



**BRITISH OFFSITE**

Manufacture · Construction

BRITISH OFFSITE IS THE CREATOR OF THE MOST TECHNICALLY ADVANCED LIGHT GAUGE STEEL PANEL SYSTEM IN THE MARKETPLACE, SUITABLE FOR HOUSE, MID-RISE AND HIGH-RISE DEVELOPMENTS.

FOUNDED WITH INVESTMENT FROM THE WESTON GROUP, TODAY WE HAVE TWO STATE-OF-THE-ART FACTORIES WITH THE CAPACITY TO CREATE A COMPLETE SET OF PANELS FOR ONE APARTMENT EVERY 60 MINUTES.

OUR SECOND FACTORY, HORIZON, DESIGNED IN PARTNERSHIP WITH RANDEK AB, QUADRUPLED OUR PRODUCTION CAPACITY TO 4,000 NEW HOMES A YEAR.

## CONTENTS

UNisystem	2
BOS Fitout	6
Case study: Abbey Quay, Barking	8
Why British Offsite	10
Horizon factory	16
Skyline factory	18
Cutting conventional build pressures	20
Efficiency in build and operation	22
Programme management	24
Case study: Orchard Park, Cambridge	26
Where to find us	28



OUR FOCUS IS MAKING THE TRANSITION TO OFFSITE CONSTRUCTION A NATURAL EVOLUTION FOR DESIGNERS AND DEVELOPERS. WE PROVIDE THE DESIGN FREEDOM PEOPLE ARE USED TO BUT WITH THE SPEED, SAFETY, EFFICIENCY AND ENVIRONMENTAL BENEFITS OF OFFSITE CONSTRUCTION.

Our UNisystem has light gauge steel at its core and can be manufactured to your exact requirements. Each panel integrates sheathing board, insulation, vapour control layer, cavity barriers, façade support, and preinstalled windows and doors — combining the work of up to five trades into one streamlined solution.

Working with Weston Homes and construction businesses beyond the Weston Group, we are helping to deliver thousands of attractive, energy-efficient homes that are affordable to run. We are driven by a commitment to sustainability in every possible way, ensuring our system supports greener, smarter living.

We provide a complete service — from design and manufacture through to installation and customer care. By collaborating closely with our customers at every stage, right through to the end of the home warranty, we guarantee happy homeowners and long-term satisfaction.

Our expertise allows us to convert a traditional project to a hybrid traditional and offsite construction design and deliver to your site in as few as 150 days.

With 3,000 homes already manufactured and the capacity to produce 4,000 new homes every year, alongside internal fitouts for kitchenette, bathrooms, and bedrooms, we are the proven and flexible manufacturer you need for a seamless transition to offsite construction.

**Shaun Weston**  
Managing Director

# UNISYSTEM

## FLEXIBILITY, PRECISION AND CONTROL

UNisystem is a precision-engineered offsite solution, available in loadbearing (LB) and non-loadbearing (SFS) options. Manufactured with advanced robotics, panels arrive complete with insulation, fire stopping, façade support, and windows and doors — delivering speed, quality, and compliance backed by NHBC Accepts and BOPAS accreditation.

Our UNisystem includes:

### UNi PANEL

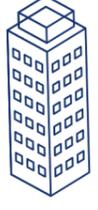
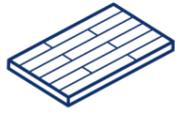
Adaptable for every architectural need, across house, mid-rise and high-rise projects.

### UNi WALL

An internal compartmentalisation LGS panel system that produces the highest standards of air tightness and acoustics.

### UNi FLOOR

A light gauge steel floor cassette system adaptable to any scale. The flexibility of our UNisystem means designers and developers have complete control over architectural features and the option to manufacture a basic or “fully dressed” panels for internal and external walls and floors, all of a consistent high quality due to our precision manufacturing methods.

		 HOUSE	 MID-RISE	 HIGH-RISE
<b>UNi PANEL</b>				
<b>UNi WALL</b>				
<b>UNi FLOOR</b>				

# PRECISION



30%

MANUFACTURING YOUR PANELS WITH BRITISH OFFSITE CAN IMPROVE FIRST FORK IN THE GROUND TO FIRST KEYS HANDOVER TIME BY UP TO 30%.

