

RESIDENTIAL ENVIRONMENTAL ASSESSMENT PROGRAM 3.1

Individual Project Information

Project Name	The Conservatory
Project address	5728 Berton Avenue, Vancouver, BC
Rental or Market	Market
Number of Storeys	20
Total Number of Units	211
Studio	0
1 Bed	108
2 Bed	94
3 Bed	9
4 Bed	0
Total Number of Bedrooms	323
Residential Parking (non visitor)	236

Project Team

	Company	Name	Contact
ARCH	DYS Architecture	Jennifer Boyle, Colin Shrubb	jennifer.boyle@dysarchitecture.com; colin.shrubb@dysarchitecture.com
CIV			
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GC	Polygon	Matt Anderson	mattanderson@polyhomes.com
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ELEC	Nemetz	Bijan Valagohar	bijan@nemetz.com
LAND	PWL	Bruce Hemstock	bhemstock@pwlpartnership.com
EM	Morrison Hershfield	Alex Blue	ablue@morrisonhershfield.com
ENVL	-	-	
ID	Polygon	-	Just chek with GC polygon

REAP 3.1 Certification Level

Target	Gold
Achieved	Gold

Sustainable Sites (SS)							
тот		6	0	Amandada	Dele	Do como enterior	Die
O M4 O Come Water Management Plan	MAX	Y	M	Awarded	Role	Documentation	Pha
S M1 Storm Water Management Plan	M	M			CIV		E
equire all new construction projects detain the 10-year, 24-hour storm volume and discharge t the 2-year, 40-hour pre-development rate on site or at a designated centralized facility using w-impact development and green infrastructure strategies by 2018.						-Copy of Stormwater Management Plan -Letter by CIV requirements wil be met	
S M2 Adapted and Ecologically Sound Planting	M	M			LAND		В
Demonstrate that landscape design has minimized the need for pesticides and irrigation hrough the selection of adaptive and drought-tolerant plants and consideration of the principles of Integrated Pest Management and xeriscaping.						 -Narrative describing Planting design + letter confirming landscaping is low maintenance and resource efficient, and does not require use of pesticides (requirements will be met) 	
S M3 Bicycle Storage	M	M			ARCH/LAND		Е
Provide covered bicycle storage facilities including 1.5 parking spaces per dwelling unit or ndividual parking garages for Class I use, and 0.5 bicycle parking spaces per dwelling unit for class II use in accordance with The UBC Development Handbook. Required Proposed CLASS I 305 305						-Drawing showing number and location of bike storage facilitiesLetter by ARCH requirements will be met	
CLASS II 106 106 S M4 Contribution to Community Car Sharing	М	M			DEV		
Contribute to the development of a community car-sharing network by funding the equivalent of one community vehicle per 100 residential units. Amount to be Contributed 42,200 CAD Confirm amount per unit with UBCPT						-Letter confirming number of residential units and amount contributed to car-sharing networkDocumentation confirming amoutn contrbuted	
S M5 Electric Vehicle Charging- Resident (MANDATORY)	2	2			ELEC		ı
Provide a minimum of one energized level 2 outlet per residential unit for non-rental developments or provide energized outlets for 50% of resident parking stalls for rental developments. Level 2 charging capacity that provides a minimum of 40A service and a ninimum performance level of 12 kWh per stall, over an eight (8) hour period must be provided. Load sharing (up to four-way) and load management systems may be utilized. Exceptions may be granted in cases where utility mandated transformer upgrades are required.						-Drawing showing electrical service to stalls - Documentation of load sharing and load management systems - Letter by ELEC requirements will be met	
Required Proposed Non-Rental 211 Rental 118							
SS M6 Light Pollution Reduction	M	M			ELEC		E
Do not exceed the current Illuminating Engineering Society (IES) illuminance requirements as stated in Lighting for Exterior Environments.						-Description of lighting strategy employed to achieve IESNA illuminance requirements (in letter from ELEC requirements will be met) - Light fixtures' cut sheets showing illuminance meet requirements	

	Recycling Collection				M	M	ARCH/DEV		BP & O
waste n	anagement company	c paper, plastic, glass and for the service. Recycling er's Technical Specification	storage space s	hall be designed in				 BP: location and size of recycling/organics storage area OP: Letter by DEV/Owner requiremented will be met including description of Waste Management contract in place 	ı
	Garbage+Recycling Room Min. Size	Mi. Recycling Space WITHIN room	Flex Space	Total Storage Space Required	Storage Space Provided				
m²	73.4	38.8	19.4	92.8					
S M8	Compost Collection				M	M	ARCH/DEV		BP & C
hrough a provider.	contract with UBC Wa	or the collection compost aste Management or anot be building in accordance enities.	her waste manag	gement service				Same as SS M7	
S 1.1	n-Suite Recycling ar	d Compost Separation			2	2	ARCH/DEV		ВР
Provide a		simplified separation and	collection of rec	ycling and				-Letter by ARCH requirements will be met - Description of system implemented (cut sheet might be ok)	
SS 2.1	Additional Bicycle Fa	cilities			2	0	ARCH		BP
an additio puilding.c									
	Electric Vehicle Chai				2	2	ELEC		BP
	ped with Level 2 char		nits for visitors of	residents/owners,				Letter signed by ARCH and ELEC declaring requirements will be met Drawings showing location of parking spots with EV charging stations	
EV	Required Stations 3	Proposed							
		rging Stations - Resider			2	0	ELEC		BP
5% of c	wners'/residents' park owners'/residents' pa		ge of owners'/res	sidents' parking.				Letter signed by ARCH declaring requirements will be met Drawings showing location of parking spots with EV charging stations	
	- 1	24						-Cut sheet of charging stations	

Water Efficiency (WE)							
TOTAL		6	0			D	D!
AIC MA - Efficient Instruction Technology	MAX	Y	M	Awarded	Role	Documentation	Phase
WE M1 Efficient Irrigation Technology Design and install a water-efficient irrigation system that includes an automated controller, rain or soil sensors and pressure regulator and for non-grass areas use a micro- or drip-feed rrigation or install a temporary irrigation system.	M	M			LAND	-Letter indicating requirements will be met including description of irrigation system by LAND	BP
WE M2 Low-Flow Faucet Aerators	М	М			GC		ВР
Specify and install low-flow faucets with aerators in all bathroom sinks (max. 3.8 L per minute) and in all kitchen sinks (max. 6.8 L per minute).						-Letter stating requirements will be met including specific fixtures used and flow rate - Cut sheets indicating flow rate	
WE M3 Low-Flow Showerheads	M	M			GC		BP
Specify and install water-saving showerheads with a maximum flow rate of 8.5 L per minute in each shower.						-Letter stating requirements will be met including specific fixtures used and flow rate - Cut sheets indicating flow rate	
WE M4 Energy Star Clothes Washers	М	М			GC		OP
Specify and install Energy Star-labelled clothes washers and dishwashers in each unit, or specify and offer only Energy Star models if these appliances are optional.						-Letter from DEV declaring requirements were met - Cut sheet from manufacturer ESTAR labelled or equivalente clothes washers (non labelled need supporting documentation showing they meet criteria)	
WE 1.1 Reduce Potable Water Use	3	3			LAND		BP
Reduce potable water use for site irrigation needs by 50% from the calculated mid-summer baseline.						 Letter by LAND declaring requirements will be met and description of system Calculation to verify the claim of ≥50% reduction in potable water irrigation 	
WE 1.2 Eliminate Potable Water Use	3	0			LAND		ВР
Eliminate potable water use for site irrigation needs.						Letter by LAND declaring requirements will be met and description of system Calculation to verify the claim of 100% reduction in potwable water irrigation	
WE 2.1 Low-Flow Showerheads	2	2			GC		BP
Specify and install water-saving showerheads (maximum of 5.7 L per minute) in each shower						-Letter stating requirements will be met including specific fixtures used and flow rate - Cut sheets indicating flow rate	
WE 2.2 Water Efficient Dishwasher	1	1			GC		OP
Specify and install water-efficient dishwashers that use ≤ 11 L (2.91 gal) per normal wash cycle or if dishwashers are available only as an option, specify and offer only models complying with this credit.						-Letter stating requirements will be met including specific fixtures used and flow rate - Cut sheets indicating dishwasher water use per cycle	

