

Representative Projects



25 York Street



180 Duncan Mill Road



Loblaws Headquarters



Microsoft Head Office



RBC Centre

Under Floor Air Design

25 York Street, Toronto, Ontario

This 790,000 sq. ft., 29 storey high tech office building utilizes on floor compartment units with underfloor air distribution system and VAV and constant volume floor terminals. It includes Under-Floor Air Distribution with individual workstation personal air control. Perimeter heating provided by recessed wall fin element. The building features improved energy and ventilation effectiveness characteristics. Chilled water and steam provided by Enwave to provide cooling and heating for office tower. LEED™ Silver Building

180 Duncan Mill Road, Toronto, Ontario

This 7 storey office with two levels of below grade parking was created by a complete renovation stripping the building to the original concrete frame with 11' 6" floor to floor structure. The integrated HVAC raised floor system allowed the development of 9' 0" plus clear to structure interior space using a 14" raised floor. The building utilizes individual on floor VAV compartment units serving a limited under floor duct system. Cooling and ventilation air as supplied to occupants with a combination of personalized manual and automatic in floor air terminals.

Loblaws Headquarters, Mississauga, Ontario

A 4 storey 460,000 square foot office building with one level of below grade parking. The building uses a raised floor for power and data cable management and integrated HVAC system. Each large floor plate uses four VAV underfloor air compartment units. Floor to underside of exposed structure is fully glazed with external shading system and a light shelf system to enhance natural light penetration into the large floor plate. The large floor to ceiling glass is heated by a continuous custom infloor fin tube convection system with heat generated by a high efficiency boiler system. The below grade parking system is, for the most part, heated and conditioned by indirect collection of building waste exhaust streams.

Microsoft Canada Head Office, Mississauga, Ontario

This 4 storey high tech office building is a Microsoft first for such a design. The building utilizes on floor compartment units with underfloor air distribution system and VAV floor terminals. Perimeter heating provided by fan-powered terminals with heating coils. The building features computer labs, cafeteria, meeting rooms and a 550-seat auditorium. The HVAC system chosen represents the probable future trend offering not only Lower Future Cost "churn" for renovation/cable management but improved energy and ventilation effectiveness characteristics. The approximate building size is 154,000 square feet.

RBC Centre, Toronto, Ontario

This 42 Storey, Class 'A' office tower located in downtown Toronto totals 130,000 square metres above grade, and includes approximately 3,700 square metres of retail space on the ground floor and three below grade parking levels. This is a LEED™ Gold building. The mechanical design features include under floor air distribution with individual workstation personal air control, carbon dioxide demand based ventilation, a connection to district heating and cooling systems – Enwave Deep Lake Water Cooling, Enwave District Steam System and a fully automated Building Control System. All Mechanical Systems are provided with emergency power.