

When Coldbuster is installing your floor heating (only if specified in the quote/invoice):

- our installation includes placement of heaters and preparation of floor sensors and cold tails only;
- we require that areas be made ready for the heating installation so that all heaters can be installed in one site visit, unless otherwise instructed
- your electrician must prepare the conduits before our arrival (except in certain circumstances); and
- your electrician must connect the heaters and floor sensors to the thermostats and connect the thermostats to the power following our installations.

The following must be completed before the installer is due to arrive:

- conduits set up as per below diagram
- any grinding or sanding required to ensure a flat level surface
- all floors swept and clean of building materials
- for under tile/timber/laminate heating: any substrate/screed/slab on which the heating is to be placed should be prepared/installed minimum 48 hours before our arrival. The floor must be completely dry
- for under carpet heating: the underlay should be in place
- for in-slab heating: all walls, counters, staircase/shower bases, etc. must be marked with spray paint

Where a site is not ready for installation as required:

- an additional \$220 service call fee will be charged if another visit is required; and/or
- \$132/hour will be charged if waiting time is required before we can begin installation

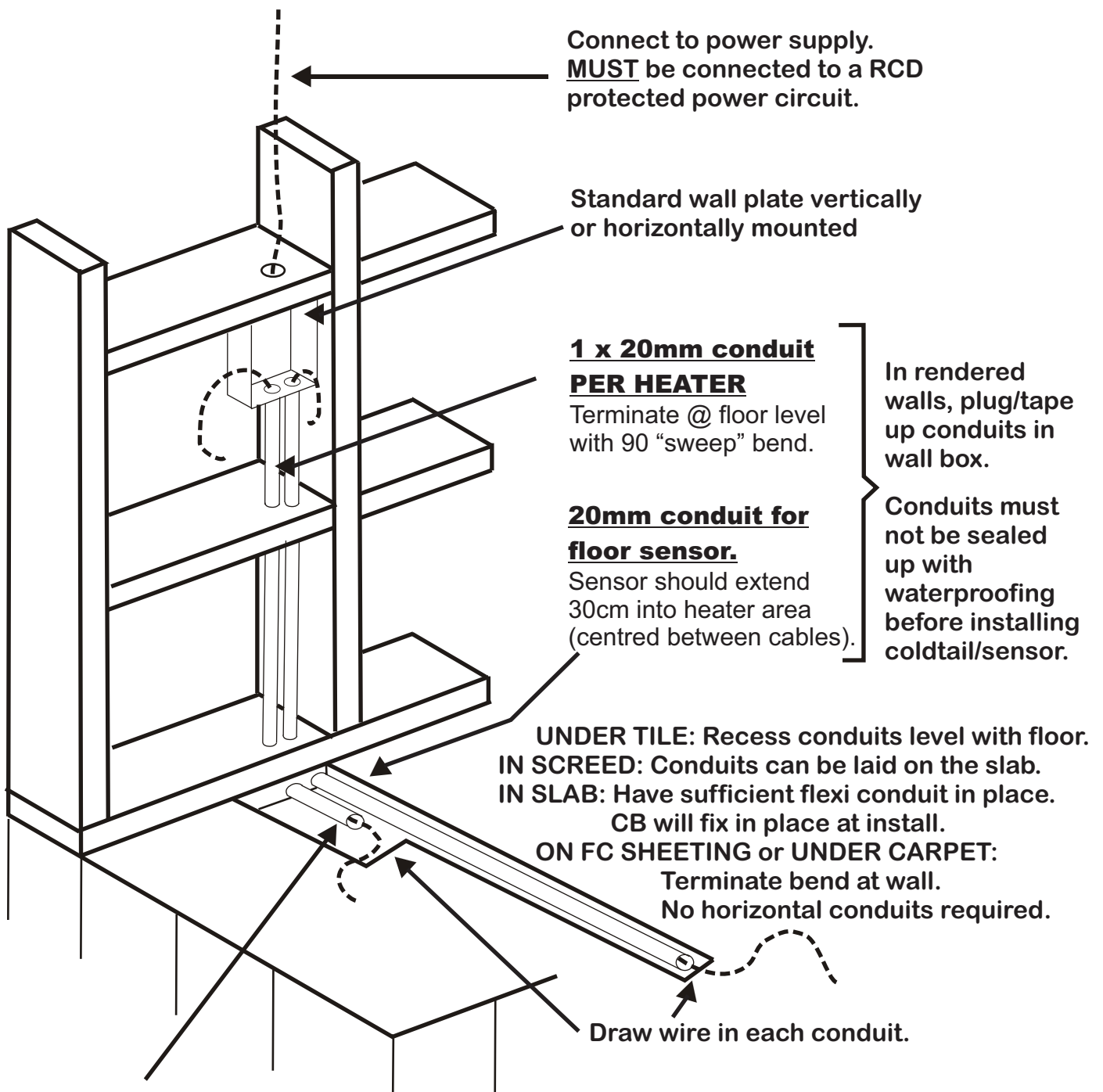
## **ELECTRICAL WORK** (to be undertaken by your electrical contractor):