WE 2.3 Most Efficient Clothes Washers	2	0	GC	OP
Specify and install Energy Star clothes washers listed as "Most Efficient" (for the year in which the Building Permit is received), or if washers are available only as an option, specify and offer only models complying to this standard.				
WE 2.4 Water Use Reduction Package	2	0	LAND/ID	OP
Additional credit for achieving credits: WE 1.1, WE 2.1, WE 2.2 and WE 2.3.			 Letter stating requirements for WE 2.1-2.3 have bee met and respective documentation 	n
WE 3.1 Domestic Hot Water metering	3	0	MECH	BP
In units with central hot water, provide individual hot water metering.			-Letter from MECH requirements will be met - Location and drescription of the metering system	
WE 3.2 Domestic Cold-Water metering	2	0	MECH	BP
Provide for individual cold water meters for all units.			 -Letter from MECH requirements will be met - Location and drescription of the metering system 	

Energy & Atmosphere (EA)							
TOTAL	52 MAX	23	1 M	Awarded	Role	Documentation	Phas
EA M1 Minimum Roof Insulation	M	M	IVI	Awarded	ARCH	Documentation	BP
Design the roof assembly with a minimum insulation value of R-40 h-ft²-°F/Btu (7.04 °K-m2/W) for buildings with attic space and R-28 h-ft²-°F/Btu (4.93 °K-m2/W) for cathedral ceilings/flat roofs.	101				AROH	-Letter signed by ARCH declaring requirements will be met -Description and overall R-value of the roof assembly used	Σ.
EA M2 Minimum Exterior Wall Insulation	М	М			ARCH		ВР
Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h-ft²-°F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h-ft²-°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls.						-Letter signed by ARCH declaring requirements will be met -Description and overall R-value of the wall assembly used	
EA M3 Minimum Floor Insulation	М	M			ARCH		BP
Design floors above non-heated parkade areas with a minimum insulation value of R-30 h-ft²-°F/Btu (5.28 °K-m²/W) for framed floors and R-15.6 h-ft²-°F/Btu (2.75 °K-m²/W) for slab floors.						-Letter signed by ARCH declaring requirements will be met -Description and overall R-value of the floor assembly used	
EA M4 Energy Efficient Windows	М	M			ARCH		BP
Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2-°F (2.0 W/m2-°K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2-°F (2.55 W/m2-°K) for metal framed windows.						-Letter signed by ARCH declaring requirements will be met -Shop drawing from manufacturer showing glazing system U-value or ESTAR rating	
EA M5 Minimum Boiler Efficiency	М	М			MECH		ВР
Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%.					-	-Letter by MECH requirement will be met - Manufacturer's spec sheet showing minimum efficiency of installed equipment	
EA M6 Domestic Hot Water	М	М			MECH		ВР
Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler).						-Letter by MECH requirement will be met - Manufacturer's spec sheet showing minimum efficiency of installed equipment	
EA M7 Energy Star Dishwashers and Refrigerators	M	M			ID		OP
Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.						-Letter indicating requirements have been met -Cut sheet shwoing ESTAR label or supporting documentation showing equivalent meet criteria	
EA M8 Programmable Thermostats	М	M			MECH		BP
Specify and install programmable thermostats for at least the largest heating zone in each unit.						-Letter by ELEC indicating requirements will be met -Cutsheet of thermostats and description of locations	
EA M9 Common Area Lighting	М	M			ELEC		BP
Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas.						-Letter by ELEC indicating requirements will be met -Description of common area lighting	
EA M10 Parkade and Corridor Lighting Controls	M	M			ELEC		BP
Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied.						-Letter signed by ELEC that requirements will be met -Indication of controlled and uncontrolled parkade lighting wattage	
EA M11 Energy Modeling Workshop (MANDATORY) Model the energy performance of the building and hold a workshop with the design team, a representative from UBC Sustainability and Engineering, Campus & Community Planning and contractor to evaluate the results and optimize the design of the building.	2	2			DEV/E3	-Minutes and results of EM workshop	BP

EA M12	Commissioning (MANDATORY)	4	4		Unknown		BP/OP
	a third party Commissioning Authority to develop and implement a commissioning plan for all liding energy systems and verify they are installed, calibrated and perform according to design					-Commisioning Plan -Final commisionon report, detailing the final approvals and the project commisioning process	
EA	ENERGY EFFICIENCY TARGETS	M					BP/OP
	Building Envelop Airtightness Testing (MANDATORY) An airtightness test meeting ASTM E779 or USACE Version 3 standard, as required by the	2	2		Unknown	BP: Preliminary Energy Model Report and UBC Energy Modelling Checklist	ВР
	Energy Step Code.					OP:	
	Energy Step Code Step 2 (MANDATORY) 130 kWh/m2-yr (TEUI) and 45 kWh/ m2-yr (TEDI). This credit is mandatory.	6	6		EM	- Letter by Architect and Engineer declearing building meets the requirement of Energy Step Code and Energy Step Code targets have been met -Final Energy Model Report and UBC Energy Modelling Checklist	OP
	Energy Step Code Step 3 120 kWh/m2-yr (TEUI) and 30 kWh/ m2-yr (TEDI).	8	0		ЕМ	Air Tightness test results For Passive House Energy Performance Credit provide energy model documentation as required by section 10.2.3.3 (3) of the Energy Step Code Regulation	OP
	Energy Step Code Step 4	15	0		EM		OP
	100 kWh/m2-yr (TEUI) and 15 kWh/ m2-yr (TEDI). This credit is optional.						
	Passive House Energy Performance Design and construct the building to conform to the Passive House Planning Package, version 9 or newer, meeting the requirements of Section 10.2.3.3 (3) of the Energy Step Code Regulation. This credit is optional.	5	0		ЕМ		OP
EA 1.1	Thermal Energy Sub-Metering	1	1		MECH		BP
Provide s heating.	separate metering in individual units for measuring thermal energy consumption used for space					Letter by MECH requirements will be met	
	Future Renewable Electricity	1	0	1	ELEC		BP
	buildings and provide installation space for future use of photovoltaic technologies or other e electricity generation.					-Letter by ELEC requiremented will be met - Drawings showing wiring schematics	
	Renewable Electricity Utilization	3	3		ELEC		BP
Utilize ph electrical	notovoltaic technologies or other renewable electricity generation for a portion of the building's supply					-Letter by ELEC requiremented will be met - Spec sheets of technologies that will be used	
	Low-Carbon District Energy Utilization	5	5		DEV		BP
	to the District Energy System for the building's thermal energy supply in preparation of transition able energy in the future.					-Letter by DEV requiremented will be met	

	40		_				
TOTAL	18 MAX	1	2 M	Awarded	Role	Documentation	Pha
IR 1.1 Reused Building Materials se salvaged, refurbished, or reused materials for at least 5% of the total cost of building laterials.	2	0	IVI	Awarueu	ARCH/GC	-Letter by ARCH requirements have been met - Total value of construction materials and total valie of re-used building materials	0
MR 1.2 Reused Building Materials	2	0			ARCH/GC		0
lse salvaged, refurbished, or reused materials for at least 10% of the total cost of building naterials.						-Letter by ARCH requirements have been met - Total value of construction materials and total valie of re-used building materials	
IR 1.3 Recycled Content Materials	2	1			ARCH/GC		0
Specify and use building materials with the following recycled content levels:						-Letter by ARCH requirements have been met - Manufacturer's cut sheets indicating recycled content	
4 Products = 1 point; 8 Products = 2 points							
IR 2.1 Regionally Manufactured Building Materials	1	0			ARCH/GC		С
Ise a minimum of 20% (by value) of building materials and products that are manufactured within radius of 800 km (500 miles).						-Letter by ARCH requirements have been met - Total value of construction materials and total valie of regionally manufactured materials	
IR 2.2 Regionally Sourced Building Materials	1	0			ARCH/GC		C
of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials and roducts that are extracted, harvested or recovered (as well as manufactured) within a radius of 00 km (500 miles).						-Letter by ARCH requirements have been met - Total value of regionally manufactured mateirals and total value of those materials that are also extracted, harvested, or recovered regionally	
IR 3.1 Dimensional Lumber and Plywood	3	0	2		ARCH/GC		С
Demonstrate that a minimum of 50% of the total value of dimensional lumber and plywood is certified in accordance with either: CSA Z809 – 2 Points Dr Forest Stewardship Council (FSC) – 3 Points U						-Letter by ARCH requirements have been met - Total value of lumber plywood - Total value of certified lumber and plywood used in the project. For FSC provide CoC documentation for each.	
MR 3.2 Hardwood Floors	3	0			ARCH/GC		0
Specify and install bamboo floors or hardwood floors certified in accordance with the Forest Stewardship Council or CSA Z809. If floors are offered only as an option, specify and offer only pamboo or renewable products with third-party certification. CSA Z809 – 2 Points Treforest Stewardship Council (FSC) – 3 Points						-Letter by ARCH requirements have been met - Manufacturer's cut sheet for each amterial selcted indicating certification standard - For FSC provide CoC documentation for each product	

