

**Lifts you can position almost  
anywhere in your building.  
Reduced installation times.  
Lower building costs too.**  
**Find out what our  
FX Structure Supported lifts  
can do for you.**



**Stannah**



**The FX structure eliminates the need for scaffolding, a lifting beam and load bearing wall. Offers design freedom, with spectacular results.**

# What can our **FX** **Structure Supported** **lifts** do for you?

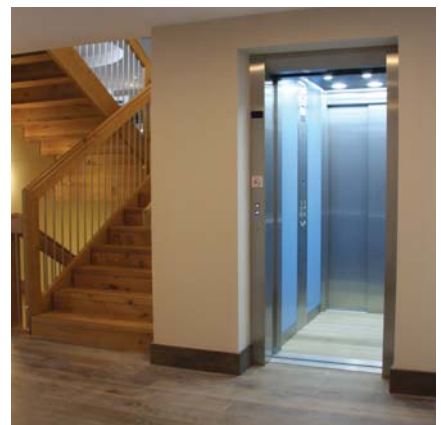
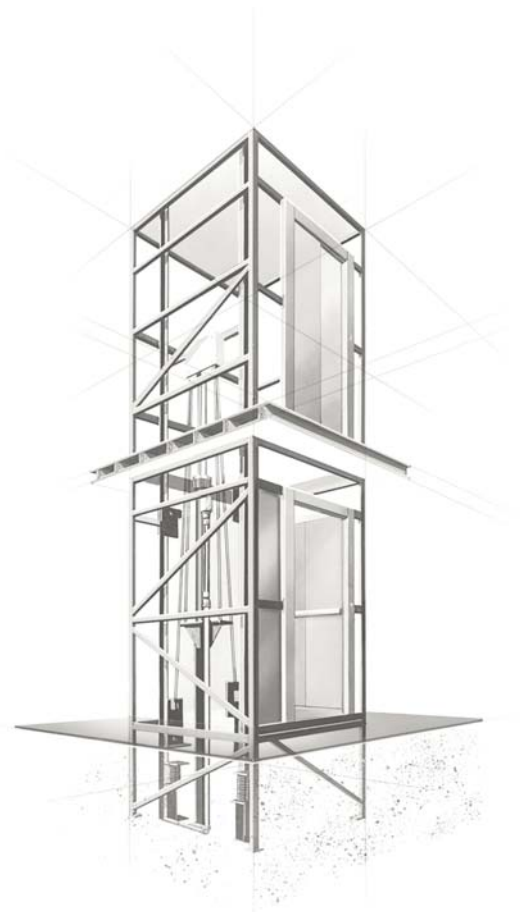
They simply make the installation of a lift a little more straightforward. The lift is supplied in its own structure meaning you do not need to build a load-bearing shaft, provide a lifting beam, or require scaffolding. This allows for true flexibility in the positioning and cladding of the lift, saving time and costs on site.

## **FX structure for traditional brick or block buildings**

Our steel structure has been supplied in hundreds of buildings across the UK and remains a popular solution in all sorts of new and existing buildings, when the walls are not considered strong enough to support a wall-mounted model, or you do not want to build a load bearing wall.

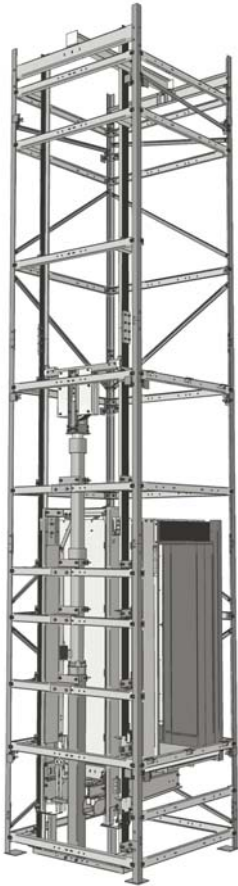
## **FX structure for timber framed buildings**

This adaptation of our original structure is an innovative solution for timber framed buildings, where natural vertical movement due to timber shrinkage can cause problems when combined with a conventional lift shaft.



