



**UK-Based Structural Timber Specialist** 

# Sticx Structural Timber Specialists

SticX Ltd is a specialist structural timber company.

We design and build timber frames and other timber structures, including floors and roofs, utlising timber and engineered wood products.

Our structurally graded timber is imported from Scandinavia from demonstrably sustainable sources carrying PEFC certification.

We also design structures incorporating Glulam Beams and Cross-Laminated TImber technology.

Our designers work with the latest 3D CAD software packages, capable of integrating with the main architectural design software. We are also able to work within projects operating BIM.

We are also at the forefront of emerging timber technology nail plated techniques and are innovative in our approach to delivering projects.

# TIMBER FRAME

We design and build frames using sustainably sourced timber to suit all applications. From housing to student accommodation, from schools to nursing homes.

### **OPEN PANEL FRAMES**

Traditional panels for insulating on site. This is purely the structure of the building, ready for insulating and first fix. All of our open frame panels are made from treated softwood timber with an external sheathing board selected to suit the application.

#### CLOSED, PRE-INSULATED PANELS

These panels are prefabricated panels which have been insulated to suit the site specific insulation requirement. This removes the process of having to install insulation on site.





## HOW WE DELIVER STICK BUILT

#### **FACTORY BUILT**

Prefabricated panels used for a well planned, quicker site installation.

#### Panels are constructed on site. Used for short lead-in and when there is difficult access for cranes on site. This process is still one of the most commonly used in North Amrerica.

### **HYBRID BUILT**

A combination of stick built walls with prefabricated floor and roof cassettes.

Choosing timber frame for your project adds a specialist consultant, at no cost, to the design team who assists and advises on all aspects of the design and build sequence, this has proven to be invaluable to clients on many projects.

# SPACESTUD

SpaceStud is a high performing wall stud.

We will use the SpaceStud system for projects where the client wants to avoid onsite brickwork entirely, we have a range of ready-made solutions which provide an external wall finish.

At SticX we use ITW/Gang-Nail SpaceStud walls for a full, robust engineered external wall construction that can provide a large amount of cost effective insulation. The ITW SpaceStuds have superior thermal performance as well as reduced thermal bridging meaning less timber is required for manufacturing.

SpaceStuds can carry structural loads or can be non-load-bearing acting as partition walls.



# **FEATURES & BENEFITS OF SPACESTUD**

### **UKTFA 'Fabric First'**

Spacestud supports the UK Timber Frame Associations 'Fabric First' campaign which highlights the benefits of using timber frame as the core fabric of a building.

### Quality

Most building warranty and insurance providors stipulate that treated timber must be used in wall stud construction. The SpaceStud is manufactured as standard with treated timber.

#### **Economical**

Spacestud is one of the most effective wall stud systems in terms of costs and compliance to current and future standards.

### **CE Marked**

The SpaceStud which we use at SticX is one of the only timber frames to be manufactured to the CE standard.

### Improved Racking Resistance

SpaceStud provides a 20% greater racking performance than a standard 38 x 140mm timber frame stud construction.

# NAIL-PLATED WALL FRAME

The nail-plated wall solution is a true open panel system with no sheathing board required to achieve racking resistance. The wall panel uniquely uses pressed connector plates and diagonal timber braces to provide timber frame panels of unparalleled quality, strength and rigidity ensuring reduced costs, enhanced performance, minimised construction times and improved site logistics.



- Significantly reduced direct & indirect costs with the unique system design.
- Outstanding thermal performance achieved with a simple and efficiently installed system.
- Space saving with a reduced overall wall section compared to other construction methods.
- A unique range of options to reduce fire mitigation during construction.
- Increased quality ensured with a timber frame industry-first CE marked panel system.
- Minimised call backs for repair with less susceptibility to on-site damage by weather or other trades.

- A sustainable product with less materials and no adhesive used in manufacture; less insulation required and no use of plastics for element protection.
- Robust detail for E-WT-3 with a system specific design.
- Comfortably achieves challenging air tightness targets.
- Very low risk of interstitial condensation with no requirement for an outer membrane and reduced gauge VCL.
- Services can be fitted within the stud reducing wall section and minimising time for follow on trades.
- Established system accepted by all warranty and insurance providers.

**JOIST** 

# Under the licence of ITW Gang-nail, Joistz are able to design, supply and install CE marked, PEFC certified SpaceJoists.

We design and manufacture for all types of building, a joist with a superior span, that doesn't shrink and allows services to pass freely within the web.



## **BENEFITS OF THE SPACEJOIST**

- Easy access for installation of services.
- Metal webs allow longer spans and reduced costs.
- Reduced timber content which means fewer squeaks in the future.
- More flexibility with how the joists are supported due to the variety of end details available. Easier Part E compliance.
- All SpaceJoists are manufactured off site as bespoke designs meaning they are of consistent quality and reliability.
- Lightweight construction makes SpaceJoists easy to handle on site without the need for crane hire.

Joistz manufacture all of its joists using the most up-to-date methods, machinery and materials. We are able to provide our customers with a quick turnaround on pricing and manufacturing.

