



 elements europe

STUDENT ACCOMMODATION

Case Studies



STUDENT ACCOMMODATION

## CASE STUDIES

### Student Accommodation



Suitable Products for the Student Accommodation Industry:

-  Room Module
-  Solopod (Bathroom Pod)
-  Light Steel Frame Façade
-  Light Steel Frame Structure

Modular construction is perfectly suited for student schemes enabling a significantly faster build programme thus allowing accommodation to open on time for the start of term.

Elements Europe has worked on a wide variety of student accommodation developments often having to deliver the scheme within just a few months. The standard of accommodation being manufactured today is very different from the student accommodation of old. Small box like rooms have been replaced with studio apartments, cluster rooms and well thought out study bedrooms with en-suite bathrooms.

1

## Commercial Road, London

- ◆ SIZE: 296 Bathroom Pods
- ◆ CLIENT: Mace
- ◆ ARCHITECT: HKR Architects & James Burland



Commercial Rd, London

Working with the main contractor Mace, Elements Europe successfully manufactured and installed 296 Bathroom Pods for an 18 storey student accommodation scheme in Central London.

Ceiling mounted access panels were built into all Pods, allowing them to be individually connected through the in situ foundation.

Due to the building's height and location, delivery and installation took place out of hours and during the weekend, in line with a carefully planned programme.

All of the Bathroom Pods were designed and manufactured according to the specific requirements of the client.



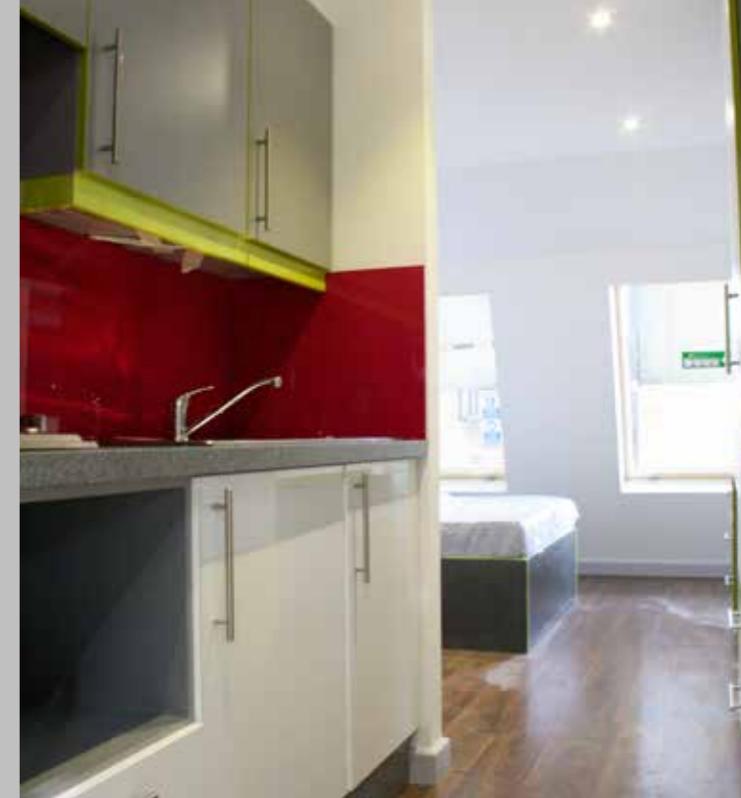


Hull Road, York

2

## Hull Road, York

- ◆ SIZE: 356 Room Modules
- ◆ CLIENT: Uni Living Construction
- ◆ ARCHITECT: Broadway Malyan



Elements Europe manufactured and installed 356 student Room Pods for Uni Living Construction to provide high quality, affordable student accommodation in York.

Elements Europe manufactured and installed 356 en-suite student Room Pods, as well as common rooms, kitchens, studio apartments, a management suite and plant rooms to the five storey building. Elements Europe also sourced and managed the modular pre-cast concrete lift shaft for the scheme.

The development was completed to BREEAM excellent standard. Ensuring that the buildings energy efficiency was of the highest priority, including; LED lighting, low water usage systems, as well as a combined heat and power system.

The flexibility of Elements Europe's Room Pod system allowed the entire upper floor bedrooms to incorporate a mansard roof, a feature imposed on the client by local planning requirements.





University of Chester

3

## University of Chester

- ◆ **SIZE:** 224 Room Modules
- ◆ **CLIENT:** Morgan Sindall
- ◆ **ARCHITECT:** Broadway Malyan



Morgan Sindall appointed Elements Europe to manufacture and install Room Modules into three blocks of student accommodation at the University of Chester.

