

PLYTERM<sup>®</sup>

MODULAR ELECTRIC HEATING

HEAT WHERE AND WHEN YOU NEED IT

IN AN INTELLIGENT AND

EFFICIENT WAY

BASIC ECO

[www.plyterm.com](http://www.plyterm.com)

BASIC is a simple and innovative system to create the base for any electrically heated flooring.

Adaptable to any situation and without any building work.

Single rooms, complete homes, halls and living rooms, meeting places.

01

## BASIC

Plyterm technology proposes Basic. 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 CHARACTERISTICS

Width:	cm 55
Thickness*1:	mm 10/15/20/23
Length:	cm 125
Power supply:	V AC 220-240
Module max power*2:	W 95 W 180
Max power per sqm*2:	W/sqm 140 W/sqm 260
Thermal Conductivity:	W/mK 0,024 / 0,033
High compressive strength*3:	
-AF60 at 10% strain	EN826 $\geq$ 550 kPa
-XPS at 10% strain	EN826 $\geq$ 250 kPa

Heating core certifications:



Module Certifications:



03

## MODULE SURFACES

Surface made up of a technical non-woven high-density expanded polypropylene suitable for gluing ceramic and parquet floors or simply for floating or semi-floating installation.

04

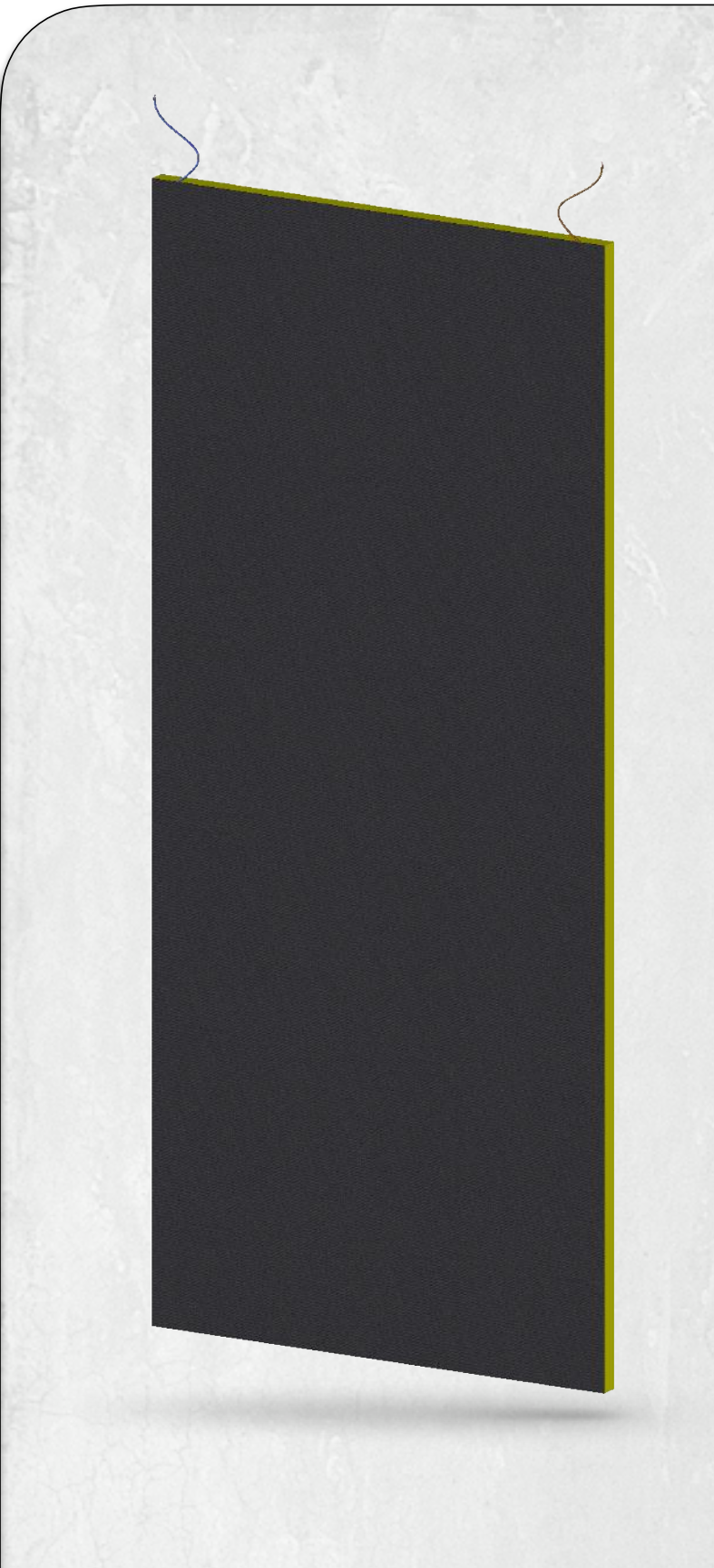
## 10 YEAR GUARANTEE ON OPERATION

The supplied modules benefit from this guarantee if correctly powered and installed. In case of malfunction, the single module will be replaced. The guarantee is not valid in case of non-functioning following flooding or direct contact with water, following damage from lightning or anomalous electric discharges, breakages or damages of various kinds caused directly or in case of disconnection and movement of the modules.

