



5 principles of Passive House

Archiving energy savings up to 90%

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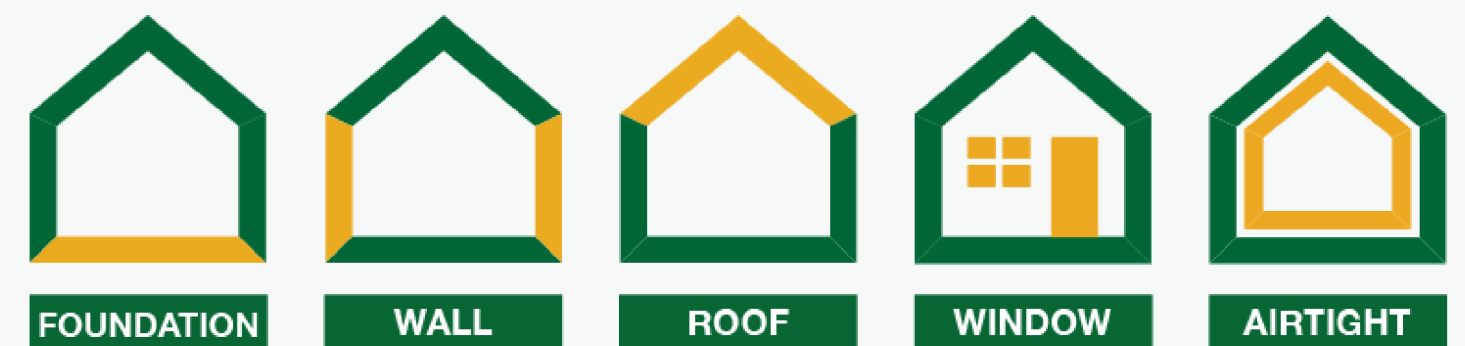
1. Superinsulation

2. Airtight Construction

3. High-performance Windows and Doors

4. Ventilation with Heat Recovery (HRV)

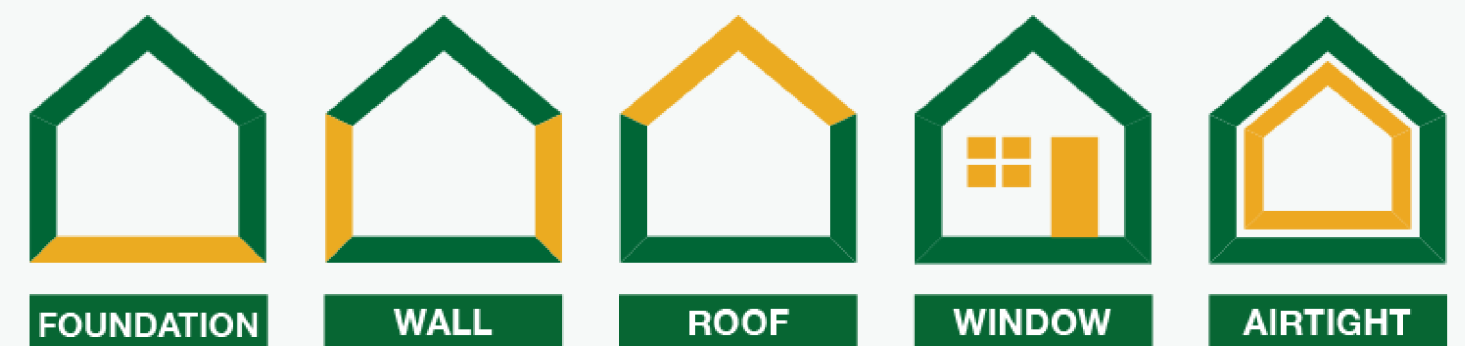
5. Thermal Bridge-Free Design



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1. Superinsulation

Passive Houses use high levels of insulation in walls, roof, and floor to minimize heat loss, reducing the need for traditional heating or cooling systems.

