



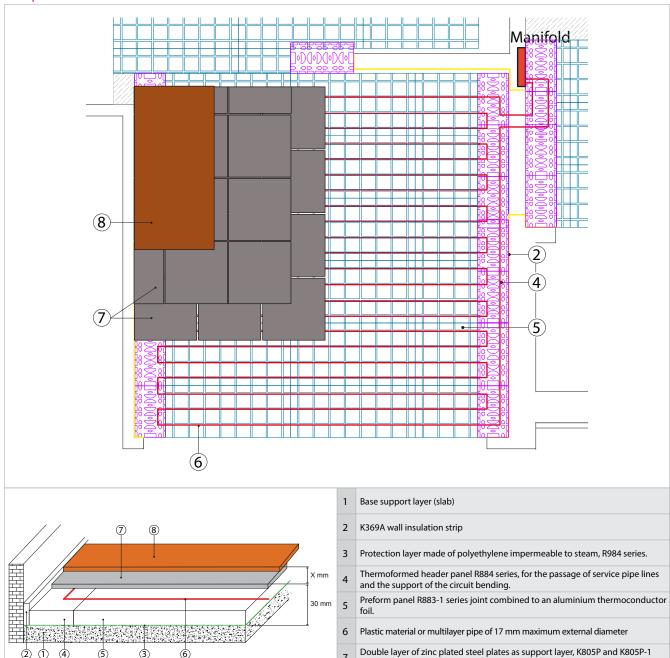


Description

Radiant dry floor system without the use of cement mortar as support layer of the superficial finish and with possibility of making the system in a reduced thickness (30 mm except the superficial finish) composed by:

- K369A wall insulation strip;
- R984 protection layer made of polyethylene impermeable to steam;
- •Thermoformed header panel R884 series, for the passage of the service pipe lines and the support of the circuit bending;
- Preform insulating panel R883-1 series, joint combined with a thermoconductor profile made up by an aluminium foil;
- Plastic material or multilayer pipe having max external diameter of 17 mm, R999, R978 or R996T series;
- Pipe fixing clips to the insulating panel, K809 series (where necessary);
- Zinc plated steel plates as support layer for the load partition, K805P series;
- Zinc plated steel plates having double-sided adhesive to make the second support layer for the load partition, K805P-1 series.

Components



Superficial finish

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R883-1 preform panel

Preform insulating panel in expanded polystyrene, joint combined with a thermoconductor profile made up by an aluminium foil of 0,3 mm thickness. It allows the passage of the pipes in both directions and if necessary at 45° (by removing a preform part of the sheet). It has grooves on the four sides for combination with adjacent panels.

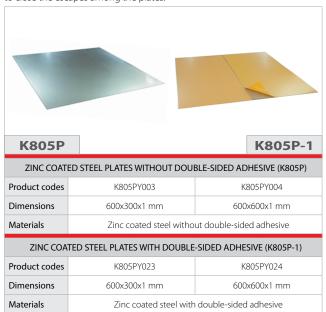


Zinc plated steel plates K805P and K805P-1

0.3 mm

Thickness

Double layer of load partition made up by zinc plated steel plates. The second layer, having double-sided adhesive, will be glued staggered on the first so as to close the escapes among the plates.



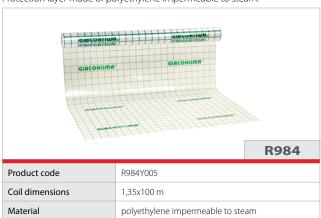
R884 header panel

Header panel made of expanded polystyrene with PST film, thermoformed, aluminium colour, for the passage of the service pipe lines and the support of the circuit bending. On the four sides, it has grooves for the joining with the adjacent panels.



R984 protection layer

Protection layer made of polyethylene impermeable to steam.



K809 fixing clip

Fixing clip for pipes on radiant dry floor systems.



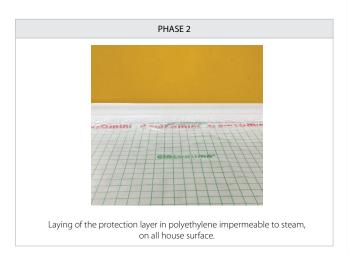




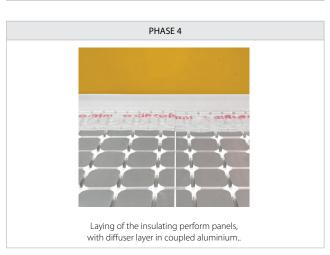
Installation

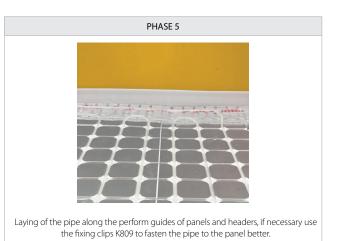


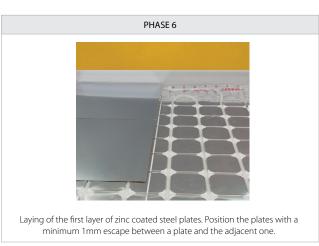
Laying of the wall insulation strip along the internal perimeter of the house.