The £3.3 million project consisted of 224 Room Modules as well as cleaning rooms, roof cassettes, stairwells and associated corridor cassettes.

The 224 Modules were all studio rooms with en-suite bathroom and kitchenette facilities, providing a high quality living and study area for students, using contemporary design specifications.

Due to interconnecting floors in the three buildings, Room Modules were installed using a transfer grillage from the ground floor, provided by the main contractor.

Modular manufacturing allows construction to continue in adverse weather conditions as demonstrated here in Chester, where Room Module installation continued despite heavy snow.





Harbourne, Birmingham

4

## Harbourne, Birmingham

- ◆ **SIZE:** 67 Room Modules
- ◆ **CLIENT:** Golden Cross Properties Ltd
- ◆ **ARCHITECT:** Zebra



Elements Europe worked in collaboration with Edmond Shipway to deliver 67 high quality Room Modules on behalf of Golden Cross Properties Ltd.

The project successfully delivered a 67 bedroom, three storey student accommodation scheme. Each Room Module featured a self contained kitchen and en-suite bathroom, designed according to the client's specification.

The rooms were craned into position at a rate of eight per day. Deliveries were scheduled to ensure minimal disruption to the main contractor's works whilst still maintaining the strict schedule.





Bishopsgate, Birmingham

5

## Bishopsgate, Birmingham

- ◆ **SIZE:** 175 Room Modules
- ◆ **CLIENT:** Multibuild
- ◆ **ARCHITECT:** Zebra



Elements Europe worked alongside main contractor Multibuild, to manufacture and install 175 Room Pods to a five storey student accommodation scheme in the heart of Birmingham.

Elements Europe was selected as preferred supplier following completion of the Harbourne student accommodation scheme for the same client.

The project comprised of 147 Room Modules as well as cleaning rooms, plant rooms, floor cassettes, stair cases and associated building corridor cassettes. Elements Europe also sourced and managed the off-site pre-cast lift shaft for the scheme.

All Room Modules featured en-suite bathrooms, kitchenettes with breakfast bars and PIR activated

ventilation systems to improve the building's energy efficiency.

The rooms were manufactured over a factory period of seven weeks, with on-site installation taking just under eight weeks.





Paris Gardens, London

6

## Paris Gardens, London

- ◆ **SIZE:** 184 Bathroom Pods
- ◆ **CLIENT:** McLaren Property & Victoria Hall
- ◆ **ARCHITECT:** O'Connell East Architects & T P Bennett



Elements Europe manufactured and installed 184 Bathroom Pods for a student accommodation scheme in Paris Gardens, London.

This was a joint venture between McLaren Property and Victoria Hall, with McLaren Construction acting as the main contractor.

The site posed logistical challenges due to its Central London location. A great deal of planning went into the delivery of the Pods to site. The Bathroom Pods were installed horizontally off a platform into the concrete frame building as opposed to being craned into position.





Ewer Street, London

7

## Ewer Street, London

- ◆ **SIZE:** 200 Room Modules
- ◆ **CLIENT:** Generation Estates
- ◆ **ARCHITECT:** T P Bennett



Elements Europe worked alongside main contractor, Elliott Thomas Group to manufacture and install 200 Room Modules on behalf of its client Generation Estates.

The seven storey student accommodation scheme resides on Ewer Street in the heart of Central London.

Elements Europe manufactured and installed studio cluster rooms with shared communal areas. Each studio room included bathroom and kitchen facilities alongside sleeping and study areas. Not only this, each Room Module had underfloor heating systems installed.

The Central London location meant carefully controlled operational procedures were put in place for the Room Pod delivery, ensuring the lifting of the Pods took place safely.





Solopod

8

# Warwick University, Warwickshire

- ◆ **SIZE:** 1000 Bathroom Pods
- ◆ **CLIENT:** The University of Warwick
- ◆ **ARCHITECT:** Robothams



Following the success of Phase 1, Elements Europe was selected to manufacture and install Bathroom Pods for Phase 2 of the University of Warwick's student residences development.

With Shepherd Construction appointed as the main contractor to deliver Phase 2, Elements Europe's Solopod system was implemented, resulting in the delivery of over 1000 Bathroom Pods in total over the two phase scheme.

The Phase 2 extension saw the construction of six blocks of four storey accommodation providing the University with an additional 538 bedrooms. Six universally accessible Pods were supplied according to the design specification required by the University.

The scheme was required to achieve BREEAM standards. Pods included energy efficient lighting activated from motion detectors, low level water usage shower heads, taps, and dual flush toilet cisterns.





