to provide a greater expanse of space. This can be particularly beneficial for the education sector, where larger areas of space are often needed within a short time frame.

From reduced environmental impact to saving on building costs, there are a number of advantages that come with modular steel construction, particularly in terms of the benefits of working with cold rolled steel - and because our units can form complete rooms or specific sections of rooms, you're guaranteed a finished product that's tailored to you.

Our Steel Fabrication Services Include:

- CAD/CAM design/manufacturing
- Structural steel
- Metal forming
- Metal fabrication
- Bending
- Expert welding
- Plasma profile cutting

We specialise in steel frames for the agricultural, commercial and industrial sectors.

Additional Offsite Solutions

Our modular projects have led us to offer additional offsite solutions to our clients.

We have manufactured prefabricated steel balconies, hand rails and staircases to a number of projects, facilitating supply chain and the project's programme.



Our Systems

kitchen pod

Elements Europe's kitchen pods can range from a fully fitted kitchen to a small kitchenette.

Every pod we manufacture is made to the exact specifications of each client, from the worktops to the splashbacks and integrated white goods - guaranteeing complete satisfaction.

Our kitchen pods are fitted in our manufacturing facility with the appropriate waste configuration set out by our architects to offer a welcomed offsite solution that can, when traditionally built, hinder a programme due to snagging and time constraints with the number of trades involved.



bathroom pod

At Elements Europe, our state-of-the-art bathroom pods provide a high-quality, factory controlled modular construction solution, and are manufactured to a high degree of standardisation - making them ideal for large-scale building projects.

Construction projects, such as student accommodation, as well as residential and hotel schemes, can be made significantly more efficient and profitable through the use of these modular bathroom units. Every pod we manufacture is made to the exact specifications of each client - guaranteeing complete satisfaction.



room module

Elements Europe's room module system offers internally completed living accommodation for a range of sectors whether it be hotel, student accommodation, healthcare or residential.

The lightweight steel structure allows savings through reduced foundation requirements and negates the need for in-situ floor slabs.

Windows, doors, mechanical and electrical, decorations, carpets, fixed furniture and en-suite bathrooms are all completed in our factory.

Our room modules have total flexibility for external façade treatment and can also accommodate all forms of roof construction.

The system's standard wall and ceiling build-ups offer a minimum 90 minute fire resistance with U-values and acoustic performance assistance. A 120 minute fire rating can also be achieved when required.

That's not all, we can also manufacture stair cores as well as plant and linen rooms.





The co-pod represents a unique range of units containing all of the essential service elements required in modular housing.

Four pod types can be organised in a number of different configurations to suit a range of house types.

The units provide kitchen, bath, shower, staircase, storage, power, lighting, ventilation, heating, heat recovery and communications within a single offsite manufacturing system.

Using multiple pods in an efficient configuration means that all mains building services can be located in a central core, and, since the pod contains all of the required service elements there is no need for first or second fix mechanical or electrical services within the fabric of the building.



Elements Europe's knowledge and experience within the offsite residential market has prompted the development of utility pods.

The utility pod is a singular, all encompassing pod, designed to house the operational utilities of a multi dwelling scheme.

Within the pod, a boiler or heat exchange unit, appliances, MVHR equipment, solar controls, electrical distribution boards, heating manifolds and controls to name but a few can be housed.

New and existing technologies are being introduced to the home constantly, meaning that the possibilities are endless as to what can be added to this unit.

Elements Europe manufactures steel frame utility pods and installs all equipment requested by the client. Onsite they are installed quickly and efficiently with a simple connection being made once in situ.

The often time consuming installation of equipment and connections by various trades can be a significant part of a build programme. However, in our manufacturing facility with our fully qualified plumbers and electricians, utility pods are a simple solution to an efficient build.



LSF Structure



Elements Europe's light steel frame (LSF) structure provides a lightweight load bearing building system, with the capability to provide high rise accommodation, whilst minimising foundation and load bearing structure design.

In-house, we have rolling machines capable of manufacturing C Sections of cold formed light steel frame studs in 70, 100 and 150mm sections, as well as 1.2 and 1.6mm gauges.

