



# GLOBAL ARCHITECTURAL METALS

123 Centre St.  
Welland Ontario Canada  
P 905 714-4321 F 905 714-4325

## Project Portfolio



### HAZELTON HOTEL

Yorkville Ave – Toronto ON

# Global Architectural Metals

123 Centre St., Welland ON L3B 5N9  
P 905 714-4321 F 905 714-4325

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*Global Architectural Metals Introduction*

*October 20, 2010*

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**G**lobal Architectural Metals was established in 1991, and offers builders complete contract glazing services. We do all our own in house design, engineering and fabrication from our offices and plant in Welland Ontario where we have recently relocated to a new larger facility in the spring of '08 which now houses all our engineering, fabrication and assembly operations at one location. Our recent acquisition by Building Value Corporation in June 2010, brings an element of opportunity for expansion and growth along with a group of interrelated companies within the construction industry.

Global carries and produces, curtainwall, entrances and wall panels using recognized nation systems manufacturers such as Kawneer and Oldcastle Engineered Products as well as some of our own internally developed systems. GAM acquired Lord & Burnham Skylights, and for over 18 years now, have been able to offer complete glazing scope of work packages to include for any type of sloped glazing structure imaginable. For most commercial window products (other than curtainwall), we use a number of commonly specified manufacturers, purchasing fabricated material or if schedules dictate we can fabricate windows in our own shop. Global Architectural enjoys an excellent reputation for quality products, service and workmanship. We work very closely with architects and designers during the course of a project to develop product designs which meet the desired aesthetic intent and specified performance requirements. We are a union contractor and use our own installation crews headed by jobsite supervisors with many years experience in the glazing industry.

In addition to Canadian and U.S. projects, we have done extensive work in the European markets, selling supplied and installed work into Germany, Poland, France, England and Russia. Our product designs and systems successfully competed against stringent European specifications and competitors products.

As a company with strong, proficient management and personal commitment from our staff, we at GAM are able to bring the highest standards of quality to each project. Whether the design is traditional or complex, GAM Inc. will actively participate with the building designer and/or developer from inception to completion of any project.

Design assist projects are becoming more prevalent every year. GAM has participated in a number of these types of ventures. Most recently examples of this are 1. Aerocentre V Office Building in Mississauga, ON with Vanbots Constr.. 2. Centennial Place Office Complex in Calgary AB with PCL Constructors. 3. Ritz Carlton Hotel & Residences in Toronto ON with Ellis Don Corp 4. UTSC Instructional Bldg (KIP project) Scarborough ON with Ellis Don Corp

We invite you to contact any of the following list of references to enquire about our company's capabilities and project performance.

**References:**

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| 1. <u>Page + Steele Architects</u> – Toronto ON<br>Phone: (416) 924-9966<br>Markham Liberty Square – Markham ON<br>Ritz Carlton Hotel – Toronto ON             | Contact: David Kissick<br><br>\$ 5,800,000.00<br>\$10,200,000.00               |
| 2. <u>WZMH Architects</u> – Toronto ON<br>Phone: (416) 961-4111<br>Peel Regional & Police Services – Toronto ON<br>Centennial Place – Phase 1 & 2 - Calgary AB | Contact: Hady Lotfy / Tom Schloessin<br><br>\$ 2,150,000.00<br>\$11,300,000.00 |
| 3. <u>Ellis Don</u> – Toronto ON<br>Phone: (416) 591-9056<br>The Ritz Hotel & Residences – Toronto ON  | Contact: Jon Thompson<br><br>\$ 10,200,000.00                                  |
| 4. <u>PCL Constructors</u> – Calgary AB<br>Phone: (403) 513-9282<br>Centennial Place Phase 1 & 2 – Calgary AB  | Contact: Mark Taylor<br><br>\$11,300,000.00                                    |
| 5. <u>Graywood Development</u> – Toronto ON<br>Phone: (416) 200-0045<br>Ritz Carlton Hotel/Residences – Toronto ON   | Contact: Tom Butkovic<br><br>\$ 10,200,000.00                                  |

# Global Architectural Metals

## *Project Title*

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Ritz Carlton Hotel & Residences – 181 Wellington St. W., Toronto ON

New Hotel & Condo Residences in the heart of Toronto's entertainment district. Project is comprised of 267 hotel suites and 159 luxury condominium units, rising a total of 52 stories. GAM was contracted to provide the exterior facade for the lower level Podium structure. The photo below showcases almost entirely GAM's scope of work. Including the custom designed high span glazing and bump-outs, aluminum soffit panels, column cladding, entrances including revolving door & roof level skylight over the spa level pool



Project is comprised of 83,000 sqft in total with 46,000 sqft curtainwall + 37,000 sqft of aluminum panel work. GAM also contracted the interior glazing for the hotel & residences.