LSF Structure

9

## Fieldgate Street, London

- ◆ **SIZE:** 341 Bathroom Pods
- ◆ **CLIENT:** Chancerygate Asset Management
- ◆ **ARCHITECT:** Axis, Sheppard Robson



Elements Europe manufactured and installed 341 Bathroom Pods to a mixed use scheme comprising of both student and residential accommodation.

Mace was the main contractor delivering the scheme on behalf of Chancerygate Asset Management.

The £2.7 million project located in the heart of Central London near to Whitechapel saw Elements Europe use their LSF Structural system, to provide a complete light steel frame structure. As well as 341 structural Bathroom Pods, corridors, access and service risers were also provided.

The circular building extended to eight storeys, and posed several challenges such as a faceted front elevation, angled rooms and corner windows.

The LSF Structure system consists of structural Bathroom Pods that stack on top of each other providing a core for the LSF Façade to be tied into.





St Mark's Street, Lincoln

10

## St Marks Street, Lincoln

- ◆ **SIZE:** 120 Room Modules
- ◆ **CLIENT:** Private Investor
- ◆ **ARCHITECT:** J-Ross Developments Ltd



Elements Europe manufactured 120 student Room Modules for a private investor client, providing high quality student accommodation on St Mark's Street in Lincoln, close to the University of Lincoln Campus and City Centre.

Delivered as a turnkey solution by The Pickstock Group, Elements Europe worked alongside its parent company Pickstock Construction who specialise in traditional methods of construction.

As well as student en-suite bedrooms, the Room Module system also provided studio apartments, common rooms, staircases, a launderette, corridors and the roof structure.

The building was in a very constrained position,

situated between two buildings closed in at three sides, making it a challenging construction project.

The project was completed in just 28 weeks.





The Maltings, Colchester

11

## The Maltings, Colchester

- ◆ **SIZE:** 779 Room Modules
- ◆ **CLIENT:** Smart Student Living
- ◆ **ARCHITECT:** Jefferson Sheard



Elements Europe manufactured and installed 779 student Room Modules to two phases of a student accommodation scheme in the heart of Colchester.

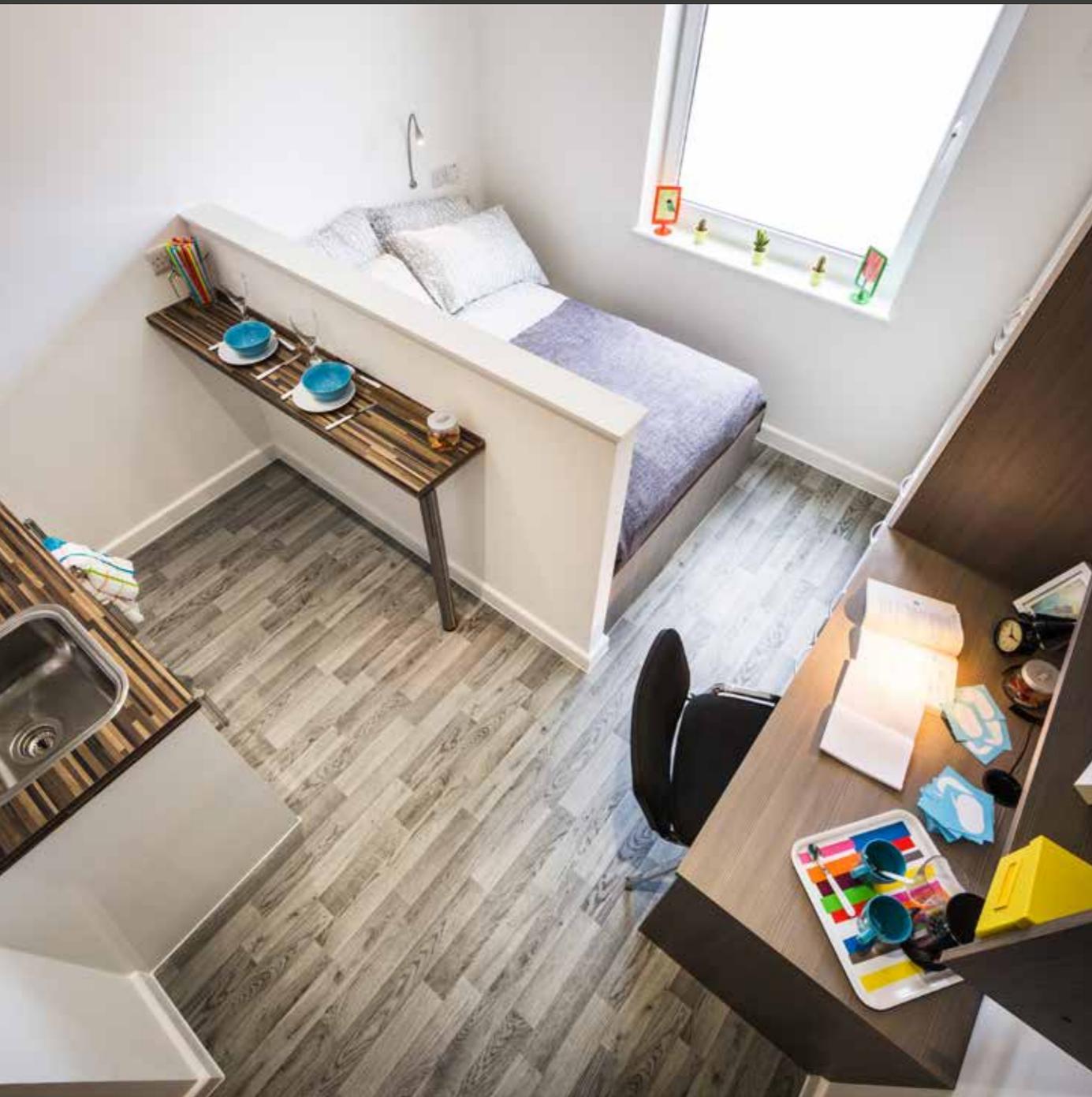
Delivered as a turnkey solution by The Pickstock Group, Elements Europe worked alongside its parent company Pickstock Construction who specialise in traditional methods of construction.

