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ONCE YOU HAVE  
EXPERIENCED THE  
AMBIENCE OF  
GLO UNDERFLOOR HEATING,  
NOTHING ELSE WILL DO.

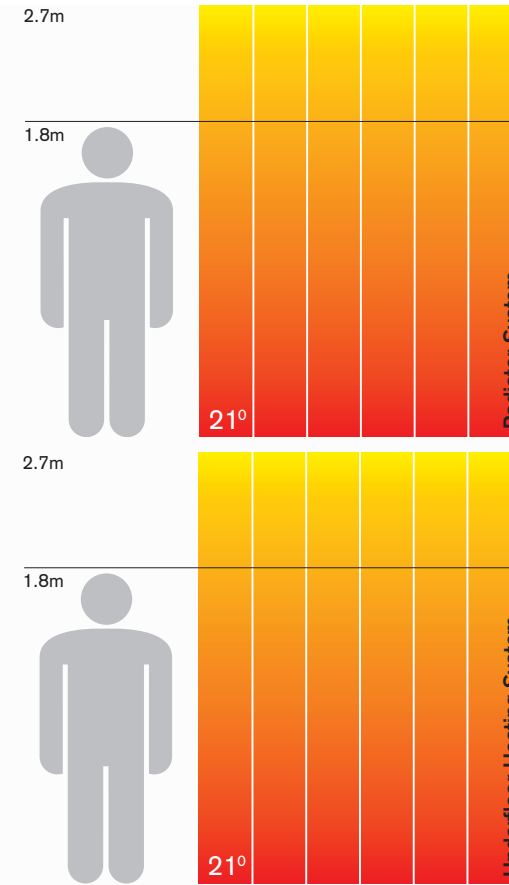
GLO



**WE CAREFULLY DESIGN EACH INDIVIDUAL INSTALLATION TO OPTIMISE PERFORMANCE.**

Bassetts has a vast experience of underfloor heating technology in residential, commercial and industrial applications, guaranteeing peace of mind that your GLO system will be a sound investment.

## GOOD UNDERFLOOR HEATING EXPLAINED



Hot air rises in your room. The hotter the air, the quicker it rises.

Radiators heat small amounts of air to a high temperature, which rises quickly and displaces the colder air above. This air then falls to the floor setting up a circulation of colder air around your room.

Good underfloor heating heats the whole floor across its entire surface and the air directly above it to just above the temperature you want which gives you comfort, economy and ease of control.

However, if an underfloor heating system is badly designed, the unique benefits can be lost.

# SO WHAT ARE THE BIG BENEFITS OF GLO UNDERFLOOR HEATING?

## Comfort

Research has shown that people feel more comfortable when they experience warm feet and a cool head. Glo underfloor heating produces these conditions naturally. There are no localised hot spots, just a gentle even warmth throughout the building. Glo floor heating systems are designed for the optimum comfort and economy, and have the effect of reducing draughts normally associated with conventional heating systems.

Glo as a minimum provides individual temperature control in every room, but also offers a range of weather compensation control systems to suit most buildings.

## Health & Safety

We have become increasingly aware of safety in our homes and buildings. Since floor heating is installed under the floor surface there are no hard edges or high temperatures to bump into or fall against. These features have resulted in floor heating being the system of choice in nursery schools and homes for the elderly, where "low surface temperatures" on heating appliances are a legal requirement.