MR 4.1 Transparency of Ingredients ARCH/GC OP Install ten different building products from three different manufacturers that evaluate and disclose -Letter by ARCH requirements have been met including the chemical inventory of the product to an accuracy of 0.1% for each product. For each product list of chosen products selected provide either: - Documentation for each product Health Product Declaration • Manufacturer Inventory of all ingredients by CAS number, of Declare Label (Livng Building Institute) MR 4.2 Optimization of Ingredients ARCH/GC OP Demonstrate that a minimum of 10% (by value) of building materials are optimized for ingredient -Letter signed by ARCH declaring requirements have content by demonstrating optimization in one of the following ways: been met GreenScreen v1.2 benchmark 4 minimum - Documentaion of optimized ingredient for each Red List free product chosen • Free of ingredients listed on REACH Authorization and Candidate List - Total value of building materials and the total value of building materials optimized for ingredient content

	TOTAL	8	8	0			
		MAX	Υ	М	Awarded	Role	Documentation
IEQ M1 Adhesives and Sealants		М	M			ARCH/GC	Letter by ADOLL requirements being been met
Specify and use adhesives, sealants and sealant primers that are EcoLogo certified or exceed the VOC limits in the South Coast Air Quality Management District (SCAQMD) #1168 on the interior of the building.							-Letter by ARCH requirements have been met - Manufacturer's cut sheet indication VOC content (adhesive, sealants and sealant primers)
IEQ M2 Paints and Coatings		М	M			ARCH/GC	
Specify and use paints and coatings that carry an EcoLogo label or those rated at a m 1 by the Master Painter's Institute on the interior of the building.	inimum GPI-						-Letter by ARCH requirements have been met - Manufacturer's cut sheet indicating VOC content of all paints and coatings in the interior of the building
IEQ M3 Floor Coverings		M	M			ARCH/GC	
Specify and install carpet and carpet cushion that carry the following certifications: Car Rug Institute Green Label Plus.	pet and						-Letter by ARCH requirements have been met -Certification documentation for products used
IEQ M4 Ventilation Effectiveness		М	М			MECH	
Prepare and implement an effective air management strategy that meets the requirem current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the build configuration.						0.1	-Letter by MECH requirements will be met - Description of ventilation system and fresh air management strategies employed
IEQ 1.1 Low VOC Paints and Coatings		2	2			ARCH/GC	
Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter on the interior of the building.	s Institute						-Letter by ARCH requirements have been met - Manufacturer's cut sheet indicating VOC content of all paints and coatings in the interior of the building - Calculations of VOC budget showing that the total average of VOC in all caoting products based in litres applied meets the GPS-2 VOC limit of 50 g/L
IEQ 1.2 Low-Emitting Composite Wood Products		2	2			ARCH/GC	
Specify and install interior composite wood products, such as flooring, doors, trim, etc. low emitting or have no added urea formaldehyde. Cabinetry is excluded from this cred							-Letter by ARCH requirements have been met - Manufacturer's cut sheet indicating each interior composite wood product is NAUF
IEQ 1.3 Low-Emitting Insulation		2	2			ARCH/GC	
Specify and install formaldehyde-free insulation on the interior of the building.							-Letter by ARCH requirements have been met - Manufacturer's cut sheet indicating each product selected is urea-formaldehyde free
IEQ 1.4 Low -Emitting Cabinetry		2	2			ARCH/GC	
Specify and install interior cabinetry doors and boxes that are are low emitting or conta	in no						-Letter by ARCH requirements have been met

Construction (CON)	4	2	0				
TOTAL	MAX	Y	M	Awarded	Role	Documentation	Phas
CON M1 Staging and Construction	M	M		riwaraca	GC/DEV	200dillolladion	OP
repare and implement a staging and construction plan, including alternate detour information nd signage for pedestrians and cyclists.						-Letter signed by DEV requirements have been met - Copy of Staging and Construction Plan	
ON M2 Vegetation Safeguards and Land-Clearing Debris	М	M			GC/DEV		OP
Prepare a site plan showing the sizes and locations of vegetation to be removed, retained and alvaged, including plants located on adjacent public rights-of-way (see reference guide) and evelop a plan to effectively handle debris from land clearing and divert it from landfill disposal.						-Letter signed by DEV requirements have been met - Copy of Vegetation Site Plan - Copy of Debris and Land clearing management plan	
CON M3 Truck Management Plan	М	М			GC/DEV		OP
Prepare and implement a comprehensive truck management plan for the project that conforms to ne UBC Strategic Transportation Plan and the Neighbourhood Plan Development Guidelines.					30,DEV	-Letter signed by DEV requirements have been met - Copy of Truck Management Plan	- 3,
CON M4 Wheel Wash	М	M			GC/DEV		OP
rovide a wheel wash for vehicles leaving the site or a street cleaning program and catch basin rotection.						-Letter signed by DEV requirements have been met	
CON M5 Erosion and Sedimentation Control	М	M			CIV		OP
Prepare and implement a Sediment and Erosion Control Plan that conforms to the City of /ancouver Bulletin 2002-003-EV dated March 1, 2017.						-Letter signed by CIV or responsible party requirements have been met - Copy of ESC plan	
CON M6 Waste Management Plan	М	M			GC		OP
Prepare and implement a waste management plan that diverts 75% (by weight) of construction, lemolition and land clearing waste from landfill.						-Letter by GC requirements have been met - Copy of CWMP and hauling summary demonstrating 75% or more diversion	
CON 1.1 Indoor Air Quality Management Plan	2	2			GC		OP
repare and implement an Indoor Air Quality (IAQ) Management Plan for the construction and preccupancy phases of the building.						-Letter by GC requirements have been met - Copy of IAQ management plan	
CON 1.2 Flushout / IAQ Test	2	0			GC		OP
After construction ends and prior to occupancy conduct aminimum two-week continuous building ushout with new filtration media at 100% outside air or conduct a Baseline Indoor Air Quality est.	_					-Letter by GC requirements have been met including copy of specifications showing requirement for flushout or results of IAQ testing	

TOTAL	24	11	4				
	MAX	Υ	М	Awarded	Role	Documentation	Phase
D M1 Goal-Setting Workshop	M	M			E3		BP
Hold a goal setting workshop including the developer, design consultants and contractor to review the Residential Environmental Assessment Program, set goals for the project and assign responsibilities.						-Copy of meeting minutes or report from the Goal Setting Workshop celarly outlining REAP priorities and goals	
D M2 Educate the Homeowner	М	M			DEV		OP
Develop a homeowner's manual that promotes sustainable behavior and describes all of the sustainable features of the project instructing the homeowner on their proper use. This manual should be included in record drawings or some form that will be accessible beyond the first generation of owner/resident.						Letter signed by DEV certifying the requirements have been met Copy of homeowner's manual highlighting sustainable features of the project	
D 1.1 Life-Cycle Assessment	4	0			DEV		OP
Perform a Life-Cycle Assessment of the project's structure and enclosure and demonstrate a minimum of 5% improvement from a reasonable baseline building for three environmental categories.						-Lifecycle assessment report, showing the results of the life-cycle assessment and confirmation that the credit criteria have been met	
D 2.1 Green Building Specialist	1	1			DEV/E3		BP
Engage an expert in green buildings and sustainable construction practices to provide advice on effective green building strategies to the design team.						Letter signed by DEV identifying an expert in green buildings and construction practices has been engaged for the project Explanation of expert's combination of experience and education that demosntrate ability to provide advice	
D 2.2 Design for Safety and Accessibility	1	0			ARCH		BP
Demonstrate that at least 25% of the units in the building have been designed to meet the SAFERhome standards (http://www.saferhomesociety.com/), which address issues of accessibility, children's safety, seniors and aging in place.						-Letter signed by ARCH requirements have been met -Description of how the criteria have been addressed in the design	
D 2.3 Design for Security and Crime Prevention	2	2			ARCH		BP
Demonstrate that the design has been reviewed by an accredited Crime Prevention Through Environmental Design (CPTED) practitioner .						-Letter signed by ARCH declaring that the requirements have been met	
D 3.1 Educate the Sales Staff	1	1			DEV		OP
Develop marketing materials based on the environmental performance of the project and ensure the sales staff is aware of and knowledgeable about the green building features.						-Letter signed by DEV declaring that the requirements have been met - Copy of marketing material highlighting sustainable features of the project	
D 4.1 Enhance Research or Further Student Development	5	5			E3/DEV		BP/OP
Collaborate with UBC students and/or faculty on a research project or other opportunities to enhance the academic mission of the University and integrate it with the community. The research project should be concurrent with, and applicable to, the current project.						BP: Letter signed by DEV requirements will be met OP: Copy of research project or description of project opportunity	

