BC hydro powersmart FORTIS BC™

Scenario Description

Walls

Enhanced Thermal Performance Spread Sheet SI Units

Clear Field Area Method

Select Area Calculation (Choose One)	Area	Units
◉ Sum of Active Clear Field Areas (Default)	242.86	m^2
○ User Defined Area	Enter User Defined Opaque Area	m^2

Overall Opaque Wall Thermal Performance Values

Base Building		Proposed Building		% Below Baseline
Opaque USI-Value (W/m^2K)	Enter Base Building U-Value	Opaque USI-Value (W/m^2K)	0.271	-
Effective RSI-Value (m^2K/W)	-	Effective RSI-Value (m^2K/W)	3.7	

Workspace

Proposed Building Entries

								Totals	65.8	100%	
Add/Remove Detail	Transmittance Type	Include	Transmittance Description	Area, Length or Amount Takeoff	Units	Transmittance Value	Units	Source Reference	Heat Flow (W/K)	%Total Heat Flow	Notes
Add Clear Field	Clear Field	☑	siding, wood stud, (stainless steel) long screws	60.43	m^2	0.153	W/m^2K	BETBG Detail 8.1.47	9.2	14%	vative transmittance value due to use of stainless steel screws (lower conductivity) than the ma
1	Clear Field	☑	Tyndall stone, wood stud	138.10	m^2	0.151	W/m^2K	BETBG Detail 8.1.49	20.9	32%	
1	Clear Field	☑	Duxton 458 FiberWall Fixed Window - L0679 PH Arctic ID5952 (6 pane, air)	26.24	m^2	0.568	W/m^2K	Duxton	14.9	23%	SHGC = 0.18
1	Clear Field	☑	Duxton 458 Plus FiberWall Casement Window - Quad Pane Thin Glass	9.68	m^2	0.620	W/m^2K	Duxton	6.0	9%	SHGC = 0.13
1	Clear Field	☑	Duxton 458 Plus FiberWall Glazed Balcony Door	8.40	m^2	1.010	W/m^2K		8.5	13%	estimated value, not yet calculated by Duxton, assumed SHGC = 0.13
Add Linear Interface Detail	Linear Interface Detail	☑	Fenestration Transition - High Performance Windows with Insulated Frames	88.54	m	0.010	W/mK	BETBG v1.6 Default - Thermal Bridge	0.9	1%	ance Duxton 458 FiberWall low conductive frames, flashing not bypassing thermal break, glazi
	Linear Interface Detail	☑	Corner Intersections	50.00	m	0.036	W/mK	BETBG Detail 8.5.1	1.8	3%	d inner corners, Tyndall wall performance assumed similar to siding wall with screws and wood
	Linear Interface Detail	☑	Interior Wall Intersections -	25.00	m	0.008	W/mK	BETBG Detail 8.7.3	0.2	0%	
	Linear Interface Detail	☑	Floor Slab - Intermediate Floor Intersection	74.84	m	0.012	W/mK	BETBG Detail 8.2.19	0.9	1%	no masory shelf angle or flashing at 4th floor
	Linear Interface Detail	☑	Floor Slab - Cantilevered Wood Joist Balcony Intersection at Door/Window	22.00	m	0.115	W/mK	BETBG Detail 8.2.3	2.5	4%	wall assembly (but with more insulation and high performance window/door assembly), and
	Linear Interface Detail	☑	Enter Description Here	Enter Length Here	m	Enter Psi-Value Here	W/mK	Enter Source Here	-	-	
Add Point Interface Detail	Point Interface Detail	☑	Enter Description Here	Enter Amount Here	#	Enter Chi-Value Here	W/K	Enter Source Here	-	-	