15  
MINUTES

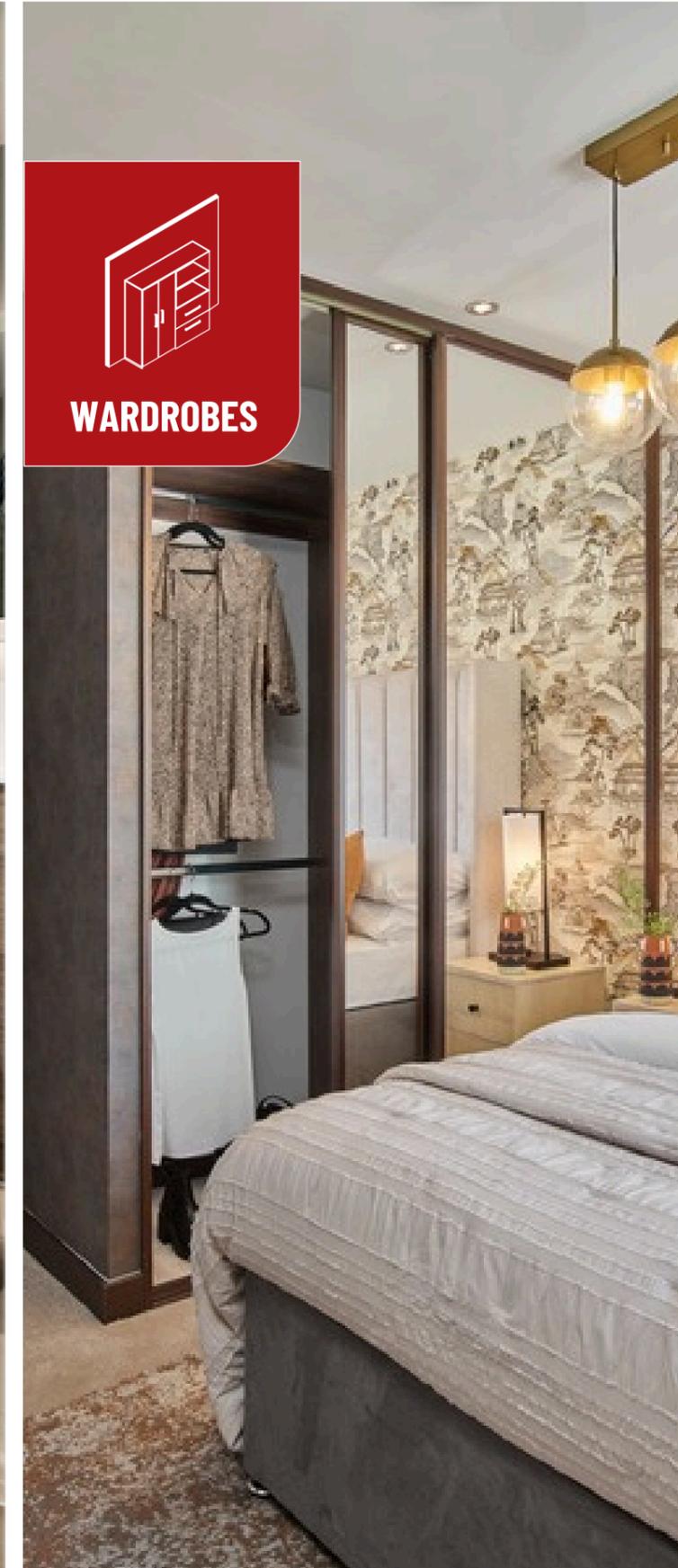
ONE UNIPANEL COMPLETE WITH WINDOWS, DOORS, INSULATION, FIRE STOPPING AND CLADDING CAN BE PRODUCED EVERY 15 MINUTES.

60  
MINUTES

THE TIME ON SITE TO INSTALL FOUR UNIPANELS FOR A TYPICAL APARTMENT IS 60 MINUTES.

# BOS FITOUT

**We create innovative, high-quality fitout solutions that transform spaces and streamline projects.**



# CASE STUDY

## ABBEY QUAY, BARKING

**Client** – Weston Homes  
**GDV** – £350m  
**Contract Value** – £18.92m

### Development Overview

This landmark development delivers 1,089 new apartments across 13 blocks ranging from seven to 29 storeys, creating a significant new residential community and contributing to large-scale regeneration. With a contract value of £18.92m, the scheme represents one of British Offsite's largest projects to date.