ID 4.2 Energy Data Sharing	4	0		DEV/OTHER		BP/OP
Incorporate a data sharing agreement into the sales contracts or strata constitution that allows building aggregate energy data to be collected for use by the UBC Sustainability and Engineering, Campus & Community Planning.					BP: Letter signed by DEV requirements will be met and highlighted copies of sales, lease and/or strata documentat that detaul this agreement - For purpose-build rental apartment buildings and strata owned buildings see REAP 3.1 Guide for details (OP)	
ID 5.1 Innovative Design or Exemplary Achievement	2	2	0	MECH/E3		OP
Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits. EV Bike chargers in Class I storage. ELEC to confirm.					 Description of exceptional performance or innovative design strategy - include a description of the requirement, the intent, a rationale, stratefies used and documentation that will be submitted to support the credit and achievement 	
ID 5.2 Innovative Design or Exemplary Achievement	2	0	2	ARCH/E3		OP
Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits. Want to come up with something to ged GOLD PLUS	-	Ĭ	-	74.CF # E5	- Description of exceptional performance or innovative design strategy - include a description of the requirement, the intent, a rationale, stratefies used and documentation that will be submitted to support the credit and achievement	o.
ID 5.3 Innovative Design or Exemplary Achievement	2	0	2	MECH/E3		OP
Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.					- Description of exceptional performance or innovative design strategy - include a description of the requirement, the intent, a rationale, stratefies used and documentation that will be submitted to support the credit and achievement	



Residential Environmental Assessment Program (3.1) Project Checklist Project Name: The Conservatory

Υ	M	Susta	inable S	Sites (SS)	6 of 10
М		Prereq	SS M1	Storm Water Management Plan	M
М		Prereq	SS M2	Adapted and Ecologically Sound Planting	M
М		Prereq	SS M3	Bicycle Storage	M
М		Prereq	SS M4	Contribution to Community Car Sharing	M
2		Prereq	SS M5	Electric Vehicle Charging- Resident	2
М		Prereq	SS M6	Light Pollution Reduction	M
М		Prereq	SS M7	Recycling Collection	M
М		Prereq	SS M8	Compost Collection	M
2	0	Credit	SS 1.1	In-Suite Recycling and Compost Separation	2
0	0	Credit	SS 2.1	Additional Bicycle Facilities	2
2	0	Credit	SS 2.2	Electric Vehicle Charging – Visitor	2
0	0	Credit	SS 2.3	Electric Vehicle Charging Stations - Resident	2

Υ	M	Water	Efficien	cy (WE)	6 of 18
М		Prereq	WE M1	Efficient Irrigation Technology	M
М		Prereq	WE M2	Low-Flow Faucet Aerators	M
М		Prereq	WE M3	Low-Flow Showerheads	M
M		Prereq	WE M4	Energy Star Clothes Washers	M
3	0	Credit	WE 1.1	Reduce Potable Water Use	3
0	0	Credit	WE 1.2	Eliminate Potable Water Use	3
2	0	Credit	WE 2.1	Low-Flow Showerheads	2
1	0	Credit	WE 2.2	Water Efficient Dishwasher	1
0	0	Credit	WE 2.3	Most Efficient Clothes Washers	2
0	0	Credit	WE 2.4	Water Use Reduction Package	2
0	0	Credit	WE 3.1	Domestic Hot Water metering	3
0	0	Credit	WE 3.2	Domestic Cold-Water metering	2

Υ	M	Mater	Materials and Resources (MR)					
0	0	Credit	MR 1.1	Reused Building Materials	2			
0	0	Credit	MR 1.2	Reused Building Materials	2			
1	0	Credit	MR 1.3	Recycled Content Materials	2			
0	0	Credit	MR 2.1	Regionally Manufactured Building Materials	1			
0	0	Credit	MR 2.2	Regionally Sourced Building Materials	1			
0	2	Credit	MR 3.1	Dimensional Lumber and Plywood	3			
0	0	Credit	MR 3.2	Hardwood Floors	3			
0	0	Credit	MR 4.1	Transparency of Ingredients	2			
0	0	Credit	MR 4.2	Optimization of Ingredients	2			

Υ	М	Const	ruction (CON)	2 of 4
М		Prereq	CON M1	Staging and Construction	M
М		Prereq	CON M2	Vegetation Safeguards and Land-Clearing Debris	M
M		Prereq	CON M3	Truck Management Plan	M
M		Prereq	CON M4	Wheel Wash	M
M		Prereq	CON M5	Erosion and Sedimentation Control	M
М		Prereq	CON M6	Waste Management Plan	M
2	0	Credit	CON 1.1	Indoor Air Quality Management Plan	2
0	0	Credit	CON 1.2	Flushout / IAQ Test	2

					Date 07-M11-2019
Υ	М	Energ	y & Atm	osphere (EA)	23 of 52
М		Prereq	EA M1	Minimum Roof Insulation	М
М		Prereq	EA M2	Minimum Exterior Wall Insulation	M
М		Prereq	EA M3	Minimum Floor Insulation	М
М		Prereq	EA M4	Energy Efficient Windows	M
М		Prereq	EA M5	Minimum Boiler Efficiency	M
М		Prereq	EA M6	Domestic Hot Water	M
М		Prereq	EA M7	Energy Star Dishwashers and Refrigerators	M
М		Prereq	EA M8	Programmable Thermostats	M
М		Prereq	EA M9	Common Area Lighting	M
М		Prereq	EA M10	Parkade and Corridor Lighting Controls	M
2		Prereq	EA M11	Energy Modeling Workshop	2
4		Prereq	EA M12	Commissioning	4
2		Prereq	EA	Building Envelop Airtightness Testing	2
6		Prereq	EA	Energy Step Code Step 2	6
0		Prereq	EA	Energy Step Code Step 3	8
0	0	Credit	EA	Energy Step Code Step 4	15
0	0	Credit	EA	Passive House Energy Performance	5
1	0	Credit	EA 1.1	Thermal Energy Sub-Metering	1
0	1	Credit	EA 2.1	Future Renewable Electricity	1
3	0	Credit	EA 2.2	Renewable Electricity Utilization	3
5	0	Credit	EA 2.3	Low-Carbon District Energy Utilization	5
Υ	М	Indoo	r Enviro	nmental Quality (IEQ)	8 of 8
М		Prereq	IEQ M1	Adhesives and Sealants	M
М		Prereq	IEQ M2	Paints and Coatings	M
M		Prereq	IEQ M3	Floor Coverings	M
М		Prereq	IEQ M4	Ventilation Effectiveness	M
2	0		IEQ 1.1	Low VOC Paints and Coatings	2
2	0	Credit	IEQ 1.1	Low-Emitting Composite Wood Products	2
2	0	Credit	IEQ 1.3	Low-Emitting Insulation	2
2	0	Credit	IEQ 1.4	Low -Emitting Cabinetry	2
Υ	М	Innov	ation and	d Design Process (ID)	11 of 24

Υ	М	Innova	ation and	Design Process (ID)	11 of 24
М		Prereq	ID M1	Goal-Setting Workshop	M
М		Prereq	ID M2	Educate the Homeowner	M
0	0	Credit	ID 1.1	Life-Cycle Assessment	4
1	0	Credit	ID 2.1	Green Building Specialist	1
0	0	Credit	ID 2.2	Design for Safety and Accessibility	1
2	0	Credit	ID 2.3	Design for Security and Crime Prevention	2
1	0	Credit	ID 3.1	Educate the Sales Staff	1
5	0	Credit	ID 4.1	Enhance Research or Further Student Development	5
0	0	Credit	ID 4.2	Energy Data Sharing	4
2	0	Credit	ID 5.1	Innovative Design or Exemplary Achievement	2
0	2	Credit	ID 5.2	Innovative Design or Exemplary Achievement	2
0	2	Credit	ID 5.3	Innovative Design or Exemplary Achievement	2
57	7	TOTAL	_S	Possible Points:	134

Gold: 45 to 60 points, Gold Plus: 61 to 75 points, Platinum: 76 to 100 points, Platinum Plus: 101 to 134 points

UBC Residential Environmental Assessment Program REAP 3.1

Project Information

Developer: Polygon Homes

Architect: DYS Architecture

REAP Consultant: E3 Eco Group Inc.

