EOS

IN THE FRAME

IN THIS ISSUE...

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EOS EXPANSION TO DELIVER MORE OFFSITE SOLUTIONS

I am delighted to announce that EOS are continuing our investment and development throughout 2020, and as part of Etex New Ways Division (NW), are planning a further factory expansion scheme to extend our prefabrication services for the offsite markets.

The aspiration is to double our turnover in the next three years through completing more of the manufacturing processes in our well-managed factory which operates to stringent BS EN ISO 9001 regulatory requirements and BS EN ISO 14001 environmental standards. These steel framing services include:

- Pre-assembled LGS Framing Systems with Siniat boarding factory applied.
- Oversail LGS Panelling with pre-boards fitted to the outer face of the primary structure which can extend over two - three floors.
- 2D LGS Panelised Pre-clad Housing Solutions for walls, floors and roofs.
- LGS Flooring Systems to provide more innovative offsite housing solutions.
- Enclosed LGS Panels Systems inclusive of doors, windows and services.

This expansion programme will also help EOS meet the uptake in demand of our industry leading Thrubuild® system range by increasing our capacity of assembly and automated benches.

This is extremely positive news for all those operating in the offsite sector as this investment will ensure we can keep up with the requirement for robust certified fire-resistant steel framing systems.

Steve Thompson
Managing Director of EOS
Part of Etex NW

THE OPTIMUM FAST-TRACK SOLUTION

New for 2020, EOS has launched our new 84-page company brochure and case study compendium – featuring our innovative products and services together with testimonials and over 30 detailed project profiles across healthcare, education, residential, commercial and mixed-use sectors.

To download a copy today go to: www.eosframing.co.uk/information-centre

STANDING ABOVE THE REST AT futurebuild

EOS was the focal point of the recent futurebuild event standing head and shoulders above the rest with our double-storey exhibition stand.

Crowds gathered to find out how our revolutionary 30-year certified Thrubuild® system range can vastly reduce costs and build times. Many picked up a copy of 'The Optimum Fast-Track Solution' – our latest company brochure and case study compendium which features over 30 detailed project profiles.

Presenting in the Light Steel Frame Association's industry forum update, our Business Development Manager Peter Burchill showcased 'Residential Applications for Light Steel Frame' taking delegates on a journey through the build process and beyond. Describing how offsite manufacturing and taking a system approach can achieve 30% faster construction programmes when compared to onsite traditional building methods – delivering higher quality and programme certainty, even in inclement weather. Plus, discussing how follow-on trades can work 'a floor behind' further reducing the critical path. With a 15-day manufacturing lead time, the EOS Thrubuild® loadbearing system range supports 'just in time' delivery schedules.

Over 400 construction professionals visited our stand at futurebuild, so if you need more information or indeed, if you missed the event and are keen to find out how EOS can provide the optimum fast-track construction solution – then:

To book a free technical CPD session or to arrange a meeting contact:

Email:
peter.burchill@etexgroup.com
Call: 01325 303 030

Or get in touch via our website at www.eosframing.co.uk/contact-us

STEEL, SUSTAINABILITY AND THE CIRCULAR ECONOMY

Steel is one of the world's most recycled products with research showing that 99% of structural steelwork is reused or recycled. A sustainable circular economy is one which reduces the burden on nature by ensuring resources remain in use for as long as possible. With a long service life, we may have to wait a hundred years or more for steel that is in use today to be recycled or reused.

Design for Reuse

Recycling is one the mantras of the 21st century, but reuse for its original or similar purposes without vastly altering the physical form, is not top of the construction sustainability agenda. Distinct from recycling, reuse of construction products involves repurposing with little or no reprocessing. Offering even greater environmental advantages, there are no or very few environmental effects associated with reprocessing.

