

# GERALD MCGAVIN RUGBY PAVILION

UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

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## BRIEF PROJECT DESCRIPTION

### Location

The project site is located in the Athletic District and is bounded by the Doug Mitchell Thunderbird Sports Centre Arena to the north, Wesbrook Mall to the east, the Frank Buck and Arthur Lord Fields to the south and Wolfson Fields to the west.

### Context

Rugby has been played at UBC since before the Point Grey campus was established in 1915. The first rugby team was formed at UBC's precursor, McGill University College's in its first year, 1906-07 and has been a Varsity sport on campus ever since. Unlike the university's established sports programs with iconic buildings such as swimming, basketball and hockey, rugby has occupied a modest building on the Wolfson Fields for over 45 years. The original building is well past its normal life span with failing structural, mechanical and plumbing systems.

### Building

Phase 1 of the new facility will replace the existing pavilion as well as add value to the community with the addition of public washrooms for Thunderbird Park users. Phase 2 will include a lounge, offices, meeting rooms and a covered multiuse area. The new iconic building will embody the aspirations of the university's athletics and recreation: to be Canada's definitive provider of university sport, recreation and fitness programs for the benefit of students and the University of British Columbia as a whole. This development application is for Phase 1 and 2. Phase 1 is fully funded and fundraising is in progress for Phase 2.

## DESIGN GUIDELINE COMPLIANCE

### Athletics District Architecture

The project is massed as sculptural pavilion that is truly *set in* the open landscape of the surrounding athletic fields. Through creative massing, innovative use of program, and dynamic graphics the building will inspire pride and provoke pedestrian interest in the activities within the building and in the fields it addresses.

- a. Architectural Composition: The massing, cladding and detailing has been carefully designed and combined together to achieve an aesthetically pleasing composition.
- b. Form: The nature of the game of rugby is being conveyed on the outside form of the structure through the building form and environmental graphics.
- c. Rain Protection: Areas of rain protection are provided along the north and south elevations and through the centre of the build form to accommodate viewers.
- d. Windows: Windows offering views into the lounge areas have been provided along the south building façade.

### Athletics District Materials Palette

The south facade is clad with glass to reveal interior activities. The west and east facades are grass covered berms that invite the public into field area to watch a match. Secondary materials are anodized aluminum mullions, cast in place concrete. Perforated mineral fibre panels create a large scale graphic on the north elevation. Wood is used liberally throughout the lounge interior for wall and ceiling finishes.

### Athletics District Landscape

The landscape reinforce the formality of the commons with alignments and paths typical to the district. A sense of whimsy is also applied to the roof plantings to provide an appropriate level of informality to the building.



# LEED GOLD

## PRELIMINARY LEED CANADA NC 2009 PROJECT CHECKLIST

While certification is not being pursued for this project, a LEED Gold compliance path will be pursued based on this preliminary assessment.

Yes	?	No	Project Totals (pre-certification estimates)		110 Possible Points
61	38	11			
Certified 40-49 points Silver 50-59 points Gold 60-79 points Platinum 80 points and above					

Yes	?	No	Sustainable Sites		26 Points
19	4	3			

Yes	?	No	Prereq	Credit	Description	Points
✓			Prereq 1		Construction Activity Pollution Prevention	Required
1			Credit 1		Site Selection	1
3		2	Credit 2		Development Density and Community Connectivity	3, 5
		1	Credit 3		Brownfield Redevelopment	1
6			Credit 4.1		Alternative Transportation: Public Transportation Access	3, 6
1			Credit 4.2		Alternative Transportation: Bicycle Storage & Changing Rooms	1
	3		Credit 4.3		Alternative Transportation: Low-Emitting & Fuel-Efficient Vehicles	3
2			Credit 4.4		Alternative Transportation: Parking Capacity	2
1			Credit 5.1		Site Development: Protect and Restore habitat	1
1			Credit 5.2		Site Development: Maximize Open Space	1
1			Credit 6.1		Stormwater Design: Quantity Control	1
1			Credit 6.2		Stormwater Design: Quality Control	1
1			Credit 7.1		Heat Island Effect: Non-Roof	1
1			Credit 7.2		Heat Island Effect: Roof	1
	1		Credit 8		Light Pollution Reduction	1

