

Notice of Approval of the methodologies of calculation of the energy performance of buildings to demonstrate compliance with the Building Regulations 2010 in Wales.

Introduction

This notice of approval sets out the national approved calculation methodologies (NCM) for calculating the energy performance of certain buildings in Wales in accordance with regulation 24 and for the purposes of regulations 25, 25C and 29 of the Building Regulations 2010 (SI 2010/2214).

This document does not apply to national calculation methodologies in England, Northern Ireland and Scotland, which are subject to separate regulatory requirements.

The notice of approval for calculating the energy performance of buildings as required by the Energy Performance of Buildings (England and Wales) Regulations 2012 is issued as a separate document by the Department for Communities and Local Government.

Notice of Approval

TAKE NOTICE that the Welsh Ministers, under regulation 24 of the Building Regulations 2010, hereby approve the methodologies listed below for the calculation of the energy performance of buildings for the purposes of regulations 25, 25C, and 29 of the Building Regulations 2010. This approval applies to building work carried out in Wales except for excepted energy buildings¹ Crown buildings, or building work by Crown authorities in Wales².

This approval takes effect on 22 June 2015 and supersedes the previous approvals which took effect from the 31 July 2014, 2 October 2014, and 30 April 2015. This approval continues in effect until withdrawn by Welsh Ministers or superseded.

This approval does not apply in respect of:

(a) building work started on site before 31 July 2014; or

(b) where a notification of building work under regulation 12(2) of the Building Regulations 2010, or sections 47(1), 50, 51A(2) or 54 of the Building Act 1984 has been given before 31 July 2014 provided that the building work is commenced on site before 31 July 2015.

In both these cases earlier versions of the methodologies may continue to be used.

The approved methodologies are:

from the 31 July 2014;

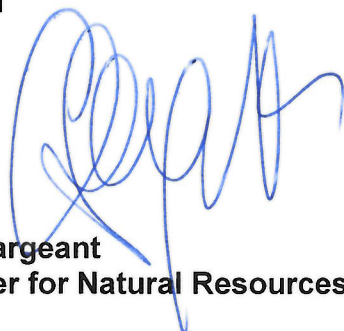
a. the UK Government's Standard Assessment Procedure (SAP) for the Energy Rating of Dwellings, 2012 edition; and

b. the UK Government's Simplified Building Energy Model (SBEM), versions 5.2; and

c. the following proprietary approved Dynamic Simulation Models (DSM)

- from the 2 October 2014;
TAS (Environmental Design Solution Limited), version 9.3
- and from 30 April 2015;
Design Simulation (Bentley Systems (UK) Ltd) version 26.1.0.0
- and from 22 June 2015;
Virtual Environment (Integrated Environmental Solutions Ltd)
version 7.0.3

Signed



Carl Sargeant
Minister for Natural Resources

¹ As defined in the Schedule to the Welsh Ministers (Transfer of Functions) (No.2) Order 2009 (S.I. 2009/3019)

² For these categories see regulation 34 of the Building Regulations 2010

Notes on the approved methodologies

This notice of approval sets out the ways of expressing the energy performance of buildings, as calculated in accordance with the methodology approved by Welsh Ministers under regulation 24, for the purposes of regulation 25 and 25C (Minimum energy performance requirements for new buildings), and regulation 29 (Energy performance certificates) of the Buildings Regulations 2010.

Software packages and interfaces

To use the approved methodologies it is also necessary to use only the approved software packages and interfaces relating to them. The currently approved software packages and interfaces are available at:

www.wales.gov.uk/topics/planning/buildingregs/publications/part-l-energy

Please note that from time to time the list at this link is revised to include new software applications or new versions of existing ones as they are approved by Welsh Ministers.

Calculating the energy performance of new dwellings

For the purposes of compliance with regulations 25, 25C(b), 26, 26B, 27 and 27B of the Buildings Regulations 2010, the target CO₂ emission rate, target fabric performance value, calculated CO₂ emission rate for the dwelling as designed and constructed and calculated fabric performance value for the dwelling as designed and constructed shall be calculated using SAP 2012. The asset rating of the dwelling for the purposes of providing an energy performance certificate under regulation 29 of the Building Regulations shall also be calculated using SAP 2012.

Calculating the energy performance of new buildings other than dwellings

For the purposes of regulations 25, 25C(a), 26, 26A, 27 and 27A of the Building Regulations the target CO₂ emission rate, target primary energy consumption rate, calculated CO₂ emission rate for a building other than a dwelling as designed and constructed and calculated target primary consumption rate for a building other than a dwelling as designed and constructed shall be calculated using SBEM version 5.2 or an approved DSM. The asset rating of a building other than a dwelling for the purposes of providing an energy performance certificate under regulation 29 of the Building Regulations 2010 shall be calculated using SBEM version 5.2 or an approved DSM.

Approval of commercial software calculation tools

Applications may be made to Welsh Ministers for approval of software packages to form part of the methodology for the calculation of the energy performance of buildings, such as:

- a. software applications of SAP;
- b. software interfaces with SBEM;
- c. Dynamic Simulation Models (DSMs).

To be approved, the software tool must be validated against a set of published criteria to ensure it operates in a manner and to a standard consistent with the NCM before it can be approved by Welsh Ministers. The criteria for approval and the procedures for applying for approval may be obtained from:

Building Regulations
Welsh Government
Rhydycar
Merthyr Tydfil
CF48 1UZ.
Email: enquiries.brconstruction@wales.gsi.gov.uk