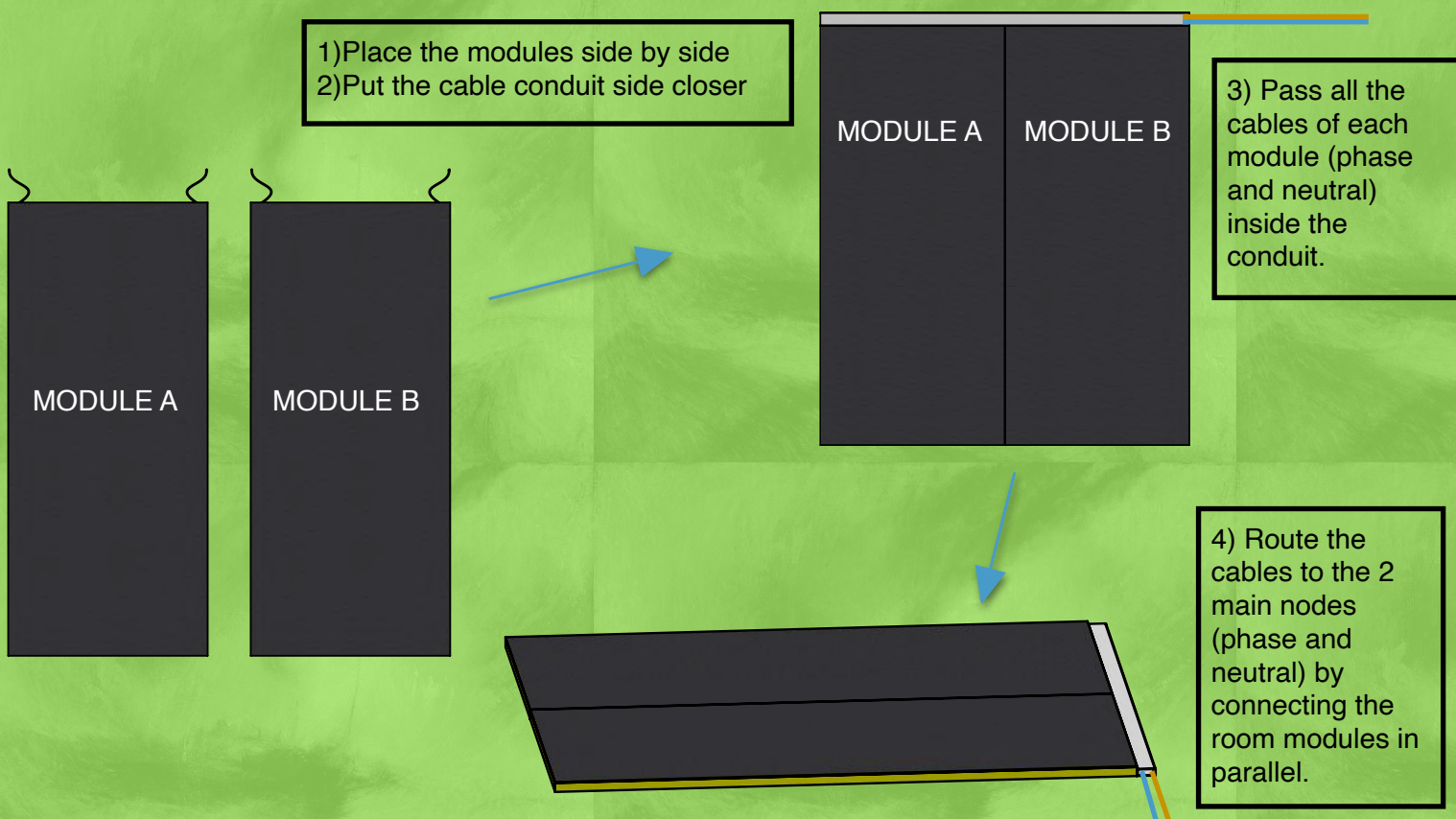
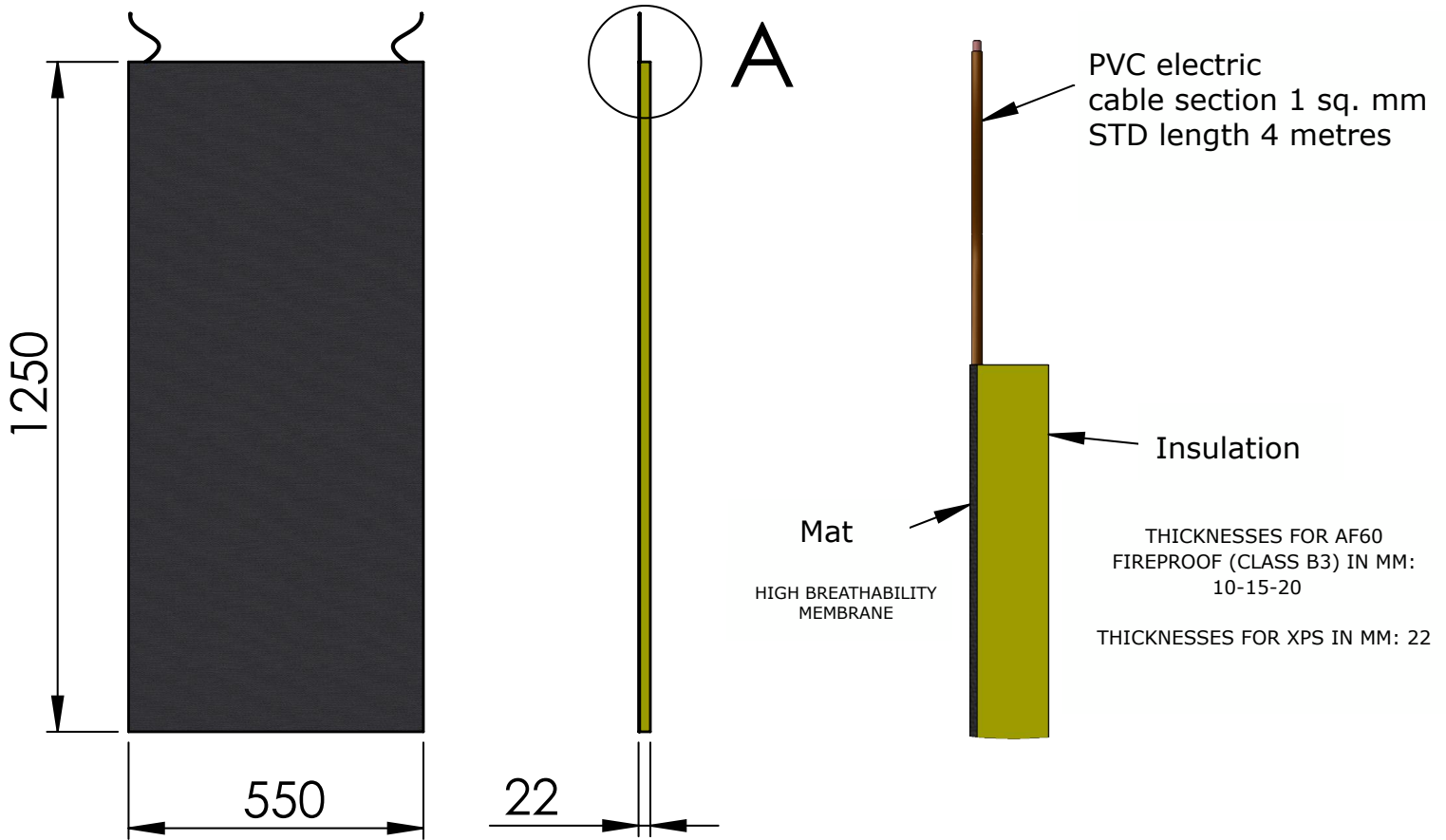
\*1 It is possible to request a thickness variation based on the needs of the designer.