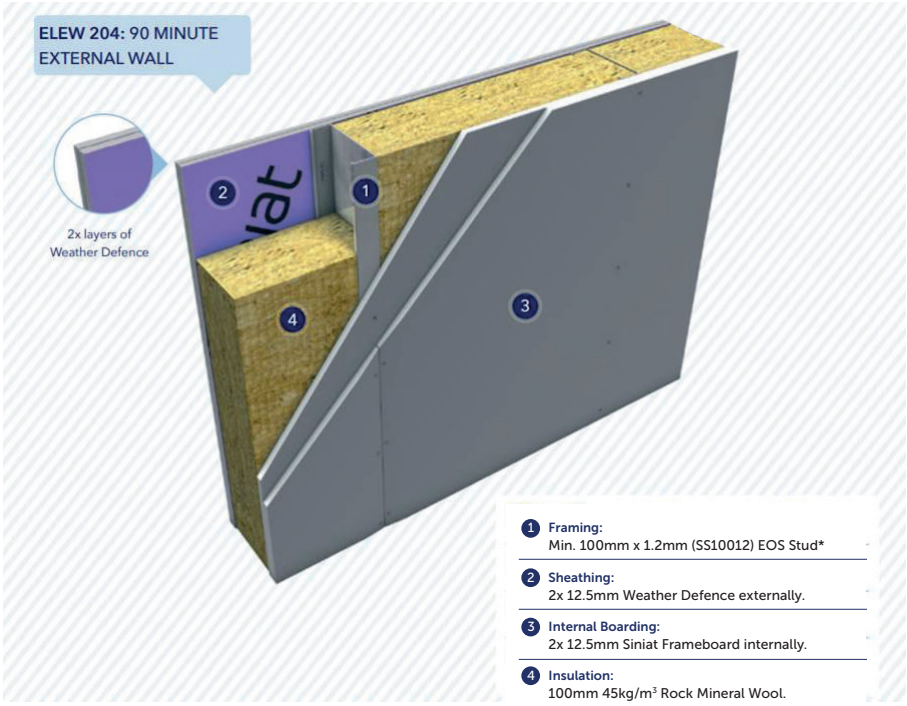
Designers should be encouraged to think not only about how their buildings can be easily and effectively constructed, but also how they can be efficiently deconstructed in the long-term and reused. This is a relatively simple process, for example, deconstructed sections are inspected and tested to verify their dimensional and strength properties. The section is then shot or sandblasted to remove any coatings, refabricated and primed to the requirements of the new project.

Research shows that there are around 100 million tonnes of steel in buildings and infrastructure in the UK. This 'stock' of steel is an important and valuable material asset that will be reclaimed and either reused or recycled in the future. EOS fully supports this research, which concludes that the environmental advantages of reusing reclaimed structural steel are considerable.

More recently circular economy concepts are being promoted, with a roadmap developed to support a shift towards a resource-efficient, low carbon economy. Increased structural steel reuse will support these aims and stimulate new business opportunities in the UK.

INTRODUCING THE REVOLUTIONARY **THRUBUILD®** SYSTEM

The EOS Thrubuild® systems use offsite manufacture and the latest testing to deliver structures faster, with assured performance built in. Developed in collaboration with Etex brands – EOS, Siniat, and Promat, these fast-track solutions make use of the latest products, technical know-how and manufacturing excellence of the combined team.



EOS 30 YEAR WARRANTY

Meeting building performance requirements for fire, thermal, weathering, acoustics and airtightness – the range of Thrubuild® systems deliver an 'all in one' solution providing crucial time and cost benefits. A system approach ensures the outcome is more predictable and repeatable, eradicating the risk of onsite variability.

The loadbearing light steel 'through the wall' systems, have been developed to form the structure of low to medium rise buildings, up to nine-storeys, and fully tested with boarding and insulation for confidence in design performance. By considering all components, this system approach can be relied upon to offer excellent fire, acoustic and thermal capabilities to suit the needs of UK commercial, education and multi-residential sectors. These complete floor and walling systems have been tested and assessed for compliance with the latest regulations and standards to ensure a robust and reliable performance. All systems have been engineered for structural performance to the latest Eurocodes.

THRUBUILD®

A System Approach

The ground-breaking Thrubuild® loadbearing and non-loadbearing systems have been developed as integrated solutions, using a range of EOS light steel frame, Siniat Weather Defence external sheathing board, and Siniat Frameboard – an internal plasterboard exclusively developed for the loadbearing systems.

After having completed rigorous fire, acoustic, weathering, airtightness and mechanical testing – our all Thruwall® systems are supported by a 30-year warranty. Almost all building arrangements can be achieved, and non-loadbearing drywall systems can also be used to sub-divide internal space following initial construction of the building system.

The system range comprises:

- Internal separating walls, between units, using twin 65mm studs or deeper
- Internal dividing walls, within a unit, using 100mm studs or deeper
- External walls, using 100mm studs or deeper
- Internal dividing floors, within a unit, using 150mm steel joists or deeper
- Internal separating floors, between units, using 150mm steel joists or deeper

Certification

The EOS loadbearing system is Stage 1 NHBC certified by SCI, certificate number 20180325.

