
Overview

This standard is about recognising the age, nature and characteristics of older and traditional buildings. This includes their 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.

You must understand and work to the requirements of each devolved nation.

Performance criteria

You must be able to:

1. establish the age of a building and the implications for the introduction of energy efficiency measures
2. recognise the nature and characteristics of the building, its heritage values and significance
3. identify the construction of older and traditional buildings and the materials used
4. identify the types of heating and ventilation systems in the building and the implications these have on the introduction of energy efficiency measures
5. explain the implications of common building defects for energy efficiency measures
6. identify the way older and traditional buildings perform
7. identify how alterations since the original construction affect the thermal performance of the building
8. explain how conservation principles are applied to older and traditional buildings
9. identify local and regional variations of traditional buildings and materials
10. refer to a heritage specialist or recommend further analysis or investigation when required

Knowledge and understanding

You need to know and understand:

1. the ways of establishing the age of older and traditional buildings
2. how to recognise the nature and characteristics of the building, its heritage values and significance
3. 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 roofs, walls including internal and external finishes, floors, windows and doors, chimneys and fireplaces
4. the types of heating and ventilation systems and the implications these have on the introduction of energy efficiency measures
5. the ways of establishing the condition of older and traditional buildings
6. the common building defects and their implications for the introduction of energy efficiency measures
7. the effect of the geographical location, aspect, orientation and the differing exposure of individual elevations on the way older and traditional buildings perform
8. how the performance of traditionally constructed buildings differs to modern construction
9. the 'breathability' and 'permeability' characteristics of older and traditional buildings and their implications for the introduction of energy efficiency measures
10. how alterations since the original construction affect the performance of the building
11. how to identify the heritage values and significance of older and traditional buildings
12. how to identify and apply appropriate conservation principles to older and traditional buildings in relation to the introduction of energy efficiency measures
13. how to identify local and regional variations of traditional buildings and materials
14. how the materials degrade and deteriorate over time
15. the range of heritage specialists to refer to and the types of further analysis or investigation required

Scope/range

Age of a building:

- which puts it in the category of older or likely to be of traditional construction

The construction of older and traditional buildings and all materials with specific reference to:

- roofs
- walls including internal and external finishes
- floors
- openings- windows and doors
- chimneys and fireplaces

Common building defects:

- dampsalts and causes of dampness
- rain penetration
- rising damp
- internal moisture vapour
- damaged services
- structural defects

The way older and traditional buildings perform:

- the performance of traditionally constructed buildings differs to modern construction
- the breathability and permeability characteristics of traditional building fabric
- the geographical location, aspect, orientation and the differing exposure of individual elevations

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