Provided in either stick or offsite assembled panels to provide the structural floors, walls and ceilings of a building. The system is lightweight, and can be provided in a form suitable for manual handling, making the system suited to sites with restricted access.

Elements Europe also manufactures floor, ceiling and corridor cassettes to offer a full offsite structural solution.



Elements Europe's light steel frame (LSF) façade system can be integrated into a number of building methodologies to provide a fast track, water tight façade during construction.

The system can be provided in stick form, ideal for manual handling onsite, or as an offsite manufactured pre-assembled panel. Typically the panels will span from floor to soffit and are available in 70, 100 and 150mm C Section studs, as well as 1.2 or 1.6mm gauge steel.

What Our Clients Say



"Elements Europe has provided bathroom pods for our Middlewood Locks project in Salford.

We have found the level of service that they have provided to be exemplary. From concept through to completion they have been with us every step of the way, offering valuable advice and support.

Despite the challenging programme, Elements Europe has hit all delivery targets without sacrificing quality.

During our visits to their headquarters Elements Europe has demonstrated its internal procedures that gave us the comfort we needed to be confident that they were able to deliver large numbers in the required timescales to exacting standards.

I would have no reservations in recommending Elements Europe or using them in future."

Aaron Adams, Head of Construction, BCEGI UK

"Elements Europe are a great example of a new approach needed in the industry.

The Farmer Review of the UK Construction Labour Model was commissioned in February 2016 by the Construction Leadership Council at the request of the Government.

In this report I investigated the current labour model and proposed actions to safeguard the industry's future.

Elements Europe are key stakeholders involved in making my headline recommendations a reality through the delivery of precision manufactured homes. They are also directly addressing the future skills agenda which I believe is so important to the industry's transition to a more modern, productive delivery model.

Elements Europe's recent commitment to 20 apprenticeships for offsite technicians is a sign that the career opportunities in our industry are already becoming more diverse and attractive."

Mark Farmer

Certifications



Creekside Wharf | Greenwich | Residential Scheme

Over the years, Elements Europe has obtained a number of prestigious accreditations and certifications, to give our clients confidence that our modular building systems, techniques and procedures are approved to international and industry standards.

Elements Europe is ISO 9001, ISO 14001, OHSAS 18001, CE marking to BS EN 1090-1 EXC3 and CHAS certified, demonstrating our commitment to providing our clients with high-quality systems, manufactured in a safe working environment. More than that, though, these certifications demonstrate our commitment to sustainable modular construction – something we have strived to integrate into all of our processes.

Our FSC® certification serves as proof that we are sourcing wood products from responsibly managed, sustainable forests. In addition, all of our steel systems are SCI accessed – which means that our steel is produced using the appropriate procedures,

to the latest standards, and that performance values have been derived correctly.

Whether it's structural steelwork or wood flooring, the materials we use in our modular units are always sourced responsibly – and our certifications are evidence of this commitment.

Elements Europe has CE certification to BS EN 1090-1 EXC 3, accredited by Exova- BM TRADA. To gain these approvals, Elements Europe has successfully passed a number of demanding assessments, which evaluates and facilitates the adoption of best practices in key areas such as risk assessment, competency management, configuration management, procurement and associated process control.

From quality management systems to CHAS health and safety accreditations, the wide range of certifications we possess show that all of our modular buildings and pods are designed, manufactured and assembled to the highest industry standards.



Environmental Promise

Elements Europe is committed to environmental management by adhering to an Environmental Management System that has been designed in house, to the International Standard ISO 14001.

As a company we are committed to mitigate the effects of global warming by embracing

environmentally sustainable aspects into our product design, construction, distribution and everyday business management.

By being a part of the modular construction industry we contribute to the reduction of the country's carbon footprint, and manufacturing our products offsite in a factory controlled environment means we have managed environmental processes in place.



Mechanical ventilation heat recovery systems can be used in modules

Modules are fully insulated to increase thermal performance

All modules have the capability to implement renewable energy technology

We encourage clients to have grey water recycling systems installed in their schemes

We segregate waste water streams for recycling

We fit energy efficient appliances and lighting

We invest in waste management training, resource and education

Over 60% of the steel we use is from a recycled source

We are FSC® certified (FSC-C084683)



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