



# Icefree Sapphire Ltd - Door Heater Systems

The purpose of the Icefree door heater is to facilitate the opening of doors on low temperature cold stores, by preventing the formation of ice on the door frame surfaces.

The Icefree door heater consists of a thin strip of stainless steel sandwiched within a polyester envelope. Standard stainless steel strip widths are 6, 12.5 and 25mm.

To overcome the problem of securing the heating tape to the surface of the metal back plate, double sided adhesive tape is used.

One surface adheres to the back plate, the outer surface is then available on which to stick the heater tape. The installation is completed by applying a cushioning layer of paper tape, and then the cover plates are laid over and secured with wood screws.

**Please confirm to Icefree when ordering whether Aluminium or Timber Frame.**

**Complete System Back Plate Cover Plate C/Box Must be Earth Bonded**



**FOUR SIDED  
USING 12.5 OR 25mm  
HEATER TAPE**

Electrical terminations are made in a box containing suitable clamp connectors, the box being fitted just above or to one side of the heating tape line.

To energise the heater tape, a double wound transformer is needed. This has a number of voltage tapings, of very low value, to give the selected amount of heat.

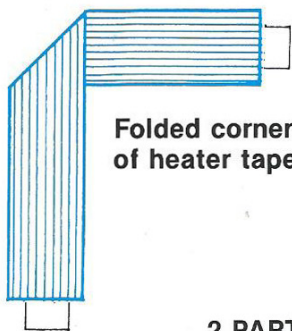
To help obtain correct loadings a data sheet is fitted inside each transformer lid.

The transformer is housed in a white steel case containing an illuminated mains switch and a secondary circuit breaker.

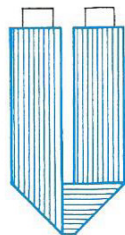
At an extra cost a low voltage light can be fitted in secondary circuit.



**THREE SIDED  
USING 12.5mm  
HEATER TAPE AND  
SEPARATE HEATER  
IN THRESHOLD.  
(Options listed below)**

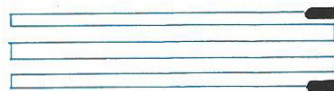


**Folded corner  
of heater tape**



**Folded corners  
at bottom of a  
double tape  
run. (12.5mm)**

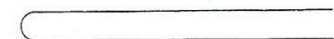
**A) Wire buried in threshold**



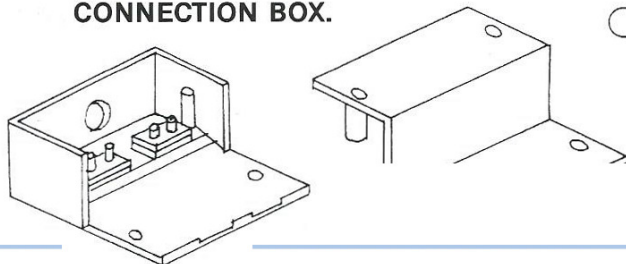
**B) Heater tape on base of door  
(with soldered on cold tails)**



**C) Braided cable in gasket on  
base of door.**



**2 PART HEATER TAPE  
CONNECTION BOX.**



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