

Information on Mat Systems

GS Underfloor Heating Company's mat systems have all been designed to meet class 2 standards with an earth braid, allowing them to be used on any sub-floor and in any room. There are three layers of insulation around the heating cables making them the finest systems available. All the systems have been rigorously tested and with an output of 10 watts per linear metre surpass all European and International standards for use on timber or solid sub-floors. The heating systems are comprised of fixed lengths of heating cable stitched into fabric mats with 4m long, class 2 connection cables for easy installation. GS Underfloor Heating systems are designed for use under tiled floors, but can with the correct guidance, be installed under other floor coverings.

Read the 9 rules to ensure your heating system is fitted correctly

1. Never cut the heating element wire.
2. Heating elements must be protected by an R.C.D at all times.
3. Never leave excess heating mat rolled up under units or fixtures (if the mat is too long, return it to your place of purchase and replace it with a smaller size).
4. Never run the cold leads (connection leads) underneath or across the heating element wires.
5. Never cross or overlap the heating wires.
6. Do not switch the system on for at least 2 weeks after fitting the floor finish; you need to wait for the adhesives/latex/grout to dry naturally.
7. Do not cut or prepare tiles on top of the fitted heating system when other work is going on in the room, avoid damage by keeping the heating covered until you are ready for the final floor finish to be put down.
8. The cables should never be spaced at intervals closer than 5cm or further than 10cm apart.
9. Only a qualified electrician should connect the heating element to the mains.

Testing the system resistance

We recommend that you test the system resistance before you start the installation, then as you finish the installation before the tiles are put down. To take a reading set your meter to the ohms position on the lowest setting (normally 200 or 2000 ohms). Hold one of the probes on the blue centre cable and one on the black centre cable.

You have now completed the continuity test. There is a possibility of a degree of variance in the readings that you may take in the course of the installation, as long as this is not too significant you should not worry too much as it can be affected by moisture and other factors. In the unlikely event that accidental damage has occurred during the installation of the mat this will show up when you put the meter at its highest ohms setting (20 or 200 million ohms), place one probe on either the black or blue centre cable and the other probe on the earth screen, making sure that the cables at the other end of the system are not touching each other. Do not hold the probes on with your fingers during this test, as this could affect the result. The reading for this test should be infinity or a blank screen.

