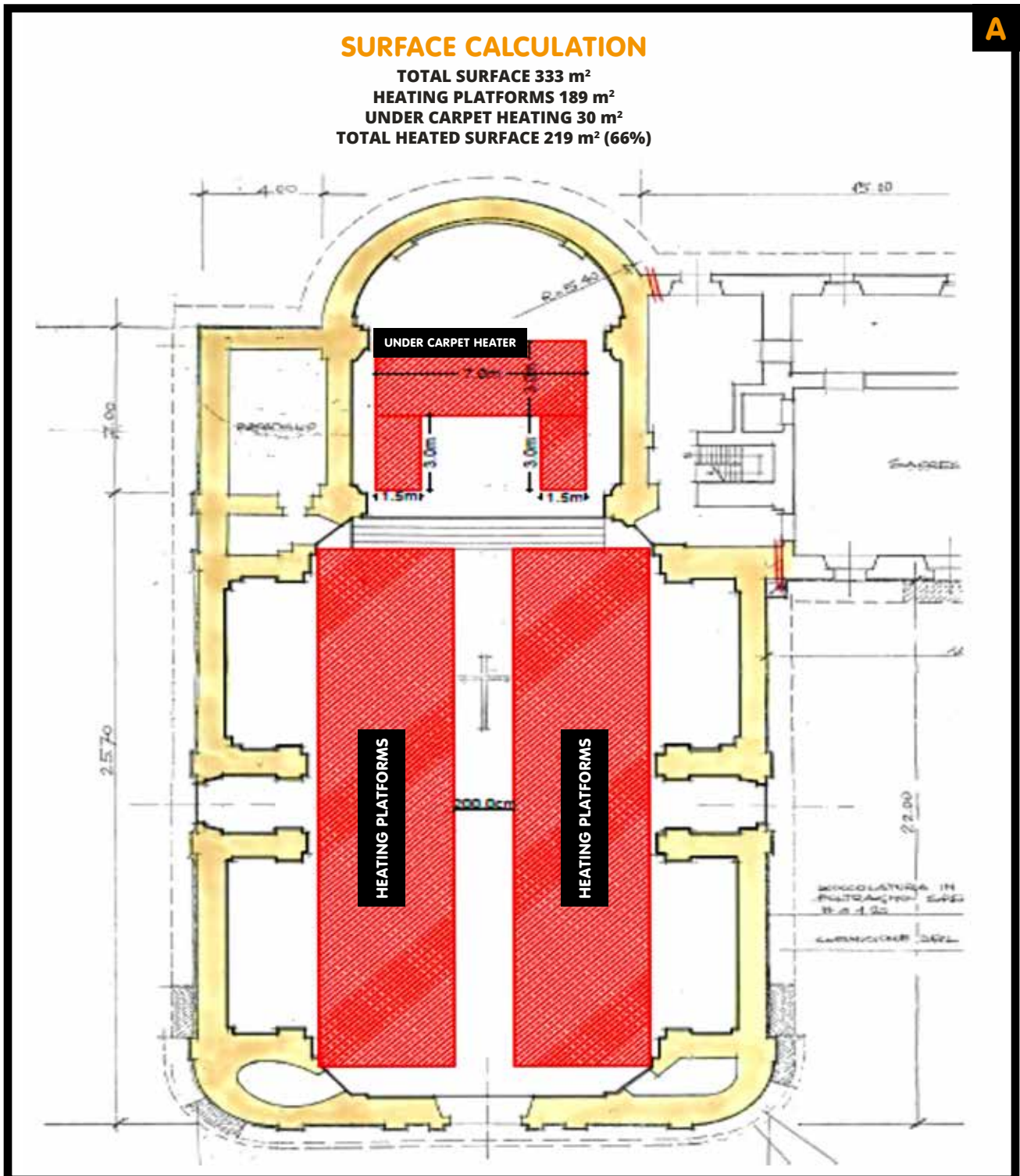


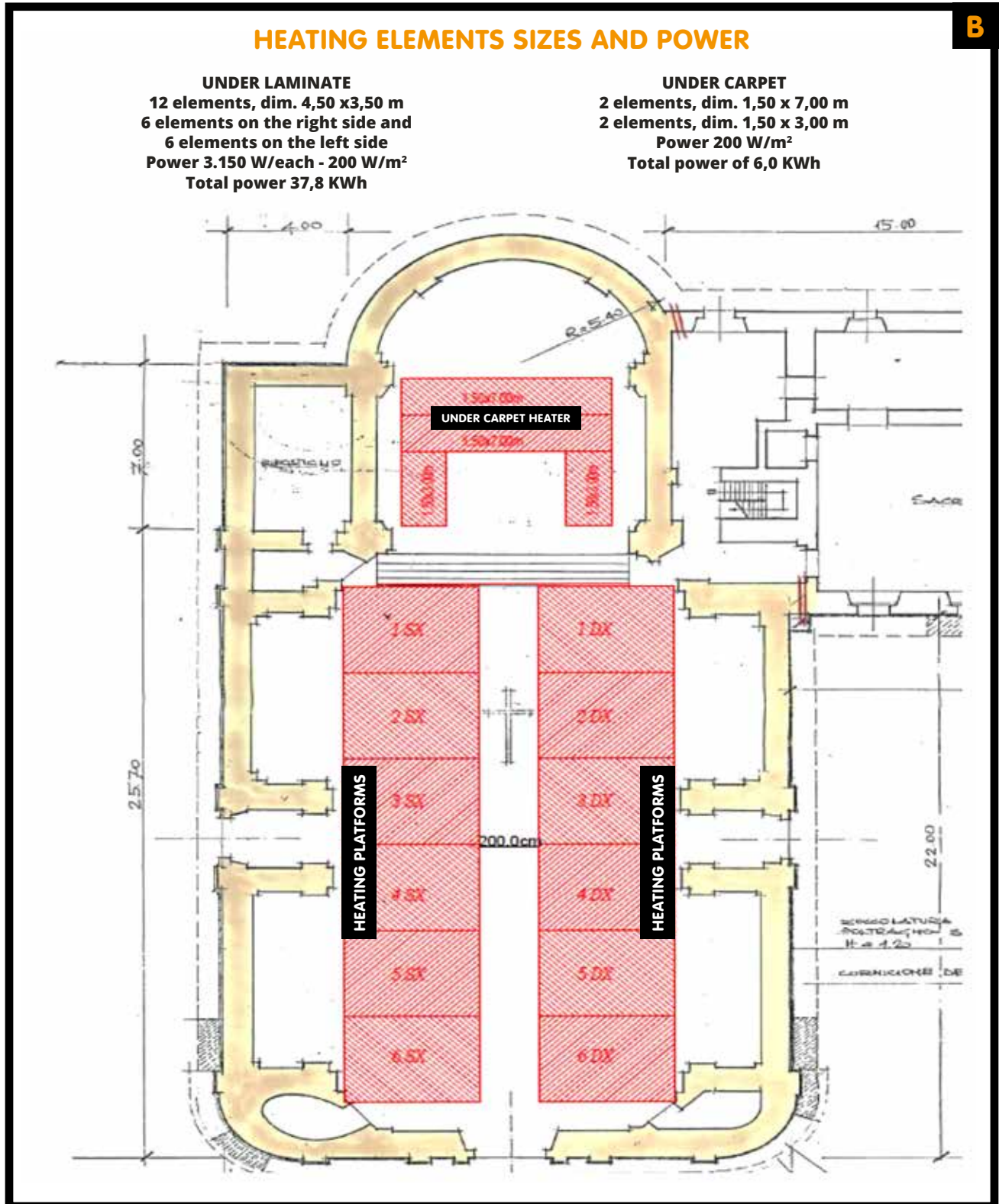
## MONTAGE GUIDE

**WARNING:** installation operations must be performed by specialized personnel.

Before start it is essential to know exactly how the heating elements must be laid. Follow a diagram with the indication of element location, power supply points, connection to the temperature control probes and power cord lengths. The pictures A, B, C show an example of montage



Heating elements with carbon fiber resistors are projected and manufactured on demand, also we provide power supply cables and a probe for temperature setting and controlling. The thickness of the heaters is of 9 mm (0.35 in), the total thickness of the system including laminate finishing is of 16/20 mm (0.63/0.79 in).