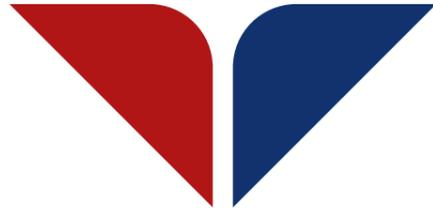
### Superstructure – £15m

British Offsite was appointed by Weston Homes to manufacture and supply its advanced UNIsystem<sup>SFS</sup> light gauge steel system for the superstructure. Currently in progress, the offsite installation is supporting a project of unprecedented scale by providing the programme certainty, efficiency, and quality control required for delivery.

### Internal Fitout – Internal Fitout – £3.92m

1,750 no. BOS Fitout bathrooms, bespoke to client bathroom system, with fitted vanity unit, taps, shower trays, shower screens, showers, baths, bath panels, tiles.  
 1,089 no. BOS Fitout wardrobe systems with mirrored sliding doors, shelf pack, hanging rail, timber decors.  
 1,089 no. BOS Fitout quartz kitchen worktops, laser templated, CNC machined, sink/hob/tap/water filter/instant boiling water installation with worktops.

# WHY BRITISH OFFSITE? TEN REASONS



# 1

## PROVEN HIGH QUALITY AT SCALE

In two years, we've delivered 3,000 new homes across London and the South East, guiding commercial, design, technical and site managers on how to plan and adapt to offsite from the offset.



## 3

### AN EASIER TRANSITION TO OFFSITE

Our hybrid solutions bring traditional and modern methods of construction together, enabling you to have an easy transition to offsite construction, or a fully risk-managed, complete revolution in how you build.

# 3

# 4

## PARTNERSHIP WITH RANDEK AB

We built our second factory, Horizon, with Randek AB, a company we selected because of their continuous dedication to innovation. Together we've created one of the most automated light gauge steel panel assembly lines in Europe, the largest single production line in the UK to date and Randek UK's largest.



## 2

### FLEXIBLE PRODUCT RANGE

Our UNisystem has light gauge steel at the core and is dressed with board, insulation, fire stopping and external cladding, consolidating the work of over five trades into one panel and matching your design specifications exactly.

# 2



# 5

## READY TO BUILD 4,000 HOMES A YEAR

Our second, 180,000 square feet Horizon factory comes with state-of-the-art machinery, robotics capability and precision quality control systems. It's one of the most advanced in Europe, dedicated to delivering panelised systems for house, low- and high-rise projects.

6

**FULL ACCREDITATION**

We hold a full suite of industry accreditations, including NHBC, BOPAS, ISO 9001, BS EN 1090, ICW Endorsed, and Premier Guarantee. These certifications demonstrate our commitment to quality, compliance, and delivering trusted solutions across every stage of construction.

**A SINGLE FOCUS, ALIGNED WITH OUR CUSTOMERS**

Our role is radically reducing the risks and delays in construction to deliver high quality, occupiable properties faster. We bring together insights from property development, engineering, and the automotive and logistics sectors to offer the most effective, streamlined process.

7

**END-TO-END COLLABORATION AND CUSTOMER CARE**

We can guide you on the suitability of your project for offsite construction with our early stage consultancy addressing land optimisation, pre-planning design and logistics considerations. Our collaboration and support continues through design stages, technical drawings, programme sequencing, onsite installation and after care.

8



**DEVELOPERS BEFORE WE BECAME MANUFACTURERS**

Because we understand traditional construction, we bring a developer's mindset to our customers' challenges as well as manufacturing insights, enabling you to achieve design, productivity, financial and environmental goals.

