

SCHEDULE 5

BUILDING STANDARDS APPLICABLE TO DESIGN AND CONSTRUCTION

SECTION 6: ENERGY

Policy

6.1. Every building must be designed and constructed in such a way that provision is made for energy conservation in accordance with the Building Standards Circular on Energy, 2004.

Building insulation envelope

6.2. In order to comply with standard 6.1 every building must be designed and constructed in such a way that the insulation envelope resists thermal transfer.

Limitation

This standard does not apply to—

- (a) buildings, other than dwellings, which will not be heated nor cooled, other than heating provided for the purpose of frost protection; or
- (b) buildings which are ancillary to a dwelling which will not be heated, other than heating provided for the purpose of frost protection.

Heating system

6.3. In order to comply with standard 6.1 every building must be designed and constructed in such a way that the heating and hot water service systems are designed, installed, and capable of being controlled to achieve optimum energy efficiency, having regard to the thermal transfer of the insulation envelope.

Limitation

This standard does not apply to—

- (a) buildings which do not use fuel or power for controlling the temperature of the internal environment;
- (b) buildings, or parts of a building, which will not be heated, other than heating provided for the purpose of frost protection;
- (c) heating provided for the purpose of frost protection; or
- (d) individual, solid-fuel stoves or open-fires, gas or electric fires or room heaters (excluding electric storage and panel heaters) provided in domestic buildings.

Insulation of pipes, ducts and vessels

6.4. In order to comply with standard 6.1 every building must be designed and constructed in such a way that temperature loss from heated pipes, ducts and vessels, and temperature gain to cooled pipes and ducts, is resisted.

Limitation

This standard does not apply to—

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- (a) buildings which do not use fuel or power for heating or cooling either the internal environment or water services;
- (b) buildings, or parts of a building, which will not be heated, other than heating provided for the purpose of frost protection;
- (c) pipes, ducts or vessels that form part of an isolated industrial or commercial process; or
- (d) cooled pipes or ducts in domestic buildings.

Artificial and display lighting

6.5. In order to comply with standard 6.1 every building must be designed and constructed in such a way that artificial or display lighting must operate and be capable of being controlled to achieve optimum energy efficiency.

Limitation

This standard does not apply to—

- (a) process and emergency lighting components of a building; or
- (b) domestic buildings.

Mechanical ventilation and air conditioning

6.6. In order to comply with standard 6.1 every building must be designed and constructed in such a way that the form and fabric of the building minimises the use of mechanical ventilating or cooling systems for cooling purposes, and the ventilating and cooling systems are designed, installed, and capable of being controlled to achieve optimum energy efficiency.

Limitation

This standard does not apply to—

- (a) domestic buildings; or
- (b) buildings which do not use fuel or power for ventilating or cooling the internal environment.

Commissioning building services

6.7. In order to comply with standard 6.1 every building must be designed and constructed in such a way that services which use fuel or power for heating, lighting, ventilating and cooling the internal environment and heating the water, are commissioned to achieve optimum energy efficiency.

Limitation

This standard does not apply to—

- (a) the process and emergency lighting components of a building;
- (b) heating provided for the purpose of frost protection; or
- (c) lighting, ventilation and cooling systems in a domestic building.

Written information

6.8. In order to comply with standard 6.1 the occupiers must be provided by the owner with written information on the operation and maintenance of the building services and a forecast of the energy consumption of the building.

Limitation

This standard does not apply to—

- (a) buildings which do not use fuel or power for heating, lighting, ventilating and cooling the internal environment and heating the water supply services;
- (b) the process and emergency lighting components of a building;
- (c) heating provided for the purpose of frost protection; or
- (d) lighting, ventilation and cooling systems in a domestic building.