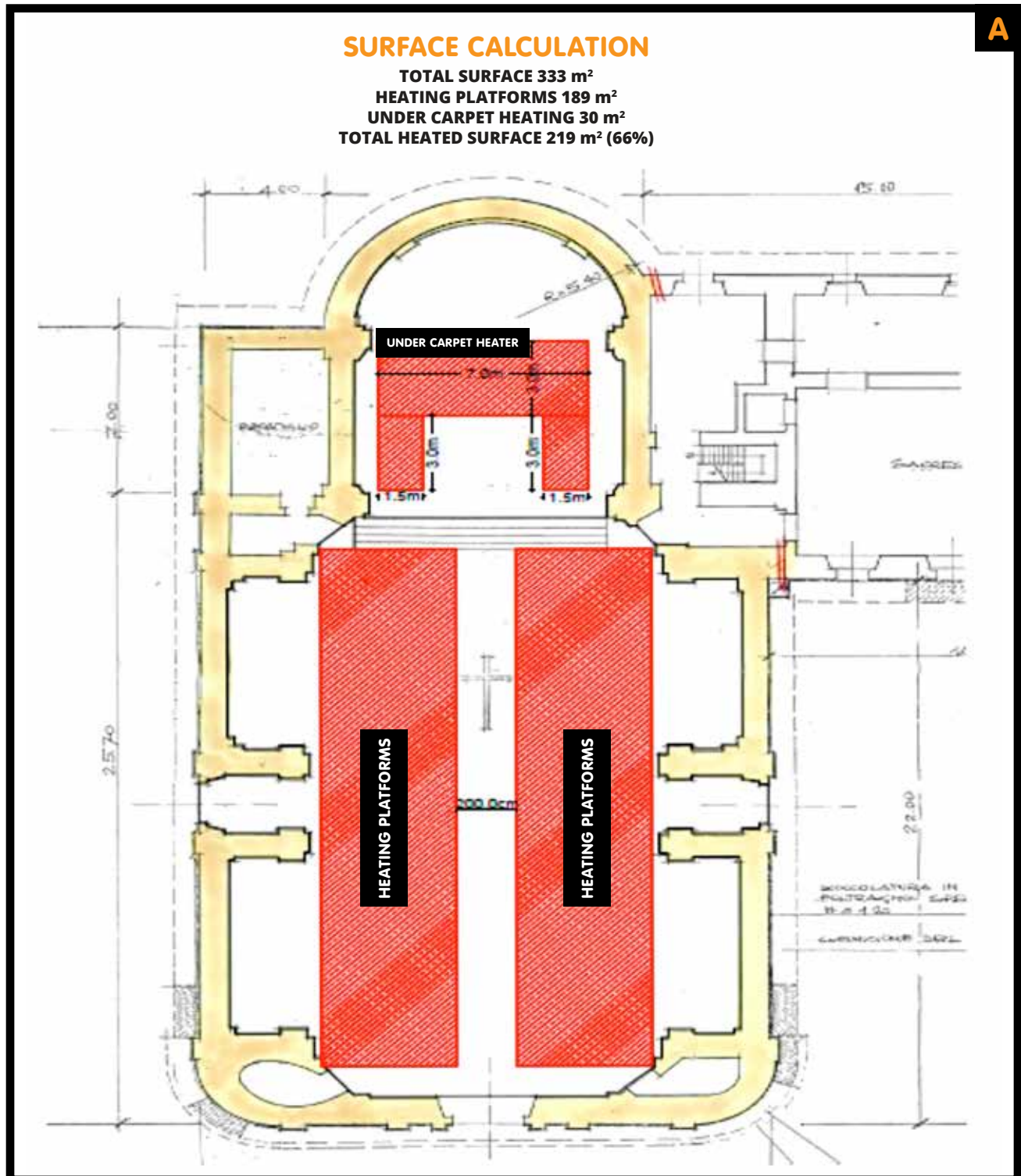


## MONTAGE GUIDE

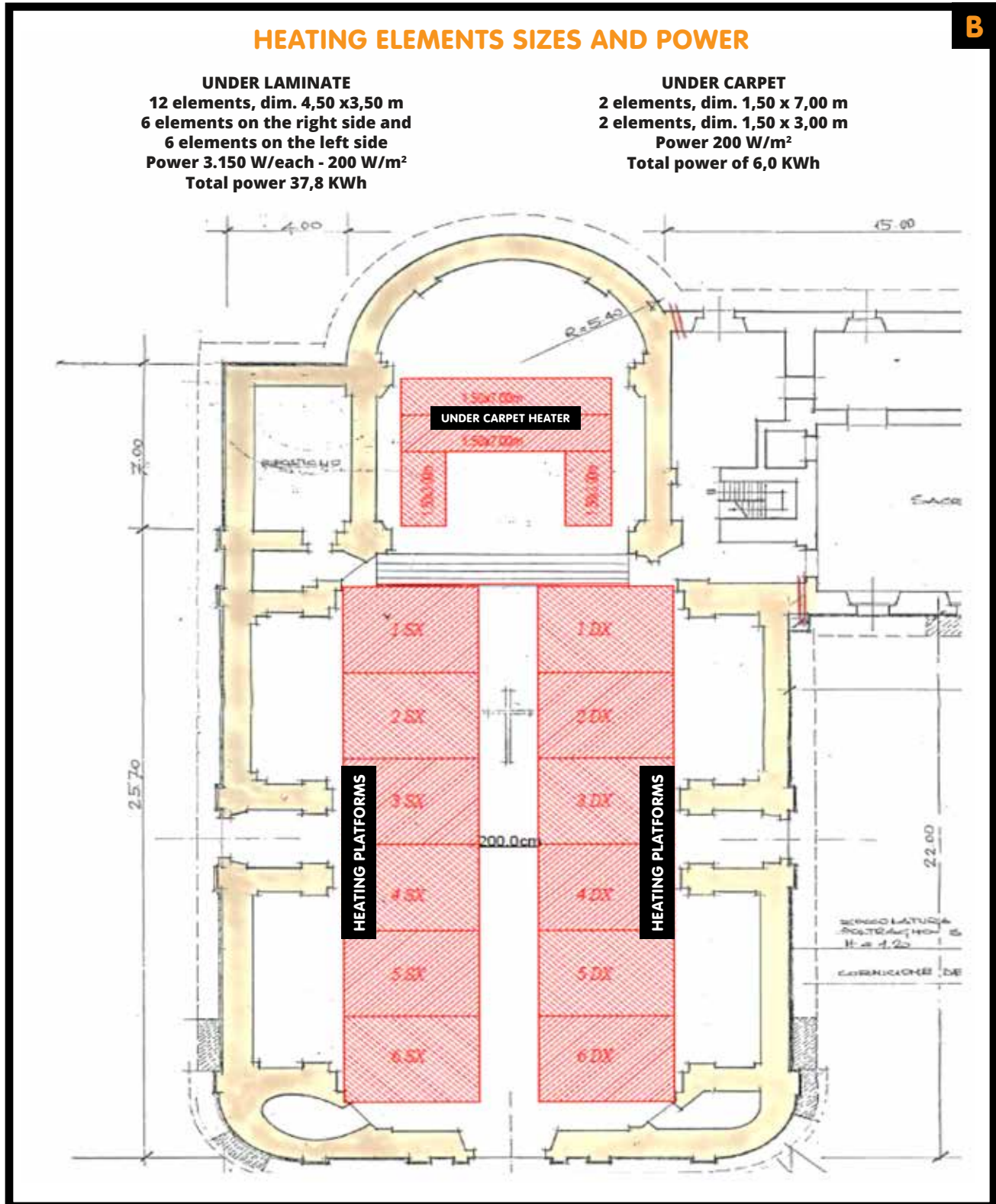
**WARNING:** installation operations must be performed by specialized personnel.

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



A

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).