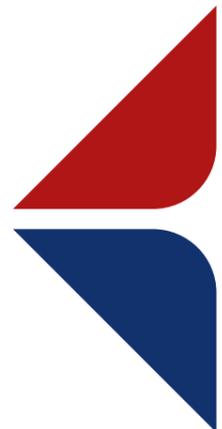
9

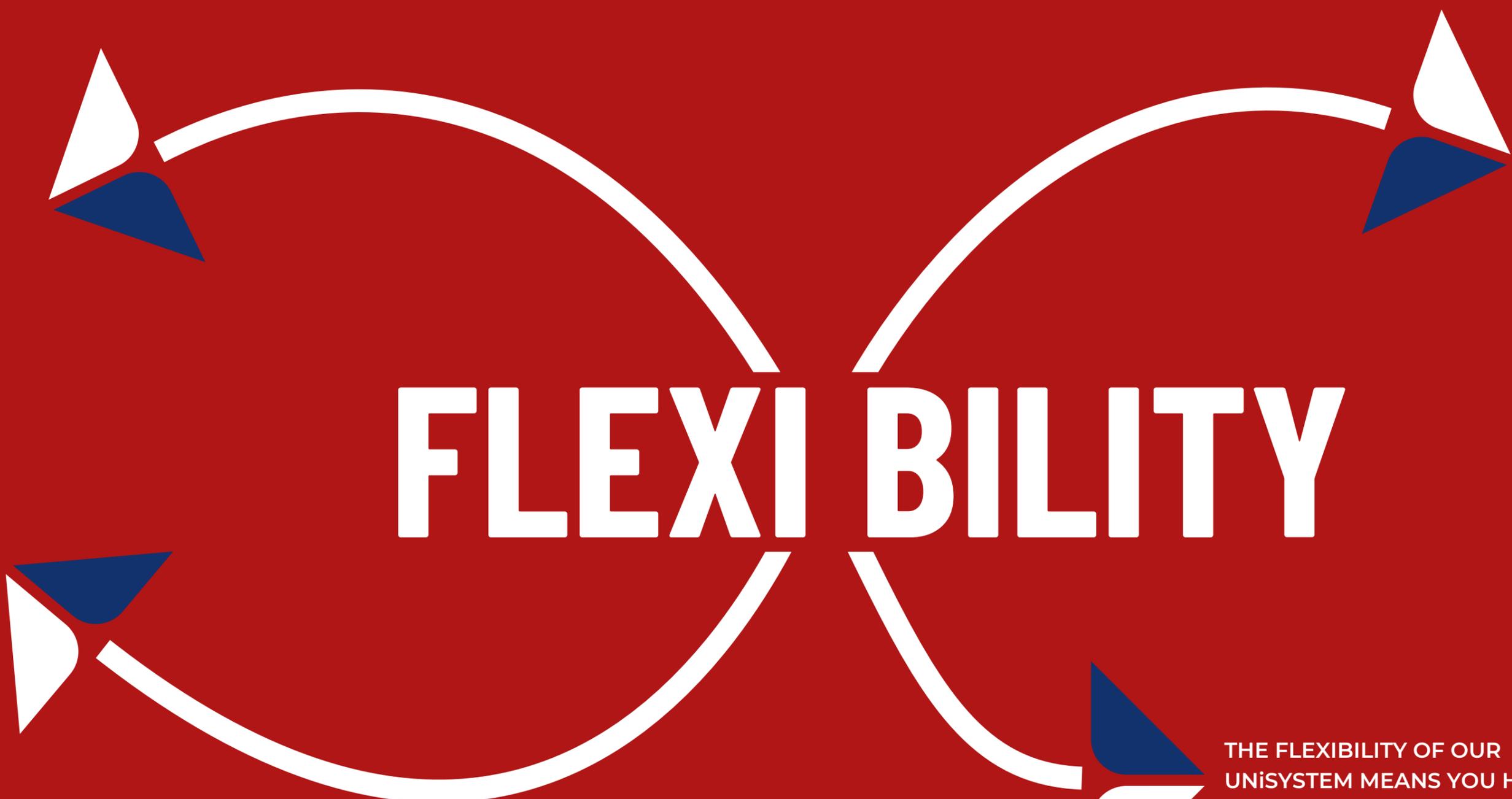
10



**HELPING TO SOLVE THE BIG CHALLENGES**

We're proud of our role, helping to tackle the housing crisis in the UK, developing new skills in high-tech manufacturing, addressing the skills shortage in the construction sector, and building more energy efficient homes for the protection of our planet.





# FLEXIBILITY

THE FLEXIBILITY OF OUR UNiSYSTEM MEANS YOU HAVE COMPLETE CONTROL OVER ARCHITECTURAL FEATURES AND THE OPTION TO MANUFACTURE A BASIC OR “FULLY DRESSED” PANEL FOR YOUR INTERNAL OR EXTERNAL WALLS, FLOORS AND ROOFS, ALL OF A CONSISTENT QUALITY.

## HORIZON FACTORY DELIVERING YOUR DESIGN VISION

TOGETHER WITH RANDEK AB, WE'VE CREATED ONE OF THE MOST AUTOMATED LIGHT GAUGE STEEL PANEL ASSEMBLY LINES IN EUROPE AND THE LARGEST SINGLE PRODUCTION LINE IN THE UK TO DATE.

Horizon is a 180,000 sq ft manufacturing facility where automation and skilled operatives work side by side on a purpose-built production line. With over £40 million invested in state-of-the-art machinery and just-in-time solutions, production capacity has quadrupled to 4,000 homes a year.