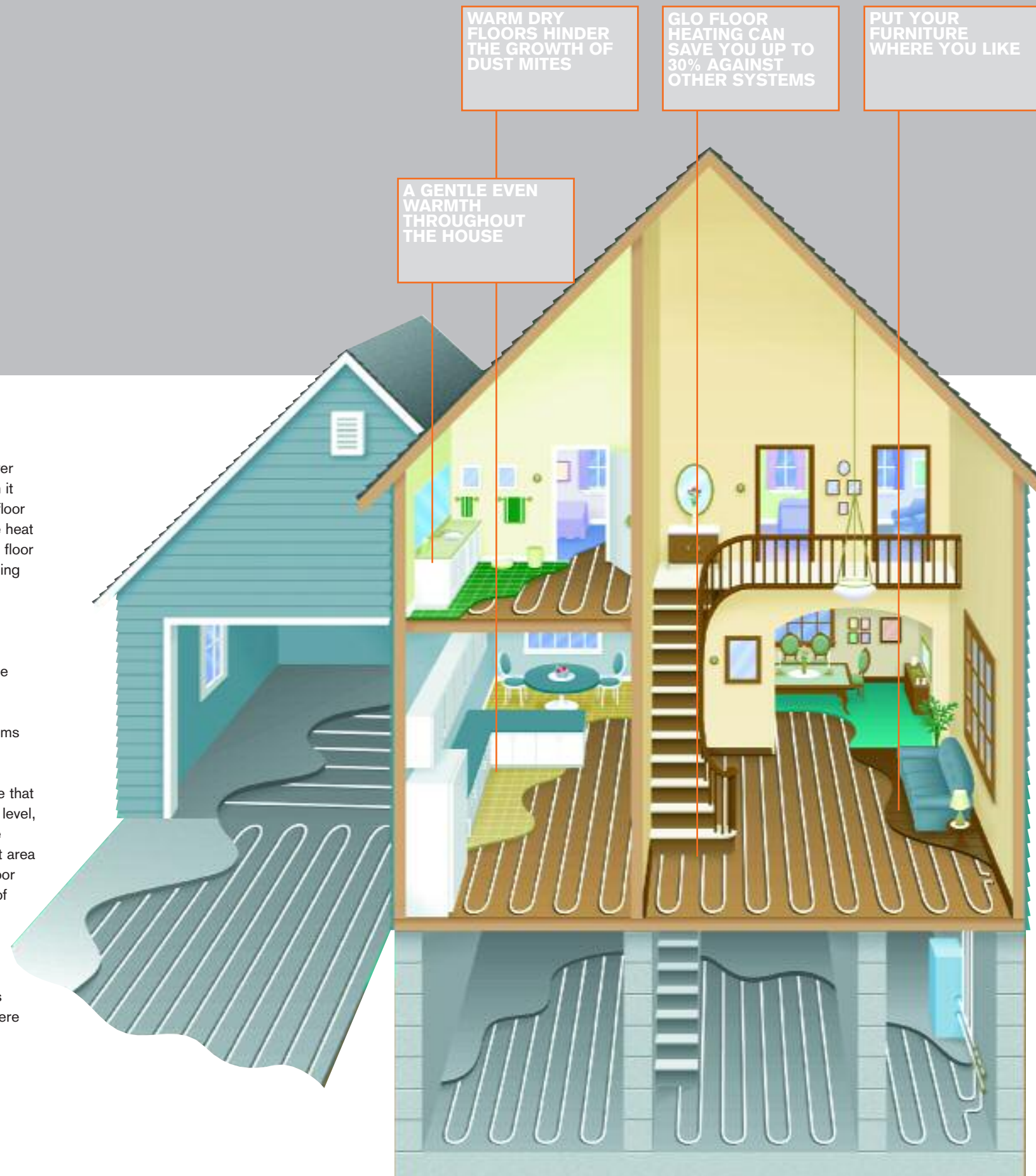
Again with safety in mind, the Glo floor heating uses low voltage controls eliminating risk of electrical injury at room thermostats and manifolds.

Underfloor heating provides not only warm but dry floors which provide an environment which hinders the growth of dust mites, which are generally recognised as being a major factor in asthma and other allergies.

## Economy

Floor heating has some fundamental advantages over conventional systems when it comes to economy. Since floor heating is primarily a gentle heat warming the room from the floor up, it creates the same feeling of comfort as other heating systems at a lower air temperature. The air temperature in a room can be reduced by 1-2°C for the same degree of comfort.

Conventional radiator systems distribute their heat by convection currents. These currents or draughts ensure that the coldest air is at ground level, and have the effect that the occupants sit in the coldest area of the room. Since underfloor heating uses the principle of radiation to transmit heat, it does not create convection currents, and the warmest part of the room is right where it is required "near the floor where the occupants sit."

