

City of Brandon
Green Building Design



BRANDON'S GREEN BUILDING DESIGN

Sustainable building design, or green building, is the design and construction that uses resources more efficiently in order to create healthier and more energy-efficient buildings to live and to work.

Building Locations

- Avoid floodplain
- Take into consideration the inherent conditions of the natural environment including soils, topography and landforms
- Preference given to disturbed land, re-use of brownfield sites, and retrofitting existing buildings
- Promote adaptive reuse of buildings

Green Building Design

- Assess the project for non-polluting and renewable energy potential including solar, wind, geothermal, low-impact hydro, biomass, bio-gas, and solar thermal designs
- Identify opportunities to incorporate salvaged materials into building design and research potential material suppliers
- Develop and implement a waste management plan to divert construction, demolition and land clearing debris from landfill disposal
- Practice environmentally responsible forest management by using Forest Stewardship Council's (FSC) certified wood products
- Buildings should be designed to respect and respond to the topography of the site
- Buildings should be designed to reduce generation of wastes such as wastewater, solid waste and construction waste
- When feasible, buildings should be designed to incorporate green or living roofs
- Design and construct the building to meet ANSI/ASHRAE Standard 62.1-2013 - Ventilation for Acceptable Indoor Air Quality (IAQ) to achieve minimum indoor air quality performance (<https://www.ashrae.org/resources--publications/bookstore/standards-62-1--62-2>)
- Design the HVAC system and building envelope to optimize air change effectiveness
- Adopt an IAQ management plan to protect the HVAC system during construction, control pollutant sources and interrupt contamination pathways.
- Select construction and building materials with low volatile organic compound (VOC)
- Develop a water performance measurement to control water efficiency within buildings
- Shading provided on east, west and south windows with overhangs, awnings and/or deciduous trees
- Develop a light pollution reduction plan for the interior of the building
- Develop a baseline energy performance standard for the whole building to meet minimum standards defined in ASHRAE 90.1-2013, Appendix G
- Achieve certification through Leadership in Energy and Environmental Design (LEED) in "New Construction and Major Renovations," "Existing Buildings: Operations & Maintenance" or "Commercial Interior"