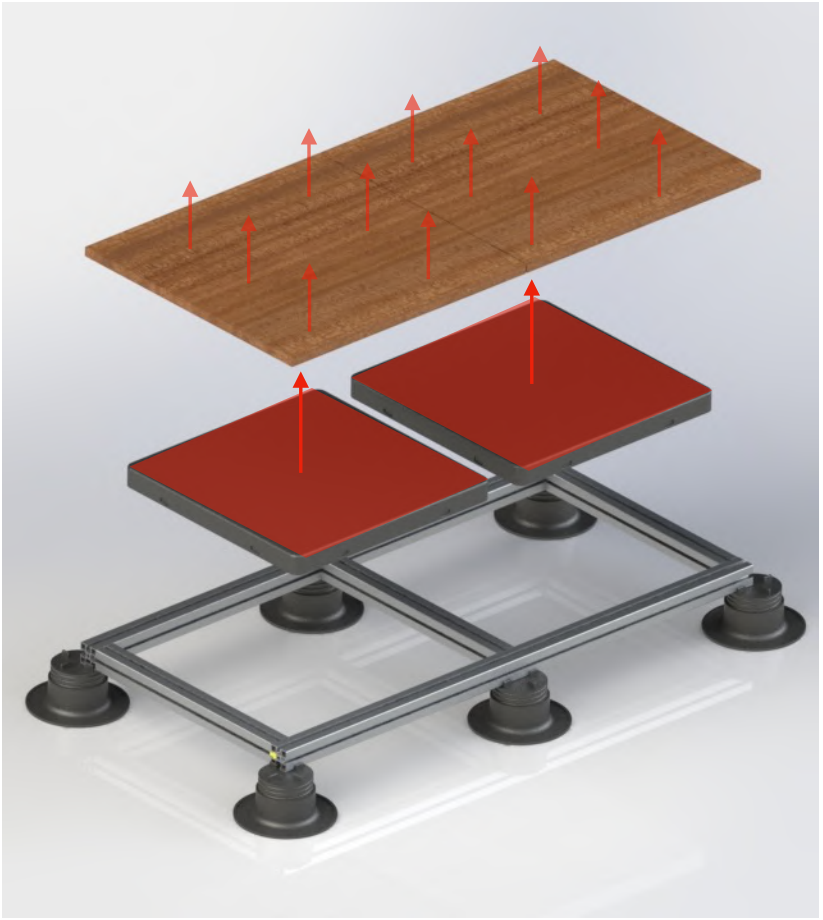
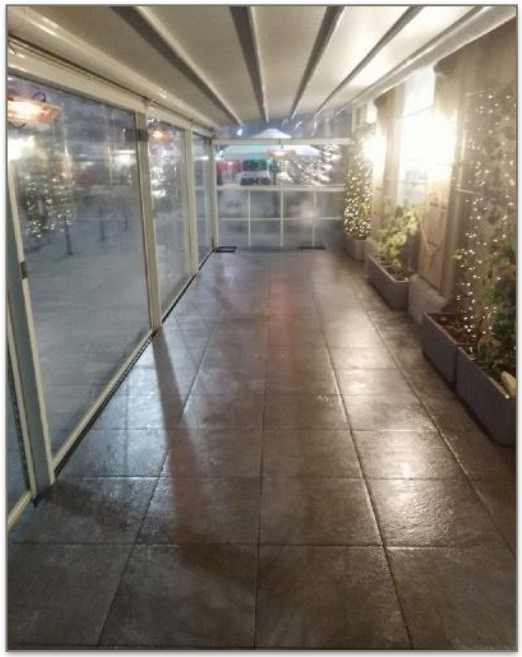
EN TECH

AVAM AUSTRALIA PTY LTD

# HOT TILE IRON

Modular electric heating for raised and floating floors





THE SMARTEST WAY TO HEAT

01

## HOT TILE IRON

Plyterm technology proposes Hot Tile Iron. A patented, Made in Italy product which consists of a highly efficient floor heating both in terms of installation and in terms of energy.

