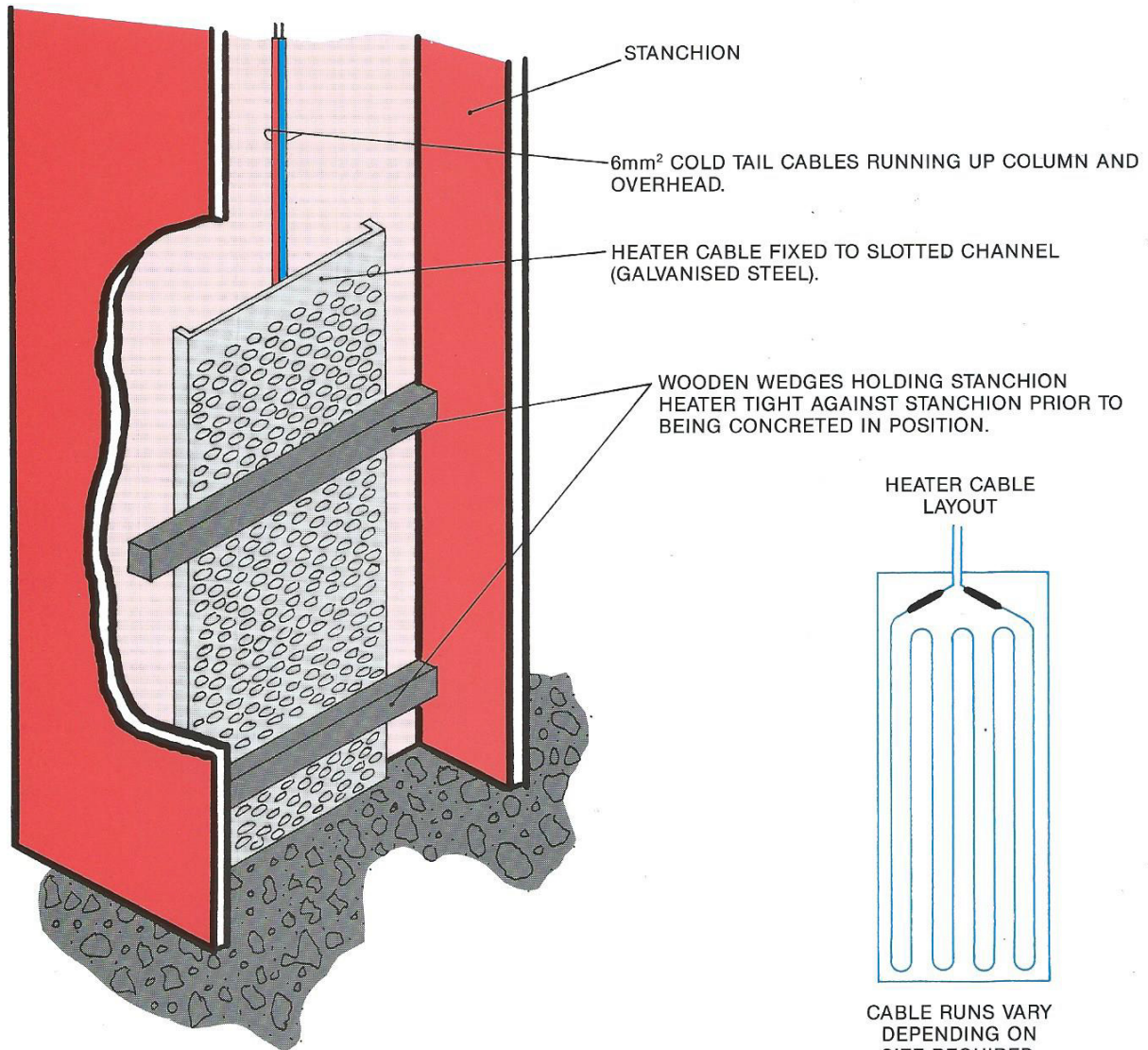


Icefree Sapphire Ltd - Stanchion Heaters



PURPOSE: TO OFF-SET LOSS OF HEAT FROM GROUND AROUND BASE OF STEEL COLUMN WHICH COULD CAUSE PERMAFROST.

METHOD: STANCHION HEATER IS PRESSED TIGHT AGAINST STANCHION BY MEANS OF WOOD OR OTHER WEDGE AND THEN CONCRETED IN POSITION.
CONCRETE HELPS TO DISSIPATE HEAT TO THE STANCHION, AND SEPARATES HEATER FROM INSULATION.

STANCHION MUST BE INSULATED TO AT LEAST 1.5 METERS, OTHERWISE HEAT WILL BE DISSIPATED USELESSLY INTO THE COLDSTORE.

DETAILS: BOTTOM OF HEATER PLATE RESTS AT HEATER MAT LEVEL.
SERIES CONNECTION OF TWO OR MORE HEATERS IS BY 6mm² CABLES WHICH MUST BE SUITABLY PROTECTED.
SYSTEM OPERATES AT VERY LOW VOLTAGE.
MAXIMUM OPERATING CURRENT AT VERY LOW VOLTAGE IS ABOUT 13 AMPS.
LOADING VARIES WITH STANCHION SIZE BUT WOULD NORMALLY NOT EXCEED AROUND 150 WATTS PER STANCHION.
HEATING ELEMENT IS 3.15mm PVC SHEATHED STAINLESS STEEL.