DESIGNERS GUIDE TO SAP 2012

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ABOUT S-W-E-A.CO.UK

S-W-E-A (Stuart Woodward Energy Assessor) provides detailed SAP Calculations to a range of clients throughout the South West Region.

Working with S-W-E-A willl ensure you are dealing with an experienced construction professional who is also an Architectural Technologist.

THE SAP CALCULATION PROCESS

With the building industry getting more complicated every year, S-W-E-A will always endeavour to unburden our clients of the issues surrounding Approved Document Part L.

This process is complete in 3 simple steps.

STEP 1

Email your drawings to info@s-w-e-a.co.uk.
A quote will be prepared for you to approve. Once payment is made, we will start the calculation process.

STEP 2

Your project will be entered into the latest approved SAP Calculation software. If your project requires addtional measures to pass, we will confirm these with you before finalising the calculation.

STEP 3

Once the project is complete, you will be emailed a pdf copy for you to distridubte as required.

How to get a better result?

The SAP calculation methodology takes your proposed design and runs it against a notional building with certain Governemnt approved characteristics, such as; U-values, heating system, pressure test level and even the amount of glazing.

All these details are document in Appendix R of the SAP methodology which is listed below.

So when designing a new dwelling you need use the below details as a minimum in order to pass the calculation.

APPENDIX R OVERVIEW

Opening Areas	25% of the floor area
Walls	0.18W/m2k
Party Walls	0.00W/m2k
Floors	0.13W/m2k
Roofs	0.13W/m2k
Windows	1.4W/m2k
Thermal Mass	Medium (250 kj/m2k)
Thermal Bridging	0.05 W/m2k*
Ventilation	Natural with intermittent extract fans
Air permeability	5.00m3/m2/hr @50 pa
Heating system	Boiler & radiators
Boiler	89.5% (SEDBUK 2009) efficiency
Main Heating Controls	Time and temerature zone control, Boiler interlock, weather compensation +3% boiler efficiency adjustment.
Secondary Heating	None
Low Energy Lighting	100%
Air Conditioning	None.

* The default thermal bridging in SAP is 0.15 W/m2K, so to acheive 0.05W/m2k as used on the notional building you will need to adopt Accredited Construction details or lower the U-values even more then above to achieve a pass rating.

For more clarification please do not hesitate to contact to the office info@s-w-e-a.co.uk

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SAP RATING SERVICES

NEW BUILD SAPS

S-W-E-A reviews your design and completes a calculation to the latest SAP software. We always think of the costs involved with building, and will consider this when calculating.

EXTENSION SAPS

S-W-E-A provides a comprehensive report which will ensure a pass for your proposed extension without any issues from Building Control.

ON CONSTRUCTION EPC'S

S-W-E-A produces On Construction EPC's for new builds and refurbishment projects throughout the UK.

ENERGY STATEMENTS

S-W-E-A provides detailed Energy Statements which will aid you in Planning and Building Regulations.

EMAIL NOW FOR A QUOTE

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