

PASSIVHAUS

LIVE BETTER



MAXIMUM
CERTIFICATION



THERMAL AND
ACOUSTIC COMFORT



MAJOR ENERGY
SAVINGS

Everything you need to
know to harness your
home to the maximum

GRUPO

Lobe

• HIGH QUALITY HOMES •

WHAT IS PASSIVHAUS?



WHY IS IT IMPORTANT?

Turning your home into a **Passivhaus property** means that a series of **standards, methods and guidelines on the ideal use of materials** have been followed during the planning, design and construction phases, based on principles geared towards **energy efficiency and sustainability**.

This set of regulations is set forth by the Passivhaus standard and are of mandatory compliance in order to obtain the **Passivhaus Institute's seal of approval**. The **Passivhaus certificate is unique for the entire building** and is granted upon completion of the works, after having verified that all the requirements have been met.

Presently, it is the **most thorough energy grading issued worldwide**.

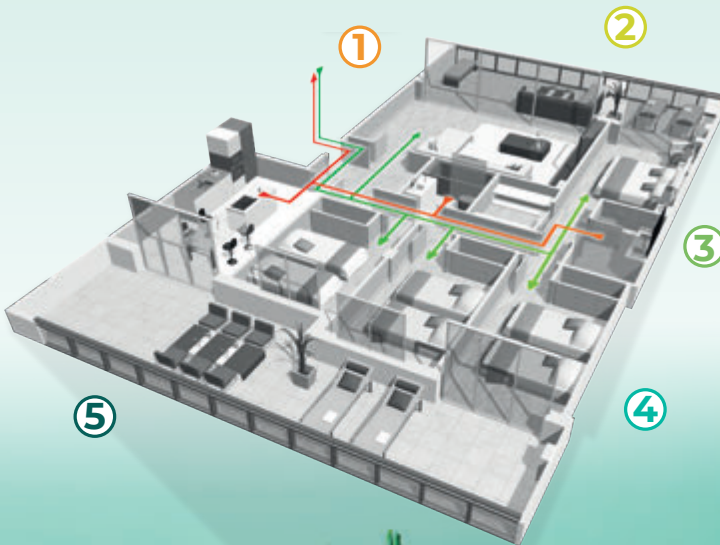
It is important because a **passive home** is a property **primed for the future**, built in a **smart, sustainable manner that is respectful to the environment**.

Devised to take your **thermal comfort to the next level all year round**, while at the same time attaining the **highest levels of energy efficiency**, and, therefore, reduced consumption. You will feel **sizeable savings** in your utility bills month after months.

It is important because now your home is synonymous with **health, comfort, energy efficiency and quality of life**.

WHAT DOES IT ENTAIL?

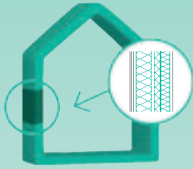
It entails **5 principles** that have been taken on board when building your **Passivhaus home** and that, thanks to the application of all of these, you will now enjoy a house that boasts **guaranteed thermal comfort, reduced energy consumption while offering a healthy and comfortable environment featuring improvements in construction quality**.



A PICTURE IS WORTH MORE THAN A THOUSAND WORDS

Check out this video to learn more!





1 Perfect THERMAL INSULATION

So that your home does not lose heat in winter while you can enjoy a cool ambience in summer, we ensure your home's thermal envelope incorporates large thickness panelling to provide thermal insulation.

This envelope is a barrier that insulates against both cold and heat. It is composed of the walls, floors and ceilings that connect the property outwards, or to adjoining properties or onto shared areas.

Life in a comfort bubble.

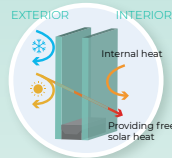


2 HIGH-PERFORMANCE CARPENTRY for your windows and exterior doors

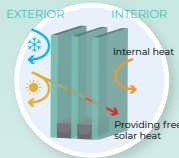
High-performance carpentry is installed that boasts very low thermal transmittance. They are manufactured from PVC with multi-layer glazing and gas filled chambers that reduce temperature transferences.

