



Installation Instructions Pergo quickheat 55

PERGO®

Content

1 Introduction

1.1 Symbols explanation	4
1.2 General information	5

2 Installation of Pergo quickheat

2.1 Preparing the subfloor	6
2.2 Calculating the required electric power	6
2.3 Connecting the Pergo quickheat mats	8
2.4 Cutting the heating mat to size	9
2.5 Mounting the Pergo Wireless Kit	10
2.6 Filling up the remaining space	11
2.7 Finalising the installation	11
2.8 Warning label	12

3 Technical details

3.1 Technical details - Pergo quickheat mats	13
3.2 Technical details - Pergo Wireless Kit + Accessories	14
3.3 Layout paper	15

4 Safety precautions

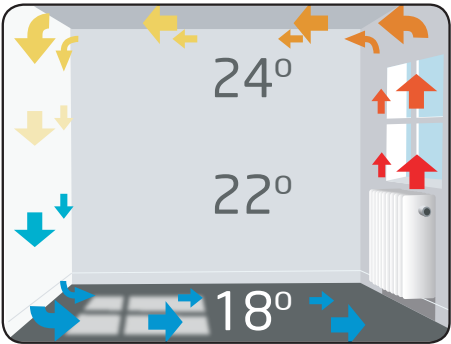
5 Simplified EU declaration of conformity

6 Guarantee

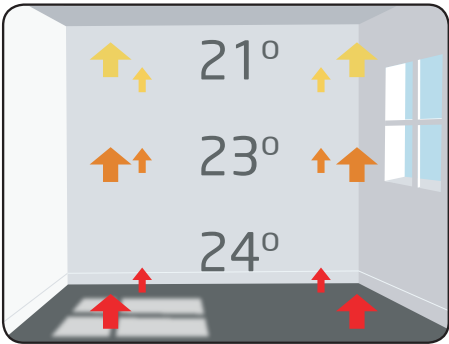
Congratulations with your new underfloor heating system!

Pergo quickheat brings you optimum comfort with the luxury and comfort of a warm floor as well as a pleasant room temperature.

Floor heating is the most comfortable type of heating because it is based on the fact that heat travels upwards which ensures a pleasant temperature at both your feet, body and head.










Heat distribution with convector



Heat distribution with floor heating

1.1 Symbols explanation

	This side up
	The Pergo quickheat mat may be cut here to fit the actual area, as there are no electrical parts in this area
	The Pergo quickheat mat can't be cut here as there are electrical parts in this area
	For indoor use only
	Read the instruction manual before installation
	Double insulated
	Pergo declares that Pergo quickheat is tested according to the standard for removable floors: EN/IEC 60335-1 and EN/IEC 60335-2-96

1.2 General information

The Pergo quickheat underfloor heating system consists of a foam/carpet heating mat with heating cables inside.

The system must always be controlled with the Pergo Wireless Kit.

The Pergo quickheat floor heating system has been developed specifically for dry application areas requiring underfloor heating

It is applicable on top of wooden and concrete floor constructions with the output of 55 W/m^2 .

The Pergo quickheat underfloor heating system is for indoor applications in dry rooms only.

The Pergo quickheat floor heating system can be used under wooden floors, parquet and laminate (and thin carpets).

Please check the specifications with your supplier of these products.

The insulation value of the floor covering must not exceed $0,18 \text{ m}^2 \text{ K/W}$.

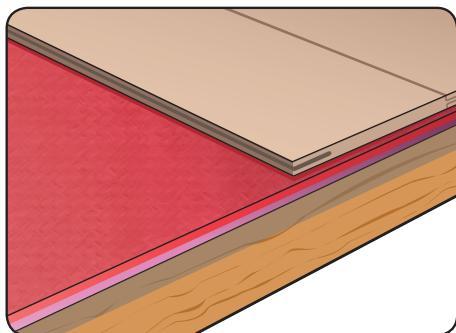
If the system is installed under carpets we recommend to full tape the mats together with duct tape (not supplied in the kit). The mats must not be fixed to the floor.

As with any other underfloor heating system, it will be most effective if the underfloor is well insulated.

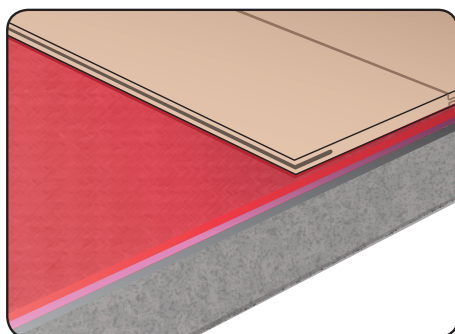
The following directions will guide you step-by-step through the installation process.

