

SAP 10 Version history

Date	Version name	Description and changes relative to previous version
24-07-2018	SAP 10.0	First published version of SAP 10 (based on SAP 2016, but with changes made following the SAP 2016 consultation).
08-11-2019	SAP 10.1	Version referred to in Future Homes Standard consultation.
20-08-2021	SAP 10.2	<ul style="list-style-type: none"> Results from low pressure pulse testing allowed for in the calculation of infiltration rate. Appendix (Summer heat gain check) removed. Efficiency of waste-water heat recovery made to vary with shower flow rate. Option to add new heating control types via PCDB added. Appendix C (heat networks) removed while changes consulted on. Boiler efficiency controls/temperature adjustments updated (Tables D1, D2 and D3 and G1). Appendix R (reference dwelling characteristics) updated to align with ADL1. Fuel prices updated (Table 12).
15-12-2021	SAP 10.2	<ul style="list-style-type: none"> New heat network procedures added via updated Appendix C, following government consultation.
17-12-2021	SAP 10.2	<ul style="list-style-type: none"> Heat network fuel factors corrected.
03-02-2022	SAP 10.2	<ul style="list-style-type: none"> Heat networks calculation corrected to properly account for the secondary fraction. Second condition for top-up lighting requirement (equation L7) corrected (comparison was the wrong way round). Open flues ventilation rate on the worksheet corrected from 35 back to 20 (this had been changed erroneously in the spec).
17-03-2022	SAP 10.2	<ul style="list-style-type: none"> In Section 9.3.2, clarification on heat pump interpolation at different design flow temperatures provided. In Section C3.1, a diagram was added showing input options for Heat networks in SAP 10. In Section G1.2, FGHR energy saving with heat store (equation G2 and method) corrected (control factor was the wrong way round and the text implied multiplying savings by control factor twice). In Table R1, the winter and summer boiler efficiencies now explicitly stated. Title of Table 4d updated to include electric boilers and heat pumps.
21-04-2022	SAP 10.2	<ul style="list-style-type: none"> Instruction added to section 2.3 requiring SAP software to limit the air permeability rate in naturally ventilated dwellings to not less than 3 m³/hr/m² at 50Pa, or the equivalent for a low-pressure test, when used for building regulations compliance assessments. Clarified in Worksheet sections 12a, 12b, 13a and 13b the need to split into on/off peak fractions to before applying CO2/PE factors from Tables 12d and 12e.

11/04/2023	SAP 10.2	<ul style="list-style-type: none">• Existing heat networks may now be assessed against either the standard notional building (new option) or versus the same heat network.• Correction of heat networks fuel prices in Table 12.• New distribution loss factor for two dwellings sharing a single heating system in Table 12c.
14/03/2025	SAP 10.2	<ul style="list-style-type: none">• Limited tolerance in cases of software error added to Section 15.