02

## MODULE FEATURES 0,5 - 1 - 1,25

| | | |
|---|---|---|
| Width: | cm | 50 |
| Thickness*1: | cm | 4 |
| Length: | cm | 50 - 100 - 125 |
| Power supply: | VAC | 220-240 |
| Module max power: | W | 100 - 200 - 180 |
| Max power per sqm.: | W/sqm | 400 - 400 - 300 |

03

## MODULE SURFACES

The cover of the module is enclosed by 10/10 mm galvanized sheet and sealed to IP 65 degree.
The 50 x 50 cm module base is in black ABS.

04

## CONNECTION

MULTICONTACT WATERPROOF MC4 connectors Max 30 A

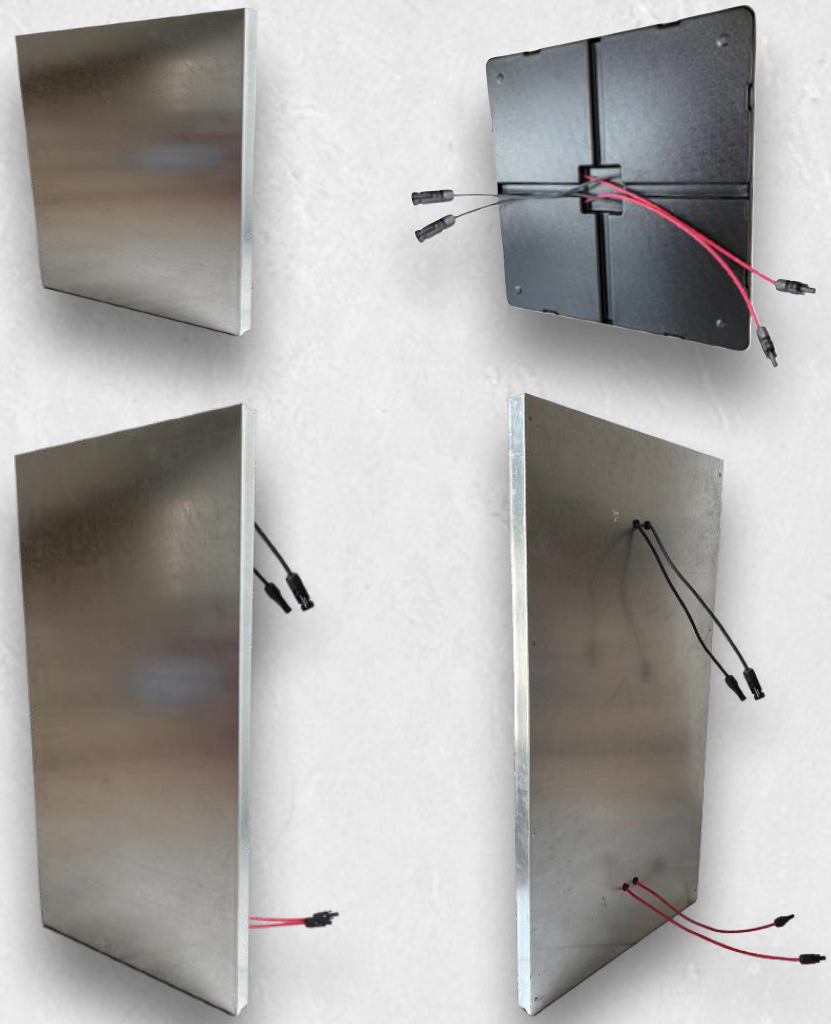
05

## CONTROL

Plyterm technology can be managed with any regulation system on the market. Home automation, Chrono-thermostats, dimmers etc.