Contract Manager: Ellis Don Corp.      Developer: Greywood Developments Ltd.  
Architects : Kohn Pedersen Fox Arch N.Y. + Page & Steele Architects Toronto.

# Global Architectural Metals

## Project Title

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Centennial Place – Calgary AL

Project consists of 40 story East Tower and 23 story West Tower. GAM contracted work included the Podium level highspan curtainwall, entrances, all glass canopies, stainless steel column covers, +15 Walkway, and extensive interior glazing including vestibules, glass balustrades, structural glass walls, structural glass bridge, mirrors, stainless steel handrails & balusters



The high span curtainwall was custom engineered to included for special purpose made steel truss columns with wishbone style horizontally extended support points to minimize the use of the steel columns. The +15 Walkway was



Constructed of unitized pre-glazed curtainwall designed to follow the wave effect of the roof line. Structural glass canopies were designed to incorporated glass outriggers and point connections in lieu of more conventional use of metal fins.

General Contractor : PCL Constructors

Architects : J/V of WZMH Architects Partnership Group – Toronto / Gibbs Gage Architects - Calgary

# Global Architectural Metals

## Project Title

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OCAD Ontario College of Art & Design – Toronto ON

The latest addition to OCAD is “The Sharp Centre for Design”, which seems to have landed from outer space. This radical design is fast becoming a Toronto landmark. It consists of a box four storeys off the ground supported by a series of multi-coloured pillars at different angles and is often described as a tabletop. The elevated “table top” extension with its striking black and white pixilated skin and 12 multi-colored legs stands 26 meters above the surrounding mixed Victorian and modern streetscape.

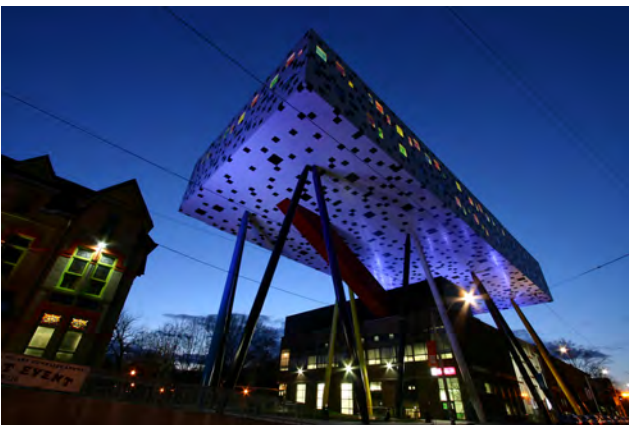


The project high span and custom window for use in the addition provided entrances glazing to and glass unique

project was enhanced by the use of custom colour laminated glass in the curtainwall and main



consisted of curtainwall punch applications tabletop. In GAM ground floor and interior balustrades structural screens. The nature of this Vanceva entrance.



General Contractor : PCL Constructors

Architects : J/V Alsop Architects + Robbie/Young + Wright Arch Inc – Toronto ON

# Global Architectural Metals

## Project Title

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Chrysler Center – New York, NY

New Atrium structure constructed at the base of the world renowned Chrysler Building in New York City.



Part of the redevelopment and major renovations carried out to present a new face at ground level to this most prestigious building.

Project comprised 3 very custom profile pyramid skylights, all of different sizes, roof slopes and glazing planes. All 3 pyramids intersect into one another at varying sides and angles.

The skylight framing is Lord & Burnham Skylights pressure equalized and air sealed system as designed, engineered manufactured and installed by Global Architectural Metals Inc.

The skylight was designed to incorporate a two side capless structurally glazed design so as to prevent water from damming up on horizontal cover caps.



Project is comprised of 10,000 sqft + of high performance insulated glass units.

Contractor: Turner Construction

Architect : J/V Philip Johnson & Associates N.Y. + Adamson & Associates Toronto

# Global Architectural Metals

## Project Title

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Ontario Science Centre – Toronto ON



Skylight Renovation Project. All existing skylights were removed and replaced with new glass and aluminum self supporting structures.

L & B Skylights air sealed pressure equalized framing system. System was designed to utilize capless structurally glazed horizontal purlins to eliminate water damming at caps and helps to self clean the glass.

Project comprised of new skylights covering 3 separate

buildings including the Great Hall presentation atrium.