Partnering with Randek, specialists in tailored building systems, we manufacture our panelised UNisystem to exceptional standards while offering customers flexibility. Homes produced at Horizon can be customised to your design vision, with a wide choice of fittings and surfaces enabled by efficient sourcing, delivery, and storage.

Precision machinery ensures every component is cut, assembled, and delivered flawlessly finished and carefully packaged.

**180,000 SQ. FT**  
SIZE

**£40 MILLION**  
INVESTMENT

**4X**  
PRODUCTION CAPACITY

# SKYLINE FACTORY INTERNAL FITOUT MANUFACTURING

SKYLINE IS A 75,000 SQUARE FEET HIGH-TECH MANUFACTURING SPACE, WHERE BOSFITOUT IS PRODUCED IN HIGH VOLUME AT HIGH SPEED, WITH GREAT PRECISION, GUIDED BY OUR SKILLED OPERATIVES.

The first 1,000 homes we manufactured using UNIsystem, were manufactured using Skyline's assembly line and quality control systems, leading to highest quality apartment homes for Weston Homes customers across London and the South East, with more to follow across the Weston Homes portfolio.

We continuously train and upskill our operatives and invest in new talent so we have the high-tech manufacturing workforce we need to always deliver. We're proud to be part of the drive to increase high-tech manufacturing and skills in Britain.

**75,000 SQ. FT**  
SIZE

**1,000**  
HOMES MANUFACTURED TO DATE

# CUTTING CONVENTIONAL BUILD PRESSURES

## ADDED VALUE FOR EVERY PROJECT



### ELIMINATING DELIVERY DAYS

Through close collaboration on construction sequencing, our panels and internal fit modules are delivered in line with your build programme. This eliminates waiting time, keeps your schedule firmly on track, and prevents trades from being paid for redundant time on site.



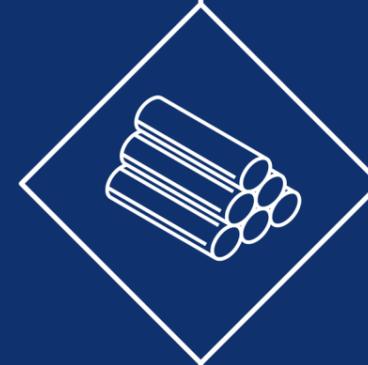
### LOWERING DEPENDENCY ON SCARCE CONSTRUCTION SKILLS

The skills shortage in the construction industry was widely reported before Brexit, now we're in a post-Brexit environment and the pandemic has further reduced access to skills. With the work of up to five trades consolidated into our panels, you're more protected from the skills shortage and construction can continue efficiently.



### REDUCTION IN SITE WASTE

Precision engineering at our state-of-the-art factories means many materials are installed in-line on the production line, with the best use made of sheet sizes. Our quality controlled manufacturing in a warm dry environment dramatically reduces waste and the associated costs of inefficient use of materials, while building sites can also be kept far tidier with sawing and cutting significantly reduced.



### REDUCED REQUIREMENT FOR STORAGE SPACE ON SITE

The more materials you have delivered to site, the more storage space you need to keep them safe, secure and in good condition. Windows in particular create a storage challenge, with stacks of floor to ceiling panes of glass creating a major health and safety hazard. Our UNIsystem lets you pre-install windows and doors, as well as insulation, cladding, fire stopping and vents, taking away the storage challenge.



### RAPID DELIVERY OF DRY ENVELOPES

With fully dressed panels delivered direct from our factory, you can construct dry envelopes faster and reduce the time spent waiting for units to dry because of bad weather. Internal fit outs can happen sooner. Our close collaboration on sequencing and logistics from the beginning to the end of every project, working around weather challenges, means you always have our panels exactly when you need them.



### HEALTH AND SAFETY RISKS LOWERED

Efficient installation of our panels, floors and walls means the scaffolding on mid- and high-rise developments can come down faster. Your team will be working in completed envelopes sooner, putting them at lower risk of accidental falls. A tidy site with fewer trades and stored materials equally reduces health risks and hazards.

# EFFICIENCY IN BUILD AND OPERATION

## TARGETING NET ZERO CARBON

ACROSS OUR VALUECHAIN, WE'RE REDUCING WASTE AND ENERGY CONSUMPTION AND INCREASING THE AMOUNT OF RECYCLED MATERIALS WE USE, TO DELIVER ENERGY EFFICIENT HOMES THAT ARE MORE COST EFFECTIVE TO RUN FOR HOME OWNERS AND BETTER FOR THE PLANET.

