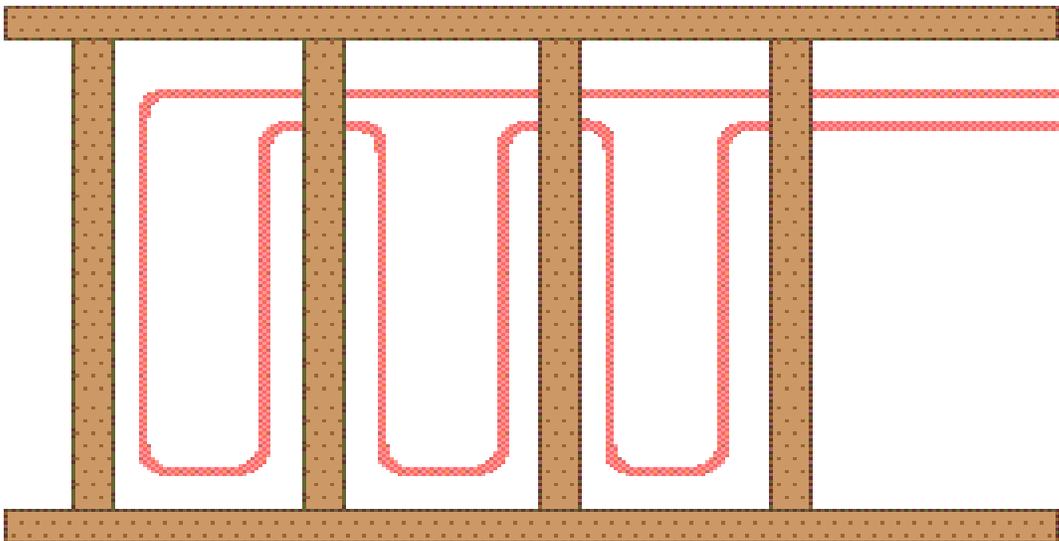


Walls

There are several good reasons to install radiant heat within the walls of a structure.

1. Radiant wall heating can be used to supplement the building's heating needs if there is doubt that floor heating alone will be adequate.
2. Radiant wall heating can greatly increase the comfort level of a room, particularly in a bathroom.
3. Radiant wall heating can solve moisture problems caused by high humidity in areas like bathrooms, locker rooms and indoor pools and spas, etc.



Tubing is placed within the cavity of a partition wall. It is preferable to use an *interior* partition wall in order to minimize heat loss to the outside, but exterior walls can be heated if a high level of insulation is provided.



Drill holes in the partition stud for the heating tubes and also for a return pipe if needed.

Install strapping to support foam insulating board with a reflective foil surface.



Install the foam insulation with the reflective side facing towards the heated area.



Run the tubing in the spaces within the partition walls.



Do not kink the tubing. It is permissible to cross the tubing.

You can use preformed aluminum fins for two tubes from Radiantec Company or you can form your own using flat stock, also available from Radiantec Company.



Wrap the aluminum fins around the tubes so that some of the aluminum fin is in contact with the partition stud and some is in contact with the air.

Try to cover about half of the heating tubes with aluminum fins.



Copyright 2003, Robert J. Starr

Revised on
1/18/04