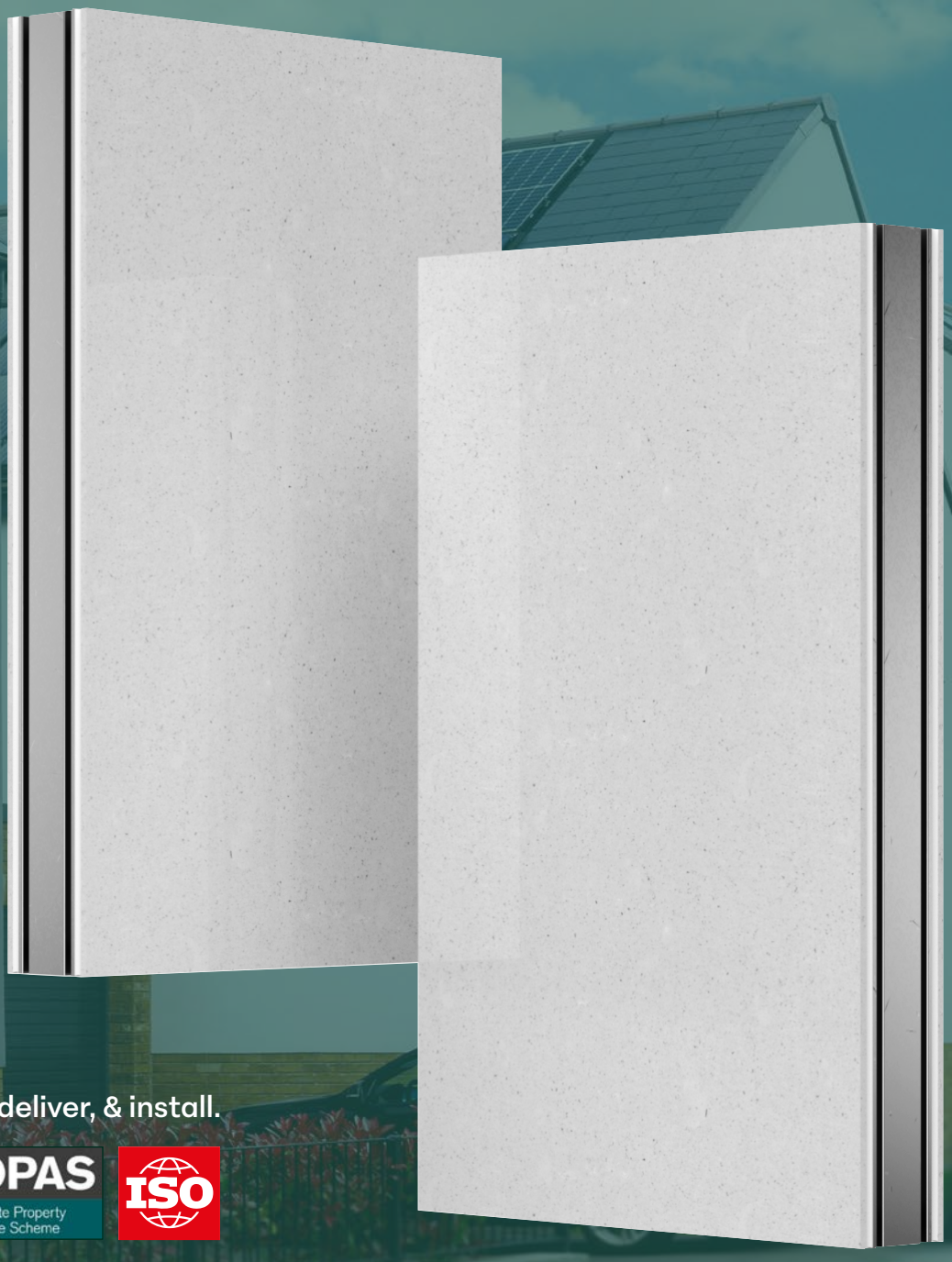
etopia

etopia.eco

Revolutionising sustainable building, without compromise.



Design, manufacture, deliver, & install.

NHBC

BOPAS Buildoffsite Property Assurance Scheme

ISO

BARCLAYS

"We're trying to back real-world commercial solutions to some of the world's biggest challenges, and what Etopia brings is environmentally friendly housing, designed for the modern world and modern technology, and it's delivering a product that the market is desperate to see."

UK and Europe Unreasonable Impact Sponsor

The Avenue

"One of the key features was the potential saving on our electricity bills. The energy saving features of the house have exceeded our expectations. We opted to sell back our surplus electricity generated by the solar panels. Over the last 2 months our actual electricity bills have been £2.40 and £3.10."