Project Name: The Conservatory

Neighbourhood:

Lot No.: UBC Lot 5

Street Address: 5728 Berton Avenue, Vancouver, BC

Project Stage: DP

UBC DP Reference No.:

Date of Review:

Date of Submission:

Date of Complete Submission:

CREDITS	Mandatory	Max	Score
Sustainable Sites (SS)	complete	10	6
Water Efficiency (WE)	-	18	6
Energy & Atmosphere (EA)	-	52	23
Materials & Resources (MR)	-	18	1
Indoor Environmental Quality (IEQ)	-	8	8
Construction (CON)	-	4	2
Innovation & Design Process (ID)	-	24	11
Subtotal		134	57
TOTAL		134	57

REAP Rating:	57 GOLD(45-60 pts)	
45-60 pts	Gold	
61-75 pts	Gold Plus	
76-100pts	Platinum	
101-134 pts	Platinum Plus	

		Performance Category: Sustainable Sites (SS)					
		e intent of the Sustainable Sites category is to reduce the negative impacts of development, maintain the natural landscape, vegetation are		getation and	d environmental attributes of the site and provide new landscaping that		
	enhances the microclimate.						
			Score:				Mandatory points achieved
SS		MANDATORY		Points		ission	
SS	M1	Storm Water Management Plan	M	M	BP		
		Require all new construction projects detain the 10-year, 24-hour storm volume and discharge at					
		the 2-year, 40-hour pre-development rate on site or at a designated centralized facility using low-					
		impact development and green infrastructure strategies.					
	M2	Adapted and Ecologically Sound Planting	М	М	BP		
		Demonstrate that landscape design has minimized the need for pesticides and irrigation through					
		the selection of adaptive and drought-tolerant plants and consideration of the principles of					
		Integrated Pest Management and xeriscaping.					
	М3	Bicycle Storage	М	М	BP		
		Provide covered bicycle storage facilities including 1.5 parking spaces per dwelling unit or			<u> </u>		
		individual parking garages for Class I use, and 0.5 bicycle parking spaces per dwelling unit for					
		Class II use in accordance with The UBC Development Handbook.					
	M4	Cantribution to Community Can Charing	М	.		OP	
	IVI4	Contribution to Community Car Sharing	IVI	M		UP	
		Contribute to the development of a community car-sharing network by funding the equivalent of one community vehicle per 100 residential units.					
	M5	Electric Vehicle Charging- Resident	2	2	BP		
		Provide a minimum of one energized level 2 outlet per residential unit for non-rental					
		developments or provide energized outlets for 50% of resident parking stalls for rental					
		developments. Level 2 charging capacity that provides a minimum of 40A service and a minimum					
		performance level of 12 kWh per stall, over an eight (8) hour period must be provided. Load					
		sharing (up to four-way) and load management systems may be utilized. Exceptions may be granted in cases where utility mandated transformer upgrades are required.					
		granted in cases where dulity mandated transformer dpgrades are required.					
	M6	Links Dellistian Deduction		M			
	IVIO	Light Pollution Reduction	М	IVI	BP		
		Do not exceed the current Illuminating Engineering Society (IES) illuminance requirements as					
		stated in Lighting for Exterior Environments.					
	М7	Recycling Collection	М	M	BP	OP	
		Provide for collection of domestic paper, plastic, glass and metal recyclables by contracting with					
		a waste management company for the service. Recycling storage space shall be designed in accordance with Metro Vancouver's Technical Specifications for Recycling Amerities.					
		accordance with Metro varicouver's Technical Specifications for Recycling Amenities.					
	M8	Compost Collection	М	M	BP	OP	
		Provide a space in the building for the collection compost and provide for the compost collection					
		through a contract with UBC Waste Management or another waste management service					
		provider. Design the space in the building in accordance with Metro Vancouver's Technical					
		Specifications for Recycling Amenities .					
SS		OPTIONAL					
SS	1.1	In-Suite Recycling and Compost Separation	2	2	BP		
		Provide a space and system for simplified separation and collection of recycling and compostables in each suite or unit.					
SS		ALTERNATIVE TRANSPORTATION					T
	2.1	Additional Bicycle Facilities	2	X	BP		
		In addition to the requirements for bicycle parking in the UBC Development Handbook, provide					
		an additional 0.25 Class I bicycle storage/bedroom and a bicycle repair station within the					
		building.					
	2.2	Electric Vehicle Charging – Visitor	2	2	BP		
		Provide one dedicated parking spot per 100 residential units for visitors of residents/owners, fully					
		equipped with Level 2 charging station.					
	2.3	Electric Vehicle Charging Stations - Resident	2	X	BP		
		Install Level 2 charging stations for the following percentage of owners'/residents' parking.					
		5% of owners'/residents' parking − 1 Points					
		∥ 10% of owners'/residents' parking – 1 Points					
		Performance Category: Water Performance Category: Water Efficiency (WE)	18	Points			
		The intent of the Water Efficiency category is to encourage strategies that reduce the amount of p			landscane	irrination ar	nd building operations
							3 17
			Score:	6			Mandatory points achaiyed
WE		MANDATORY	ocore:	Points	Ch.	ission	Mandatory points acheived
WE	M1	Efficient Irrigation Technology	М	M	BP	11551011	
		Design and install a water-efficient irrigation system that includes an automated controller, rain or	ıwı	·m	UF		
		Design and install a water-efficient irrigation system that includes an automated controller, rain or soil sensors and pressure regulator and for non-grass areas use a micro- or drip-feed irrigation	l				
		or install a temporary irrigation system.	l				
		1 2 2 1	<u> </u>	احيا			
	M2	Low-Flow Faucet Aerators	М	M	BP		
		Specify and install low-flow faucets with aerators in all bathroom sinks (max. 3.8 L per minute)	l				
		and in all kitchen sinks (max. 6.8 L per minute).	l				
	M3	Low-Flow Showerheads	М	M	BP		
		Specify and install water-saving showerheads with a maximum flow rate of 8.5 L per minute in	"	"			
		each shower.	l				
	M 4					00	<u> </u>
	M4	Energy Star Clothes Washers	M	М		OP	
		Specify and install Energy Star-labelled clothes washers and dishwashers in each unit, or specify and offer only Energy Star models if these appliances are optional.	l				
		una ono, only chargy oral moude in these appliances are optional.	l	İ			