Please read the directions and the safety precautions before you start the installation process.

Your Pergo quickheat floor heating system complies with the standard for removable floors EN/IEC 60335-1 and EN/IEC 60335-2-96.



Pergo quickheat on wooden floor construction



Pergo quickheat on concrete floor construction

2.1 Preparing the subfloor

Before you start installing the product, please ensure that the floor is:

- Permanently inflexible
- Dry
- Flat and regular
- Dust- and fat-free
- Free from any sharp objects

Use a powerful vacuum cleaner to remove all dust from the floor.



Remember to install a 0,20 mm vapour barrier on the subfloor before rolling out the heating mats.

2.2 Calculating the required electric power

Always connect the Pergo quickheat Controller between the power source and the Pergo quickheat mat in accordance with national installation standards and wiring rules.

Every fuse in the mains supply distribution board has its protective value imprinted in Ampere (e.g. 10, 13 or 16 A).

Multiply this number by the mains voltage (e.g. 230 Volt) to find the available output.

Example: Ampere (I) multiplied by Volt (U) equals Power (P):

$$I \times U = P$$

$$13 \text{ Amp} \times 230 \text{ V} = 2990 \text{ Watt}$$

When calculating the output available for the Pergo quickheat system, you should take all your electrical appliances on this fuse into consideration.

If you are in doubt about which fuse covers the particular floor area, you can simply turn it off one by one and see what appliances are not working.

You can typically find the power of your electric appliances imprinted as W on the back of the product.

The 'power' of your fuses minus the total power of your appliances equals the remaining power that is available for your Pergo quickheat floor heating system.

Calculate the available power for your Pergo quickheat floor heating system using the following table:

Calculation Example

Fuse in the distribution board (e.g. 16 A x 230 V)	3.680W
EXISTING APPLIANCES IN THE ROOM:	
TV and DVD player	80W
Hi-fi set (radio/CD-player/amplifier)	60W
Total lighting	180W
Aquarium	60W
Subtotals	380W
Total available power for Pergo quickheat	3.300W

Your Calculation

Insert your fuse size from the distribution board (__ A x 230 V)	W
EXISTING APPLIANCES IN THE ROOM:	
TV and DVD	W
Hi-fi set (radio/CD-player/amplifier)	W
Total lighting	W
Other appliances	W
Other appliances	W
Other appliances	W
Subtotal	W
Total available power for Pergo quickheat	W

In the event that you are running short of power (total W) on one fuse, you will need to split the floor heating mats up into two (or more) zones.

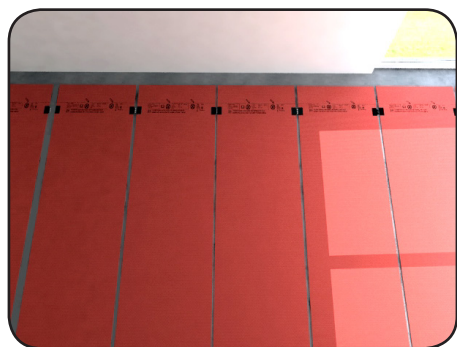
Connect the second zone to a second Pergo Wireless Kit and to a second available supply fuse.

The Pergo quickheat Controller resists up to max. 10 A at 230V~ (equivalent to 2300 W) meaning that you can connect up to 42m² heated floor to each Pergo Wireless Kit.

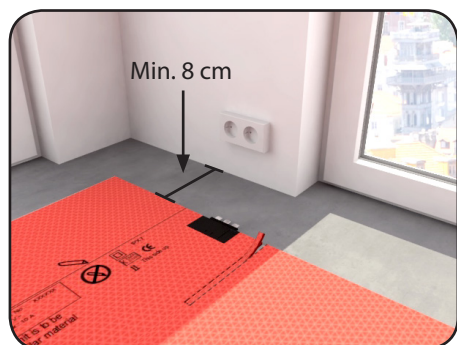
In the event that you need to cover a room with a heated area exceeding 42 m², you must split the floor heating system into two (or more) zones.

2.3 Connecting the Pergo quickheat mats

Unroll and align the Pergo quickheat mats where you intend to place them with the printed side upwards.