FRONT

BACK



Heating core certifications:

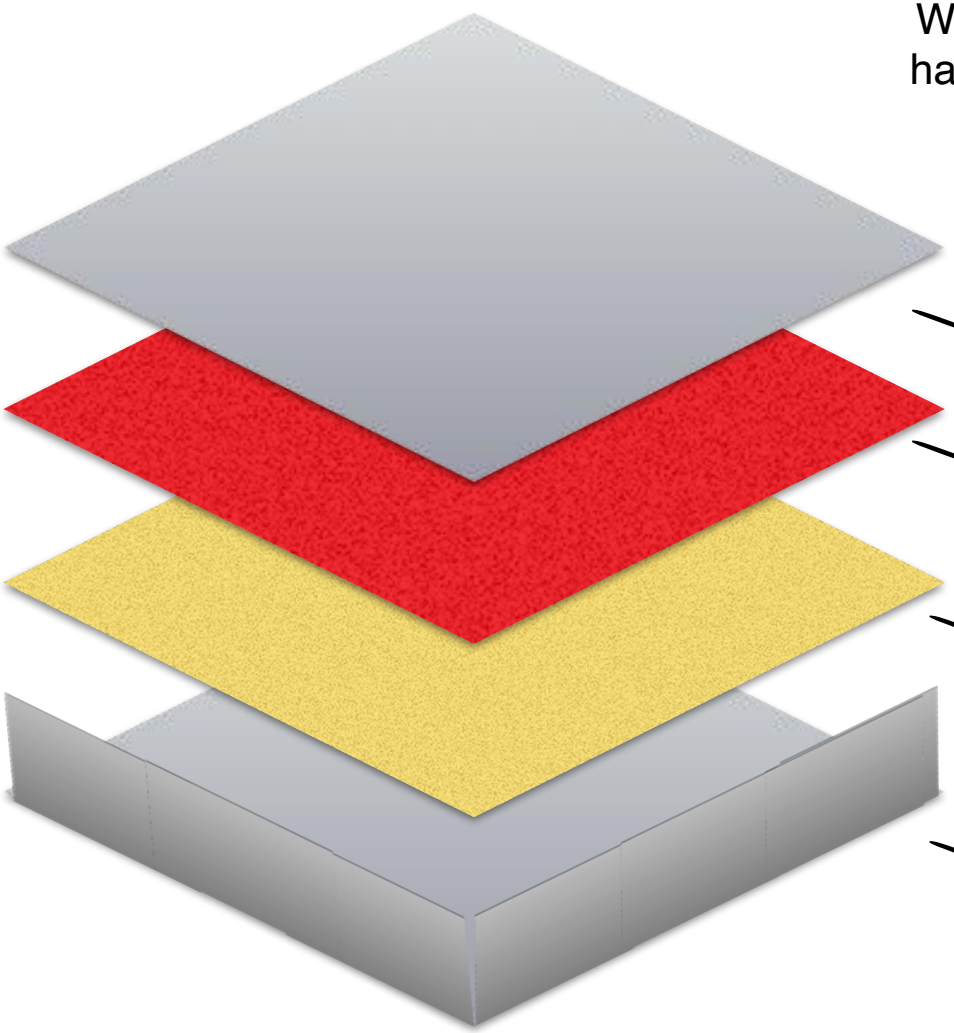
Module certifications:

**Simplified layering**

**HOT TILE IRON**

All modules are internally fitted with very low conductivity thermal insulation, therefore 100% of the infrared rays generated are directed towards the upper side of the panel.

While the front shell made of cold-dip galvanized sheet metal has a very high λ [W/mK] intrinsic to the material and ensures high thermal conductivity.