The glazing keeps space warm in winter and reflects the sun in summer!

DUAL CARPENTRY BREAKDOWN *



TRIPLE CARPENTRY BREAKDOWN *



*Please query the building specifications report for your property.



3 WEATHER-PROOF SEALING

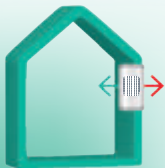
We seal any space in hollows or cracks as to avoid inasmuch as is possible infiltrations of undesired air while **preserving comfort** levels in your home.

We perform at least **two Blower Door Weather-proof Sealing tests** on your property to verify the existence of these infiltrations in each property. The means of certifying a complete building is by calculating the weighted average score of the results obtained throughout the building.



4 MANAGEMENT of THERMAL BRIDGES

All the points in the envelope in which traditional insulation is not commonly fitted in traditional properties, such as façade pillars, are treated and calculated to avoid a loss of comfort in sensitive areas. This provides continuity to the insulation layer while verifying, on a point-by-point basis, the requirements given in the Passivhaus standard are met.



5 VENTILATION EQUIPMENT FEATURING HEAT RECOVERY

The properties boast a mechanical ventilation system that acts to provide constant interior **air renovation** in your home, operating wholly automatically.

In shared areas of the building, ventilation equipment is installed with heat recovery that ensures **maximum energy efficiency, quality** in terms of the filters used and **reduced noise levels**.

Air **enters from the outside** of the machine and is there energy is exchanged with the interior air in the house. Thus, via contact, though without mixing, air enters at a temperature more in keeping with that found indoors and therefore, **requires less extra energy** for both heating and cooling the home.

Indoor air is automatically renewed so that this is always of a high standard, thereby avoiding high concentrations of CO2, odours, house mites, viruses and other impurities. **Clean air without even leaving the house!**

*Please consult the fitting of these installations in each promotion.



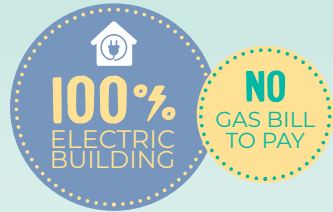
*You will enjoy great levels of indoor comfort, at a constantly guaranteed temperature all year round, furthermore, requiring little effort to maintain it, as the property functions BY ITSELF.**



THE HOUSE PRESERVES THE TEMPERATURE ACTING AS IF IT WERE A THERMOS
**(practically, without heating or refrigeration)*

YOU WILL LIVE BETTER WHILE CONSUMING LESS ELECTRICAL ENERGY

BUILDINGS THAT DO NOT RELY ON FOSSIL FUELS.



DEMAND THE PASSIVHAUS CERTIFICATE, IT IS YOUR GUARANTEE OF QUALITY

It means that your home has exceeded the analyses and measurements established by independent bodies.

At **Lobe Group**, we are in tune with the European **decarbonisation** strategy. By contracting electrical energy from renewable sources, these buildings boast **zero CO2 emissions during the usage phase.**

grupolobe.com
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Consulta la memoria de calidades y las instalaciones de tu promoción según la zona climática de España.



IMPORTANT NOTE: This brochure is an informative sales document and as such reflects guidance without providing technical information on the general characteristics of how a Passivhaus property would basically be managed. Notwithstanding greater specificity in the contract of sale and the building specifications report, the elements listed herein may be liable to alteration, replacement or modification, provided that this responds to legal, administrative, technical, functional or design grounds, or as applicable mayor, issues with the supply chain, did not entail a detriment to the quality and features of the property forming the basis of the sale; nor would the above involve a greater price payable by the buyer. Likewise, the information and images contained in this publication may be modified whenever duly justified. Some of the property's installation may be automated in the event that the development contains any of the packs listed as 'SmartHomes'. Please refer to the building specifications report for each development. All the information relating to RD515/1989 can be queried in our offices.