



PLATED SYSTEM

SUITABLE FOR JOISTED FLOORS

Our Plated system is a popular choice for both retro-fit and new build projects where timber joists have been installed. The plates, constructed from aluminium, are 395mm wide and are designed to fit on to timber joists set at the standard 400mm centres. They come pre-grooved to accept 16x2mm PERT-AL- PERT pipe which sits below the top line of the joists.

As the plates only measure 0.5mm thick, the impact on the overall floor makeup is minimal, and the chipboard/plywood floor deck can be laid on top as normal. For optimum efficiency, we recommend either mineral wool or rigid board insulation is fitted between the joists to minimise downward heat losses.

The plates are available in a range of spacing profiles which offer different levels of heat output, meaning the system is suitable for oil/gas boiler systems as well as most renewable heat sources.

This system typically has a lower overall heat output per m² compared to our other systems due to the additional thermal resistance of the timber floor deck. If a final floor finish with a high tog rating is to be fitted, we would recommend using our Overfloor EPS system, particularly when in conjunction with a heat pump.



The plates are securely nailed to the top of the joists to prevent movement. The pipe work is then installed into the plates and further secured with hammer in fixings.

Once complete, the system is pressure tested, checked and signed off. It is then left under this pressure test while the timber deck is installed to ensure no accidental damage occurs.

