C3 Specialty Glazing Solutions was awarded the contract to install the electrochromic glass system for Dixie Ford’s revamped sales showroom and parts & service department. Also known as dynamic glass, its benefits are realized through automatic tint adjustment to adapt to exterior environmental conditions and available light. With electrochromic glass, a low voltage charge will shift the ions within the coating to a clear or tinted state depending upon the charge polarity. The electricity demand for 2000 square feet of glass is less than that for a 60-Watt light bulb. The potential energy savings are significant.

* ENERGY SAVINGS * OCCUPANT COMFORT * OUTDOOR CONNECTION *
At Dixie Ford in Mississauga, the customer experience has been enhanced with the new two-storey indoor showroom enclosed with electrochromic glass panels. This now allows customers to explore the vehicle features at their leisure regardless of the weather. The floor to ceiling glass panels allow employees a full view of the exterior sales lot so that they can respond to potential customers in a timely manner.

The use of electrochromic glass is key to the success of this application. These glass panels allow for adjustment of the window tint to ensure the optimal comfort within the interior space; shading the hot sunlight in the summer and allowing the maximum solar light during the winter all while allowing full visibility to the exterior. These adjustments can be based upon programmed cycles or direct user control. Tests conducted at Lawrence Berkeley National Lab estimated up to 20% cooling energy savings, up to 60% lighting reduction, and up to 30% reduction in peak demand with the use of electrochromic glazing.

The team from C3 Specialty Glazing Solutions was awarded the contract for installation of the electrochromic glass system due to their significant prior experience with the turnkey installation of this type of system.

With this system the vertical Mullions are generally used to house the wiring for the panels. In this case the 18 foot height of the glass sections required close engineering scrutiny to ensure adequate structural support without interfering with the wiring.

The C3SGS team liaised with the glass manufacturer to seamlessly coordinate the full electrochromic glazing system installation.

To enhance employee responsiveness, the sales team office spaces were also enclosed with clear glass panels and sliding doors installed by C3SGS.

Dixie Ford General Manager, Ted Hogan, has reported their ongoing satisfaction with the electrochromic glass system.

INTERESTED IN LEARNING MORE?
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