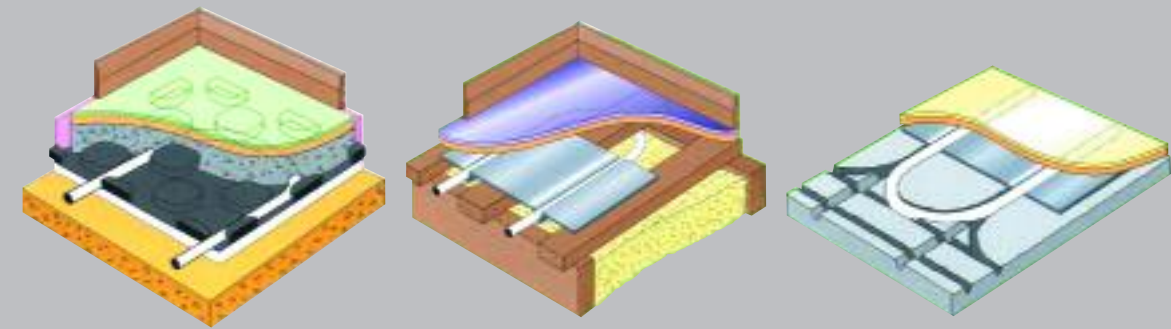


## Interior Design Freedom

As a nation we are becoming increasingly design conscious, particularly in our homes. Underfloor heating is virtually perfection, when it comes to interior design flexibility. Furniture locations are not constrained by the positioning of radiators and there is never a conflict between furnishing style and the radiator design. With underfloor heating you have the ultimate flexibility: decorate your home and place your furniture as you wish. Apart from the small room thermostat in each room, underfloor heating is out of sight.

The warm GLO of floor heating tends to soften what would have been cold and unfriendly surfaces such as stone and ceramics into luxurious and comfortable floors.

## SO WHAT TYPE OF FLOOR DO I NEED?



### Solid Floors

Solid floors are probably most commonly used with floor heating. The floor heating pipe is secured to a steel mesh grid or plastic rail system, which is fitted above the floor insulation. The finished floor screed is laid over the pipe in a conventional manner. This type of construction leaves the floor heating pipe in intimate contact with the floor screed, providing a good conduction path for the heat away from the pipe to the surface of the floor. Depending on the floor surface  $140\text{W/m}^2$  can be achieved with solid floors.

### Suspended Floors

In a timber suspended floor the use of floor heating is sometimes thought to be unsuitable. This is not the case. Floor heating is eminently suitable for use in timber suspended floors. The low mass of the suspended floor system means that reaction times are very good. The only real downside for a suspended floor and floor heating is the additional cost of the heat emission plates. The preferred floor construction is to fill the space between the joists with fibreglass insulation and then to fit Glo heat emission plates on top of the existing floor joists. These plates have a groove, which allows the pipe to be clipped into the plates. The timber flooring can then be fitted onto the plates/joists as normal. The heat from the floor heating pipe is conducted along the heat emission plate to the underside of the floor giving very effective heat transfer. The maximum heat output with a timber floor is approximately  $75\text{W/m}^2$ .

### Floating Floors

Floating floors are increasing in popularity since they reduce the overall loading on the building as well as the sound transmission. Favoured by developers, they allow a faster build time than a solid floor, while exhibiting many of a solid floor's desirable characteristics. In this case a grooved insulation board is placed on top of the existing floor, on which an aluminium heat emission plate is placed. The floor can then be laid onto the heat emission plate. The maximum heat output is approximately  $75\text{W/m}^2$  for floating floors.



UNDERFLOOR HEATING IS AN IMPORTANT INVESTMENT; MAKE IT WITH PEOPLE WHOSE TRACK RECORD YOU CAN TRUST.

# GLO USES A COMBINATION OF DETAILED TECHNICAL DESIGN BY EXPERTS AND THE HIGHEST QUALITY OF COMPONENT



Good design is the key in optimising performance against investment.

