



STA Plans for 2023

Andrew Orriss

Thursday 27th April 2023

Agenda



PR

■ A Change of direction

■ Quality not quantity


■ Tradition and modern

■ Targeted social media

■ Twitter evolving

Bloomberg UK

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Fire Fears After Grenfell Disaster Set Back Wood Building in UK

Timber construction has come to a near-halt in the shadow of a deadly 2017 conflagration, even though the material played no role in it.

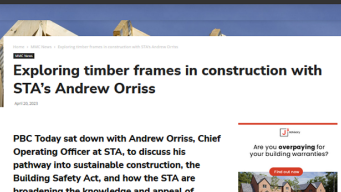
By Olivia Rugland
19 April 2023 at 05:00 BST

This article is part of the *Bloomberg Green* series 'Timber Town', which looks at the global rise of timber as a low-carbon building material.

To get fire department approval for their six-story London office project made of strong engineered wood known as mass timber, Theo Michell and Richard Walker had to build a full-scale section of it in the UK, ship it to Poland and attempt to set it on fire.

The mock-up was set alight "with enough material that replicates the fire load that you get from furniture and carpets and desks, and all the rest of it, and you see how that structure performs," says Michell.

pbctoday



Exploring timber frames in construction with STA's Andrew Orriss

PBC Today sat down with Andrew Orriss, Chief Operating Officer at STA, to discuss his pathway into sustainable construction, the Building Safety Act, and how the STA are broadening the knowledge and appeal of timber frames in construction


With a background in sales and marketing and experience in zero-carbon and sustainable construction, Andrew Orriss is working with the STA as their insurance broker to manage and develop their STA quality assurance scheme.

Is timber construction a sector that you'd always envisioned yourself in?

Yes and no. I suppose the truth is I spent most of my work life in insurance products, and that was really about the conservation of energy for buildings in use. I found myself running a structural insulated panel business in Germany for many years, which is often considered to be a stroke and construction in general.

Prior to that, I worked in insulation industry and was convinced to do the idea of building better buildings, using sustainable materials, using less energy and fuelling buildings. The risk was the increased cost of heating homes in an inflationary market, which unbeknownst to me at the time, is clear now in the end of the world we live in.


Timber and the drive for Net Zero



Andrew Orriss, at the Structural Timber Association (STA), looks at the role of structural timber in housing and how they can help achieve faster build times, lower embodied carbon and more energy efficient homes in line with current standards as well as the Future Homes Standard.

Timber is a material that has been used for centuries in construction. It is a natural material that is renewable and has a low carbon footprint. It is also a strong material that can be used in a variety of ways. In the UK, timber is used in a variety of ways, from traditional timber framing to modern timber frame construction. The STA is a leading organisation in the timber industry, and it is working to promote the use of timber in construction. The STA is also working to improve the quality of timber construction, and it is working to make timber construction more appealing to the general public.

LAST WORD




MOVING AT A PACE INTO 2023

As a key part of any sustained development programme, research is essential to inform action, gather evidence and contribute to widening knowledge. As a trade association, the STA takes its research seriously and provides the leading up-to-date of its membership to help it support its members. To support members, the STA has established joint venture industry capacity to produce the research on critical future topics and to help members to make the most of it. It is essential to ensure to share findings to ensure that the industry is moving at a pace into 2023.

If we're looking to move forward as an industry, we need to do it together. The STA is a leading organisation in the timber industry, and it is working to promote the use of timber in construction. The STA is also working to improve the quality of timber construction, and it is working to make timber construction more appealing to the general public.

Build methods




Building up to zero

Chris Windle looks at the innovations that various build methods offer housebuilders as the new Part 1 comes into force for all in June and the industry moves towards zero carbon ready homes

It is a year on from the implementation of the Building Safety Act, and the industry is now looking at the next steps. The STA is a leading organisation in the timber industry, and it is working to promote the use of timber in construction. The STA is also working to improve the quality of timber construction, and it is working to make timber construction more appealing to the general public.

STRUCTURAL TIMBER ASSOCIATION




GLOOM AND DOOM FOR 2023 - OR IS IT?

Andrew Orriss of the Structural Timber Association (STA) picks out some key themes that the organisation and its members will be concentrating on over the next 12 months.

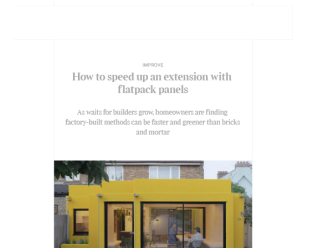
With a somewhat uncertain year on the horizon for 2023, some in the construction industry are growing increasingly nervous about a tough year ahead. But for the STA, the outlook is more optimistic. The STA is a leading organisation in the timber industry, and it is working to promote the use of timber in construction. The STA is also working to improve the quality of timber construction, and it is working to make timber construction more appealing to the general public.

2023 PLOTTING A COURSE THROUGH CHOPPY WATERS



At a degree of calm may have returned to the industry, the economic picture is less than pretty however, with inflation at 10% and interest rates at 5.5%, the industry is facing a challenging year. The STA is a leading organisation in the timber industry, and it is working to promote the use of timber in construction. The STA is also working to improve the quality of timber construction, and it is working to make timber construction more appealing to the general public.