WE		OPTIONAL					
WE	1	WATER EFFICIENT LANDSCAPING					
	1.1	Reduce Potable Water Use	3	3	BP		
		Reduce potable water use for site irrigation needs by 50% from the calculated mid-summer	_	_			
		baseline.					
	1.2	Eliminate Potable Water Use	3	X	BP		
		Eliminate potable water use for site irrigation needs.	_				
		Eliminate potable water use for site imgation needs.					
WE	2	WATER USE REDUCTION					
	2.1	Low-Flow Showerheads	2	2	BP		
	2		-	-	, Di		
		Specify and install water-saving showerheads (maximum of 5.7 L per minute) in each shower					
	2.2	Water Efficient Dishwasher	1	1		OP	
		Specify and install water-efficient dishwashers that use ≤ 11 L (2.91 gal) per normal wash cycle				-	
		or if dishwashers are available only as an option, specify and offer only models complying with					
		this credit.					
	2.3	Most Efficient Clothes Washers	2	X		OP	
		Specify and install Energy Star clothes washers listed as "Most Efficient" (for the year in which					
		the Building Permit is received), or if washers are available only as an option, specify and offer					
		only models complying to this standard.					
	2.4	Water Use Reduction Package	2	X		OP	
		Additional credit for achieving credits: WE 1.1, WE 2.1, WE 2.2 and WE 2.3.					
WE	3	WATER METERING		1			1
***			_				
	3.1	Domestic Hot Water metering	3	X	BP		
		In units with central hot water, provide individual hot water metering.					
	3.2	Domestic Cold-Water metering	2	X	BP		
		Provide for individual cold water meters for all units.					
		Performance Category: Energy & Atmosphere (EA)	F 2	Points			<u></u>
		The intention of the energy and atmosphere category are to reduce depletion of non-renewable er	ergy res	ources and	to reduce th	ie environm	ental impacts of energy use, particularly emissions of local, regional and
		global air pollutants and greenhouse gases.					
			Score:	23			Mandatory points acheived
EA		MANDATORY	000.0	Points	Cuhm	ission	manuatory points acrievisa
EA	M1	Minimum Roof Insulation	М	1 Ollito	BP	1331011	
EA			IVI	IVI	DP		
		Design the roof assembly with a minimum insulation value of R-40 h·ft².°F/Btu (7.04 °K-m²/W)					
		for buildings with attic space and R-28 h·ft².°F/Btu (4.93 °K-m²/W) for cathedral ceilings/flat					
		roofs.					
	M2	Minimum Exterior Wall Insulation	М		- DD		
			IVI	M	BP		
	2	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-	IVI	IVI	ВР		
	2		W	M	BP		
		Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-	m	M	ВP		
		Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R- 15.6 h·ft²·°F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h·ft²·°F/Btu (1.32 °K-m2/W) 'continuous insulation' for below grade walls.					
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R- 15.6 h·ft²·°F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h·ft²·°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls. Minimum Floor Insulation	M	M	ВР		
	М3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.*Fifbtu (2.75 fk.m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.*Fifbtu (1.32 fk.m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30					
	М3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R- 15.6 h·ft²·°F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h·ft²·°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls. Minimum Floor Insulation					
	М3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.*Fifbtu (2.75 fk.m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.*Fifbtu (1.32 fk.m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30					
	М3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. ^{42, °} F/Btu (2.75 [°] K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. ^{42, °} F/Btu (1.32 [°] K-m2/W) [°] continuous insulation [°] for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. ^{42, °} F/Btu (5.28 [°] K-m2/W) for framed floors and R-15.6 h. ^{42, °} F/Btu (2.75 [°] K-m2/W) for slab floors.	М	М	ВР		
	М3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. ^{42,*} F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. ^{42,*} F/Btu (1.32 *K-m2/W) *continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. ^{42,*} F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. ^{42,*} F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows					
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.#-*F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.*-*F/Btu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.*-*F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h.ft.*-*F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of	М	М	ВР		
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.#2-F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft²-°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft²-°F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h.ft²-°F/Btu (2.75 °K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/h-ft²-°F (2.0 W/m²-°K for non-metal framed windows or a maximum overall U-value of	М	М	ВР		
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.#-*F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.*-*F/Btu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.*-*F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h.ft.*-*F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of	М	М	ВР		
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. ⁴ /*-F/Btu (2.75 [*] K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. ⁴ /*-F/Btu (1.32 [*] K-m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. ⁴ /*-F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. ⁴ /*-*-F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2-*F (2.0 W/m2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2-*F (2.55 W/m2-*K) for metal framed windows.	M	M	BP BP		
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.#2-F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft²-°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft²-°F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h.ft²-°F/Btu (2.75 °K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft²-°F (2.0 W/m2-°K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft²-°F (2.55 W/m2-°K) for metal framed windows. Minimum Boiler Efficiency	М	М	ВР		
	M3	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. ⁴ /*-F/Btu (2.75 [*] K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. ⁴ /*-F/Btu (1.32 [*] K-m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. ⁴ /*-F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. ⁴ /*-*-F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2-*F (2.0 W/m2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2-*F (2.55 W/m2-*K) for metal framed windows.	M	M	BP BP		
	M3 M4	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* FiFbt (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.* FiFbt (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* FiBtu (5.28 "K-m2/W) for framed floors and R-15.6 h.ft.* FiBtu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-"F (2.0 W/m2-"K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2- F (2.55 "W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%.	M M	M	BP BP		
	M3 M4	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.#2-F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft²-°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft²-°F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h.ft²-°F/Btu (2.75 °K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft²-°F (2.0 W/m2-°K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft²-°F (2.55 W/m2-°K) for metal framed windows. Minimum Boiler Efficiency	M	M	BP BP		
	M3 M4	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* FiFbt (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.* FiFbt (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* FiBtu (5.28 "K-m2/W) for framed floors and R-15.6 h.ft.* FiBtu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-"F (2.0 W/m2-"K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2- F (2.55 "W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%.	M M	M M	BP BP		
	M3 M4	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 https://FIBIU (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 https://FIBIU (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 https://FIBIU (5.28 "K-m2/W) for framed floors and R-15.6 https://FIBIU (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2-"F (2.0 W/m2-"K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2-"F (2.55 W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water	M M	M M	BP BP		
	M3 M4 M5	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* °F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft. °F/Btu (1.32 °K-m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* °F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h.ft.* °F/Btu (2.75 °K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft.* °F/E (2.0 Wind.* 'K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft.* °F/E (2.55 W/m2.* 'K) for metal framed windows. Minimum Bolier Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler).	M M M	M M	BP BP	00	
	M3 M4 M5	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht ²⁺ Fr[Btu (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht ²⁺ "F[Btu (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht ²⁺ FiBtu (5.28 "K-m2/W) for framed floors and R-15.6 ht ²⁺ FiBtu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-"F (2.0 Wm2-"K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-"F (2.55 W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators	M M	M M	BP BP	OP	
	M3 M4 M5	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* °F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft. °F/Btu (1.32 °K-m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* °F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h.ft.* °F/Btu (2.75 °K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft.* °F/E (2.0 Wind.* 'K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft.* °F/E (2.55 W/m2.* 'K) for metal framed windows. Minimum Bolier Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler).	M M M	M M	BP BP	OP	
	M3 M4 M5 M6	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. #2 *F/Btu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. #2 *F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-#2 *F (2.05 W/m2 *K) for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-#2 *F (2.55 W/m2 *K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.	M M M	M M	BP BP	OP	
	M3 M4 M5 M6 M7	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. **rFjBtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht. **rFjBtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht. **rFjBtu (5.28 *K-m2/W) for framed floors and R-15.6 ht. **rFjBtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-*F (2.0 Winz-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-*F (2.55 Winz-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.	M M M	M M	BP BP BP	OP	