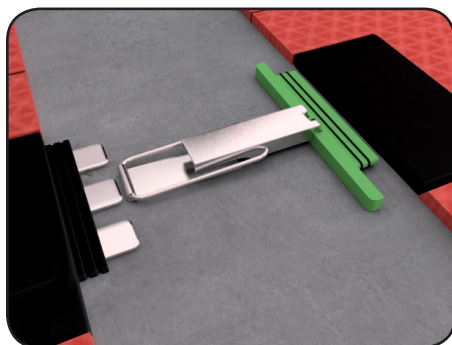


The mat, which is to be connected to the Pergo quickheat Controller is to be placed min. 8 cm from the wall in order to ensure room for the power cable.



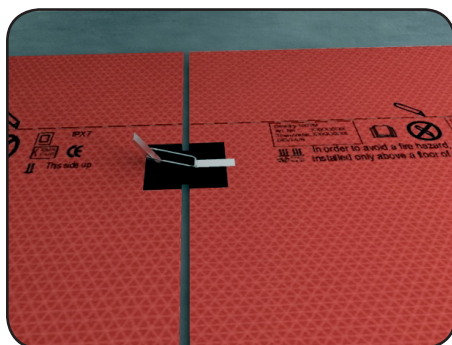
All mats have an end stop to protect the connection against pressure, moisture and for electrical protection.

Remove the end stops with the special tool, just before making the connection with the next heating mat.



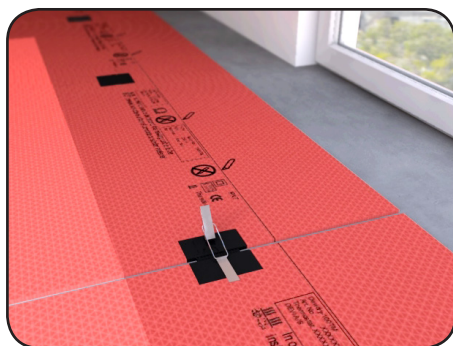
Remember to leave the end stop in the *last* mat.

Put the male and female connector together by hand before using the connector tool to pull the mats tight together.



Check that the plug-in connection fits correctly and permanently.

Continue with the subsequent mats in the same manner.



Make sure that all connections fit straight and without any mechanical stress.

Discontinue the floor heating installation process in the event of damage to one or more components.

Incorrect installation may cause problems and/or defects to the floor heating mats. Make sure that the end stop in the last mat is in place before the floor covering is laid.

Keep the end stops in case you intend to remove/reposition your floor heating system later.

Pergo quickheat extension cords

A Pergo quickheat extension cord is available as an accessory. Use the cord only in the event that you are unable to make a direct connection between two adjacent floor heating elements.

The extension cords must only be placed in the *filler material* and not on top of the *heating element*.

2.4 Cutting the heating mat to size

Each end of the Pergo quickheat heating mats consist of 25 cm without electrical parts inside.

The Pergo quickheat heating mat must only be cut at the ends where there are no electrical parts inside as marked on the product below.

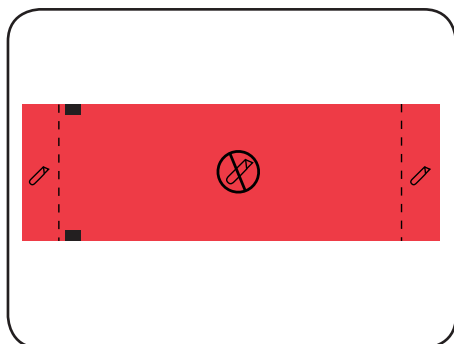
Markings and symbols have been printed on the Pergo quickheat heating mats:



Indicates where it is allowed to cut



Do not cut here. Electrical parts inside. If cut, the mat will be destroyed.



To cut the mat to size:

Carefully measure the piece you wish to cut off and simply cut with your knife.

2.5 Mounting the Pergo Wireless Kit

Mount the Pergo quickheat Controller

The Pergo quickheat Controller should be mounted on the wall 10 - 30 cm above the floor (screws and plugs included).

Install the floor sensor

If possible, the sensor should be placed in pre-cut slit of the heating mat: Remove the upper layer of the slit and place the sensor in the slit.



The sensor must be placed in a position where at least 30 cm of the sensor is placed on the heated mat.