The eight storey building comprised of seven types of student accommodation, including one bed flats, studios and en-suite cluster rooms.

Additional Room Modules were manufactured for the on-site marketing suite, offering students the chance to view the different options of accommodation available.

In total Elements Europe manufactured 1034 room modules including all plant rooms and kitchens.





Hatbox, Luton

12

## Hatbox, Luton

- ◆ **SIZE:** 199 Room Modules
- ◆ **CLIENT:** GolDev Ltd
- ◆ **ARCHITECT:** Maber Architects



Elements Europe, working with its client, GolDev Ltd, manufactured and installed 199 student Room Modules to Phase 1 of a student accommodation scheme in Luton.

Elements Europe manufactured a range of Room Modules including en-suite cluster bedrooms with shared kitchens as well as individual Studio Room Modules.

Studios offered the privacy of a self-contained room with open plan sleeping, studying and kitchen area, as well as an en-suite bathroom. All Modules were manufactured in just 11 weeks.

The main contractor provided a steel frame structure onto which the Room Modules were positioned.





The Haymarket, Edinburgh

13

## The Haymarket, Edinburgh

- ◆ **SIZE:** 168 Room Modules
- ◆ **CLIENT:** West Park Place Developments Ltd
- ◆ **ARCHITECT:** Acanthus Architects



Elements Europe delivered 168 student Room Modules to a £7.8 million student accommodation scheme in Edinburgh, for client West Park Place Developments Ltd.

The scheme was provided as a turnkey solution by The Pickstock Group, utilising Elements Europe's off-site modular manufacturing expertise.

The development was divided into three separate buildings. Phase 1, the primary building, comprised of 125 rooms and was built over five storeys, it also included the renovation of an existing post office which was also modularised and now encompasses seven Room Modules.

This building was then adjoined to the primary building.

Phase 2, had an additional 43 rooms housed in two separate buildings spanning three storeys, located at opposite ends of Phase 1, and had six self-contained cluster flats per floor.

Elements Europe manufactured a show flat for the scheme as well as all studio and en-suite Room Modules, communal living areas, staircases, corridors and its roof structure.



Huntingdon Road, Cambridge

14

## Huntingdon Road, Cambridge

- ◆ **SIZE:** 98 Room Modules
- ◆ **CLIENT:** Cambridge Land Ltd
- ◆ **ARCHITECT:** Jefferson Sheard



Elements Europe worked alongside Edmond Shipway to deliver a brand new student accommodation scheme in Cambridge for client Cambridge Land Ltd.

The scheme was delivered as a turnkey solution by The Pickstock Group, using parent company Pickstock Construction as the main contractor.

Elements Europe manufactured 75 studio and 23 en-suite Room Modules for the project, as well as all communal areas.

Lift and stair cores, corridors, ceiling and floor cassettes, as well as roof structures were also manufactured by Elements Europe.

Elements Europe's design team worked closely with architects Jefferson Sheard to modularise the

uniquely shaped building, which also has two large atriums. The flexibility of Elements Europe's Room Module system allowed for the third floor bedrooms to incorporate a mansard roof.

