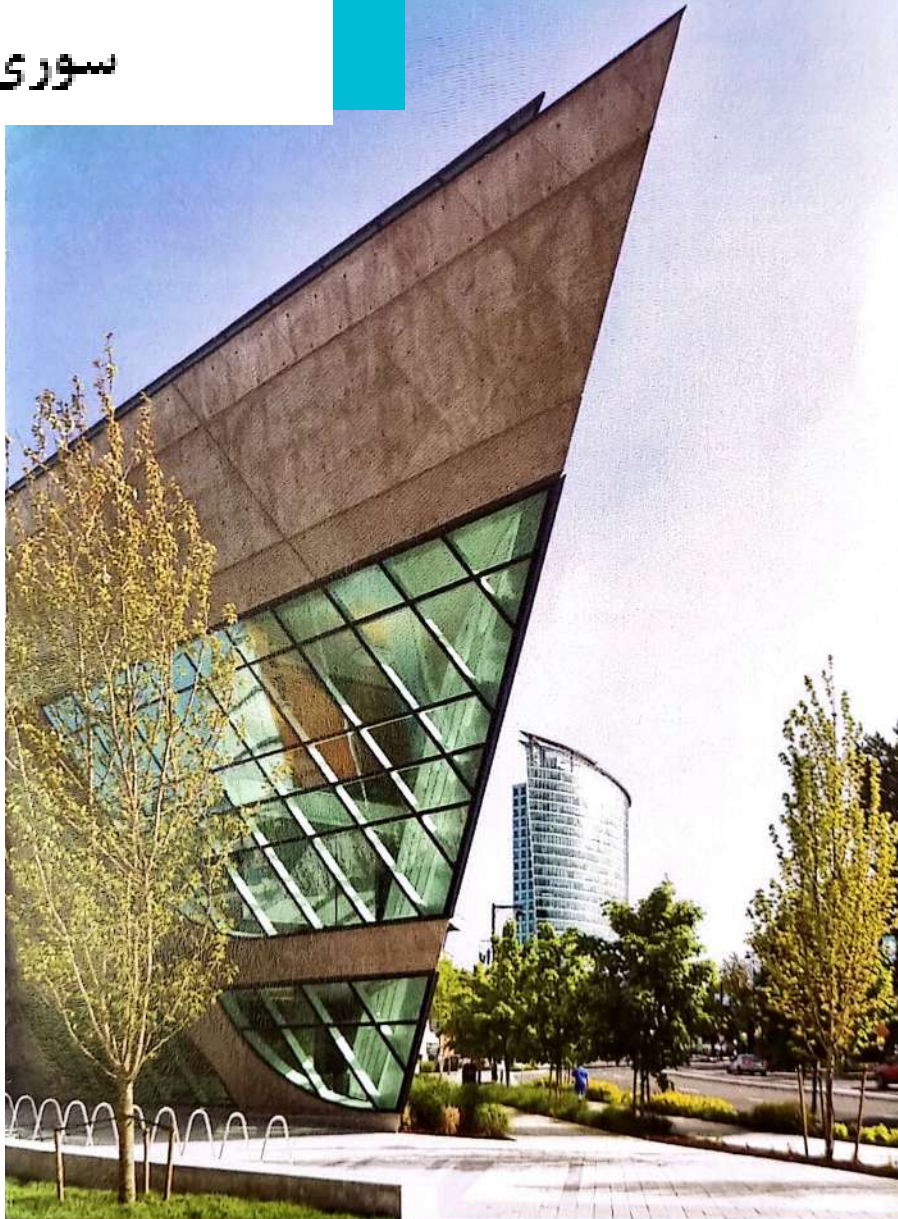


# GREEN FEATURES

AT SURREY LIBRARIES—CITY CENTRE

ویژگی‌های سبز کتابخانه  
سوری



City Centre branch  
10350 University Drive  
604-598-7420



SURREY LIBRARIES





## Background

The 77,000 square foot City Centre branch of Surrey Libraries opened September 2011, replacing the 11,000 square foot Whalley branch, constructed in 1974.

The building was designed by Bing Thom Architects, built by Stuart Olsen Dominion Construction Ltd., and managed by Turnbull Construction Services Ltd.



## Building Features

The branch features the use of concrete and glass which creates an open, light-filled interior. The library provides space for collections, office space for branch staff and administration staff, as well as generous public spaces.

The lounge space boasts two-storey high windows, a fireplace, and views onto a civic square and City Hall. A large children's library comes complete with a storytelling area. Other areas include: Accessibility Services area for people with physical and visual impairments, world languages area with materials in many languages, quiet and silent study areas, community meeting rooms, group study spaces, computer workstations, laptop counters, and a coffee shop.

The \$36 million project was jointly funded by the Government of Canada, the Province of British Columbia, and the City of Surrey through the Canada/BC Infrastructure Program.

## Sustainability

The City of Surrey is committed to encouraging sustainable design and the use of green building technologies. The original request for proposal specified that the library be built to LEED (Leadership in Energy and Environmental Design) silver standard, but in 2014, the library was awarded LEED Gold status.



## Energy and Atmosphere

- Concrete acts as a thermal mass, collecting heat and releasing it through the day.
- Strategically located sunshades control glare and heat and metallic roller shades reflect solar energy before it gets trapped inside the building.
- Windows feature sealed glazing units to further reduce heat gain.
- LED and Compact Fluorescent Lighting is installed throughout the building. Lights automatically switch off if no one is using offices or meeting rooms.



## Materials and Resources

- 75% of construction materials were diverted from the landfill.
- Extensive use of concrete ensures a durable building envelope, with an expected life span of over 50 years.



## Sustainable Features Include:

- Located close to public transit to promote connectivity, ease of access, and decreased use of automobiles.
- Reduced heat island effect through use of albedo white roofing materials to reflect solar energy away from the building. Two thirds of the roof is planted with sedum to create a green roof that further reduces CO<sub>2</sub> and captures rainwater.



## Indoor Environmental Quality

- Strategic use of glass for walls and skylights allows daylight to enter the building, reducing power consumption and as well as providing marvellous views
- The oculus in the ceiling sheds natural light to the interior of the library throughout the day allowing many areas to have enough illumination so that lights can be turned off. This reduces power consumption and provides users a sense of comfort.
- When artificial lighting is required, higher performance and longer service life LED and compact fluorescent fixtures are used.
- Extensive use of wood was used for the millwork and furniture, instead of man-made materials.



## Other Features

- The Library is committed to using green housekeeping products as well as green pest management for the green roof.
- A chilled water bottle filler helps minimize plastic bottles ending up in landfills.