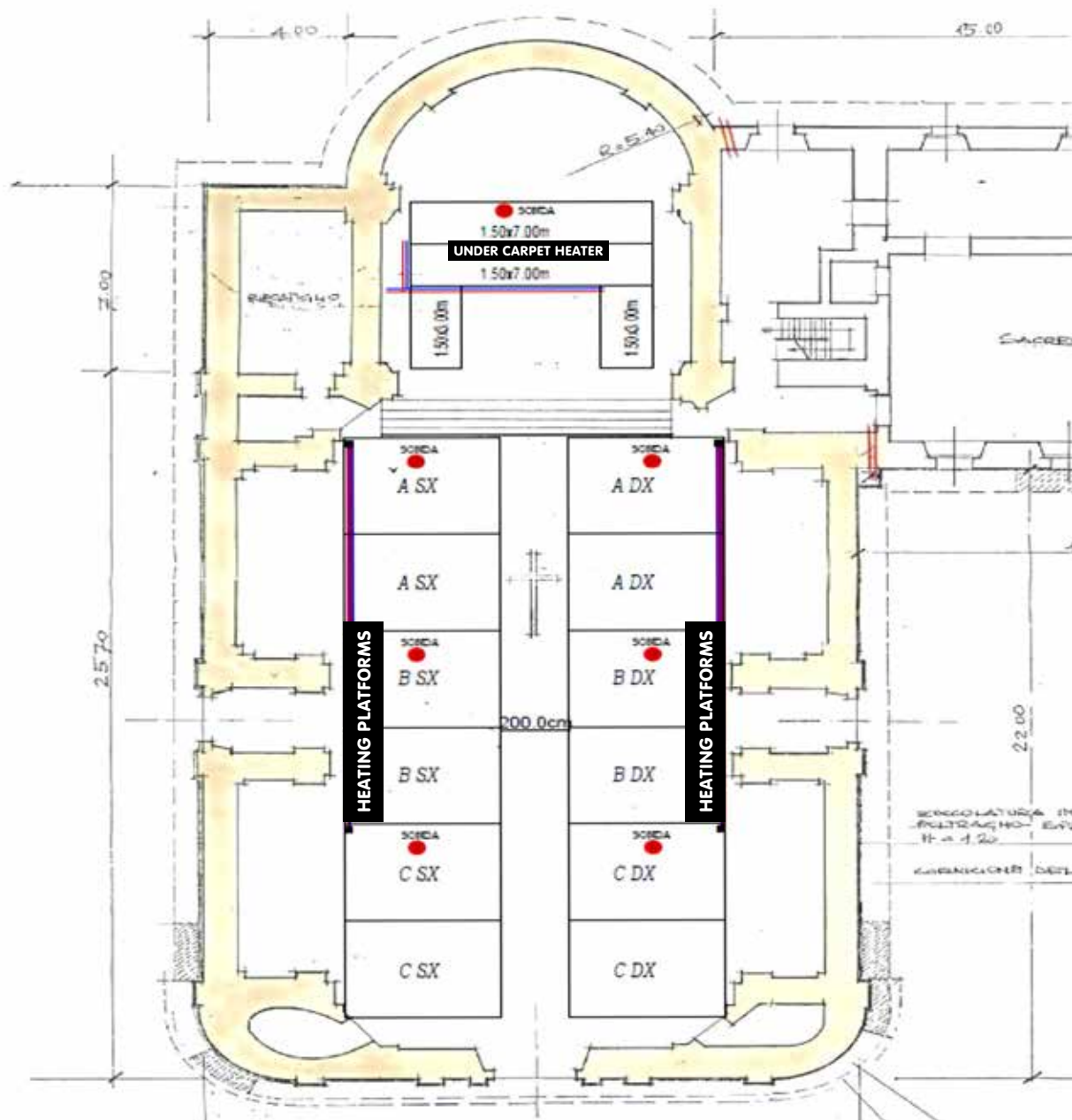


Thermal Technology powered by Carbon Fiber Heating SRL - Str Calea Borsului Nr 53B - 410605 Oradea (BH) Romania  
 Tel: + 39 0423 858589 - [www.thermaltt.com](http://www.thermaltt.com) - [info@thermaltt.com](mailto:info@thermaltt.com)

