

SunProject & Potential LEED 2009 Rating System Points (CAGBC)

MULTI-UNIT RESIDENTIAL BUILDINGS: NEW CONSTRUCTION AND MAJOR RETROFITS

Sustainable Sites

- **Credit 8.0: Light Pollution Reduction** **0.5 points**

Minimizing interior and exterior lighting trespass from the building and site during nighttime to reduce light pollution can earn credit. Reduction of the interior lighting portion requires the maximum candela value of all interior lighting to fall within the building (not out through windows), which can be fulfilled by SunProject's automated exterior solar shades.

Energy & Atmosphere

- **EA Prerequisite 2: Minimum Energy Performance** **required**

By reducing solar heat gain and associated cooling loads, SunProject's window treatments may contribute towards meeting minimum energy performance improvements of:

OPTION 1: reduce design energy consumption by 25% (new buildings) or 10% (existing building) relative to consumption of the reference building designed to the Model National Energy Code for Buildings 1997 (MNECB), or

OPTION 2: reduce design energy cost by 18% (new building) or meet equivalent energy performance (existing buildings) relative to reference building designed to ASHRAE/IESNA 90.1-1999 (without amendments)

- **Credit 1.0: Optimize Energy Performance** **0.3 points**

SunProject's window treatments would contribute towards optimizing energy performance, and would earn credit based on the percentage reductions in design energy cost of the proposed building compared to the energy cost of the reference building (based on either ANSI/ASHRAE/IESNA Standard 90.1-1999 or MNECB). Assuming SunProject can contribute a maximum overall energy savings of 1.0% for a typical multi-unit residential building in Canada, a potential contribution of 0.3 points can directly be earned, so long as the minimum energy performance requirements for EA p2 were met through other means.

Indoor Environmental Quality

- **Credit 7.1: Thermal Comfort - Design** **<1 point**

By preventing unwanted solar heat gain during cooling season, SunProject's window treatments can significantly improve thermal comfort conditions for human occupancy. This assists with a building meeting indoor thermal comfort conditions specified by ASHRAE 55-2004 required for credit.

- **Credit 8.1: Daylight & Views - Daylight** **<1 point**

One form of glare control for each window is required as part of this credit. SunProject's window treatments and high performance fabrics can fulfill this requirement which, along with appropriate window and building orientation design, can provide sufficient daylight illuminance levels (between 25-500 footcandles on Sept. 21st, 9am-3pm) in ≥75% of all regularly occupied spaces inside the building.

Total: 0.8-1.8 points of 12 available points

ADDITIONAL ENVIRONMENTAL ATTRIBUTES

SunProject's window treatments can be operated both automatically and manually to influence lighting and thermal comfort within the building. This would contribute towards providing the high level of individual lighting system and thermal comfort control for building occupants, though shading systems are not a recognized method to earn credit in the LEED credit IEQc6 – Controllability of Systems: Lighting and Thermal Comfort Control.

The aluminum extrusions used in SunProject's window treatments are comprised of 60% post-industrial and 20% post consumer recycled content, and are sourced locally (within 50 miles) from their manufacturing facility.