Yes	?	No	Water Efficiency		10 Points
4	6	0			

Yes	?	No	Prereq	Credit	Description	Points
✓			Prereq 1		Water Use Reduction	Required
2	2		Credit 1		Water Efficient Landscaping	2, 4
	2		Credit 2		Innovative Wastewater Technologies	2
2	2		Credit 3		Water Use Reduction	2 - 4

Yes	?	No	Energy & Atmosphere		35 Points
15	18	2			

Yes	?	No	Prereq	Credit	Description	Points
✓			Prereq 1		Fundamental Commissioning of Building Energy Systems	Required
✓			Prereq 2		Minimum Energy Performance	Required
✓			Prereq 3		Fundamental Refrigerant Management	Required
11	8		Credit 1		Optimize Energy Performance	1 - 19
	7		Credit 2		On-Site Renewable Energy	1 - 7
2			Credit 3		Enhanced Commissioning	2
2			Credit 4		Enhanced Refrigerant Management	2
	3		Credit 5		Measurement and Verification	3
		2	Credit 6		Green Power	2

Yes	?	No	Materials & Resources		14 Points
6	3	5			

Yes	?	No	Prereq	Credit	Description	Points
✓			Prereq 1		Storage and Collection of Recyclables	Required
		3	Credit 1.1		Building Reuse: Maintain Existing Walls, Floors, and Roof	1 - 3
		1	Credit 1.2		Building Reuse: Maintain Interior Non-Structural Elements	1
2			Credit 2		Construction Waste Management	1 - 2
1	1		Credit 3		Materials Reuse	1 - 2
1	1		Credit 4		Recycled Content	1 - 2
2			Credit 5		Regional Materials	1 - 2
		1	Credit 6		Rapidly Renewable Materials	1
	1		Credit 7		Certified Wood	1

Yes	?	No	Indoor Environmental Quality		15 Points
13	1	1			

Yes	?	No	Prereq	Credit	Description	Points
✓			Prereq 1		Minimum Indoor Air Quality Performance	Required
✓			Prereq 2		Environmental Tobacco Smoke (ETS) Control	Required
1			Credit 1		Outdoor Air Delivery Monitoring	1
		1	Credit 2		Increased Ventilation	1
1			Credit 3.1		Construction IAQ Management Plan: During Construction	1
1			Credit 3.2		Construction IAQ Management Plan: Before Occupancy	1
1			Credit 4.1		Low-Emitting Materials: Adhesives and Sealants	1
1			Credit 4.2		Low-Emitting Materials: Paints and Coatings	1
1			Credit 4.3		Low-Emitting Materials: Flooring Systems	1
1			Credit 4.4		Low-Emitting Materials: Composite Wood and Agrifibre Products	1
1			Credit 5		Indoor Chemical and Pollutant Source Control	1
1			Credit 6.1		Controllability of System: Lighting	1
1			Credit 6.2		Controllability of System: Thermal Comfort	1
1			Credit 7.1		Thermal Comfort: Design	1
1			Credit 7.2		Thermal Comfort: Verification	1
	1		Credit 8.1		Daylight and Views: Daylight	1
1			Credit 8.2		Daylight and Views: Views	1

Yes	?	No	Innovation in Design		6 Points
3	3	0			

Yes	?	No	Credit	Description	Points
1			Credit 1.1	Innovation in Design - earth tube	1
1			Credit 1.2	Innovation in Design - recycled fill	1
	1		Credit 1.3	Innovation in Design	1
	1		Credit 1.4	Innovation in Design	1
	1		Credit 1.5	Innovation in Design	1
1			Credit 2	LEED® Accredited Professional	1

Yes	?	No	Regional Priority		4 Points
1	3	0			

Yes	?	No	Credit	Description	Points
1			Credit 1	Durable Building	1
	1		Credit 2.1	Regional Priority Credit	1
	1		Credit 2.2	Regional Priority Credit	1
	1		Credit 2.3	Regional Priority Credit	1