The site, located at a junction of two major routes into the city centre was formally a petrol station that had been vacant for a number of years. Elements Europe's Room Module solution has excellent acoustic performance making it perfect for accommodation situated on a busy road.

Due to the close proximity of the junction, the sequence of installation was carefully planned to ensure minimum disruption to traffic.



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Green Park House, Bath

15

## Green Park House, Bath

- ◆ **SIZE:** 461 Room Modules
- ◆ **CLIENT:** Berkeley Homes
- ◆ **ARCHITECT:** Stride Treglown



Copyright of Berkeley Homes

Berkeley Homes appointed Elements Europe to supply Room Modules for a new student accommodation scheme in the historic spa city of Bath.

The redevelopment site was a derelict former residential care home, at a key gateway to Bath's city centre and is in a perfect location for student accommodation.

461 Room Modules and 123 additional modules of communal kitchens and stair cores were manufactured for the scheme as well as associated corridor cassettes.

The flexibility of Elements Europe's Room Module system means that even the rooms in the mansard roof will be manufactured off-site.

Elements Europe manufactured three types of

bedrooms, an en-suite Room Module a studio and a twodio Room Module, designed for double occupancy.

Modules were manufactured with Georgian sash windows to fit in with Bath's local vernacular. Not only this, when complete the building will replicate Bath's architecture, achieved by using Bath stone for the external façade.



Image: crescent-photography.com



Sherbourne House, Coventry

16

# Sherbourne House, Coventry

- ◆ **SIZE:** 114 Room Modules
- ◆ **CLIENT:** Sherbourne Property Holding Ltd
- ◆ **ARCHITECT:** Fraser Brown MacKenna



Elements Europe worked alongside Pickstock Construction to deliver a turnkey solution for a student accommodation scheme in Coventry.

The project saw Elements Europe act as the off-site manufacturer and Pickstock Construction as the main contractor to provide an extension of 114 bedrooms to Sherbourne House's current student accommodation.

Each Room Module was carefully designed by Fraser Brown MacKenna Architects, project manager K2 consultancy and Elements Europe ensuring that the design is aesthetically pleasing yet affordable.

A total of 145 Room Modules, some of which feature oriel windows, was manufactured, delivered and installed. These include studio bedrooms, accessible studio bedrooms, stair cores a reception area, common room, plant room and laundry room.





Notte St, Plymouth

18

## Crescent Point, Plymouth

- ◆ **SIZE:** 339 Room Modules
- ◆ **CLIENT:** JR Pickstock Ltd
- ◆ **ARCHITECT:** Jefferson Sheard



Elements Europe has collaborated with sister company Pickstock Construction to deliver a 339 bed student accommodation scheme in Plymouth.

Elements Europe installed Room Modules into block A, a 13 storey building and Bathroom Pods into Block B, a 10 storey high building.

For Block A, Elements Europe manufactured 26 studio Room Modules, 262 en-suite Room Modules and 51 kitchen modules.

Elements Europe has carefully selected specific modules to be manufactured as split modules and it has developed its Room Module system to incorporate a corridor rather than corridor cassettes being manufactured separately.

Block B was built traditionally as a concrete frame by Pickstock Construction, Elements Europe manufactured and install 60 Bathroom Pods to this block.





Viking House, Lincoln

19

## Viking House, Lincoln

- ◆ **SIZE:** 490 Bathroom Pods
- ◆ **CLIENT:** Richardson and Jackson & Jackson
- ◆ **ARCHITECT:** Stem Architects Ltd



Elements Europe has worked alongside joint venture partners Richardson and Jackson & Jackson Developments to manufacture and deliver bathroom pods to a student accommodation scheme in Lincoln.

Elements Europe has manufactured and delivered a total of 490 bathroom pods in two phases to this student accommodation scheme in Lincoln.

In phase one, the client approached Elements Europe with a very short lead time. Elements Europe's teams worked closely with the client and the University of Lincoln to execute the project in the short time period provided.

This project proved that offsite construction methodologies can be relevant to refurbishment

projects as well as new build developments. Developers stripped the façade back on this concrete frame building to allow for the bathroom pods to be installed by a telescopic forklift truck.

Prior to manufacture commencing Elements Europe produced just the frame of the pod to test that it would fit within the concrete frame due to very tight onsite tolerances, once this was tested successfully manufacturing commenced.

Manufacturing of all 158 pods took just 6 weeks. To ensure the deadline was met, bathroom pods were manufactured and delivered simultaneously in a "just in time fashion," meeting the client's deadline and expectations.

A couple of months later the client approached Elements Europe again to provide a further 332 bathroom pods for phase two, a new build which sits adjacent to the phase one building.

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