

energy performance consultants
mendip energy

energy assessment that does not cost the earth



SAP assessment and air tightness testing...

SAP

Since April 2006 every new dwelling requires a SAP calculation to show the proposed dwellings energy performance in terms in CO² emissions per m² of total floor area per year for heating, hot water, ventilation and lighting. The SAP rating is expressed on a scale of 1 to 100, the higher the number the lower the running costs. SAP gives the Dwelling Emission Rate (DER) which is used to show compliance with part L of building regulations.

A PEA (Predicted Energy Assessment) is created at design stage, and at completion of construction and after passing air test (if needed) an EPC (Energy Performance Certificate) can be created as required by building regulations.

air pressure testing

why air test?

Air leakage testing will show that a dwelling will comply with Part L of building regulations.

what is part L?

Part L came into force in April 2006 and concentrates on Conservation of Fuel and Power within new dwellings. The minimum standard is 10m³/(h.m) at 50Pa.

If a property has a poor level of air tightness not only will energy costs and usage will be increased but it will create more CO² emissions. Uncontrolled draughts can cool down heated air within the building meaning a constant cycle of re-heating the property. If air leakage can be reduced, once the heating system has warmed the dwelling it will stay hotter for longer.

Gaps and cracks in the building fabric are often difficult find visually. The only satisfactory way to show the building fabric is reasonably air tight is to measure the amount of leakage over a measured time period.

The aim should be to build tight - ventilate right.

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to carry out a SAP we need ...

- working drawings
- build specification to include U values for floors, walls and roofs
- main heating system & efficiencies heating controls
- secondary heating if any
- ventilation
- air permeability
- lighting
- renewable technologies if any

If you are not sure what is required, what you need to do or you just want some help on how to achieve a certain level please get in contact with us. We are here to help.

accreditations

we realise that being able to offer a one stop shop of technical services to our clients, showing them how to unravel the mystery, and offering commercially considered solutions we are a powerful benefit to their business. This is why we work with some of the UK's best known housebuilders, developers of all sizes and manufacturers of new technologies and systems.

we have the following qualifications and accreditations:

- NHER accredited Plan assessor
- OCDEA able to issue on construction EPC's
- BINDT registered air tightness testing
- BREEAM accredited/ registered Code assessment

mendip energy, the blueprint for energy efficiency



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