Homeowners at The Avenue, Corby.
Built by Etopia in 2021

NHBC BOPAS Buildoffsite Property Assurance Scheme ISO

Etopia design, manufacture, deliver, and install a category 2 MMC build system.

CONTENTS

" We have recently worked with Etopia on a multi house scheme and have been very impressed with the complete process. From design through to timely delivery and efficient construction, the quality is second to none. We're happily recommending Etopia to our business associates for future projects."

Phill Simpson, Director at PR Build Ltd

LinkedIn

Etopia enables fast delivery of sustainable, high-performance, energy efficient homes, with total design flexibility, without compromising on quality.

The unique SIP system enables contractors, developers, and registered providers to build net-zero-ready homes that are energy efficient and achieve the Future Homes Standard.

System components include:

- Ground & first floor SIPs
- Glulam ring beams
- Floor cassettes
- Roof gables & trusses
- Internal walls and service battens

Not typically required:

- Membranes to external walls
- Additional external wall insulation

— LARGE PANEL FORMAT

— GROUND FLOOR PANELLISED SUPERSTRUCTURE

— INSIDE A COMPLETED SUPERSTRUCTURE

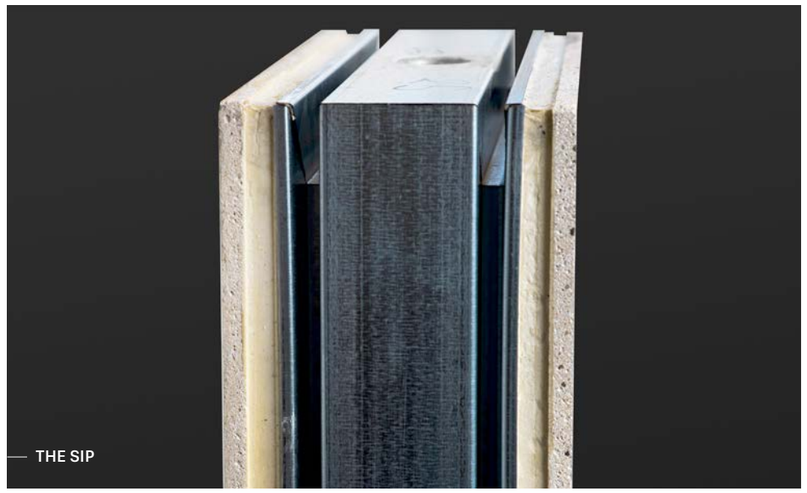
THE PANEL

Etopia's fabric-first build system utilises insulated wall panels which are manufactured in the UK.

The panellised system has total design flexibility, so can adapt to any house size and type, be it contemporary or traditional. Precision panellised designs are created in-house using Revit.

The panels are 185mm thick, faced with 12mm cement bonded particle board (CBPB) and have a metal profiled 'perimeter' to enable panel-to-panel connections.

The panels are overly compacted with PU foam insulation, bonding it together and giving it its structural strength, high airtightness, and low U-value. Window and door openings have specific 'lintel' and 'base' panels. Wide-span lintels comprise a 160mm wide glulam beam, also faced with 12mm CBPB.



— THE SIP

ENERGY TECHNOLOGY

The system enables clients to build homes with an A+ EPC rating, with the inclusion of an ASHP and PV.

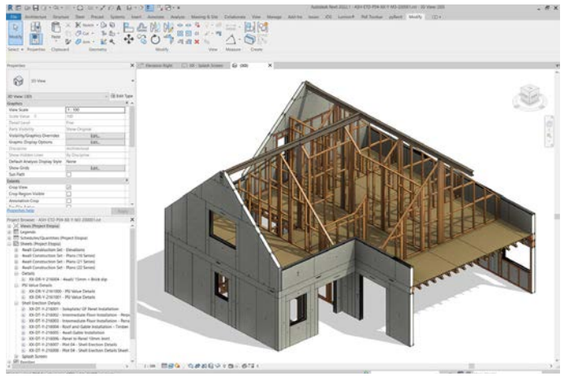
This means Etopia enable the delivery of homes capable of producing more energy than the heating and hot water systems require. Our highest recorded EPC is 107/100.

SERVICES

Design. Manufacture. Deliver. Install.

01 Digital superstructure panellisation and design.

Etopia will work with your architects or in-house design team to create new schemes or adapt exiting schemes into our panellised system.



02 Off-site manufacture of panels.

Etopia will manufacture at the volume and rate required for your programme. Final designs can be edited up to eight weeks before delivery.