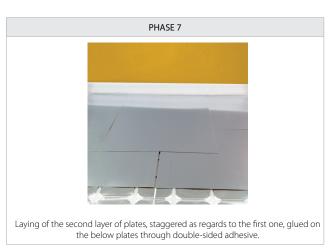




















Warning.

In radiant dry floor systems, it is necessary that the slab below the insulating panel is perfectly at level.



Note.

The filling of the perimeter spaces, that are difficult to be reached with the R883-1 preform panel, and above all with the zinc coated steel strips, can be effected with a self-levelling concrete, not radiant, separated by the slab with the first layer of the R984 polyethylene sheet, and made up to a level equivalent to that one of the system, support layer included.

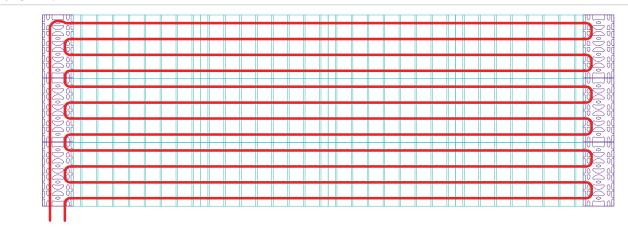
This solution can be used also to make a self-levelling concrete, not radiant, in areas where very high concentrated loads are expected, or anyway loads higher than those ones bearable by the used support layer.



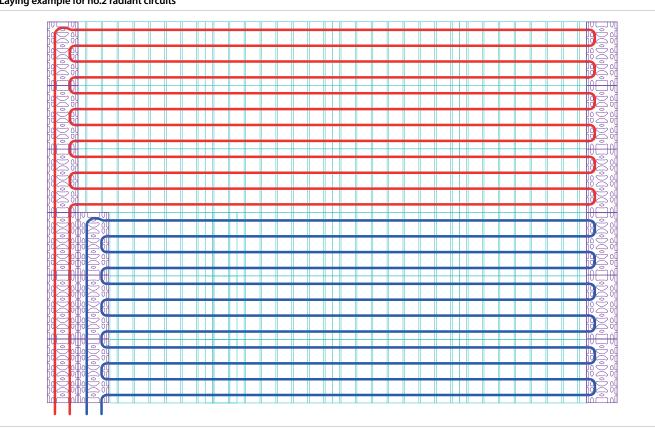
Note.

In the applications of the radiant dry floor systems, it is essential referring to EN 1264 standard, regarding the design and the plant and structural installation, by respecting strictly the testing and first start-up procedures.

Laying example for no.1 radiant circuit



Laying example for no.2 radiant circuits



0541EN May 2017

RADIANT DRY FLOOR SYSTEM





Normative references

• UNI EN 1264

Floor heating: systems and components

• EN 13163

Thermal insulation products for buildings – Factory made products of expanded polystyrene (EPS) – Specification

Product specifications

Radiant dry floor system

Radiant dry floor system without the use of cement mortar as support layer of the superficial finish, and with the possibility of making the system in a reduced thickness (30 mm except the superficial finish) composed by:

- K369A series perimeter strip for radiant floor systems in polyethylene. One side is completely adhesive and the other has a protection strip. 50 m coil length. Size 150x8 mm or 250x8mm. Temperature range -20÷80°C.
- R883-1 series insulating panel in expanded polystyrene (EPS200). Density 30 kg/m³, thermal resistance 0,65 m² K/W. Compression resistance to 10 % crush 200 kPa. Joint combined with a thermoconductor profile constituted by an aluminium foil 0,3 mm thickness. It allows the passage of the pipes in both directions, and if necessary at 45° (by removing a perform part of the sheet). Panel dimension 1200x600 mm. Total thickness 28 mm, with grooves on the four sides for coupling with the adjacent panels, and additional plugs to be inserted in the voids to increase the load resistance.
- Insulating header panels, **R884** series, for the passage of the service pipe lines and the support of the circuit bending. Expanded polystyrene plates (EPS200), covered with thermoform PST film. 30 kg/m3 . Thermal resistance 0,55 m2 K/W. Plate dimensions 600x300 mm. 28 mm thickness with grooves on the four sides for coupling with the adjacent panels.
- Plastic material or multilayer pipe of maximum external diameter 17 mm, R999, R978 or R996T series
- Fixing clip for the pipe to the insulating panel, **K809** series (where necessary)
- Double partition layer of the load made of 1 mm thickness zinc coated steel plates, dimensions 600x600 mm or 600x300 mm, **K805P** series. The second layer having double-sided adhesive, **K805P-1** series, will be staggered glued on the first in order to close the escapes among the plates.





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Additional information

For additional information please check the website www.giacomini.com or contact the technical service: *\infty\$ +39 0322 923372 \(\exists\$ +39 0322 923325 \(\infty\$ consulenza.prodotti@giacomini.com This pamphlet is merely for information purposes. Giacomini S.p.A. retains the right to make modifications for technical or commercial reasons, without prior notice, to the items described in this pamphlet. The information described in this technical pamphlet does not exempt the user from following carefully the existing regulations and norms on good workmanship.

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