

ASTSOTV1

Recognise the age, nature and characteristics of older and traditional buildings



Overview

This standard is about understanding traditional buildings, in terms of their age, heritage values and significance, construction, condition and thermal performance, and the implications of these for the introduction of energy efficiency measures. Older and traditional buildings are also identified as “vulnerable buildings” in certain instances

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Performance criteria

- You must be able to:*
- P1 establish the age of a building which puts it in the category of older or likely to be of traditional construction and the implications for the introduction of energy efficiency measures
 - P2 recognise the heritage values and significance of the building
 - P3 identify the construction of older and traditional buildings and all materials used with specific reference to;
 - P3.1 roofs
 - P3.2 walls including internal and external finishes
 - P3.3 floors
 - P3.4 openings- windows and doors
 - P3.5 chimneys and fireplaces
 - P4 identify the types of heating and ventilation systems in the building and the implications these have on the introduction of energy efficiency measures
 - P5 explain the implications of common building defects for energy efficiency measures including:
 - P5.1 damp, salts and causes of dampness: rain penetration, rising damp, internal moisture vapour and damaged services
 - P5.2 structural defects
 - P6 identify the way older and traditional buildings perform with specific reference to:
 - P6.1 how the performance of traditionally constructed buildings differs to modern construction
 - P6.2 the breathability and permeability characteristics of traditional building fabric
 - P6.3 the geographical location, aspect, orientation and the differing exposure of individual elevations
 - P7 identify how alterations since the original construction affect the thermal performance of the building as defined in P5
 - P8 explain how conservation principles are applied to older and traditional buildings
 - P9 identify local and regional variations of traditional buildings and materials
 - P10 make a judgement where there is insufficient knowledge or evidence present and refer to a specialist or recommend further analysis or investigation

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Knowledge and understanding

You need to know and understand:

- K1 ways of establishing the age of older and traditional buildings
- K2 the types of construction of older and traditional buildings and the implications these have on the introduction of energy efficiency measures with specific reference to:
 - K2.1 roofs
 - K2.2 walls including internal and external finishes
 - K2.3 floors
 - K2.4 openings – windows and doors
 - K2.5 chimneys and fireplaces
- K3 ways of judging when there is insufficient knowledge or evidence present and appropriate forms of further analysis and investigation and how to identify and refer to specialists
- K4 different types of heating and ventilation systems and the implications these have on the introduction of energy efficiency measures
- K5 ways of establishing the condition of older and traditional buildings
- K6 common building defects and their implications for the introduction of energy efficiency measures buildings with specific reference to:
 - K6.1 damp, salts and causes of dampness: rain penetration, rising damp, internal moisture vapour and damaged services
 - K6.2 structural defects
- K7 the effect of the geographical location, aspect, orientation and the differing exposure of individual elevations on the way older and traditional buildings perform
- K8 how the performance of traditionally constructed buildings differs to modern construction
- K9 the 'breathability' and 'permeability' characteristics of older and traditional buildings and their implications for the introduction of energy efficiency measures
- K10 how alterations since the original construction affect the performance of the building
- K11 how to identify the heritage values and significance of older and traditional buildings
- K12 how to apply Identify and apply appropriate conservation principles to older and traditional buildings in relation to the introduction of energy efficiency measures
- K13 local and regional variations of older and traditional buildings and materials
- K14 ways of establishing the level of air tightness of a traditional, older or vulnerable building
- K15 how to identify local and regional variations of traditional buildings and

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materials

K16 how materials degrade and deteriorate over time

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Suite Energy advice & reporting for traditional properties

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