Heat Loss Calculations & Part LB compliance methods

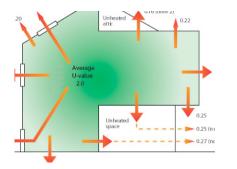


Heat Loss Calculations

Energy Saving Expertsprovide heat loss calculations for

provide heat loss calculations for different scenarios.

It may be to ascertain the heat loss of a structure through the floor, walls and roof, via the building fabric and by ventilation losses, it may be used to calculate heating loads, or it may be to demonstrate compliance with the Building Regulations.



Building regulations Part LB required different methodologies depending on if the building is to be Extended, Renovated, or Changing Use.

Extensions & Conservatories

If a conservatory is not exempt then it must have effective thermal separation from the rest of the building, if it doesn't it becomes an extension.

All extensions need to meet minimum requirements for the thermal elements, windows & doors, and for the building services. There are three ways to demonstrate the above, **Energy Saving Experts** have a report format to do this for you.

1/ To show BCB from the specification and drawings that the extension meets the minimum requirements, with particular attention to the area of glazing.

2/ Provide Area weighted U Value calculations to show that the extension as planned is no greater than one that meets the regulations.

3/ Whole building calculation by Using SAP 2009 to show that the CO2 emission rate from the building with proposed extension is no greater than for the building plus a notional extension.

Change of Use

Similarly to an extension the method to show compliance is to provide a report detailing the specification of the building, showing the U Values supported by Area Weighted U value calculations or Heat Loss calculations as appropriate.

An optional approach is to use SAP 2009 to demonstrate that the CO2 emissions from the building as it will become are no greater than if it had been improved to meet minimum standards for thermal elements, and controlled fittings and services.

Again **Energy Saving Experts** have report formats accepted for BCB submission.

Renovation

Renovation of thermal elements is usually linked to an extension or a change of use, but not always.

Therefore the means to demonstrate compliance is the same as for the those two, however, there are minimum requirements for upgrading thermal elements which are different to those for new elements. The area of the element to be upgraded is important to establish, likewise if by doing so it would have less than 15 year payback.

Energy Saving Experts will calculate all of this for you and present in a written report for BCB submission.

Experienced

Part LB, both for dwellings and commercial buildings can be confusing and complicated, just ask Building Control! We have had wide experience in gaining compliance for our clients by presenting the facts and calculations in a clear and consistent format that make it easy for BCB to check your building compliance criteria.

Leave to us, and we will make it straightforward.