



FASTER,  
SMARTER,  
ENERGY EFFICIENT  
HOUSE BUILDING



**SYNERGY**

H O M E

CLOSED PANEL TIMBERFRAME SYSTEMS

A PRODUCT OF THE TIMBER FRAME COMPANY (TTFC LTD)

# SYNERGY HOME MANUFACTURE

We are the only company in Ireland to offer a comprehensive fully Irish designed and built Closed Panel wall system in which Windows, Insulation, Air Tight Membrane, High Density Plasterboard and Electrical Conduits are all factory installed then delivered to site and erected as a complete wall panel ready to plaster.

The process eliminates the requirement for many other sub-contractors and the responsibility is clearly identified with us. This ensures quality and a fast track build which is not possible with any other method of building, which force you to rely on many different trades and weather conditions.

1. Synergy Home panels being fitted with high density insulation to achieve u-values as low as 0.11 W/m<sup>2</sup>K



2. Panels are fitted with an Air Tight Membrane which is critical to achieving an excellent standard of air tightness



3. Electrical Conduit is installed and a High Density Structural Plasterboard is then fitted to the panels ready for finish on site.



4. Windows to your specification are factory installed and securely sealed ensuring air tightness



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5. French doors fitted and sealed into a panel.



6. Front door pre-fitted in factory (full range of options available)



7. Internal view of finished Synergy Home panel ready to fit on site.



8. External view of a finished Synergy Home panel.



# SYNERGY HOME CONSTRUCTION

On completion of the manufacture process, the Synergy Home system is delivered to site, external wall panels are lifted into place, followed by internal walls, the floor panels are then fitted. If the building is two storey, the process is then repeated on the first floor and completed with roof trusses which are finished with felt and battens ready for slating. The whole process takes five days for an average house. Five days of fitting a Synergy Home on site can save you eight to ten weeks of on site work by various subcontractors.



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## SYNERGY HOME ADVANTAGES:

- ✓ Manufactured in a dry quality controlled factory environment
- ✓ Air tight wall system
- ✓ "A" Rated and passive u-value walls available
- ✓ "A" Rated windows and doors factory fitted and sealed. ( full range available)
- ✓ High density fiber board used for additional strength and durability.
- ✓ A saving time of 8-12 weeks over the course of your build.
- ✓ One point of contact, reducing the number of sub contractors required
- ✓ Reduced waste material on site
- ✓ Fully engineered future proofed building system.
- ✓ Enviromentally friendly build with low construction Co2 emissions.





## TESTIMONIALS

"We found the Timber Frame Company to be a very professional & helpful company. In our dealings with The Timber Frame Company, from the first contact with the salesman to the designer, they guided us through from start to finish on all aspects on our build. The attention to detail was excellent as was the quality of the fitting and of course the final product of the Synergy Home system which shows the way forward for the private home builder. The Timber Frame Company's efforts and knowledge of the building industry helped us through what could have been a very stressful time, but instead was a very rewarding experience safe in the knowledge that everything was being handled in a professional manner." **Richard Barry, Co Wexford received his house March 2009**

Once we had our home designed, we had 2 main priorities, to build a highly insulated house and achieve excellent levels of airtightness throughout. After doing extensive research we found that the only option that ticked both boxes was The Timber Frame Company's Synergy house. The system itself made everything so simple on site, and The Timber Frame Company's team, from design through to site foreman & technical back up were always helpful and answered any queries we had. This backup and advice helped us achieve our A Rated house and we would gladly recommend them to anyone hoping to do the same." **Julie Ann Brady, Co Wicklow received her house December 2008**





## Visit our Synergy Home Show House and Factory located in Wexford

You will be able to view the many different products we offer as part of your Synergy Home package.

- ✓ Internal Joinery – Stairs, Doors, Skirting
- ✓ External Windows & Doors
- ✓ Fascia, Soffit & Guttering
- ✓ Heat Recovery Systems
- ✓ Cementation Board finished with a coloured acrylic render of your choice.
- ✓ Internal Plastering or Tape & Jointing
- ✓ Completion of Air Tightness with full Air Tightness Test

We can tailor our system to meet almost any requirement.

The TTFC Synergy Home brings conventional timber frame to the next step to meet customer demands. In this day and age people are thinking 'sustainability and efficiency' which drove us on to develop a building system which can easily achieve an A rating while being environmentally friendly.

Your home is probably the biggest single investment you will ever make. It has to be thoughtfully designed, built with care, expertly finished and now, crucially, it must be energy efficient. A Sustainable home is built to extremely high insulation standards making the building sustainable for its life span. All materials used in the building must be from sustainable resources (ie trees). For every tree cut down 40 are planted and as long as we continue this process of continually regenerating the source, we will be able to build timber frame homes forever.

The nature of our Synergy Home system is the future for the building industry. Its flexibility as a method of construction means it is easier to control characteristics such as the air tightness, insulation and ventilation of the building, all elements which are vital to the energy efficiency of any home. Sustainable sources of energy (wind and solar) can be used to heat and power the home.

Synergy Home is the leader in the market of sustainable manufactured off site housing.



**'SYNERGY – TEAM WORK AT ITS BEST'**



**The Timber Frame Company**  
 Sinnottstown Lane, Drinagh, Wexford  
 Tel: 053 9144200 Fax: 053 9144079  
 Email: info@ttfc.ie Web: www.ttfc.ie