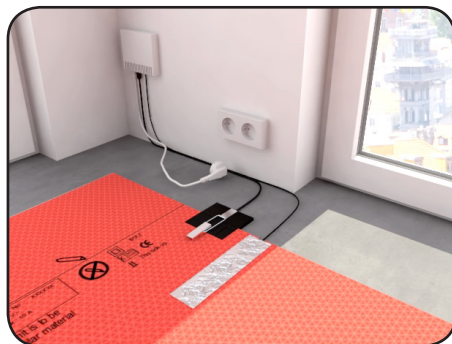
If it is not possible to place the sensor in the slit, place the sensor on top of the heating mat.

Make sure to place the end of the sensor right between two heating cables.

Fix the sensor to the heating mat with the enclosed aluminium tape.

Connect the output cord

The output cord from the controller should now be connected to the first mat using the connection tool.

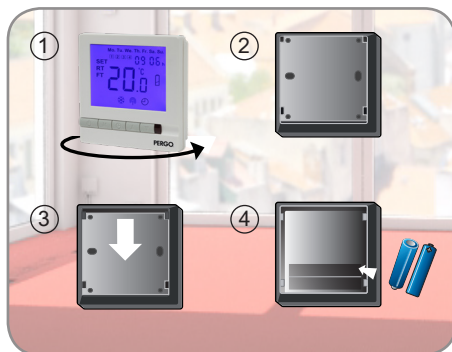


Make sure not to squeeze or bend the output cord to much. *Minimum bending diameter is 5 cm.*

Mount the Pergo quickheat Thermostat

For easy access, the Pergo quickheat thermostat should be mounted 130-160 cm above the floor.

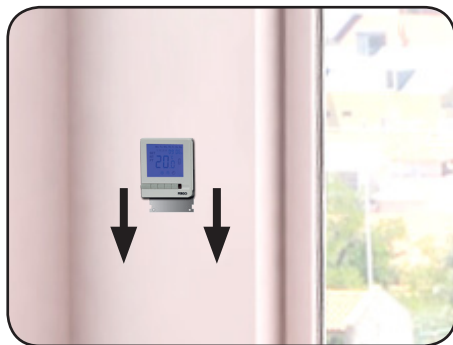
Start with removing the backplate on the thermostat and insert the batteries (included)



When done fix the back plate to the wall using the enclosed screws and plugs.



Attach the thermostat to the back plate by dragging the thermostat over the tabs.

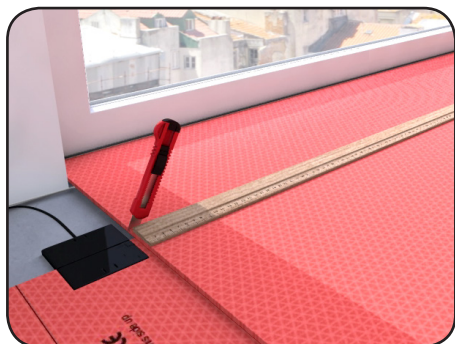


2.6 Filling up the remaining space

At this point all connections between the mats should be aligned and connected and as much of the floor as possible should be covered with Pergo quickheat mats.

The space without Pergo quickheat heating mats should be covered with the Pergo quickheat Fillermat to ensure an even and homogenous floor surface.

A ruler and a wooden plate is easily used when cutting the Pergo quickheat Fillermat.



Fit the output cord

Cut a piece of material from the filler material to embed the output cord between the Pergo quickheat Controller and the Pergo quickheat mat.



Once you have correctly positioned all floor heating mats and you have cut the filler material to size, you can proceed with the installation.

2.7 Finalising the installation

Check that all work has been carried out in accordance with this installation guide before testing the Pergo quickheat floor heating system.

Testing may commence when everything has been correctly connected.



Read the Quickguide for the thermostat before you proceed.

Connect the power, turn on the thermostat

and set the temperature at maximum temperatures (30°C). After a short while (5-10 minutes) you can feel the Pergo quickheat floor heating mats are warming up.

Please ensure that all connected mats are heating up before you proceed.

If the floor heating mats are not warming up to the temperature set point, connections should be checked once again. Remember to first unplug the Pergo quickheat system from the mains, before inspecting the system.

Finalising the flooring

The final floor covering (laminated, carpet or loose parquet) can be laid when the system has been tested.

Please refer to the installation guidelines of the flooring producer and ensure that the top flooring is suitable for floor heating.

2.8 Warning label

The warning label that is included in the Pergo Wireless Kit must be filled out and installed in the distribution board.

For future reference it is important to fill in, which room and how many Pergo

quickheat mats that have been installed, by whom and the installation date. Furthermore, the room should be drawn in the manual (see page 15) so it is easy to see how the mats have been positioned within the room.