- We provide a diagram of the power supply and electrical connection options for supply of power to the heaters. Please pass this onto your electrician.
- Conduits or draw wires for the hardwire connection must be completed prior to the heater installation. 1 x 20 diameter conduit is required per heater and 1 x 20 diameter conduit for the floor sensor in solid brick walls; draw wires in cavity walls. See conduit detail diagram provided.
- A Contactor is required when required thermostat load exceeds 16Amps. Coldbuster provides a 20Amp contactor to connect behind thermostat (extra space required) when heater load falls within Coldbuster thermostat and contactor limits. Otherwise, client's electrician to provide a DIN rail mounted contactor.
- The electrical supply must be from an existing or new power circuit that is earth leakage (RCD) protected. This is typically to a General Power Outlet (GPO) circuit. The power supply must be sufficient for the floor heating load.
- Fit off & connection of the thermostat is NOT included in the quote. Thermostats must be fitted by an electrician after testing the power circuits.

It is important to ensure that any existing electrical circuits, cabling and RCDs are working and capable of handling the electrical load for each thermostat as shown on the layout.

# ELECTRICAL CONNECTION DETAIL

## CONDUIT & WIRING TO BE INSTALLED BY THE CLIENT'S ELECTRICIAN



Allow a recessed space of 100 x 100 x 15mm per conduit.

**Heating must be on circuits that are Earth leakage protected.  
Thermostat fitoff to be carried out by site electrician**

**COLDBUSTER**  
*floor heating*

**Any Questions ? Please Contact  
COLDBUSTER on 1800 85 75 65**

After all preparations have been completed and required conduits are in place, the installer can attend the site to lay the heating.

We suggest installing the heating as late as possible before the floor is laid or screed/concrete is poured to further reduce the already very slight risk of damage post install (obviously the longer floor heating is exposed, the higher the possibility of someone doing something silly causing damage).

The heating cable or mat (depending on which type of floor heating) will be laid and the cold-tails and floor sensor will be run up through the conduits that were prepared by your electrician beforehand.

An alarm/monitor will be connected to the cold-tails after they have been brought up through the conduits. Once turned on, a light goes on. Assuming there is no siren, the heaters are working.

The alarms are run on a 9v battery and have a lifespan of a few days once turned on. The alarm/monitor must stay in a working state so if screeding and/or tiling & grouting have not been completed and the battery light goes out, the batteries must be replaced.



## FOLLOWING INSTALLATION

The alarm/monitor is NOT to be disconnected from the heat cables at any time until the electrician has attended to connect the thermostats.

Ideally the flooring should be laid as soon as reasonably possible following the floor heating installation.

**UNTIL FLOORING IS COMPLETELY LAID,  
NO OTHER TRADES SHOULD CARRY OUT WORK IN AREAS  
WHERE UNDER FLOOR HEATING HAS BEEN INSTALLED.**

If damage occurs before the thermostat is connected (and while the alarm/monitor is still connected and turned on), the alarm/monitor will sound. All works must STOP IMMEDIATELY and Coldbuster should be contacted at 1800 85 75 65.