**Upper shell in galvanized sheet with high conductivity**

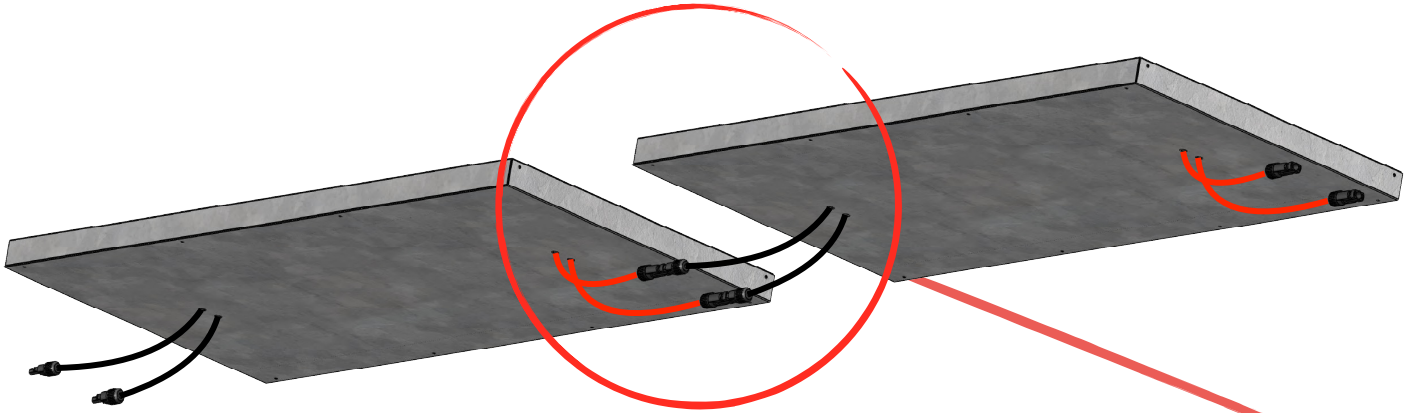
**Heating core in amorphous metal or carbon nanoparticles**

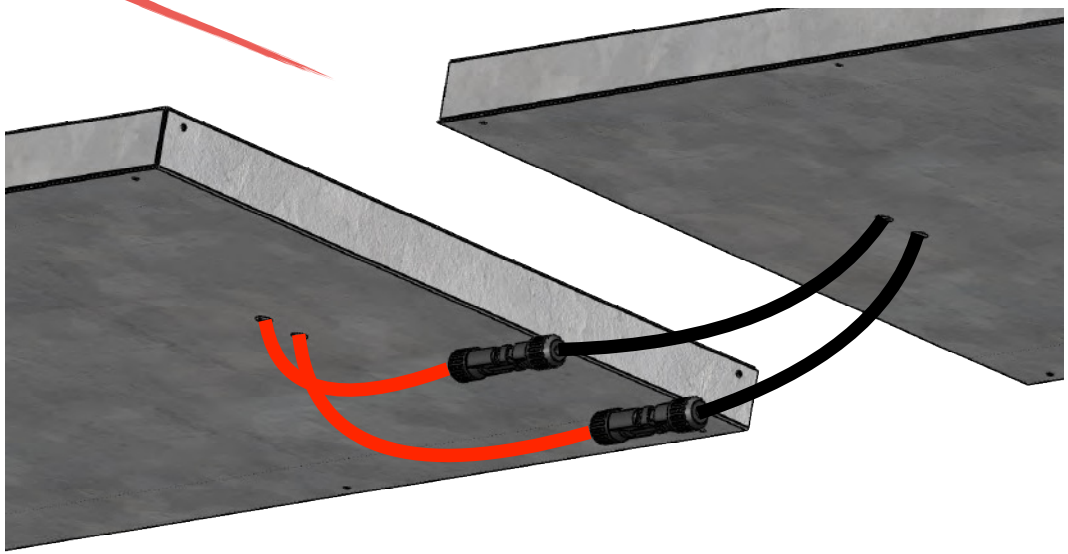
**High performance insulator (λ<0.024 W/mK)**

