

Title: St. John Ambulance Practices Preservation with LEED® Silver

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### **St. John Ambulance Practices Preservation with LEED® Silver**

The new St. John Ambulance Headquarters facility is the most significant project of this type in the Edmonton Region in the last decade. The new three-storey, 33 000ft<sup>2</sup> facility equipped with a 13 300ft<sup>2</sup> parkade, serves as an administration and training facility for the St. John Ambulance Council of Alberta.

Keen Engineering served as both the mechanical and electrical consultant working closely with Manasc Isaac Architects and the design team to deliver an environmentally responsible facility that clearly demonstrates the client's green attitudes and concern for the surrounding community. Keen's extensive background in the design of sustainable firehalls, law enforcement centres and training facilities made them the natural choice.

The project's goal was to design a progressive and aesthetically pleasing facility, while minimizing environmental impacts. Together, the client and the design team decided to focus on achieving a LEED® Silver Certification. The new Headquarters facility represents St. John Ambulance's commitment to enhancing health in every aspect.

A variety of sustainable strategies were incorporated into the fully integrated building system design. In addition to considering orientation, building envelope and sustainable transportation provisions, 39% of all construction materials were manufactured locally. Construction waste management practices were strictly applied, achieving a recycling rate of 97%.

The extensive use of low flow water fixtures has resulted in a 46% reduction in water consumption compared to a standard building. An underfloor air system boosted indoor air quality and occupant comfort levels in combination with the maximization of daylighting and the selection of environmentally responsible finishing materials. Extremely low power lighting design, occupancy sensors and demand-controlled parking ventilation all work together to further energy conservation.

Overall the building will operate approximately 47% below the baseline building according to the Canadian Model National Energy Code for Buildings (MNECB), which translates into an operational savings of \$21 370 per year. Recognized for its commendable commitment to the environment, its occupants and the surrounding community, St. John Ambulance Headquarters achieved a LEED Silver Certification, the second Silver in Alberta.