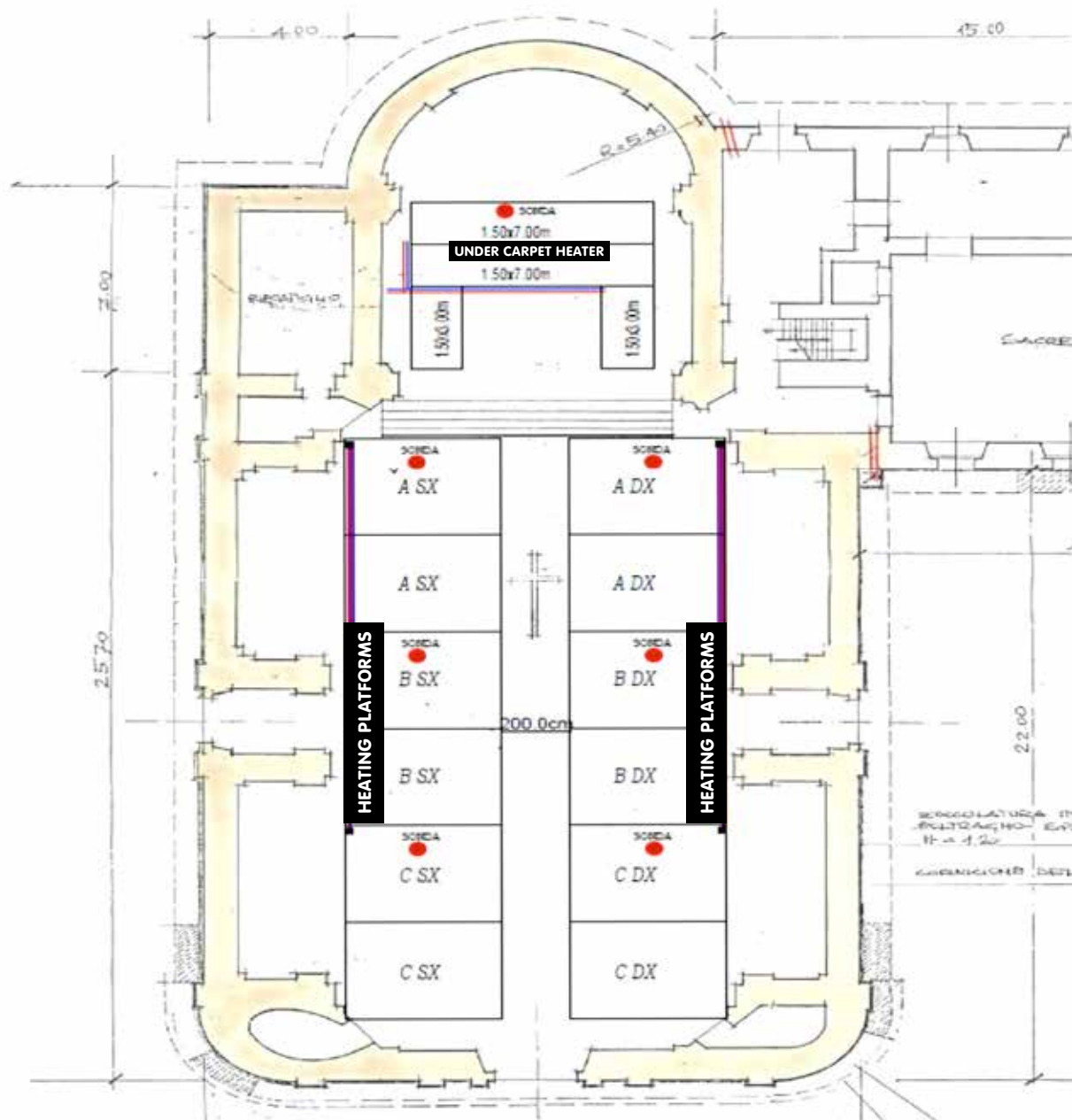


Thermal Technology powered by Carbon Fiber Heating SRL - 417075, Borş, Parc Industrial Borş, Nr. 1C, jud. Bihor, Romania  
 Phone: + 39 0423 858589 - [www.thermaltt.com](http://www.thermaltt.com) - [info@thermaltt.com](mailto:info@thermaltt.com)

## 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 - 417075, Borș, Parc Industrial Borș, Nr. 1C, jud. Bihor, Romania  
Phone: + 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 repair 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 is manufactured in conformity with the electrical safety standards set by Low Voltage Directive 2014/35/EU. This product is in conformity with Electromagnetic Compatibility Directive 2014/30/EU, concerning the standards for electromagnetic emissions.



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 - 417075, Borş, Parc Industrial Borş, Nr. 1C, jud. Bihor, Romania  
Phone: + 39 0423 858589 - [www.thermaltt.com](http://www.thermaltt.com) - [info@thermaltt.com](mailto:info@thermaltt.com)**