How to speed up an extension with flatpack panels



How to speed up an extension with flatpack panels

As waits for builders grow, homeowners are finding factory-built methods can be faster and greater than bricks and mortar

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OPERATIONS UPDATE

STA | STRUCTURAL TIMBER ASSOCIATION

Website – Phase 2

- Site Safe Registration – separate platform [no change]
- Consolidate member area of the website to improve user experience and engagement
- Create skills hub to better inform members of initiatives and options for skills and training, highlighting the benefits and increase prominence of navigation
- The Library
 - Ensure user experience is seamless by incorporating areas of the site still operating under the old system and convert to WordPress as appropriate

STA Website “back office”

 **STA**

STRUCTURAL
TIMBER
ASSOCIATION

LIBRARIES

MEMBERS AREA

JOIN

CONTACT US

HOME ABOUT FIND A MEMBER STA ASSURE TIMBER SYSTEMS SELF BUILD INSURERS & LENDERS

TECHNICAL DOCUMENTS

The STA provides some of the most comprehensive technical documents available for the sector, curated by our expert team to ensure we cover the entire spectrum of technical requirements. We constantly review and update our technical library to ensure we provide only the most up to date content for our members.

To locate documents, simply use the filters below or sort the columns A-Z or Z-A by clicking on the arrows.

Please note, some documents are only available to STA Members and you will be required to login and if you are a visitor to the site, you may need to enter your contact details and by doing this you confirm that you are happy to receive further information from the STA. [Terms and conditions of use can be found here](#). If you require help on technical related issues, please call 01174 032497 or email technical@structuraltimber.co.uk

FIRE SAFETY IN USE REPORTS:

[Click here](#) to access the Research Reports the Structural Timber Association has produced in collaboration with Construction Scotland Innovation Centre (CSIC), the University of Edinburgh and BRE. These include:

- Structural Timber Buildings Fire Safety In Use Guidance Volume 1 - [Pattern Book Systems](#) (SEPTEMBER 2022)
- Structural Timber Buildings Fire Safety In Use Guidance Volume 2 - [Cavity Barriers and Fire Stopping](#) (JUNE 2021)

STRUCTURAL TIMBER MARKET RESEARCH REPORT: RESIDENTIAL SECTOR:

For members to access this new market research report commissioned by the STA, please select 'Market Research Residential Sector Report' in the library below.

Data Management – external

- CRM cleansing
 - To create and maintain a non-member database to enable better communication to wider construction market and stakeholders, using existing master database (37,000)
 - To set protocol to ensure the database is kept up to date and cleansed and new contacts added from external sources
 - Create a comms plan to engage with this audience on a regular basis

Data Management – internal

- CRM Management
 - Member interface and profiling

Skills and Training

TFCAS v3

- Invigilation of testing
- New modules
- Simplification of registration process
- Different learning styles

Designer competency

- Update workbooks
- Develop and initiate a process

Guidance on funding

- What is available
- What can be claimed

Recruit and retain talent

- Provide guides
- What training solutions are available

STA Skills and Training Tool Kit – web-based

- Update website with tools to help with learning strategies
- Add 'how to' information

Continuous learning

- Establish a provider network
- Investigate and report a centre of excellence network

Durability

- Design
- Storage
- During construction
- In use
- Long term impact of moisture ingress
- Remediation strategies



Table B3 Specific provisions of the test for fire resistance of elements of structure, etc.

Part of building	Minimum provisions when tested to the relevant European standard (minutes) ⁽¹⁾	Alternative minimum provisions when tested to the relevant part of BS 476 ⁽²⁾ (minutes)			Type of exposure
		Loadbearing capacity ⁽³⁾	Integrity	Insulation	
1. Structural frame, beam or column.	R see Table B4	See Table B4	Not applicable	Not applicable	Exposed faces
2. Loadbearing wall (for a wall which is also described in any of the following items, the more onerous guidance should be applied).	R see Table B4	See Table B4	Not applicable	Not applicable	Each side separately

Testing

Fire testing programme

- Response to DLUHC burn out
- Volume 1 update
- Volume 2 update
- Volume 3 new
- Volume 6 update
- Gap analysis ALIOT



$$t_f = \begin{cases} 2.54 Z D \left(3 - \frac{D}{B} \right) & 4\text{-sided exposure} \\ 2.54 Z D \left(3 - \frac{D}{2B} \right) & 3\text{-sided exposure} \end{cases} \quad (\text{Equation 1.3-7})$$

where Z for short columns ($K_{el}/D \leq 11$) follows from

$$Z = \begin{cases} 1.5 & R < 0.5 \\ 0.9 + \frac{0.3}{R} & R \geq 0.5 \end{cases} \quad (\text{Equation 1.3-8})$$

where Z for long columns ($K_{el}/D > 11$) follows from

Testing

On the subject of testing!

Paul Morrell authored this 174 page report highlighting the inadequacies of the current system

Result – over 85 recommendations!



Department for Levelling Up,
Housing & Communities

Testing for a Safer Future

**An Independent Review of the Construction Products
Testing Regime**

Prepared by the Review panel: Paul Morrell OBE (Chair) and Anneliese Day KC

April 2023

Other Stuff



Other Stuff

- STA Assure
- Future Homes Standards 2025
- Scottish building Standards
- Time for Timber
- NHBC
- CCPI
- Offsite Alliance
- Offsite Expo
- Engineered Wood Products
- Cavity Barrier industry engagement