EOS and Siniat manufacturing facilities are certified to ISO 9001 and ISO 14001.

EOS operate to stringent Health & Safety standards and are certified to ISO45001:2018.

Products are CE Marked to the requirements of products and steel structures standards.

UNDERSTANDING THE DYNAMICS OF **FAST-TRACK CONSTRUCTION**

The adoption of offsite construction involves upfront capital costs – this is often where comparisons are made between factory-based and traditional building methods. If evaluated in isolation the traditional approach could appear a cheaper option, without taking into consideration the numerous cost saving advantages of factory-based methods.

Construction clients may not fully understand the dynamics of fast-track construction. Part of our role as a specialist steel framing manufacturer, is to help them get to grips with the cost model and establish where savings can be made without compromising on quality.

As a major project delivery strategy, factory-based methods reduce construction time, delivering an earlier return on investment. Offsite manufacture for onsite assembly provides a clear schedule for high outputs, with stringent systems to track schedules, milestones and enable the smooth collaboration between contractors and clients.

From less material waste onsite with vast reductions in associated disposal costs, to improved quality with less investment in snagging, reworking and delays – comparing cost models is complex. The greatest gain of fast-track construction is shorter construction times with reduced prelims and site management costs – bringing houses rapidly on-stream. The main benefit of these shorter schedules is improved cash flow. By generating faster rent or sales income, construction financing costs are reduced - delivering a better and faster return on investment.

Working in full compliance with all relevant building standards, including the new Building Regulations relating to residential builds over 18m – EOS manufacture robust steel frame panelised systems and volumetric modules for non-loadbearing and loadbearing applications. We deliver a consistently high quality of finish with fewer defects than traditional building methods as a result of our advanced lean manufacturing processes in a BSI compliant facility.

For more information on our products and services visit: www.eosframing.co.uk/our-solutions

SUPPORTING THE **DESIGN** AND **CONSTRUCTION JOURNEY**

With expertise in panelised, volumetric modular and pod technology - EOS specialise in the design, manufacture and supply of a wide range of loadbearing and non-loadbearing light steel framing systems (LSF) for the offsite markets.

OFFSITE MANUFACTURING

Precision built offsite products require the application of leading-edge technology and contemporary manufacturing processes. We have invested substantially in the latest software and hardware systems in steel frame production. Our systems combine the latest E-Frame technology platform with proven assembly processes, providing fully framed panels that do not require jigging.

COST CERTAINTY

The EOS advanced manufacturing facility together with the development of a new fabrication plant supports our market leading all-inclusive pricing initiative. With a dedicated in-house estimating team, EOS guarantee a competitive pricing structure, with no hidden costs. We can provide a total lump sum price package which will not alter, providing the specification remains unchanged.

DESIGN

Our technical design team are highly qualified and experienced. We will work with your designers to establish the most cost-efficient design solution, cohesive with structural calculations. Our state-of-the-art manufacturing facility enhances offsite manufacturing by exploiting Design for Manufacture and Assembly protocols. This process helps to identify, calculate and eliminate waste or inefficiency in the building design.

PARTNERING

The team at EOS are well known for building excellent working relationships. We offer a comprehensive expert partnering service for conceiving, designing and manufacturing steel framing solutions for exacting requirements. Through collaborative working and by forming strategic alliances, we provide our specialist services to businesses, large and small, including some of the most prominent companies in construction.

TAKE A **VIRTUAL TOUR** OF OUR FACILITY

If you would like to find out more about advanced offsite manufacturing processes and follow the journey from factory to site, our new Video Vault is a valuable resource. Offering an in-depth insight into our advanced light steel framing manufacturing facility plus highlights from our recent site study tour of a prestigious mixed-use development and testimonials from those who are already engaging with us. **www.eosframing.co.uk/information-centre/video-vault/**

EOS operate across all sectors, delivering award winning offsite light steel framing systems. Here is a snapshot of our work:

HEALTHCARE
ROYAL LIVERPOOL HOSPITAL

EDUCATION
BEAULIEU PARK SCHOOL

MIXED USE
RUSKIN SQUARE

COMMERCIAL
TRAVELODGE MIDDLESEX ST

RESIDENTIAL
BRITANNIA MUSIC

VIEW OUR ONLINE CASE STUDIES AT: **www.eosframing.co.uk/case-studies**