Like all types of heating systems, underfloor systems vary in quality and some are designed down to a price, where the system is compromised to the point that the benefits are negated. If an underfloor heating system is badly designed, the unique benefits can be lost.

Systems at so called bargain prices sacrifice the correct ratio and configuration of pipe and circuits that would be required for particular room dimensions and characteristics and your investment can be compromised.

## Insisting on the best

We at GLO, insist on only properly designed systems.

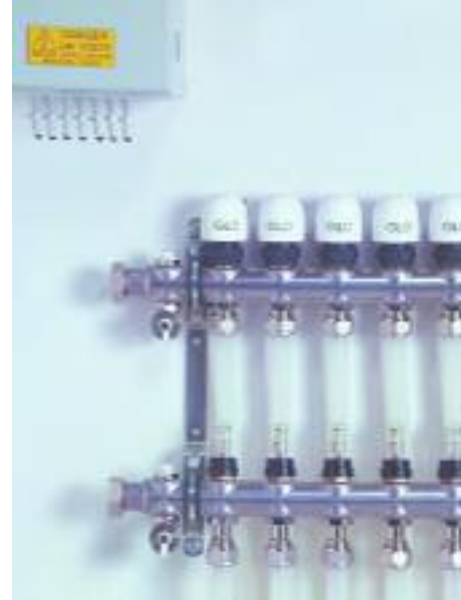
This is where GLO is competitive. Value for money and return on investment through optimised performance with long-term economies.

If your room characteristics are suitable for underfloor heating we will carefully design a system tailored to your requirements.

GLO is not interested in compromising on installation quality but will insist upon ensuring that your system be a good investment.

If an underfloor heating solution is wrong for your individual room characteristics, we will not sell you a system.

We will refuse!



## What does this mean to you?

We will use only the optimum quality PeX pipe, manufactured to DIN EN 4726 with an EVOH oxygen diffusion barrier to DIN EN 12318, and carrying a 25 year Guarantee.

We will use our premium performance stainless steel manifold, which is a one - piece, precision-engineered component, which ensures integrity of performance and cost effective installation.

Every circuit for every room is electronically controlled in GLO's system.

Every circuit has an individual flow meter allowing the system to be hydraulically balanced so - extra control - optimised performance.

If the particular floor area / characteristics of your room or rooms require more than one circuit to optimise performance, we will insist on installing it.

## Setting the standard

It is important to us at GLO that we can stand over **EVERY** installation. A high proportion of our sales come from referrals from satisfied end users of our systems.

We strive to ensure that each system we sell is a compelling example of why underfloor heating is the best choice for comfort, economy and performance.

To install a system which will not function to the purchaser's genuine advantage is short sighted.

GLO want each customer to recommend us to others and we can readily supply details of people who have bought systems from us and can vouch for the effectiveness and value of our purpose designed solutions.

# GLO IS THE BENCHMARK IN UNDERFLOOR HEATING FOR ALL COMMERCIAL INSTALLATIONS

Glo floor heating systems have been successfully installed in commercial applications throughout Ireland.

## Car Showrooms

The gentle quiet warmth and lack of visible heat emitters and air movement makes floor heating a very successful solution for car showrooms.

## Schools

The lack of sharp edged radiators and characteristic low surface temperature provided by floor heating make floor heating an ideal choice in schools.

## Churches

The radiant heat of floor heating is a very suitable means of providing heat to Churches and high commercial buildings where stratification is a problem with other types of heating system.

## Offices

The unfettered use of space provided by floor heating systems is becoming increasingly popular in office heating systems.

## Nursing and Residential Homes

The constant occupancy and requirement for a safe and steady temperature in this type of caring environment makes floor heating the ideal system for these buildings.

## Factories

Large factory areas where doors can be opening and closing regularly can be very difficult to heat. Floor heating can provide a great alternative to conventional air heating systems in this type of environment. Heat radiating gently from the floor can provide an economical and comfortable working environment in large workshop and factory premises.