03 Delivery of system components to site.

Etopia will deliver the components to site using minimal trips, due to being manufactured off

04 Installation of build system components.

Etopia's approved installers will erect your buildings, and can work with any main

Etopia can also provide sales and marketing collateral to help sell your homes.

YOUR PROJECT

Etopia's collaborative process can reduce your programme and increase the efficiency of your projects.

Engage with Etopia at the earliest stage to maximise savings across CO_2, time, transport, labour, and materials.

COLLABORATIVE PREPARATION → DESIGN, MANUFACTURE, DELIVER, & INSTALL

ETOPIA ENGAGEMENT

- New/existing schemes
- New/existing house types

REQUIREMENTS

- Specification
- Performance
- Speed

DESIGN & ESTIMATION

- BIM design
- Cost breakdown
- Delivery assessment
- Assembly requirements

MANUFACTURE

- Ground & first floor SIPs
- Floor cassettes
- Glulam ring beam
- Roof gables and trusses
- Internal walls
- Internal battening

DELIVER & INSTALL

- Delivery of materials
- Installation of system
- Supporting follow-on trades
- Project evaluation

THE FUTURE-PROOF

REVOLUTION

Scan to view the build system online.

ENERGY EFFICIENCY

The system can achieve an EPC rating of 107/100. It exceeds The Future Homes Standard for 'Zero Carbon Ready'.

AIRTIGHTNESS

The system can achieve an airtightness of 0.32m3/hr/m2 at 50Pa. The Future Homes Standard requires 5.00 m3/hr/m2 at 50Pa.

U-VALUE

The U-value for the panel is 0.14 W/m^2K at 185mm. The Future Homes Standard requires 0.15 W/m^2K.

FUTURE-PROOF

Exceeds The Future Homes Standard and future-proofs homes from potential costly retrofits.

FIRE RESISTANCE

A loaded party wall tested to BS EN 1365-1 achieved 90 minutes without failure.

CONSTRUCTION SPEED

A typical superstructure can be completed in five days. (External walls, intermediate floors, internal walls, & roof trusses.)

DESIGN FLEXIBILITY

BIM is used to replicate your existing designs throughout the DfMA process.

AESTHETIC FLEXIBILITY

Allows for any exterior/interior finish to meet the ideal look for the design of your buildings.

STRENGTH AND RIGIDITY

The system was tested to withstand wind loads up to 27.4 kPa with limited deflection.

STACKING STRENGTH

The system has a structural loading strength of 122 kN/m without any structural support or metal infrastructure.

FIT AND FORGET

The system doesn't rely on wall membranes, which can fail over time, causing air and water leaks.

DEVELOPMENT SAVINGS

Savings through reduced labour, materials, waste, time, foundations, prelims, and scaffolding.

SITE SAFETY

Off-site manufacture means less waste, fewer wet trades, cleaner sites, fewer slips, trips, falls, and falling objects.

EFFICIENT USE OF LAND

Etopia panels can increase the gross internal area or decrease the gross external area by 8-12%.

SCALE OF PRODUCTION

Small and large-scale schemes can be accommodated at reasonably short notice.

GREEN FINANCE

The system allows developers to secure green development finance, and customers can secure green mortgages.

PRECISION FINISHING

Flat panelled surfaces make it easier for follow-on trades to achieve a precise, high-quality finish.

SMART-HOME-READY

Renewable and smart technology can be easily integrated for greater comfort and control of interior environment.

CASE STUDIES

Juniper Place

Wilburton, Cambridgeshire

Scan to view this project online

2022-23, 30 eco homes

Located in the pretty village of Wilburton, East Cambridgeshire, Etopia's latest development, Juniper Place, is a boutique scheme of 2, 3, and 4-bed smart eco-homes, thoughtfully designed around tranquil areas of green open space.

The Avenue

Corby, Northamptonshire

2022, 47 eco homes

These homes are 25% larger than UK government guidelines. Their double-height windows and triple glazing create stunning levels of space, light, and warmth. With state-of-the-art kitchens, bathrooms, and lighting, plus a smart home energy management system, these are truly modern homes.

Marquis Gardens

Old Dalby, Leicestershire

2023, 39 eco homes

A range of high quality, sustainable, modern family 3 and 4-bed properties, attractively located on the edge of the village.

Due to Etopia's space-efficient panels used in construction, the homes provide spacious open-plan living areas, large bedrooms, and high levels of comfort.

Eco-gym showcase
Riyadh, Saudi Arabia

The Walled Garden
Private residence, Devon

Architectural practice
Commercial, Ashbourne

Farm house
Private residence, Devon

Discuss your needs with our team.

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THE FUTURE-PROOF

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Deliver. Install.

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