	M3 M4 M5 M6 M7	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. #2 *F/Btu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. #2 *F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-#2 *F (2.05 W/m2 *K) for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-#2 *F (2.55 W/m2 *K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.	M M M	M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. #2 *F/Btu (1.32 *K-m2/W) continuous insulation for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. #2 *F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 h. #2 *F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-#2 *F (2.0 Winz-*K for non-metal framed windows or a maximum overall U-value of 0.35 Btuhr-#2 *F (2.0 Winz-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit.	M M M M M	M M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht ^{2, ex} FiBtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht ^{2, ex} FiBtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht ^{2, ex} FiBtu (5.28 *K-m2/W) for framed floors and R-15.6 ht ^{2, ex} FiBtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-*F (2.0 Wm2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-*F (2.55 W/m2-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit.	M M M	M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. "FIBIU (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht.". "FIBIU (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht." "FIBIU (5.28 "K-m2/W) for framed floors and R-15.6 ht." "FIBIU (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Bluhr-ft2-"F (2.0 Winz-"K for non-metal framed windows or a maximum overall U-value of 0.45 Bluhr-ft2-"F (2.55 Winz-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or	M M M M M	M M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht ^{2, ex} FiBtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht ^{2, ex} FiBtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht ^{2, ex} FiBtu (5.28 *K-m2/W) for framed floors and R-15.6 ht ^{2, ex} FiBtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-*F (2.0 Wm2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-*F (2.55 W/m2-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit.	M M M M M	M M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* Fifbtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.* Fifbtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* Fifbtu (2.75 *K-m2/W) for framed floors and R-15.6 h.ft.* Fifbtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft.* Fig. (2.55 W/m2.* K) for metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft.* Fig. (2.55 W/m2.* K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install pergrammable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas.	M M M M M M M	M M M	BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h. #* "F/Btu (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 h. #*. "F/Btu (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h. #*. "F/Btu (5.28 "K-m2/W) for framed floors and R-15.6 h. #*. "F/Btu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-"F (2.0 Wint2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Btuhr-ft2-"F (2.0 Wint2-"K for mon-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-"F (2.0 Wint2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls	M M M M M	M M M M M	BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. *FFIBIU (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht. *F.* *F/Btu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht. *FFIBIU (5.28 *K-m2/W) for framed floors and R-15.6 ht. *F.* *F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-*F (2.0 W/m2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-*F (2.55 W/m2-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install pergy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Specify and install pridade and corridor lighting controls to automatically reduce the overall	M M M M M M M	M M M M M	BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. *FFBtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht. *F.* *FFBtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht. *F.* *F/Btu (5.28 *K-m2/W) for framed floors and R-15.6 ht. *F.* *F/Btu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2-*F (2.0 W/m2-*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2-*F (2.55 W/m2-*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied.	M M M M M M	M M M M M	BP BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in the "FrBtu (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 in the "FrBtu (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in the "FrBtu (5.28 "K-m2/W) for framed floors and R-15.6 in the "FrBtu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K) for metal framed windows. Minimum Bolier Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install poly non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop	M M M M M M M	M M M M M	BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. ** Fifbit (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht. **. ** Fifbit (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht. ** Fifbit (5.28 *K-m2/W) for framed floors and R-15.6 ht. ** Fifbit (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Bluhr-ft2-** F(2.0 Winz-*K for non-metal framed windows or a maximum overall U-value of 0.45 Bluhr-ft2-** F(2.0 Winz-*K for non-metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least unit as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a	M M M M M M	M M M M M	BP BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in the "FrBtu (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 in the "FrBtu (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in the "FrBtu (5.28 "K-m2/W) for framed floors and R-15.6 in the "FrBtu (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buth-tt2-"F (2.0 Wint2-"K) for metal framed windows. Minimum Bolier Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install poly non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop	M M M M M M	M M M M M	BP BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 ht. ** Fifbit (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 ht. **. ** Fifbit (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 ht. ** Fifbit (5.28 *K-m2/W) for framed floors and R-15.6 ht. ** Fifbit (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Bluhr-ft2-** F(2.0 Winz-*K for non-metal framed windows or a maximum overall U-value of 0.45 Bluhr-ft2-** F(2.0 Winz-*K for non-metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least unit as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a	M M M M M M	M M M M M	BP BP BP BP BP	OP	
	M3 M4 M5 M6 M7 M8 M9 M10	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in #2*FigBtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 in #2*FigBtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in #2*FigBtu (5.28 *K-m2/W) for framed floors and R-15.6 in #2*FigBtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2*F (2.0 Wm2*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2*F (2.55 W/m2*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install gray Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Cighting Specify and install parkade and corridor lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a representative from UBC Sustainability and Engineering, Campus & Community Planning and contractor	M M M M M 2	M M M M M 2	BP BP BP BP BP BP		
	M3 M4 M5 M6 M7 M8 M9 M10	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h.ft.* Fifbtu (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 h.ft.* Fifbtu (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 h.ft.* Fifbtu (5.28 *K-m2/W) for framed floors and R-15.6 h.ft.* Fifbtu (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft.2* Ft (2.0 W/m2.* K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft.2* Ft (2.5 W/m2.* K) for metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft.2* Ft (2.5 W/m2.* K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install Energy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install pergy ammable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting some when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a representative from USC Sustainability and Engineering, Campus & Community Planning and contractor to evaluate the results and optimize the design of the building.	M M M M M M	M M M M M	BP BP BP BP BP	OP OP	
	M3 M4 M5 M6 M7 M8 M9 M10 M11	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in the "Fifbit (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 in the "Fifbit (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in the "Fifbit (5.28 "K-m2/W) for framed floors and R-15.6 in the "Fifbit (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Buhr-tt2-"F (2.0 W/m2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buhr-tt2-"F (2.0 W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install benergy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install ponly non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a representative from UBC Sustainability and Engineering, Campus & Community Planning and contract to the valuate the results and optimize the design of the building. Commissioning Contract of the first park to develop and implement a commissioning plan	M M M M M 2	M M M M M 2	BP BP BP BP BP BP		
	M3 M4 M5 M6 M7 M8 M9 M10 M11	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in #2*Fight (2.75 *K-m2/W) for above grade non-glazed wall areas, and R-7.5 in #2*Fight (1.32 *K-m2/W) continuous insulation* for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in #2*Fight (5.28 *K-m2/W) for framed floors and R-15.6 in #2*Fight (2.75 *K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btuhr-ft2*F (2.0 Wint2*K for non-metal framed windows or a maximum overall U-value of 0.45 Btuhr-ft2*F (2.55 W/m2*K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install group Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Corridor Lighting Controls Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Corridor Lighting Controls Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Corridor Lighting Controls Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Corridor Lighting Controls Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Corridor Lighting Controls Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighti	M M M M M 2	M M M M M 2	BP BP BP BP BP BP		
	M3 M4 M5 M6 M7 M8 M9 M10 M11	Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 in the "Fifbit (2.75 "K-m2/W) for above grade non-glazed wall areas, and R-7.5 in the "Fifbit (1.32 "K-m2/W) continuous insulation" for below grade walls. Minimum Floor Insulation Design floors above non-heated parkade areas with a minimum insulation value of R-30 in the "Fifbit (5.28 "K-m2/W) for framed floors and R-15.6 in the "Fifbit (2.75 "K-m2/W) for slab floors. Energy Efficient Windows Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Buhr-tt2-"F (2.0 W/m2-"K for non-metal framed windows or a maximum overall U-value of 0.35 Buhr-tt2-"F (2.0 W/m2-"K) for metal framed windows. Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90%. Domestic Hot Water Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler). Energy Star Dishwashers and Refrigerators Specify and install benergy Star-labelled dishwashers and refrigerators in each unit. Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit. Common Area Lighting Specify and install ponly non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas. Parkade and Corridor Lighting Controls Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied. Energy Modeling Workshop Model the energy performance of the building and hold a workshop with the design team, a representative from UBC Sustainability and Engineering, Campus & Community Planning and contract to the valuate the results and optimize the design of the building. Commissioning Contract of the first park to develop and implement a commissioning plan	M M M M M 2	M M M M M 2	BP BP BP BP BP BP		

