



# CALGARY BOARD OF EDUCATION

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## Administrative Regulation 8006.2 - Energy Management

### Table of Contents

Design	1
Lighting levels	2
Heating/Cooling	3
Humidity	4
Domestic hot water	5
Washroom exhaust fans	6
Car heater plugs	7

- Design**            **1**        Current energy technology and materials to optimise energy consumption will be considered in the design of new schools.
- Lighting levels**    **2(1)**    The intensity of lighting in schools, wherever possible, shall be as follows:
- (a)    administration offices = 735 lux
  - (b)    classrooms = 500 lux
  - (c)    conference rooms = 500 lux
  - (d)    corridors = 400 lux
  - (e)    general administration = 500 lux
  - (f)    gymnasiums = 500 lux
  - (g)    libraries = 735 lux
  - (h)    storage rooms and service rooms = 500 lux
  - (i)    washrooms, locker and shower rooms, and stairways = 215 lux.
- (2)    Task lighting, wherever possible, shall be used for specialty areas.
- (3)    Lights must be turned off in unoccupied areas in accordance with recommended procedures.

- Heating/Cooling**    **3(1)**    The normal temperature range in classrooms during the heating season shall be 20°C to 22.5°C and in rooms where pupils are physically active, the temperature range shall be 16°C to 18°C.
- (2)    During the cooling season, the normal classroom temperature range shall be 23.5°C to 26.5°C.

- Humidity**    **4(1)**    Wherever possible, the indoor relative humidity in schools shall be maintained at the following levels:

Outdoor Temperature (°C)	Indoor Relative Humidity
0°C	40%
- 6°C	35%
- 12°C	30%
- 18°C	25%
- 24°C	20%
- 30°C	15%
- 36°C	10%

- (2)    Please refer to the Design Guidelines for the indoor relative humidity in new school construction.

- Domestic hot water**    **5**    The temperature of domestic hot water in schools shall not exceed 50°C except where it supplies cafeteria dishwashers, in which case a water temperature of 60°C is required and the temperature of water used to wash dishes must be 78° C because of public health requirements.

- Washroom exhaust fans**    **6**    Washroom exhaust fans shall be operated only during school hours and during evening/weekend rental activities.

- Car heater plugs**    **7(1)**    When outside temperatures rise above -15°C, power to car heater plugs will be turned off by thermostat control.
- (2)    Wherever possible, power supply will be cycled on/off on 30-minute cycles in such a way as would reduce demand load.

**Approved:**    November 2, 1982  
**Amended and Re-issued:**    February 15, 2003

## References

**Calgary Board of Education  
References:**

- Design Guidelines