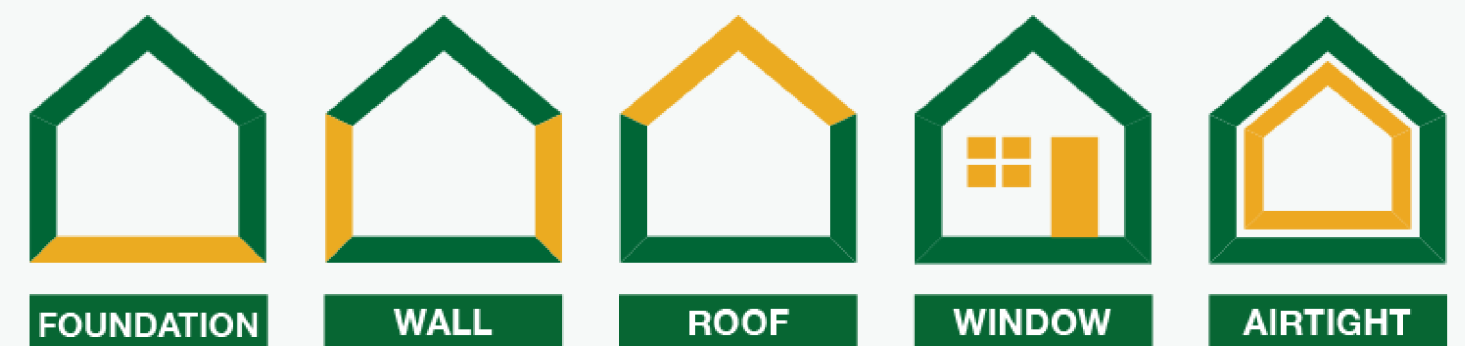


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2. Airtight Construction

Achieving a high level of airtightness is crucial in Passive House design.

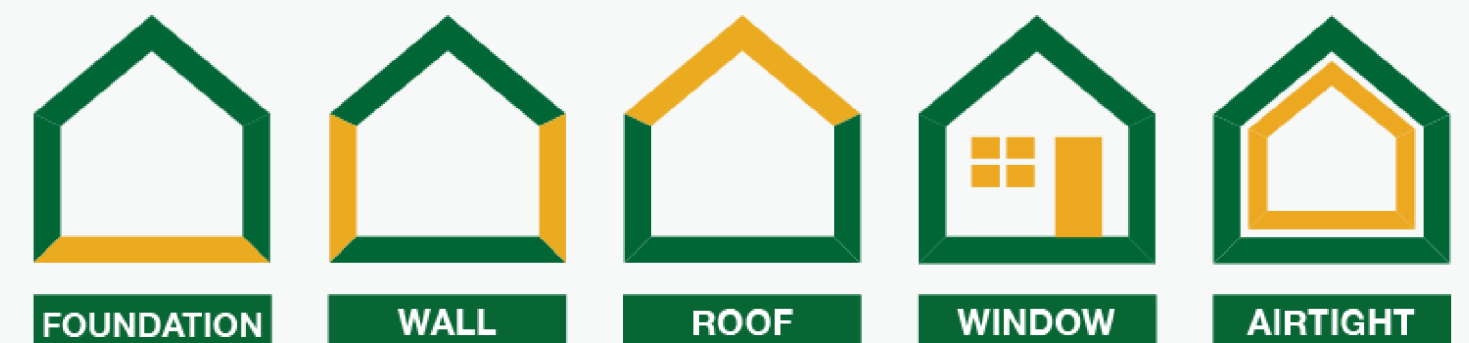
Airtight construction prevents unwanted air leakage, which can lead to heat loss and reduce energy efficiency.



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3. High-performance Windows & Doors