The skylight framing is Lord & Burnham Skylights pressure equalized and air sealed system as designed, engineered manufactured and installed by Global Architectural Metals Inc.

The skylight was custom designed to incorporate a new layout and configuration comprised of hips/valleys and partial gable elevations to make the circular transitions around the Great Hall atrium.

Project is comprised of 7,500 sqft + of high performance insulated glass units.

Contractor: Notex Contracting

Architect : Halcrow Yolles Engineering



# Global Architectural Metals

## Project Title

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State of Illinois Center – Chicago Illinois



State office building downtown Chicago, incorporating a dramatic central core atrium structure comprised of cylindrical slope skylight structure at the roof top, cascading into stepped sloped curtainwall sections down to ground level.

L & B Skylights custom system was designed for single monolithic glazing, tempered glass c/w safety screens within the framing.

The challenge for the designers on this structure was the cooling loads, hence the need for only single glazing rather than insulated units.

The central “Keyhole” atrium affords almost all office within the building some degree of natural lighting.

The framing system was designed as a unitized factory preglazed system. Four sided capless glazing design helps to keep the glass clean.

One third around the base of the skylight is a large deep rainwater gutter, integrally design within the skylight glazing system leading to outlets draining to the interior. Skylight was supported by structural steel subframing that was initially assembled on the ground floor within the atrium area and pulled up through the central core to its final position on the roof.

Project is comprised of 60,000 sqft + of monolithic clear tempered glass

Contractor: Newburg/Paschen Joint Venture

Architect: Murphy/ Helmut Jahn Joint Venture



Markham Liberty Office  
Toronto ON



Peel Police Services  
Brampton ON



George Brown College  
Casa Loma Campus  
Toronto ON

Phizer Pharmaceuticals  
Office



Aerocentre V – Office  
Complex



Aerocentre V – Office  
Complex



Dufferin Mall  
Toronto ON



International Hotel  
Toronto ON



Toronto Int'l Airport – Terminal 3  
Toronto ON

Centennial Place  
Calgary AB





Centennial Place  
Calgary AB

Centennial Place  
Calgary AB



Cara Foods Hdqtrs  
Toronto ON





# Global Architectural Metals

## Project List

Partial Listing of Current (Highlighted) and Completed Projects

<u>Name</u>	<u>Architect</u>	<u>Contractor</u>	<u>Value</u>	<u>Description</u>
UTSC - Instructional Centre Scarborough ON	Diamond Schmidt	Ellis Don	5,800,000.00	Unitized Curtainwall, Entrances & Windows
Aerocentre V Mississauga ON	& Co Architects Inc	Vanbots Construction	\$5,900,000.00	Unitized Curtainwall - Office High Span CW Lobbies
Ritz Carlton Hotel/Residences Toronto ON	KPF NY, NY Page + Steele Arch	Ellis Don	\$9,500,000.00	Custom Four Sided Capless CW, Entrances, Feature Wall
Centennial Place Phase 1 & 2 Calgary AB	WZMH Architects	PCL Constructors	\$11,000,000.00	Custom Steel Truss & CW Framing, Canopies, Entrances
Scarborough Town Centre Scarborough ON	Petroff Architects	PCL Constructors	\$3,100,000.00	Skylights, Entrances, Canopies Demolition of existing
Queenston Plaza PH 2	Moriyama Teshima Architects	Aecon Buildings	\$2,500,000.00	Curtainwall, Windows, Entrances
Peel Joint Use Facility Brampton ON	WZMH Architects	Bondfield Construction	\$2,100,000.00	Unitized CW framing in 8 Story office building
U of T Science Bldg Scarborough Campus Toronto	Moriyama Teshima Architects	Eastern Construction	\$1,150,000.00	Curtainwall, Windows & Entrances
Biovail Corporate Office Addition Mississauga ON	Adamson Assoc Architects	Eastern Construction	\$2,100,000.00	Unitized Curtainwall w/ Sloped Inverted Glazing
Cara Foods Office Bldg Toronto ON	Page + Steele Arch	H-R Developments	\$1,350,000.00	Unitized Curtainwall & Entrances
Dufferin Mall Renovations Toronto ON	Petroff Architects	Ellis Don	\$1,200,000.00	Custom Entrances & New Office Windows, Curved Canopies
Ontario Science Centre Toronto ON	Halcrow Yolles	Nortex Contracting	\$1,350,000.00	New Skylights in Corridors & Great Hall
Fairview Mall Renovations Toronto ON	Bregman & Hamon Architects	Ellis Don	\$1,050,000.00	New Entrances, Curtainwall Canopies
Upper Canada Mall Newmarket ON	Petroff Architects	Lecor Construction	\$1,650,000.00	Custom Segmented Skylights & Entrances
UAE Embassy Ottawa ON	Griffiths Rankin Cooke Architects	Ellis Don	\$750,000.00	Curtainwall, Windows Interior Glazing
Great Wolf Lodge Niagara Falls ON	Bagga Architects	Ledcor Constr.	\$1,400,000.00	Windows, Entrances Curtainwall
The Hazelton Toronto ON	Page + Steele	Veisman Consulting	\$3,550,000.00	Custom Windows + French Doors
Yorkdale Mall - Stage 3A & 3B Toronto ON	MMC International	Ellis Don	\$3,100,000.00	Clerestory Curtainwall, Skylights
Markham Liberty Square Markham ON	Page + Steele	Darcon Construction	\$5,600,000.00	Curtainwall