**Lower shell in galvanized steel sheet / ABS**
(depending on the model)

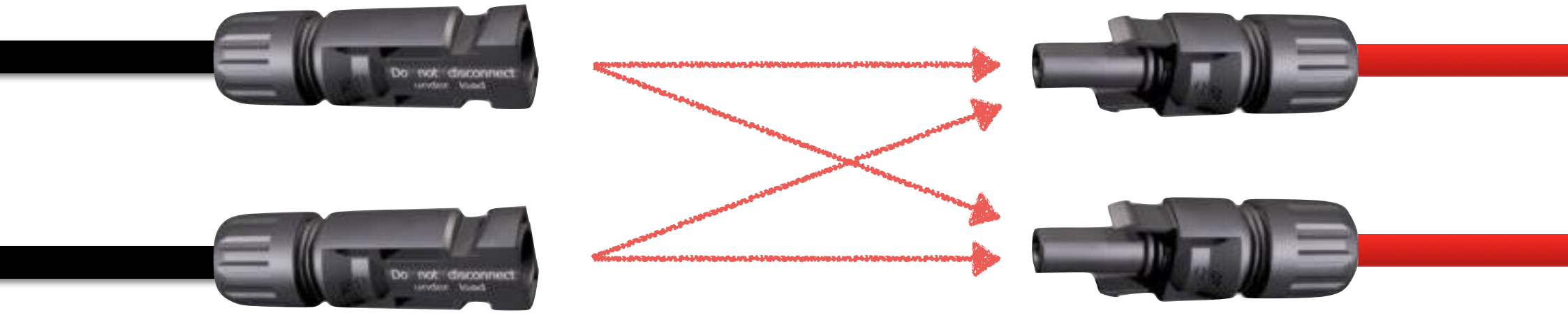
# CONNECTION HOT TILE IRON

The connectors used in the Hot Tile Iron panels are certified and guaranteed MC4 WATERPROOF.





Connection is by pressure connectors. The connection is made manually without the use of crimpers.
Make sure component A is fully inserted into component B.
The connection between A and B does not have an order of polarity between the two panels (SEE IMAGE BELOW).


A

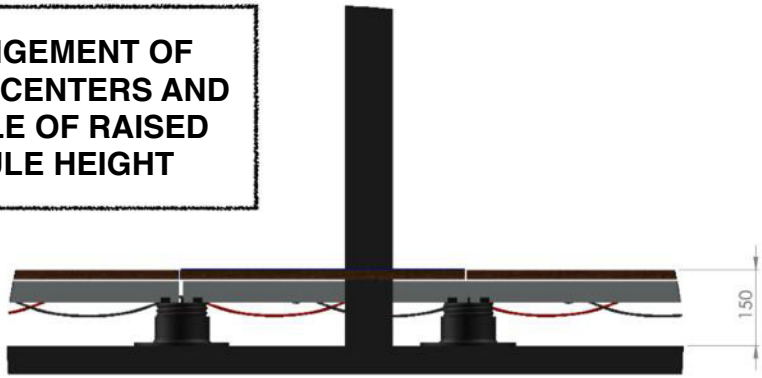
B

# Thanks to the versatility of the Hot Tile Iron modules, it is possible to use different laying solutions:

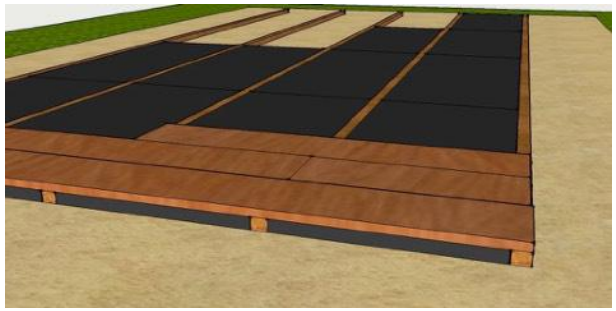
Suitable for classic raised floors with raised structure and adjustable feet.

Suitable for floors made with a Deck structure. Where it is possible to fix coupling profiles (in wood, aluminium or other) to the floor, the Plyterm modules will then be inserted inside them and the tracks will then be covered with the desired flooring. (Outputs to side connections)