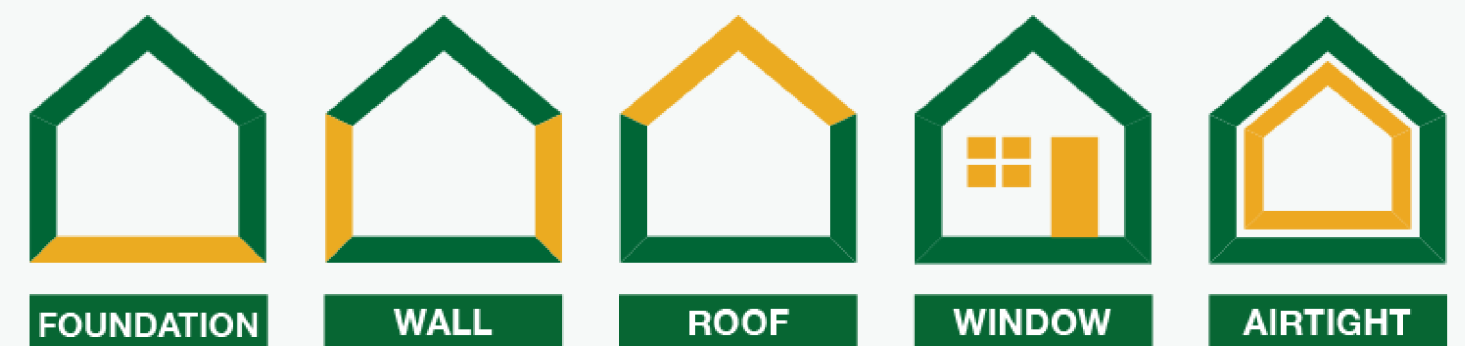
Passive Houses use high-quality, triple-glazed windows and insulated doors with advanced frames to minimize heat transfer.



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4. Ventilation with Heat Recovery (HRV)

Passive Houses employ a mechanical ventilation system (HRV) with heat recovery to ensure a constant supply of fresh air while recovering the heat from the exhaust air.



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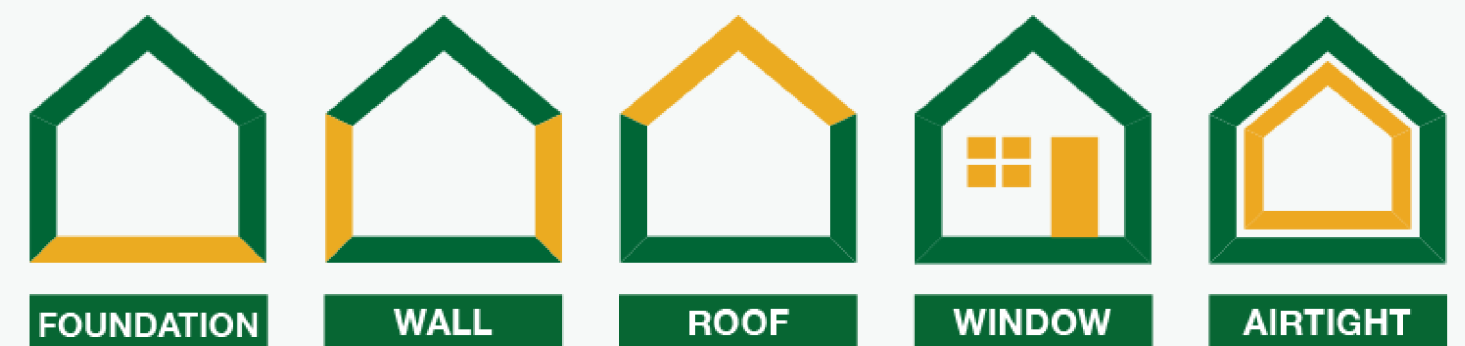
5. Thermal Bridge-Free Design

In Passive House design, efforts are made to eliminate or minimize thermal bridges through careful detailing and insulation, ensuring a consistent and high level of insulation across the entire building envelope.



Building for a Better Future

The Passive House standard is a holistic approach that considers the building as a system, aiming to provide a comfortable and sustainable living or working environment.





**We specialise in designing & building
energy efficient Timber Frame homes
& Passive Houses all over the UK**



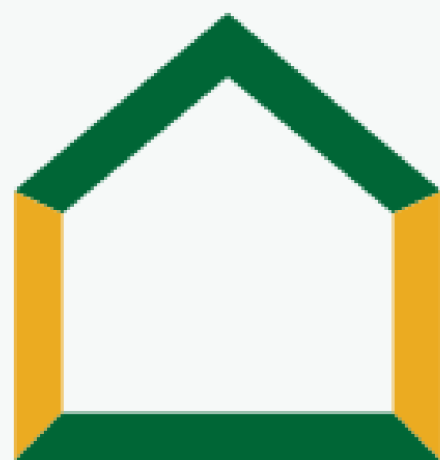


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