# METAL WEB OPEN FLOOR SPACEJOIST



### **JOISTZ for STEEL FRAMES**

We are able to use SpaceJoists for the structural timber floors within multi-storey, steel framed buildings. Using joists with steel frames is a quicker, more sustainable and cost effective process of build. They can be Top Chord Support or Bottom Chord Support.

### **JOISTZ for TIMBER**

We can supply SpaceJoists for standard timber frame. These can be top hung or can be fitted to a rim board or ring beam to satisfy the requirements of disproportionate collapse.



### **SPACERAFTERS**

SpaceRafters are a more efficient way of forming an attic space through using off-site construction. We can provide Loose SpaceRafters or Cassetted SpaceRafters.

### **ROOF TRUSSES**

Trussed Rafters are the most popular form of roof framing within the UK. They provide a flexible, quick installation at a lower cost.

Depending on the specific requirements of your project, we have a team of experienced, professional designers who can decide the best solution for your roof framing based on the range of Roof Truss configurations available.

# **TIMBER GUTZ**

A build solution that we provide at SticX that ties the internal walls, internal floors and roof structure as a single structural timber package for use on housing with a masonry shell.



This innovative approach to providing the benefits of off-site manufactured design brings joined-up-thinking to traditional masonry projects.

"We have used SticX for the design and erection of timber frames for a couple of primary schools and are now using them to help our team deliver two more. SticX management and operatives have worked with us to deliver our projects safely and quickly. Our confidence in SticX ability to deliver a great service is demonstrated by the fact we are choosing them on future projects, where SticX are contributing to delivering excellence not only in cost benefits, but wider social, economic and environmental outcomes to the local communities."

#### **MORGAN** SINDALL

CONSTRUCTION

Frank Reynolds, **Technical Director** 

"Over the past 4 years Sticx have delivered timber frame structures as below for our clients: Boaler St - 35 Houses and Bungalows (£280,000). London House - 122 Bedroom Student Accommodation over 5 Floors (£430,000). Orme House - 76 Bedroom Student Accommodation (£250,000). Private - Student standalone drum room with sound protection structure. Currently under development design is a 4,000m2 double storey roof top commercial office space. The team at Sticx have assisted at all stages of design in providing solutions for buildability as well as affordability. Prestart and on site management attention to detail have enabled fast track approach to completion of the projects. Going forward we will continue to have Sticx as part of the

commending the Sticx team to other clients."

"We would like to thank SticX for their

to go so well on the day."

assistance with the air test. We passed first go.

Its a credit to SticX that we have maintained the design with high quality construction methods

and the attention to detail which has allowed it



David Ovenden. Construction Management

team solution for upcoming projects and would have no hesitation in

**MORGAN** SINDALL

CONSTRUCTION

Ben Wolstenholme, **Project Manager** 

# SOME OF OUR COMPLETED JOBS

### **EDUCATION**

Bellerive Sixth Form College	£375,000	4 Storey College
New Park Primary School	£350,000	2 Storey School
Northway Primary School	£350,000	2 Storey School
Dasiy and Jake Nursery	£100,000	2 Storey Nursery
Linekar Primary School	£14,000	Modular Classroom

### **RESIDENTIAL DEVELOPMENTS**

Adelaide Wharf	£400,000	6 Storey
Baltic Hotel	£320,000	6 Storey
Paradise Street	£170,000	8 3-Storey Town Houses
Raven Road	£150,000	11 Bed Private Dwelling
White House Lane	£120,000	4 x 2 Storey

### **STUDENT ACCOMMODATION**

Falkland Street	£300,000	7 Storey, 100 Bed
Devon Street	£299,000	8 Storey, 208 Bed
OrmeHouse	£250,000	4 Storey, 80 Bed
Parham Road	£999,000	8 Social Houses

### **SOCIAL HOUSING**

Holywell Crecsent	£520,000	66 Houses
Ladysmith Road	£2,000,000	184 Houses
Chapel Lane	£112,000	6 Houses
Eskdale	£132,000	26 Houses
Park Road	£350,000	3 Storey, 35 Houses
Victoria Avenue	£133,000	11 Houses

### **CARE HOMES**

Ashton Road	£80,000	Single Storey Home
Manor House	£260,000	2 Storey Care Facility
Church Road	£300,000	3 Storey, 74 Units

## **UPWARD EXTENSIONS**

Bridgewater Street	£600,000	4 Extensions
Heelis Street	£300,000	10 Storey, 86 Units
Duke Street	£400,000	3 Storey , 120 Bed
Harrington House	£150,000	2 Storey, 16 Flats
K Village, Kendal	£550,000	2 Storey Extension
Hardman Street	£150,000	2 Storey Extension

### **SELF-BUILD**

Telegraph Road	£60,000	Large Private House
Coach House	£40,000	Large Private House
Dunham Barn	£60,000	Converted Barn
Hollands Lane	£70,000	3 Houses
Shore Road	£35,000	<b>Detached House</b>



Adelaide Wharf, Six Storey Apartment Block

MERSEYSIDE

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