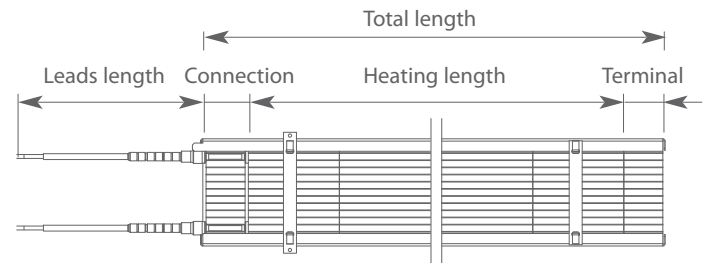


Customer made heating elements .

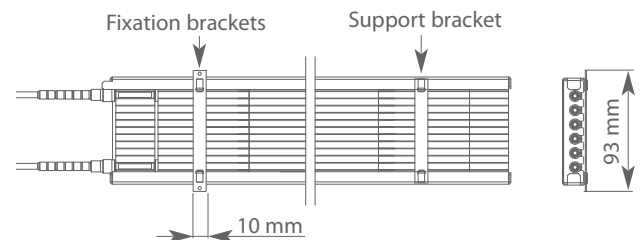
- Max. watt density over the surface of the heater : 7 W/cm².
- Max. temperature on the strip heater : 900°C on the heating wire, according to the conditions using.
- Width : 83mm . Tolerance : -1/+2 mm.
- Total length : from 90 to 2000 mm. Tolerance : ± 2 mm.
 - Mini. length of the connection : 30 mm
 - Imperative heating length : 30, 60, 70, 90, 100, 120 mm. Beyond these dimensions, heating length by multiple of 10 mm.
 - Mini length of the terminal : 30mm.
- Thickness : 18 mm (set dimension). Tolérance : ± 1 mm.
- Standard metal frame in standard stainless steel sheet. (inconel in option, for high temperature).
- Electrical insulation with heat resistant ceramic elements.
- Connection :
 - Nickel core leads, insulated with silicone glass silk.
 - Length : 470mm, 100mm of which are under ceramic pearls.
 - Orientation :
 - same side, in the thickness
 - to 90° of the heating element
 - Number of leads : 2,3,4 or 6 according to the voltage.
 - Earth wiring by faston cable lug fixed on the metallic frame
- Voltage : 230 V or 400V. Other voltage on request.
 - Single phase : termination 2 and 4 leads ;
 - Three phases : termination 3 and 6 leads .
 - Termination 6 leads : three phase, switchable 230V/400V.
- Stainless steel fixation brackets : holes diam. 2.5 mm spaced out 88 mm. (Number of brackets depending on the length of the heater). Other fixation type upon request.
- Manufacturing according to the standard EN 60335-1
 - Wattage tolerance : +5%-10%
 - Leakage current < 0.75 mA/kW
- Special manufacturings :
 - Adding of a non-heating area between connection and heating area.
 - Define a ceramic strip heaters type radiant, refer to the application form p10. .



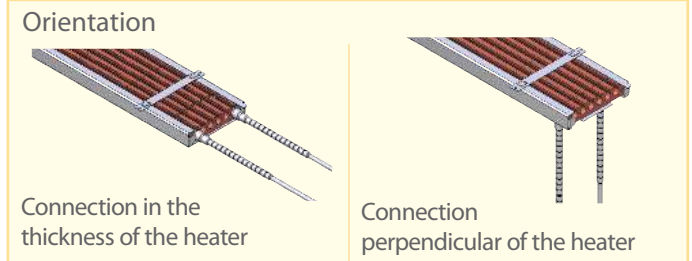
- Dimensional of a ceramic strip heater :



- Heater support



- Connection



- Application

View of the inside of a tunnel heated by ceramic strip heaters type radiant



USING RECOMMANDATIONS FOR CERAMIC STRIP HEATERS

Information for ceramic heating elements type radiant and rigid.

- The heating elements can be set up in horizontal mounting (recommended) or in vertical mounting (consult us). In vertical position, the leads tends to sink. Position to use with caution, according to the loading on the lead, the operating temperature and the heating power.
- The heating elements must not be clampé because of the dilatation in high temperatures.
- The heating elements have to be protected from any form of external contamination because the absence of protection of the lead could imply short-circuit.
- Do not use the ceramic heating elements type radiant in corrosive atmospheres which could attack the heating wire.