\*2 The indicated power is the maximum nominal one if the module is connected to the power supply without any regulating device (SEE LAST PAGE).

\*3 The compressive strength increases and varies depending on the material chosen for the surface installation.



# DIMENSIONS - COMPOSITION - CONNECTION SEQUENCE



# PROJECT AND SIZING

With the BASIC by Plyterm system, designing floor heating is simple.

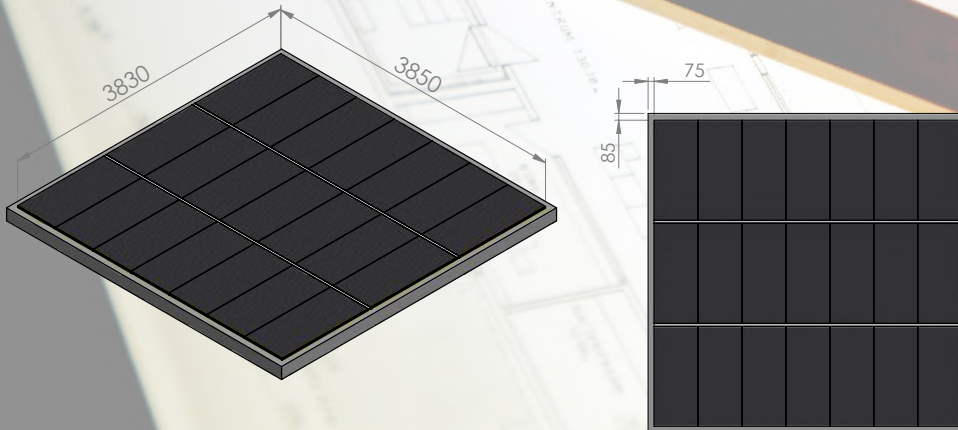
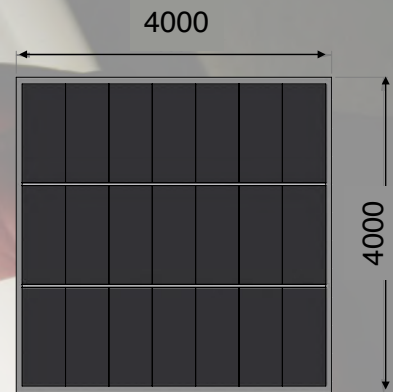
Let's take a room of 16 m<sup>2</sup> (4 x 4 m) as an example.

The steps are as follows:

**STEP 1-** Distribute the heating modules in the room in order to create a uniform area.

In a room of this size we will have 3 rows of 7 modules, for a total of 21 modules.

The area occupied by the hot modules + conduits is approximately 3830 x 3850 mm.

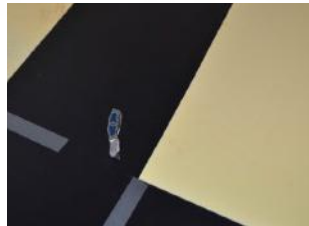
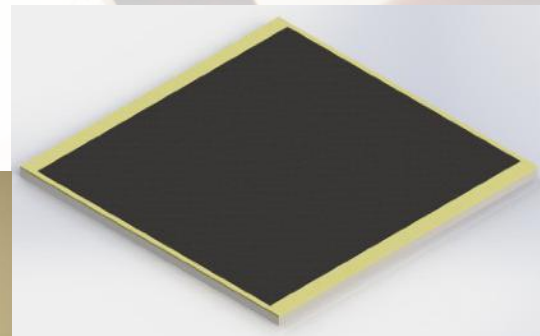


**STEP 2-** We therefore have 8.5 cm of unoccupied area on one side and about 7.5 cm on the other.

Distribute the free zones symmetrically so as to position the heating zone centrally in the room (SEE FIGURE ALONGSIDE).