Seneca College Markham ON	Cannon Design	Ledcor Constr.	\$800,000.00	Curtainwall, Sloped Canopy Balustrades
Sherbourne Health Centre Toronto ON	IBI Group Architects	Dineen Construction	\$750,000.00	Windows, Curtainwall
Yorkdale Shopping Centre Stage 2 Toronto Ontario	MMC International	Ellis Don	\$1,100,000.00	Curtainwall, Entrances, Structural glass walls etc.
Woodbine Racetrack Toronto Ontario	Robbie/Young Wright	Eastern Construction	\$550,000.00	Unitized Curtainwall, Entrances
University College Residence U of T Toronto ON	Ziedler Grinnell	Aecon Buildings	\$2,200,000.00	Curtainwall, Window Wall Entrances
Rotman Renovation U of T Rotman School of Mgmt	Ziedler Grinnell	Aecon Interiors	\$1,400,000.00	Curtainwall, Zinc Panels Sloped Glazing
Ryerson Student Campus Centre Toronto ON	Carruthers Shaw & Partnership	Vanbots Const. Corp	\$800,000.00	Curtainwall, Entrances
Clarington Central Secondary Sch Bowmanville ON	The Ventin Group	Bondfield Const	\$1,100,000.00	Curtainwall, Windows
Ontario Power Generation Pickering & Darlington Stations	Giffels	Eastern Const	\$2,500,000.00	Curtainwall, Entrances Ballistic Rated Glazing
OCAD (Ontario College of Art & Desig Toronto ON	Robbie/Young Wright	PCL Constructors	\$900,000.00	Curtainwall (Stick) Windows, Entrances
OUIT/Durham College - Student Res. Oshawa ON	Moffat Kinoshita Arch	Dacon Construction	\$2,250,000.00	Curtainwall (Unitized & Stick) Windows, Entrances
Humber College - Lakeshore Campus Toronto ON	Diamond Schmitt Architects Inc.	Eastern Construction	\$1,500,000.00	Curtainwall, custom windows entrances, interior glazing
Humber College - North Campus Toronto ON	Diamond Schmitt Architects Inc.	Eastern Construction	\$850,000.00	Curtainwall, custom windows entrances, interior glazing
Astrazeneca - Cdn. Bus. Ctr Mississauga ON	Webb Zerafa Menkes Housden Arch Inc.	PCL Constructors	\$750,000.00	Custom Skylights Penthouse & Galleria
Loyalist College Bellville ON	Teeple Architects Inc.	Garritano Bros. Const	\$600,000.00	Curtainwall, windows entrances, balustrades
GTA Pearson Airport	Adamson Architects	Ellis Don Ltd.	\$500,000.00	Terminal Level 3 Entrance Segmented canopies
Crowne Plaza Hotel Toronto ON	Crang & Boake Architects	Braun Construction	\$600,000.00	Custom entrance vestibule column covers, balustrades
Concord Adex Condominium Toronto ON	Wallman Clewes Bergman Architects	Toddglen Construction	\$750,000.00	Pedestrian Bridge glazed walls and skylights
St. Lawrence College - Ph 4 Kingston ON	Shoalts Zabac	T. A. Andre & Sons	\$1,550,000.00	Entrance & vestibule windows, balustrades
McMaster University Hamilton, ON	KPMB	Alberici Constructors	\$800,000.00	Windows, custom interior glazing & entrances
Sheridan College Oakville, ON	Ziedler Grinnell Partn	Torcom Construction	\$1,100,000.00	Curtainwall, entrances windows
Univ. of Toronto-Student Res Toronto, ON	Saucier + Perrotte	Kenaidan Contracting	\$1,750,000.00	Curtainwall, entrances windows, custom interior
Ross Memorial Hospital Lindsay, ON	Parkin Architects	R.E. Hein Const.	\$2,200,000.00	Curtainwall, entrances windows, skylights
St. Lawrence College Kingston, ON	Diamond Schmitt Shoalts Zabac	R.E. Hein Const.	\$650,000.00	Curtainwall, entrances windows
George Brown College Toronto, ON	Moffat Kinoshita Arch	Eastern Construction	\$1,300,000.00	Curtainwall, entrances