Warning

Heating element type Perqo quickheat 55 installed in:

Room:

By: _____ Date: _____

It is not allowed to drill or to insert nails or screws in the floor. This could short circuit the element or cause damage to the electrical insulation on the heating element. The floor must not be covered with covering which will restrict the heat transfer more than 0,18 m²K/W. Please refer to the installation instruction for the drawing of the layout of the heating element.


Supply voltage: 230 VAC

PERGO®



Output Power				ENG
Number of mats		Mat type and output		Output pr type
	x	2m ² at 77 watt	=	watt
	x	3m ² at 132 watt	=	watt
	x	4m ² at 187 watt	=	watt
	x	5m ² at 242 watt		
Total output power				watt




3.1 Technical details - Pergo quickheat mats

Technical details of Pergo quickheat mats:				
Height		8 mm		
Mains voltage		230V (50 Hz)		
Max. load per Pergo quickheat system		10A		
IP rating for Pergo quickheat mat		IP x7		
Output		55 W/m ²		
Sound reduction value		17 dB		
Insulation value μ		8 W/m ² K		
Heating mats:				
Width x length:	Covering area	Heated area	Total output	Amp
1 m x 2 m	2 m ²	1,4 m ²	77 watt	0,33A
1 m x 3 m	3 m ²	2,4 m ²	132 watt	0,57A
1 m x 4 m	4 m ²	3,4 m ²	187 watt	0,81A
1 m x 5 m	5 m ²	4,4 m ²	242 watt	1,05A
Fillermat:				
0,25 m x 1 m	0,25 m ²	-	-	-

3.2 Technical details - Pergo Wireless Kit + Accessories

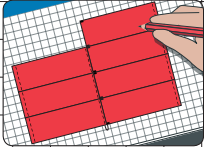
Technical details of Pergo quickheat Wireless Kit: Content in kit: Controller Thermostat Aluminum tape for sensor fixing Connection tool	Controller: 	Thermostat: 
Set point range	n/a	5°C- 30°C
Temp. indication accuracy	n/a	±1°C
Hysteresis	2° C	n/a
Temperature display and setting unit	n/a	1° C /Step
Operating temperature	0° C to 45° C	0° C to 45° C
Storage temperature	-20° C to + 60° C	-20° C to + 60° C
IP rating	IP 30	IP 30
Transmission frequency	Wireless 868.199 - 869.999 MHz	Wireless 868.199 - 869.999 MHz
Maximum radio-frequency power transmitted	7 dBm/5 mW	7 dBm/5 mW
Transmission range	Up to 30 m	Up to 30 m
Voltage supply	230V~	3V --- (2 x AA battery)
Max. Amps	10 Amps	No switching
Max. output	2300 W	n/a
Humidity	5% - 95% RH (non-condensing)	5% - 95% RH (non-condensing)
Control pollution situation	Pollution degree 2 (Domestic)	Pollution degree 2 (Domestic)
Ball hardness	75° C	75° C
Rated impulse voltage	2.5 kV	n/a
Software class	A	A

Pergo quickheat extension cord: The extension cords are used to connect mats where the female and male connectors between 2 mats due to lay out reasons are separated.	
Name:	Length:
Pergo quickheat extension cord 0,25m	0,25m
Pergo quickheat extension cord 1,0m	1,0m
Pergo quickheat extension cord 2,0m	2,0m

3.3 Layout paper

Please draw the room on the page below and position the heating mats that you are installing (for future reference)

These products are installed in Room _____



4 Safety precautions

- Use the floor heating mat for the purposes described in the directions only.
- Pergo quickheat must always be installed with the Pergo Wireless Kit.
- Mount and connect the Pergo Wireless Kit (controller + thermostat) to the mains following the installation instructions.
- The Pergo quickheat underfloor heating system is to be supplied through a residual current device having a rated residual operating current not exceeding 30 mA.
- The Pergo quickheat mats are not to be installed on irregular surfaces.
- Do not fold or sharply bend the floor heating mats.
- Pergo quickheat heating mat must be separated from other heat sources.
- The Pergo quickheat heating mat must not be installed at ambient temperatures below 5°C.
- The Pergo quickheat floor heating system is only for indoor use.
- Do not install or use the floor heating system after one or more components have been damaged.
- Do not allow home repairs under any circumstances. Repairs must be carried out by qualified electricians. Faulty repairs may cause personal injury or damage to property.
- Do not use the floor heating in combination with parts that are not recommended, installed or supplied by Pergo.