## The FX structure

Unique to Stannah, the FX structure comprises of a “shaft within a shaft” it is erected by our engineers, incorporates a lifting beam and negates the need for scaffolding within the shaft, saving both time and money on site. Most of the load is transmitted to the floor of the pit, avoiding the cost of building a load bearing shaft. The landing doors are fixed to the steel structure, which in turn is supported at each floor.



Supplied in its own structure, the Stannah FX structure helps reduce building time and costs

### Key benefits of the Stannah FX:

- There is no need for inserts (unistruts) for fixing to be built by the builder, making it easier to build and saving cost
- There are no load bearing walls to be built, making it easier and cheaper to build
- Scaffolding is not needed (on most models) to erect the lift, saving substantial cost and disruption, with fewer people involved
- There is no need to have a lifting beam built into the top of the lift shaft by the builder, saving money. Stannah supply this on the structure
- There is no need to hire a structural engineer to test the lifting load of the lifting beam, saving cost
- The structure is assembled within the lift shaft by Stannah
- Can be installed into existing lift wells with minimal builders work
- Simplifies building programme
- No lintels or separate pit access ladder required
- Designed and manufactured by Stannah in the UK

The Stannah FX structure is a standard option for all six and eight person Maxilifts and a special option for some of our other lifts – please contact us for further information.



# FX structure for timber framed buildings

Developed in response to the increasing demand for lifts in timber framed buildings, we adapted our structure to cope with the inherent challenges of wood; where natural vertical movement due to timber shrinkage can cause problems when combined with a conventional brick or blockwork lift shaft.

## Meeting the needs of timber framed buildings

Research and development of the lift structure required analysing the movement within timber framed buildings and modifying the FX structure accordingly. The resulting increase in flexibility ensures the lift structure would not be unduly stressed by any building movement.

On our standard FX structure the landing doors are fixed to the steel structure, whilst on timber framed buildings the landing entrance frames are fixed directly to the inside face of the timber shaft. This method allows the building to move independently of the lift structure, preventing distortion between the building and the lift architrave frame. The structure is supported by contact with the internal walls of the lift shaft. Slipper plates are used to allow the vertical movement of the building to slide past the fixed lift structure. This maintains the lift structure location within the lift shaft, allowing more space at the top of the installed structure frame and prevents the building from settling on the lift structure frame.

From Stannah's experience the concrete pit area and the interior cladding of the timber frame rarely line up, a discrepancy of 30mm being common, so an additional 50mm has been added to the width and depth of the lift shaft to allow for this discrepancy.

Detailed builders work drawings are produced for each client and provide designers and builders with information on how to reduce problems with settlement on site.





## Stannah FX Structure Supported lifts at Bellway Homes

**Bellway Homes, one of the UK's largest housebuilders, have introduced sustainability into its corporate responsibility agenda and have increased the number of timber framed homes it builds. This is demonstrated in their more recent developments. As a result they have required the services of Stannah Lifts Ltd and the FX structure.**

Bellway Homes North East installed Stannah FX structure supported lifts, including the timber framed design, into the recently completed phase of its major regeneration housing project in Gateshead.

Ochre Yards sits on the south bank, high above the River Tyne, where there were previously derelict railway sidings. The development offers tenants great views of the Newcastle city centre and the famous Tyne bridges.

The development comprises 11 blocks of flats providing 608 residential apartments and a commercial centre incorporating a health, fitness & leisure club and an 80 bed hotel. Of these, 7 blocks are timber-framed, 2 traditionally constructed and 2 are refurbished existing buildings.

The Stannah lifts have provided a particular solution to tolerating natural shrinkage within large timber-framed buildings and Bellway are very happy with the outcome.

**"We are delighted with the Stannah FX installations. The lift design is unique in having built-in tolerances to movement in timber-framed buildings. Block 11 on the site is six storeys and provided a considerable challenge. Having found the perfect solution there will be around 25 FX structure supported lifts incorporated into the completed development."**

Darren Hannah  
Ochre Yards Project Manager,  
Bellway Homes North East



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