**ARRANGEMENT OF COLUMN CENTERS AND EXAMPLE OF RAISED MODULE HEIGHT**



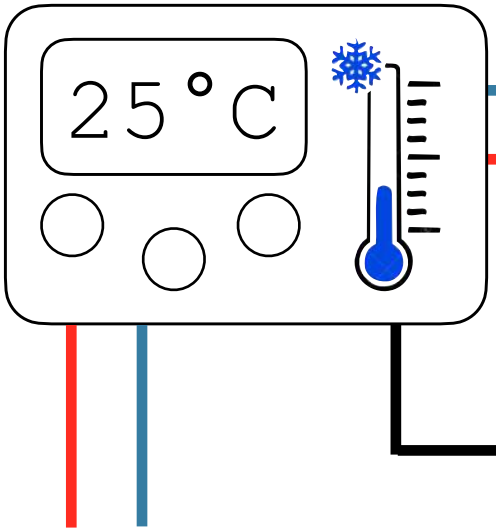

DETAIL A



# STANDARD REGULATION SYSTEM

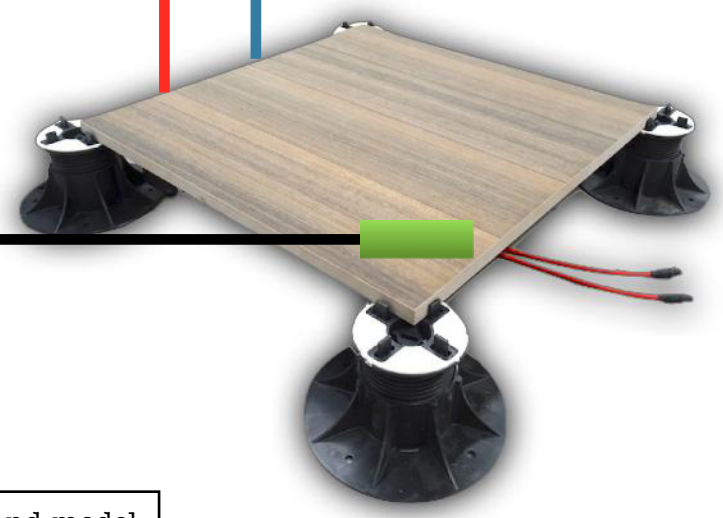
ATTENTION! IT IS IMPORTANT TO CONNECT TO THE REGULATION SYSTEM AND TO THE RELATED TEMPERATURE CONTROL BEFORE PUTTING THE PANELS INTO OPERATION; THUS AVOIDING DEFORMATIONS, OVERTEMPERATURES WHICH LEAD TO IRREPARABLE FAULTS.

CHRONOTHERMOSTAT WITH EXTERNAL PROBE




**OUT**

**HOT TILE IRON**



**IN**
**AC 220V 50Hz**

The chronothermostat terminal block varies depending on the type and model.
SEE INSTRUCTIONS ENCLOSED IN THE PACKAGE.

Power is nothing without control... these are systems complementary to the heating system, defined based on the customer's needs and the limits imposed by the contractual power.
Each situation requires a careful assessment by our technicians who will be able to satisfy any request.

**From a single Plyterm heating panel to an entire industrial plant!!!**

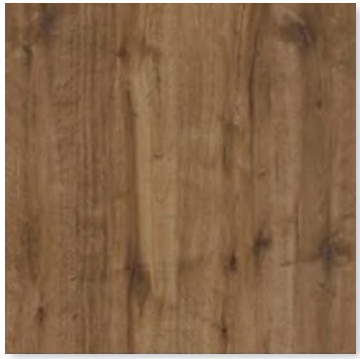
Everything can be managed remotely thanks to the integrated home automation present in the latest generation chronothermostats used. It is also possible to apply a centralized home automation system with Zwave technology such as the Fibaro Home Centers for example.

# What is the ideal material to use on the HOT OUT IRON?

Any material suitable for raised floors can be used.

Before installing a floor heating system with parquet, marble, ceramic and stoneware, it will be advisable to know the materials and take into consideration all the appropriate characteristics and parameters.
Only by knowing the peculiarities of these materials well, will it be possible to make the right choice, without making mistakes.
The higher the thermal conductivity, the higher the yield of the heating system.

***The higher the thermal conductivity, the higher the output of the heating system.***



| FLOORING MATERIAL | THICKNESS IN MILLIMETRES | THERMAL CONDUCTIVITY W/(mk) |
|---|---|---|
| Marble | 12 | 2,1 |
| Cement slabs | 12 | 2,1 |
| Stone | 12 | 1,2 |
| Ceramic tiles | 13 | 1,05 |
| Strip parquet | 16 | 0,21 |
| Mosaic parquet | 8 | 0,21 |
| PVC or Similar floor | 2 | 0,2 |
| Linoleum | 2,5 | 0,17 |
| Laminate | 9 | 0,17 |

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