- Use original parts of the Pergo quickheat floor heating system only. The warranty for the entire system and for the separate parts becomes null and void if parts from other manufacturers have been used.

- Make sure that no hot spots develop when using the floor heating system. Do not install the floor heating mat under permanent or built-in cupboards (full floor covering furniture).



- Do not use the Pergo quickheat floor heating system if the system is wet.
- Warning label must be filled out and placed next to the distribution switchboard.
- In case of need for extension of cords the Pergo quickheat floor heating system is only to be used with the Pergo quickheat extension cords. Never cut the extension cords or the output cords.
- Do not buckle the supply cord and the extension cords; do not have them run across hot and/or sharp objects.
- Unroll the cords entirely to prevent the cords from overheating.
- Remove the plug from the wall socket outlet if work is carried out at or near the floor heating system when fluids or sharp objects are being used.
- Do not pull the cord or the floor heating to undo a plug-in connection. Always hold the plug and take the unit apart with the connection tool.

- If the extension or output cord is damaged, it must be replaced by the manufacturer, its service agent or similar persons in order to avoid a hazard.

- Connect the floor heating to alternating current 230V and 50 Hz only.

- Do not allow needles, sharp objects, liquids and/or other electricity-conducting objects/fluids to make contact with the floor heating.

- The printed side of the heating mat must be visible when rolling out the mat showing the symbol:



THIS SIDE UP

- Save this manual together with the warranty papers for further use.

5 Simplified EU Declaration of Conformity

Hereby, PERGO declares that the radio equipment type Pergo Wireless Kit is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address:

www.pergo.no/nb-no/gulvvarme

6. 5+5 years Guarantee

For Pergo quickheat Pergo offers the following guarantee:

Pergo quickheat heating mats	5+5 years
Pergo Wireless Kit	5 years
Pergo quickheat extension cord	5 years

The guarantee is valid, counted from the date of purchase. This guarantee is effective in addition to all statutory rights.

GUARANTEE CONDITIONS

The assertion of guarantee claims is subject to compliance with the following terms and conditions:

- This guarantee is valid only for consumer purchase for private use.
- The products must be used indoors in a residential area.
- The guarantee covers faults caused during production of the material. It does not extend to damage caused by third parties (e.g. transport damage)
- No guarantee is provided for damage due to abuse, misuse, accidents or force majeure, and damage arising from other circumstances not common in residential applications.
- Please read our installation instructions carefully and strictly follow the directions. The guarantee is not valid if the products are not installed properly.
- Damage arising from improper care and cleaning, overloading, inadequate floor construction or damage due to the influence of moisture is also excluded from coverage under this guarantee.
- If the products are installed despite visible defects, this will void the guarantee.
- No guarantee service shall in any event act to extend the warranty period.
- Pergo reserves the right to inspect the damage on site after agreement on a reasonable inspection date in order to verify compliance with the guarantee terms and conditions.
- Pergo reserves the right to perform the guarantee services step by step against return of the replaced material.
- This guarantee is in lieu of all other guarantees. Guarantee coverage is subject to the guarantee in the version effective at the time of purchase. In the USA and Canada special guarantee terms and conditions apply. This guarantee is not applicable in those countries.

OUR UNDERTAKING

First 5 years:

If a fault in accordance with this guarantee has become apparent, Pergo will, at its discretion, either repair the product or deliver a new product at no cost. Pergo will also repair or replace the flooring material used on top of the claimed quickheat products.

Last 5 years:

Our undertaking is restricted to the supply of new material. The cost of laying, or other costs in connection with this is not covered.

GUARANTEE CLAIMS

Guarantee claims are to be submitted in writing to Pergo within 30 days from the time a fault under the guarantee was discovered or ought to have been discovered. When submitting a claim the original guarantee certificate and the receipt must be produced.

5+5 years Guarantee
Guarantee Certificate

The Pergo Guarantee certificate is granted to

Name

Full address

Post code

City

Country

Telephone

Attention:

The Guarantee Certificate must be completed correctly for the Guarantee to be valid.

Please read the Guarantee conditions on the previous page.

Type of product

Item number

PERGO®

www.pergo.com

Pergo Ltd

PO Box 13113, Kingsbury Link, Piccadilly

Tamworth B77 9DJ

Tel: 01827 871840

Fax: 01827 871850

E-mail: customercare.uk@pergo.com