EA		ENERGY STEP CODE					
		Design and construct the building to meet BC Energy Step Code (ESC). The building design					
		must meet mandatory or optional ESC Step targets, below, and					
		meet the requirements of Section 10.2.3 of the BC Energy Step Code Regulation. The Energy Step Code includes energy targets and an air tightness testing					
		requirement.					
		Building Envelop Airtightness Testing	2	2	BP	OP	
		An airtightness test meeting ASTM E779 or USACE Version 3 standard, as required by the					
		Energy Step Code.	_				
		Energy Step Code Step 2	6	6	BP	OP	
EA		130 kWh/m2-yr (TEUI) and 45 kWh/ m2-yr (TEDI). This credit is mandatory. OPTIONAL	<u> </u>				
EA	1		8	X	BP	OP	
		Energy Step Code Step 3 120 kWh/m2-yr (TEUI) and 30 kWh/ m2-yr (TEDI).	۰	^	DP	UP	
		Energy Step Code Step 4	15	Χ	BP	OP	
		100 kWh/m2-yr (TEUI) and 15 kWh/ m2-yr (TEDI). This credit is optional.	13	^	Dr	Or .	
		Passive House Energy Performance	5	X	BP	OP	
		Design and construct the building to conform to the Passive House Planning Package, version 9	ľ	~		J .	
		or newer, meeting the requirements of Section 10.2.3.3 (3) of the Energy Step Code Regulation.					
		This credit is optional.					
EA	1	ENERGY METERING					
	1.1	Thermal Energy Sub-Metering	1	1	BP		
		Provide separate metering in individual units for measuring thermal energy consumption used for	l				
		space heating.	l				
EA	2	RENEWABLE ENERGY	•				
	2.1	Future Renewable Electricity	1	?	BP		
		Pre-wire buildings and provide installation space for future use of photovoltaic technologies or					
		other renewable electricity generation.					
	2.2	Renewable Electricity Utilization	3	3	BP		
		Utilize photovoltaic technologies or other renewable electricity generation for a portion of the					
		building's electrical supply					
	2.3	Low-Carbon District Energy Utilization	5	5	BP		
		Connect to the District Energy System for the building's thermal energy supply in preparation of					
		transition to renewable energy in the future.					
		Performance Category: Materials & Resources (MR)		Points			
		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce an			ources, redu	uce construc	ction waste, and to select building materials that are environmentally
		Performance Category: Materials & Resources (MR)			ources, redu	uce construc	ction waste, and to select building materials that are environmentally
		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce an	nd reuse		ources, redu	uce construc	ction waste, and to select building materials that are environmentally
MR		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce an		naterial reso		uce construc	ction waste, and to select building materials that are environmentally
MR MR	1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable.	nd reuse	material reso			ction waste, and to select building materials that are environmentally
	1 1.1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce an preferable. OPTIONAL	nd reuse	naterial reso			ction waste, and to select building materials that are environmentally
		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS	Score:	naterial reso 1 Points		ission	ction waste, and to select building materials that are environmentally
		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials	Score:	naterial reso 1 Points		ission	ction waste, and to select building materials that are environmentally
		Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building	Score:	naterial reso 1 Points		ission	ction waste, and to select building materials that are environmentally
	1.1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building materials.	Score:	1 Points		op OP	ction waste, and to select building materials that are environmentally
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	1.1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce are preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building materials. Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials. Recycled Content Materials Specify and use building materials with the following recycled content levels:	Score:	1 Points X		OP OP	ction waste, and to select building materials that are environmentally
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	1.1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce are preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building materials. Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials. Recycled Content Materials Specify and use building materials with the following recycled content levels:	Score:	1 Points X		OP OP	ction waste, and to select building materials that are environmentally
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MR	1.1	Performance Category: Materials & Resources (MR) The intent of the Materials & Resources category is to encourage design strategies that reduce ar preferable. OPTIONAL RECYCLED CONTENT AND REUSED MATERIALS Reused Building Materials Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building materials. Reused Building Materials Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials. Recycled Content Materials Specify and use building materials with the following recycled content levels: Common area carpet with minimum 25% recycled content Drywall with minimum 15% recycled content Batt insulation with minimum 40% recycled content Doors contain minimum 15% recycled material Concrete with min. 20% fly ash content, excluding suspended slabs Concrete with min. 40% fly ash content, excluding suspended slabs Cabinetry with minimum 20% recycled content MDF products with minimum 50% recycled content *Minimum four recycled content items on list above 1 point *All eight recycled content items on list above 2 points REGIONAL MATERIALS	Score:	1 Points X 1		OP OP	ction waste, and to select building materials that are environmentally
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		CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS				
	3.1	Dimensional Lumber and Plywood	3	?	OP	
		Demonstrate that a minimum of 50% of the total value of dimensional lumber and plywood is				
		certified in accordance with either:				
		CSA Z809 – 2 Points				
		Or Forest Stewardship Council (FSC) – 3 Points				
				<u> </u>		
	3.2	Hardwood Floors	3	X	OP	
		Specify and install bamboo floors or hardwood floors certified in accordance with the Forest				
		Stewardship Council or CSA Z809. If floors are offered only as an option, specify and offer only				
		bamboo or renewable products with third-party certification.				
		CSA Z809 – 2 Points				
		Or Forest Stewardship Council (FSC) – 3 Points				
MR	4	BUILDING PRODUCT INGREDIENTS				
IVIIX			_			T
	4.1	Transparency of Ingredients	2	X	OP	
		Install ten different building products from three different manufacturers that evaluate and				
		disclose the chemical inventory of the product to an accuracy of 0.1% for each product. For each				
		product selected provide either:				
		Health Product Declaration				
		Manufacturer Inventory of all ingredients by CAS number, of Dealers Label (Lines Building leatings)				
		Declare Label (Livng Building Institute)				
l i	4.2	Optimization of Ingredients	2	Х	OP	
	7.2		-	^	01	
		Demonstrate that a minimum of 10% (by value) of building materials are optimized for ingredient content by demonstrating optimization in one of the following ways:				
		GreenScreen v1.2 benchmark 4 minimum				
		• Red List free		1		
		Free of ingredients listed on REACH Authorization and Candidate List				
L				<u></u>		
		Performance Category: Indoor Environmental Quality (IEQ)	8	Points		
		The intent of the Indoor Environmental Quality category is to achieve enhanced indoor environme	ntal qual	ity through th	ne thoughtful selection	and application of materials and effective ventilation strategies.
		,,				
			Score:	8		Mandatory points acheived
IEQ		MANDATORY		Points	Submission	
IEQ		Adhesives and Sealants	М	M	OP	
IEQ	IWI I		IWI	IVI	UP UP	
		Specify and use adhesives, sealants and sealant primers that are EcoLogo certified or do not				
		exceed the VOC limits in the South Coast Air Quality Management District (SCAQMD) Rule				
l (#1168 on the interior of the building.				
	M2	Paints and Coatings	M	M	OP	
		Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum				
		GPI-1 by the Master Painter's Institute on the interior of the building.				
l i	M3	Floor Coverings	M	M	OP	
		Specify and install carpet and carpet cushion that carry the following certifications: Carpet and	""		01	
		specify and install carpet and carpet cushion that carry the following certifications. Carpet and				
		Pug Institute Green Lahel Plus				
		Rug Institute Green Label Plus.				
		Ventilation Effectiveness	M	М	BP	
		Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the	М	M	ВР	
		Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building	М	M	BP	
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IEQ		Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building	М	M	BP	
IEQ IEQ		Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.	М	M	ВР	
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		Erosion and Sedimentation Control Prepare and implement a Sediment and Erosion Control Plan that conforms to the City of Vancouver Bulletin 2002-003-EV dated March 1, 2017.	М	М		OP	
	M6	Waste Management Plan Prepare and implement a waste management plan that diverts 75% (by weight) of construction,	М	М		OP	
		demolition and land clearing waste from landfill.					
CON		OPTIONAL CONSTRUCTION IAQ MANAGEMENT PLAN					
0011		Indoor Air Quality Management Plan	2	2		OP	
	•••	Prepare and implement an Indoor Air Quality (IAQ) Management Plan for the construction and pre-occupancy phases of the building.	-	-		.	
	1.2	Flushout / IAQ Test	2	X		OP	
		After construction ends and prior to occupancy conduct aminimum two-week continuous building flushout with new filtration media at 100% outside air or conduct a Baseline Indoor Air Quality Test.					
		Performance Category: Innovation & Design Process (ID)	24	Points			
		The intent of the Innovation & Design Process category is to provide incentive and credit for gener project.	ral desigr	and other i	nnovative pr	actices tha	t improve the overall sustainability and environmental performance of the Mandatory points acheived
ID		MANDATORY	ocore.	Points	Submi	ission	manuatory points achieved
	M1	Goal-Setting Workshop	М	М	BP		
		Hold a goal setting workshop including the developer, design consultants and contractor to review the Residential Environmental Assessment Program, set goals for the project and assign responsibilities.					
		Educate the Homeowner	М	М		OP	
		Develop a homeowner's manual that promotes sustainable behavior and describes all of the sustainable features of the project instructing the homeowner on their proper use. This manual should be included in record drawings or some form that will be accessible beyond the first generation of owner/resident.					
ID		OPTIONAL		l .			
ID	1	INNOVATION IN MATERIALS					
	1.1	Life-Cycle Assessment	4	X		OP	
		Perform a Life-Cycle Assessment of the project's structure and enclosure and demonstrate a minimum of 5% improvement from a reasonable baseline building for three environmental categories.					
ID	2	INTEGRATIVE AND UNIVERSAL DESIGN					
		Green Building Specialist Engage an expert in green buildings and sustainable construction practices to provide advice on effective green building strategies to the design team.	1	1	BP		
		Design for Safety and Accessibility Demonstrate that at least 25% of the units in the building have been designed to meet the SAFERhome standards (http://www.saferhomesociety.com/), which address issues of accessibility, children's safety, seniors and aging in place.	1	X	BP		
		Design for Security and Crime Prevention Demonstrate that the design has been reviewed by an accredited Crime Prevention Through	2	2	BP		
		Environmental Design (CPTED) practitioner .					
ID		MARKET TRANSFORMATION					
		Educate the Sales Staff Develop marketing materials based on the environmental performance of the project and ensure the sales staff is aware of and knowledgeable about the green building features.	1	1		OP	
ID		ACADEMIC LINKS					
	4.1	Enhance Research or Further Student Development Collaborate with UBC students and/or faculty on a research project or other opportunities to enhance the academic mission of the University and integrate it with the community. The research project should be concurrent with, and applicable to, the current project.	5	5	BP	OP	
		Energy Data Sharing Incorporate a data sharing agreement into the sales contracts or strata constitution that allows building aggregate energy data to be collected for use by the UBC Sustainability and Engineering, Campus & Community Planning.	4	X	BP	OP	
ID	5	INNOVATIVE DESIGN					
		Innovative Design or Exemplary Achievement Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2	2		OP	
		Innovative Design or Exemplary Achievement Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2	?		OP	
		Innovative Design or Exemplary Achievement Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2	?		OP	