**STEP 3-** Lay the modules in sequence by creating rows, passing the phase and neutral wires of each module inside the conduit. All the phase cables will then be joined together creating a main phase node. Same thing for the neutral wires.

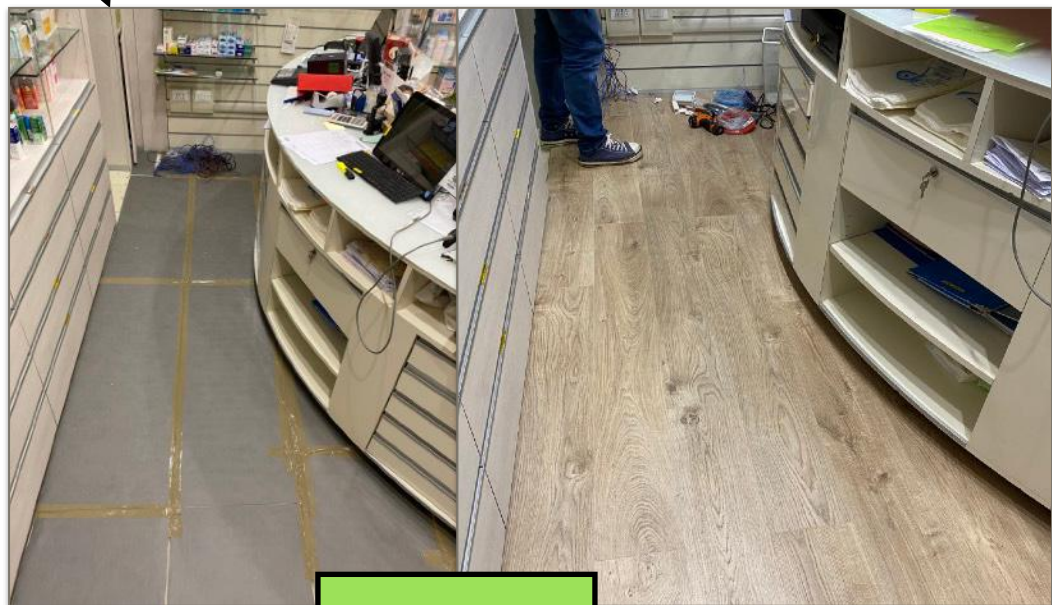
**STEP 4-** Complete the room with cold modules that can be cut with a simple cutter. This allows the same level of flooring to be obtained, as required for laying the end finish which may be laminate, wood, tiles or stoneware.





**Homes**

**Offices**

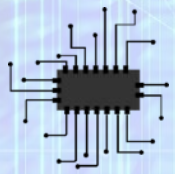


**Shops**



**Public places**

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## SYSTEM MANAGEMENT



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

If you want a supply that includes management and control, En-Tech offers:

### CH193 WIFI TOUCH SCREEN CHRONO-THERMOSTAT:

suitable for the management of single and multiple rooms to adjust the ambient temperature of your rooms, touch screen, programmable daily, weekly, monthly with different temperatures throughout the day even remotely using the INTELLICLIMA+ APP.



**POWER CONTROL UNITS:** for managing apartments, houses, multiple offices. They are able to adapt the consumption of the heating system based on both the energy type of the rooms and the power limits on the meter. The system is programmable in a simple way and allows the Plyterm technology to be completely defined, making the system modular and adaptable to any situation.



## ACCESSORIES



**DUCT TAPE:** to be used to keep the modules aligned and side by side to obtain a single solid body.

**CONDUITS:** to bring the electric cables of each single module up to the common nodes defined by the designer or electrician. The most commonly used dimensions are 40 x 16 mm.

**RELAYS:** mechanical or static. Able to activate or deactivate the heating zones for a high number of cycles during short periods of time. Interacts with power control units.



**SOUND ABSORBING MAT:** insulating mat in high-density NPE-type polyethylene covered with PE film with vapour barrier function, indicated in cases where there is rising damp from the underlying layers.



**CONNECTION CABLES:** power cables on request for special installations and particular applications.

# EN TECH



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Our modules are covered by  
PATENT No. 0000282718



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# PLYTERM®

THE SMARTEST WAY TO HEAT