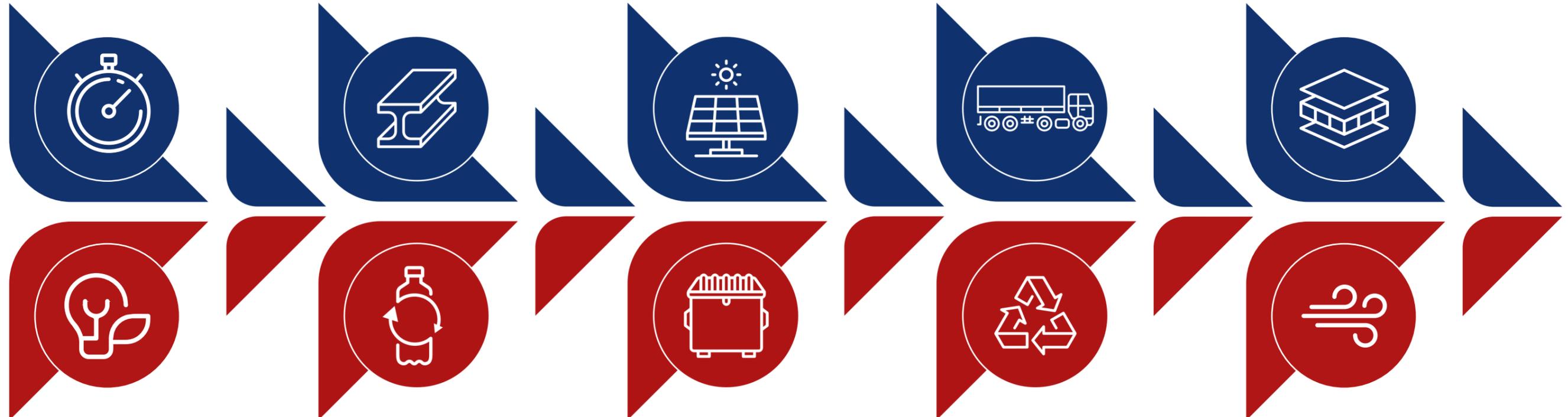
Design of the Horizon factory with Randek AB focused on precision and efficiency, utilising state-of-the-art machinery with energy control measures built in.

Responsibly sourced steel for UNisystem core contains 38% recycled steel.

Self-generated renewable energy from solar panels on the Horizon factory roof.

Fewer site deliveries with just-in-time methods and fewer trades on site minimising road miles and energy consumption of deliveries.

Superior air tightness of UNisystem due to precision manufacturing, increasing insulation and reducing household energy consumption.



Continuous improvement of UNisystem and BOS Fitout range to drive energy efficiency in production and operation of homes.

Insulation layer on UNipanel made from recycled bottles.

Precision just-in-time manufacturing optimising use of raw materials and reducing waste.

Durable 100% recyclable packaging, reducing amount used and ensuring none goes to landfill. 75% of all other waste is recycled.

Option for pre-installed glazed windows, with exceptional air tightness, increasing insulation of homes.

