



CLIENT CASE STUDY
TALO ELEMENTS

premier
guarantee®

TALO ELEMENTS

Using state-of-the-art technology and modern offsite construction techniques, Talo Elements provide bespoke housing solutions that are high quality, low energy and cost efficient.

With overall costs below the market average of a traditionally built house, Talo can produce detached, semi-detached or terrace houses, as well as small apartment building, schools, care homes, and structures such as stables and barns.

PREMIER GUARANTEE WORK WITH TALO ELEMENTS

Alexis Stickley, Research and Development Manager, discusses the approval process Talo Elements went through in order to be approved by Premier Guarantee

In order to approve Talo Elements for warranty we first conducted an in-depth review of the design of their system.

This involved reviewing each component of the system and ensuring that they were being used in accordance with their third party accreditation and, when used as part of the system, would provide the required levels of durability. We also reviewed the system in relation to structural stability, fire safety, thermal and acoustic performance and resistance to moisture ingress.

Once we were satisfied that the system meets all of our technical requirements we conducted an inspection of Talo's factory in Finland to assess the quality control processes in place and the way in which they are implemented within the factory. It is vital that we can be sure that the manufacturer is capable of producing a system which consistently satisfies the design parameters and our technical requirements. Talo Elements have full ISO 9001 accreditation which covers everything from the sourcing of timber from their own forests, through the manufacturing process to storage, site delivery and installation.

Having assessed both the design details of Talo Elements' system and their quality control processes we were happy to issue them with a Premier Guarantee system approval, confirming that the Talo Elements system is acceptable for use on Premier Guarantee sites across the UK.



ABOUT TALO ELEMENTS – PREFABICATED MODELS

Talo Elements boast an impressive ability to deliver their products on time, largely eliminating commonplace delays. Once the factory built elements are delivered on to site, Talo are able to get the house sealed and warm in just a few days.

With a choice of prefabricated models created by in-house Architects, which can be modified to suit client needs, or entirely bespoke builds based on client drawings, Talo offers a wide range of prefabricated housing.

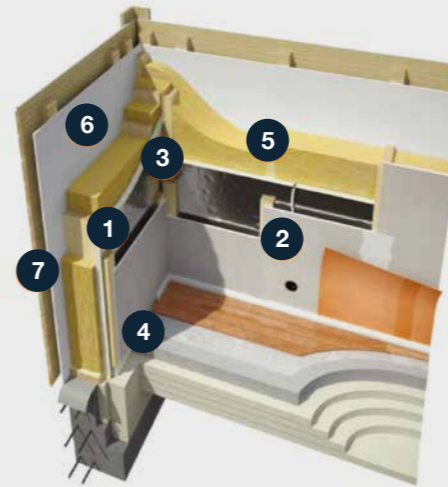
With a choice of cladding, windows, doors and roofing, each Talo Elements development allows for both flexibility and originality without compromising on quality.

With low energy doors, triple glazed windows and double density plasterboard, a Talo build comprises of superior quality, highly energy efficient and, as a consequence, highly cost efficient features.

WALLS

By employing a Kingspan SPU as a vapour and air barrier, Talo Elements' walls have achieved excellent results in air tightness, as well as beating thermal and moisture standards over varying climate conditions.

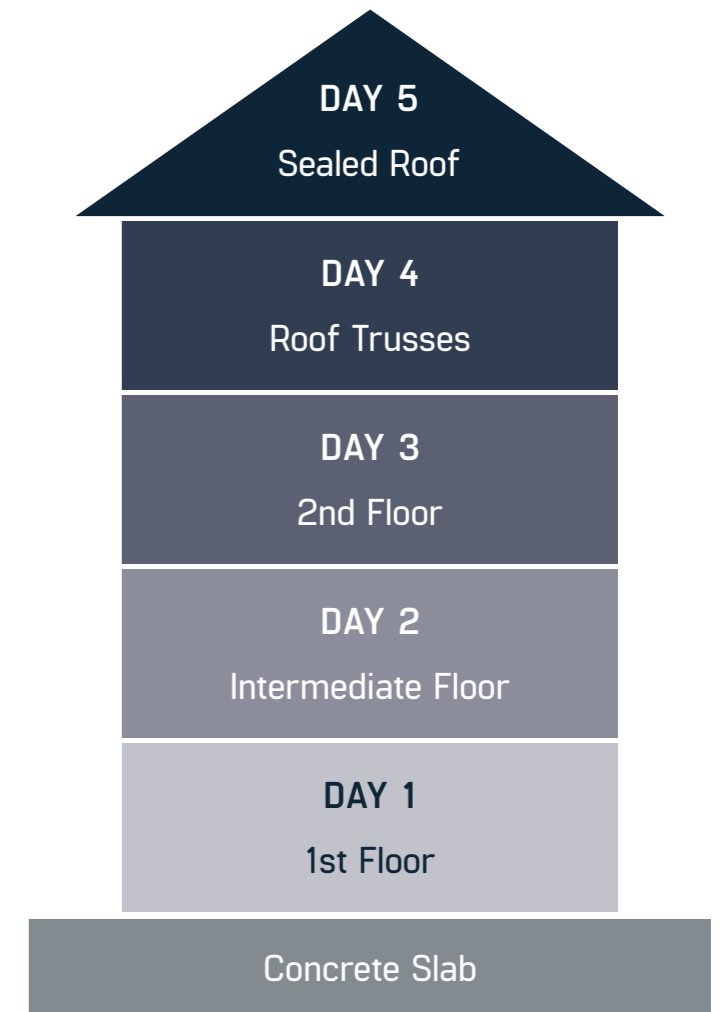
Talo Elements' Wall Structure U-Values - 0.10 – 0.14 W/M2K



1. A Kingspan polyurethane layer of 40-100mm which insulates heat extremely well and is an efficient vapour barrier. It cuts off cold bridges and ensures excellent air tightness.
2. Free space between the inner plasterboard and the vapour barrier board allows electrical installations to be implemented without breaking the vapour barrier.
3. In corners, the seam points are staged and wool, urethane foam and tape finish off a warm and draft free solution.
4. At the base floor joint, the thermo layer is connected to the base floor insulation and plinth insulation. This ensures a draft-free wall-floor joint.
5. Load-bearing frame and thermal insulation.
6. Wind sheathing board, which stiffens the frame, and is highly moisture permeable and effectively prevents wind load.
7. An efficient ventilation gap between the wind protection and exterior cladding creates free air circulation while protecting the structures from excess moisture.

RAPID INSTALLATION

Offsite construction is known for its quick assembly onsite and Talo Elements proves this. From delivery on site, a Talo Elements development will be watertight in 5 days and in some cases can be ready for occupancy in just 5 weeks depending on the complexity of the build. This rapid installation contributes to reduced costs and economy compared to traditional building methods.



For more information about Talo Elements please visit: www.taloelements.co.uk

For more information about Premier Guarantee's approval process: www.premierguarantee.com/our-services/product-approval

“TALO Elements Ltd is impressed with the efficient warranty approval process of Premier Guarantee. We find the company to be solution focused with an advisory approach. We are pleased with our continued post-approval relationship with the Premier team, not only providing us swift and professional guidance but also giving our customers the confidence they need in using our building system.”

Bengt Magnussen, CEO, TALO Elements Ltd

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