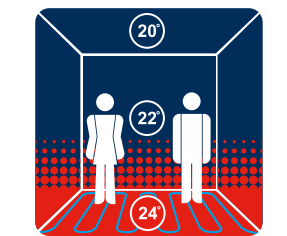
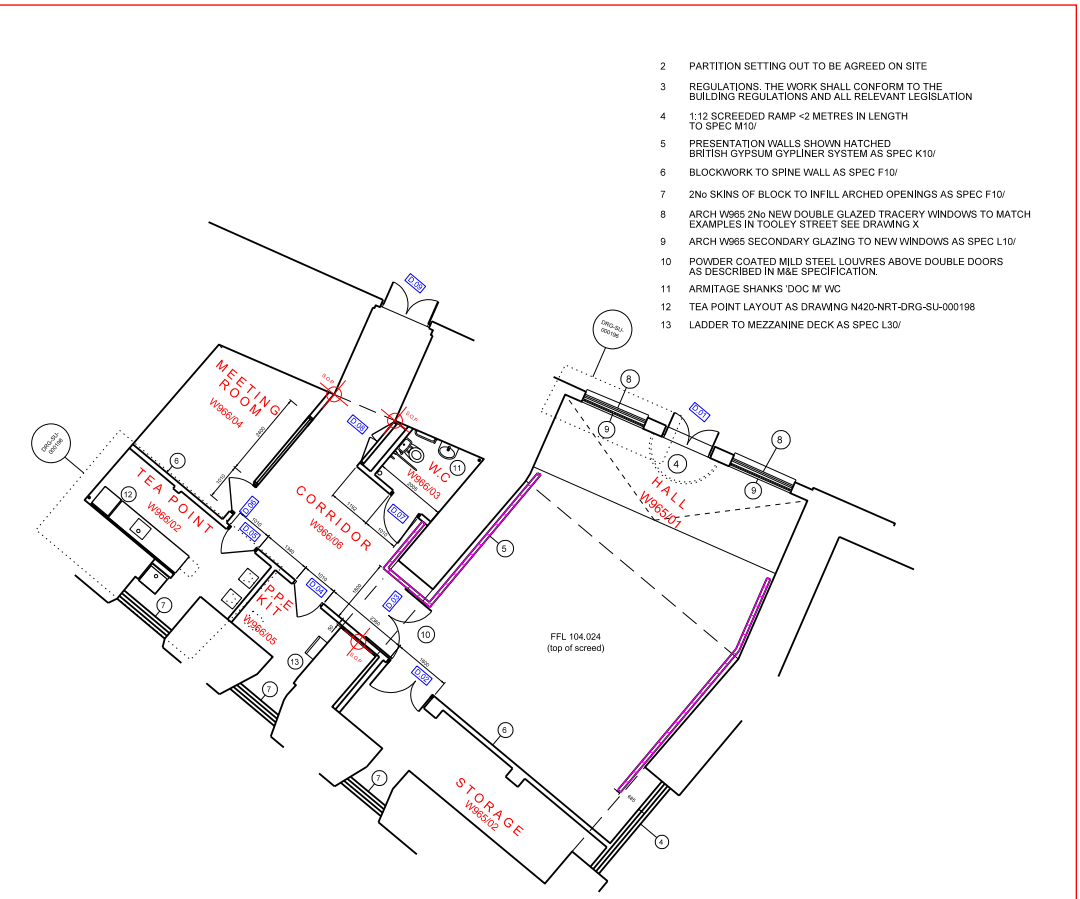
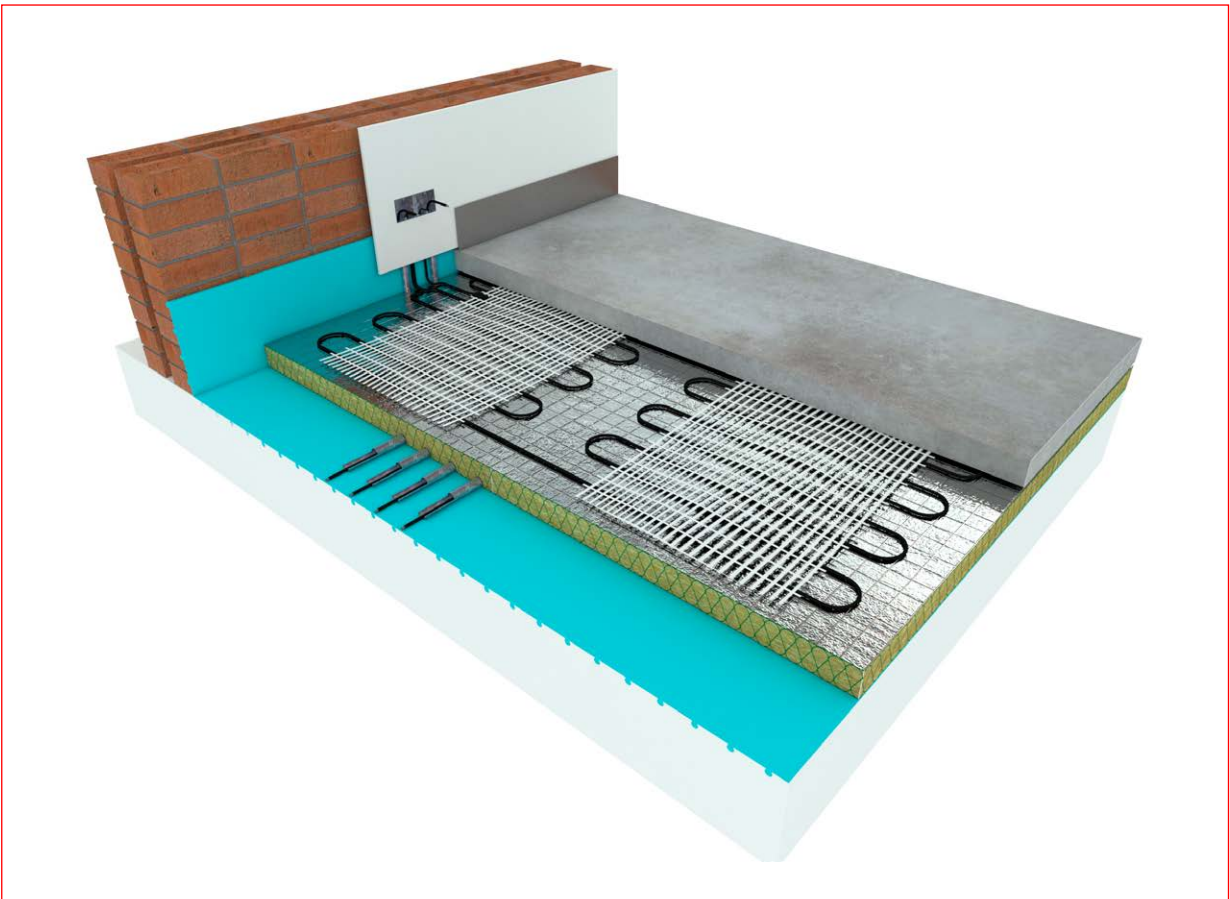
Tiling Rules & Tips

Remember to leave all adhesives to dry naturally, we would recommend waiting for two weeks before turning the heating system on. If any tiles need to be taken up for any reason we recommend that extreme care is taken to avoid damaging the heating system.

65-90mm screed floors installations

For Heating cables with in a 65-90mm screed floor, we recommend that you allow the screed to dry out naturally as to Building regulations, which is normally around 1mm per-day drying time.

Tips – to help speed up the 65-90mm screed drying time, ask your preferred screed contractor to add a quick drying additive when preparing the screed before pumping into the building. Adding a quick drying additive could dry a screed floor between 8 & 15 days



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