DEVELOPMENT

SOURCING

MANUFACTURING

LOGISTICS

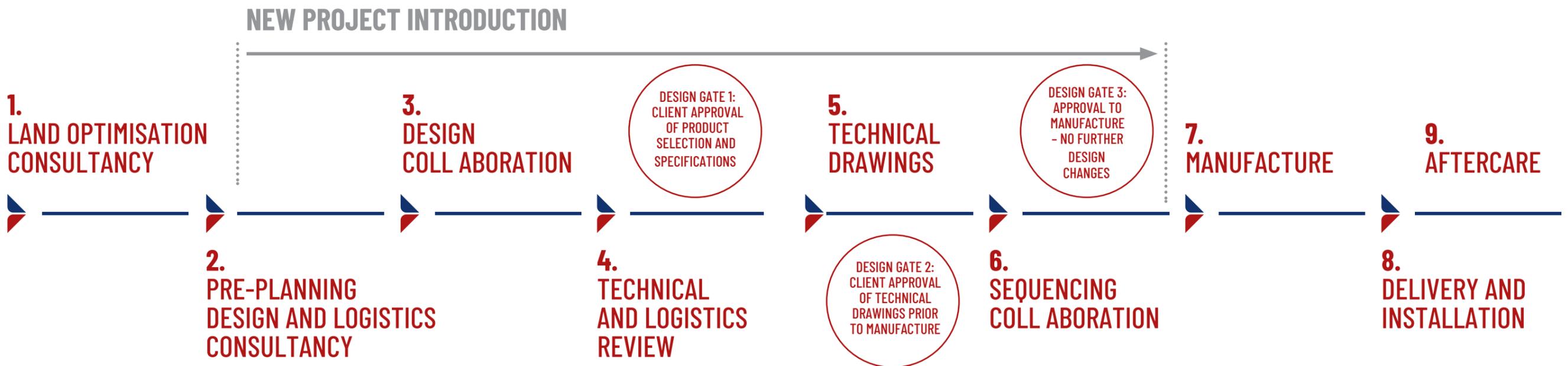
PRODUCT

# PROGRAMME MANAGEMENT

## THINKING OFFSITE FROM THE OFFSET

WE SUPPORT CUSTOMERS AT EVERY STAGE OF THE OFFSITE PROCESS, INTEGRATING MANUFACTURING INTO TRADITIONAL BUILD METHODS, INFORMED BY OUR EXTENSIVE BUILD EXPERIENCE.

The benefits of offsite construction are maximised when you have a full understanding of land, access, and clarity about design and architecture objectives. Customers can depend on us to ask the right questions at every stage, to guarantee shared understanding and agree strategies amongst all stakeholders. We can convert a traditional project to a hybrid MMC design and deliver to your site in as few as 150 days.



### 1. LAND OPTIMISATION CONSULTANCY

- Qualifying land for offsite construction: size, shape, access, conditions, housing or apartment block potential, number of units, height, local design and architecture alignment
- Supporting business case preparation

### 2. PRE-PLANNING DESIGN AND LOGISTICS CONSULTANCY

- Understanding developer ambitions
- Defining product range solutions
- Meeting local authority expectations on design and implementation criteria
- Scoping initial sequencing plan
- Preliminary estimates

### 3. DESIGN COLLABORATION

- Core product selection: UNipanel, UNiwall, UNifloor, UNiroof and/or internal BOS Fitout modules
- Defining product sizes, architectural features and specifications: doors, windows, vents, insulation, fire stoppers, external cladding
- Technical drawings

### 4. TECHNICAL & LOGISTICS REVIEW

- Design and architecture vision
- Bespoke design features
- Planning requirements
- Accreditations
- Energy efficiency
- Health and safety planning/controls
- Trades requirements
- Schedule and sequencing plan

### 5. TECHNICAL DRAWINGS

- Technical drawings development for selected products: UNipanel, UNiwall, UNifloor, UNiroof and/or internal BOS Fitout modules
- Joint review of drawings
- Final refinements to match all architectural and technical specifications

### 6. SEQUENCING COLLABORATION

- Defining construction sequence
- Product installation training
- Product delivery scheduling
- Trades sequencing
- Contingency planning

### 7. MANUFACTURE

- Technical drawings translated to machine programme
- Production scheduling
- Just-in-time manufacture
- Quality control

### 8. DELIVERY AND INSTALLATION

- Dispatch in agreed quantities in approved sequence
- Unloading by crane for same day installation
- Quality control

### 9. AFTERCARE

- Post installation client aftercare
- Support to end of home warranty available

# CASE STUDY

## ORCHARD PARK, CAMBRIDGE

**Client** – Weston Partnerships/Vertex Living  
**Contract Value** – £2m

### Development Overview

British Offsite is working with Weston Partnerships and Vertex Living to deliver a 138-bedroom purpose-built student accommodation scheme in Cambridge. Set within a single five-storey block, the project represents a £2m contract and will provide modern, secure, and comfortable homes for students.