## DIVISION IN SECTORS AND POWER SUPPLY LINES

C

**JUNCTION BOXES POSITION  
TEMPERATURE CONTROL PROBES POSITION  
POWER SUPPLY LINES**



MODEL	POWER SUPPLY	POWER	PROTECTION DEGREE	TEMPERATURE CONTROL	POWER CABLE	DIMENSIONS
STLA.X	230 Vac 50/60 Hz	200-250W/m <sup>2</sup>	IP67 Reaction to fire 1 <sup>ST</sup> CLASS	T705 temperature controller NTC probes (see accessories)	Power cable H07 RNF 3G	Heating plat. 15,00 m <sup>2</sup> /161,46 ft <sup>2</sup> thickness 0,80 cm /0.31 in

**Thermal Technology powered by Carbon Fiber Heating SRL - Str Calea Borsului Nr 53B - 410605 Oradea (BH) Romania  
 Tel: + 39 0423 858589 - [www.thermaltt.com](http://www.thermaltt.com) - [info@thermaltt.com](mailto:info@thermaltt.com)**

D. A vapour barrier must be laid on the floor surface to be covered by heating elements, we recommend insulating/reflective mat made by Thermal Technology. Unroll the heating elements equipped with power supply cables above the vapour barrier.

A protection duct of 40x10 mm must be placed along the margin of the heating elements, for a safe cable passage. In addition, the junction boxes must be installed in points indicated by the project. On the other margins, install a plank of plywood of 40 x 10 mm on which bond the rounded finishing profile.

Once the heating elements are laid, proceed with laminate application and finishing rounded profile bonding.



## WARNINGS

- The relays, cables and the residual-current breaker must be dimensioned in dependence of the rated power of the installed elements sum.
- The circuit must be protected by a device able to interfere and section the power line in case of short circuit; it must be installed an automatic "cut out" residual current breaker with  $I_{\Delta n} \leq 30\text{mA}$  current or with insulation transformer.
- The heating system should not be used by persons (including children) whose physical, sensory or mental capabilities; or lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction.
- Do not let children play with the appliance.
- If one or several power cables are damaged, they must be replaced by qualified personnel, indicated by manufacturer or distributor.

## CAUTIONS

- Do not pierce, cut, or damage the heating elements.
- Do not pour liquids.
- Do not burn.
- Do not lay the heaters on the disconnected surfaces.
- Do not power the heater if it is rolled.
- Do not install outdoor.
- Do not power with different voltage from that indicated by manufacturer.
- The heating elements must be kept away from another heat sources as lighting equipment or fireplaces.
- If you want to use different products than those specified here, please contact the manufacturer.
- Do not use this heating system if outside temperature is lower than  $30^{\circ}\text{C}$ .
- The heating elements must be installed at a distance of at least 30 mm from the conductive parts of the building, like pipes (methane gas pipelines included, if not protected by sheathing or cement/mortar).

**IF YOU NEED ANOTHER INFORMATION CONTACT THE SUPPLIER (The manufacturer declines all responsibility in case of improper use.)**



Appropriate for installation under flooring



Do not burn or fire



Do not install on disconnected surfaces



Do not wet



Equipped with reinforced insulation

## SAFETY REGULATIONS

- The device should only be operated with voltage AC 230 V 50 Hz.
- Users must not perform any reparation of the product. In case of short circuit and/or another damage, please contact the manufacturer.
- The connection to the electric grid must be performed by qualified personnel.
- ATTENTION!!!! Risk of electric shock.
- Close the connectors before supplying the circuit.

## CONFORMITY



This product complies with the electrical safety measures in accordance with 2006/95/EC Low Voltage Directive. The product complies with the 2004/108/EC, which refers to the electromagnetic fields.



Do not dispose the product in environment in order to avoid potential damage to people and objects. To facilitate the disposal of the components/materials and protect the environment itself, take the product to special collection centres. Product disposal in the environment or common waste is penalized in accordance with current legislation.

Thermal Technology powered by Carbon Fiber Heating SRL - Str Calea Borsului Nr 53B - 410605 Oradea (BH) Romania  
Tel: + 39 0423 858589 - [www.thermaltt.com](http://www.thermaltt.com) - [info@thermaltt.com](mailto:info@thermaltt.com)