The SickKids Hospital in Toronto, Canada is an impressive 21 story building designed by Diamond and Schmitt Architects. It has, as the central architectural feature, an undulating façade with curved glass panels. This stunning detail is composed of vision and spandrel insulated glass units with both convex and concave curved tempered glass that utilizes soft coat Low-E NE50 from Guardian. The glass had to meet strict thermal and solar requirements. In addition, the rolling contour of the façade required many different radii, convex and concave, with very tight curve tolerances, and stringent optical qualities. The schedule for the job was also very important, as the façade was installed using a unitized system from Sota Glazing Inc. and, therefore, the glass had to follow a very precise installation sequence.

The design and construction team analyzed different glass options and mock up samples to determine the final make up. They also visited the manufacturing facility to inspect all quality procedures and to decide on different aspects which were key to the success of the job. One of the many challenges faced in fabricating the glass was the number of unique radii, and the concave / convex aspect of the curved units, which Cristacurva solved successfully for the project.
TECHNICAL DETAILS OF THE PROJECT

OWNER
The Hospital for Sick Children

ARCHITECTS
Diamond Schmitt Architects

CONSTRUCTION MANAGER
EllisDon Corporation

IG MANUFACTURER
Cristacurva Glass

TYPES OF GLAZINGS AND QUANTITIES
Super Spacer TriSeal™ for Bent Insulating glass portion of the building