### Superstructures – £1.54m

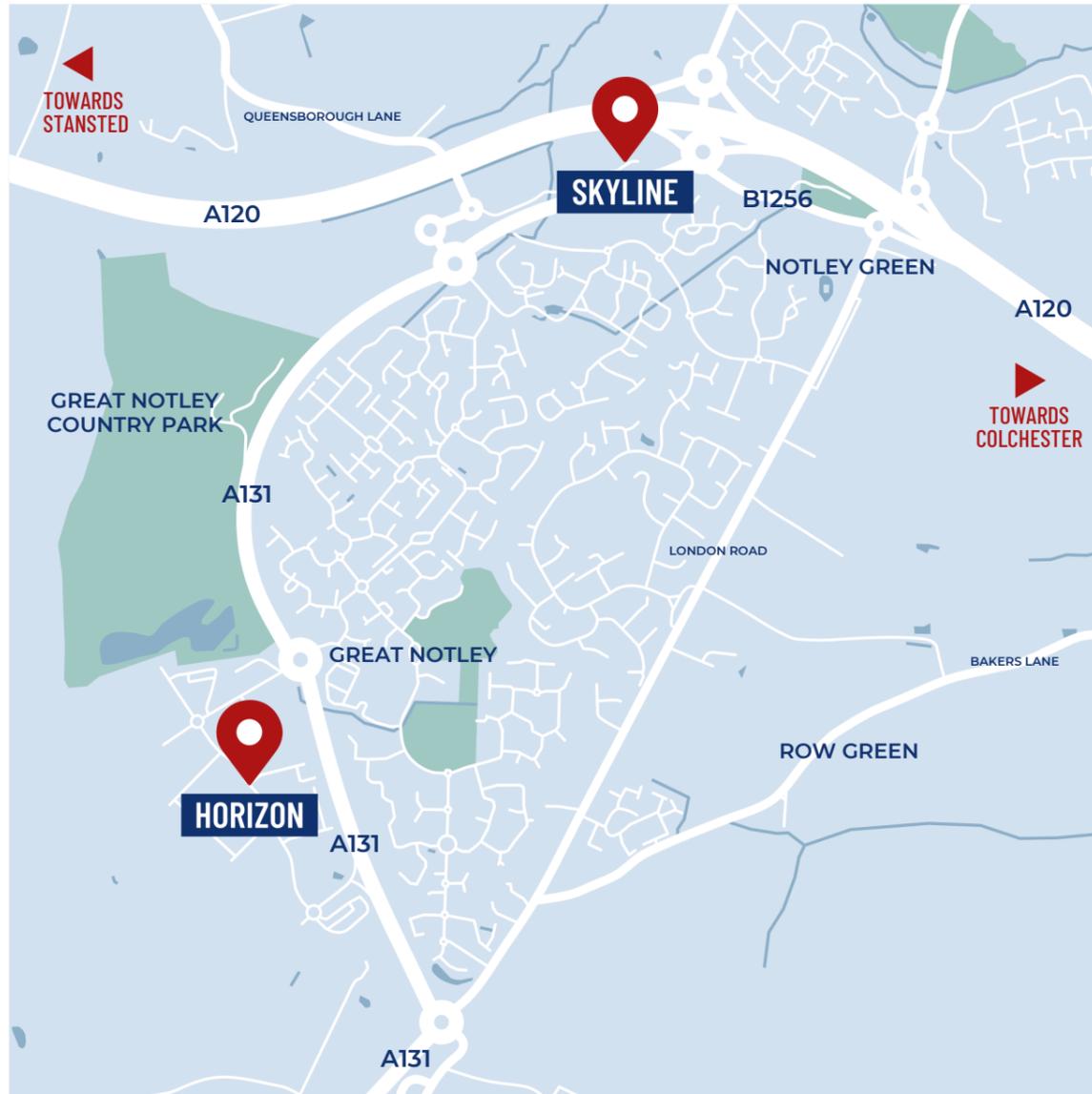
The scheme is being built with the UNIsystem<sup>LB</sup> light gauge steel system, designed for buildings for use in buildings of up to six storeys, with a maximum finished floor height of 18 metres. This advanced offsite solution allows for faster completions, ensuring students can move in on time for the new academic year. The precision-engineered panels offer long-term reliability, creating a robust, low-maintenance building that reduces future upkeep for operators.

### Internal Fitout – £369,146

As part of the Orchard Park development, British Offsite are delivering a pre-manufactured furniture and fitout package for student accommodation. Designed for durability, efficiency, and easy installation, the package includes a bed, integrated desk, compact kitchen, and freestanding wardrobe. The kitchenette module comes fully equipped with hob, sink, fridge, microwave, and dishwasher.



# WHERE TO FIND US



**British Offsite  
Head Office  
Horizon**  
1 Rontgen Place  
Horizon Boulevard  
Braintree  
Essex  
CM77 7AX

**Skyline**  
Skyline 120  
Avenue East  
Great Notley  
Braintree  
Essex CM77  
7AL

☎ 01371 707270  
✉ info@britishoffsite.com  
🌐 britishoffsite.com



Printed on  
FSC Certified Paper

