

Case Study

Architect:

**Bruno Freschi and
Hamilton Doyle Architects**

Curtainwall Fabricator & Installer:
Kawneer Company, Inc.

Tremco Products:

**Proglaze® II
Spectrem® 2
Dymonic®
TRS 600**

Tremco Custom Gaskets

Tremco® Structural Silicone Glazing

Case Study – The Wall Centre Four-Sided Structural Glazing

Four-sided structural glazing utilizes structural silicone to bond glass to the perimeter framing on all four sides, without using mechanical fasteners. This type of glazing allows architects and designers flexibility in creating unique building facades around the world.

The first two towers of The Wall Centre, located in Vancouver, British Columbia, consisted of the thirty five-story Wall Centre Radisson Plaza hotel and thirty-story residential apartment building. With the combination of residential living space and office space, this project utilized a unique four-sided thirty-story structural glazing application. The residential window units required concealed operating vents and the ability to open and close. A traditional silicone weather seal would not allow the operation of the windows. Exterior gaskets designed and manufactured by Tremco were used. This eliminated the need for an exterior silicone weather seal, while providing an air-tight, water-tight, structurally sound glazing system.

Four-sided systems should be designed to be shopped glazed, as was this Kawneer unitized curtainwall system. Units were structurally glazed using Tremco Proglaze II, a two-part structural silicone. The units were set into place by a 8 to 12 man crew, and they were able to seal one complete floor every three and one-half days. Other Tremco products used on this job were Spectrem 2, Dymonic, and TRS 600.

Tremco was able to provide the complete product line for the glazing system of The Wall Centre. Our expertise in four-sided structural glazing was an important part of completing this project as our staff provided custom design engineering, structural glazing certification, adhesion and compatibility testing, as well as with job-site support.

The full line of Tremco structural silicone sealants has been specifically formulated with proven physical properties and adhesion traits to keep ahead of the demands of structural glazing.



Contact your local Tremco Sales Representative or visit www.tremcosealants.com for more information regarding four-sided structural glazing.

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