Leon's Showroom Brampton	Crang & Boake	Proforma Const.	\$750,000.00	Custom curtainwall Showroom entrances Alucobond Panels
Sir Sandford Fleming College, Peterborough ON	Line Architects	Garritano Bros.	\$850,000.00	Curtainwall, Skylights, Entrances, Sunshades
Nipissing University North Bay, ON	CDTEB Architects	GAP Construction	\$900,000.00	Curtainwall, Windows Entrances, Skylight
Bell Mobility Mississauga, ON	Page & Steele	Kenaidan Constr	\$1,750,000.00	Custom interior glazing Skylights, curtainwall
CLS Catering Toronto, ON	Scoler Lee & Assoc.	Century Group	\$450,000.00	Curtainwall, windows interior screens & entr.
Factory Outlet Mall Niagara Falls, ON	Taylor Hariri Pontarini	Zinc Construction	\$1,650,000.00	Curtainwall, entrances Canopy skylights
Leon's Showroom Niagara on the Lake, ON	Crang & Boake	Century Group	\$750,000.00	Custom curtainwall Showroom entrances Alucobond Panels
Chrysler Center New York, NY	Philip Johnson Adamson & Assoc	Turner Const.	\$4,300,000.00	11,000 sqft monumental pyramid skylights
Trans Canada Pipelines Calgary Alberta	Cohos Evamy	PCL-Maxam	\$2,750,000.00	Curtainwall +15 bridges, skylights, wall panels. Custom Comp. Metal Pnl's
Chambers Office Tower Ottawa Ontario	Brisbane Brooke Benyon	Fuller Construction	\$1,600,000.00	Curtainwall, Entrances Canopies
Rideau Carlton Casino Ottawa Ontario	PBK Architect	Zinc Const	\$800,000.00	Curtainwall, Panel System Custom Sunshades
Mercantile Centre Saint John, N.B.	Fowler Bauld & Mitchell Ltd	Ellis Don (Atlantic)	\$2,500,000.00	Curtainwall, entrances windows
OCTransit Walkley Station Ottawa, ON	D.S. McRobie Arch.	Doran Contractors	\$1,300,000.00	Custom curved profile transit shelters
Gewerbehof Sanitasstrassa Hamburg, Germany	Architectburo Streb. Hamburg Germany	City of Hamburg	\$2,600,000.00	Curtainwall, Windows Canopy
Dresdner Bank Halle, Germany	Moritz & Partners	FA Dickenbrok GmbH	\$1,750,000.00	Curtainwall, custom sunshade system
Ontario Science Centre Toronto Ontario	Colborne Arch. Grp.	TLP Construction	\$1,100,000.00	Rainforest Exhibit Skylight w/cont vents
OCTransit Greenboro Station Ottawa, ON	Murray & Murray Associates	Nicolini Constr.	\$1,450,000.00	Custom curved profile transit shelters
Manulife Centre Toronto, ON	M. Clifford Arch.	Jackson Lewis	\$800,000.00	Custom storefronts & entrances
Westmoreland Mall Pittsburg, PA USA	Shapiro Petrauskas Gelber Arch.	Whiting Turner Contracting Ltd	\$1,100,000.00	Skylights
Leisure Ctr - St. Laurent Pk Ottawa, ON	D.S. McRobie Arch.	Fuller Const.	\$1,300,000.00	Curtainwall, windows entrances & skylights
OCTransit Billings Bridge Ottawa, ON	D.S. McRobie Arch.	Doran Contr.	\$1,500,000.00	Custom curved profile transit shelters
IBM Building Addition Armonk N.Y.	I.M.Pie & Partners	Whiting-Turner Contracting Ltd	\$1,800,000.00	Atruim Skylight & Curtainwall
Timmins & Dist. Hospital Timmons ON	Parkin / Smith Arch. & Planners	Ellis-Don Const.	\$2,300,000.00	Curtainwall, Windows Entrances
St. Joseph's Hospital Hamilton, ON	Bregman&Hammon	Ellis- Don Const.	\$1,800,000.00	Curtainwall, Windows Entrances