


# Prototype 1

November 7, 2023 1:08 PM

Model: Office, 1 Story (Green) with Wood Clapboard / Wood Truss

Default Building Image 🗑️ 📄



<b>\$1,617,912.20</b>	<b>NATIONAL AVERAGE</b>	<b>1</b>	<b>No</b>
Building Cost	Location	Stories (Ea.)	Basement
<b>\$179.21</b>	<b>9,028</b>	<b>12.00</b>	<b>\$3,541.72</b>
Cost per S.F.	Floor Area	Story Height	Additive Cost

**Estimate Header Information** ^

Building Category: <input type="text" value="Commercial New Construction"/>	Labor Type: <input type="text" value="Open Shop"/>	Release: <input type="text" value="Year 2018"/>	Location: <input type="text" value="National Average"/>
* Estimate Name: <input type="text" value="Guardians Building Prototype I"/>	Client Name: <input type="text" value="Guardian Program"/>	* Folder: <input type="text" value="Current Estimates"/>	Estimate Address: <input type="text"/>
State/Province: <input type="text"/>	City: <input type="text"/>	Zip/Postal Code: <input type="text"/>	Notes: <input style="height: 40px;" type="text"/>

**Step 1: Building Type** ^

Building Type: <input type="text" value="Office, 1 Story (Green)"/>	Wall/Framing Type: <input type="text" value="Wood Clapboard / Wood Truss"/>
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**Step 2: Building Parameters** ^

* Area (S.F.) <span style="color: red;">1700 - 28750</span> <input type="text" value="9028"/>	* Perimeter (L.F.) <input type="text" value="680"/>	* Stories <span style="color: red;">1 - 1</span> <input type="text" value="1"/>	* Story Height <span style="color: red;">10 - 18</span> <input type="text" value="12.00"/>
* Contractor Fees <input type="text" value="25.00"/> %	* Architectural Fees <input type="text" value="7.00"/> %	* User Fees <input type="text" value="0.00"/> %	Include Basement <input type="radio"/> Yes <input checked="" type="radio"/> No

Note: Modification of building parameter may reset custom assembly changes.

**Step 3: Building Additives (optional)** ^

Show Selected

Description	Cost	Unit	Quantity	Total
Closed circuit television system (CCTV), surveillance, one station (camera & monitor)	\$1,375.00	Ea.	1.00	\$1,375.00
Building commissioning, sustainable/green commercial construction, minimum	\$0.24	S.F.	9028.00	\$2,166.72

**Total 2 records found**

## Cost Breakdown

		Quantity	% of Total	Cost per S.F.	Cost
<b>A</b>	<b>Substructure</b>		<b>11.57%</b>	<b>\$15.50</b>	<b>\$139,918.49</b>
A1010	Standard Foundations			\$3.43	\$30,956.65
	Strip footing, concrete, reinforced, load 11.1 KLF, soil bearing capacity 6 KSF, 12" deep x 24" wide	680		\$2.85	\$25,772.00
	Spread footings, 3000 PSI concrete, load 50K, soil bearing capacity 6 KSF, 3' - 0" square x 12" deep	30.95		\$0.57	\$5,184.65
A1030	Slab on Grade			\$5.29	\$47,758.12
	Slab on grade, 4" thick, non industrial, reinforced, recycled plastic vapor barrier	9028		\$5.29	\$47,758.12
A2010	Basement Excavation			\$0.28	\$2,527.84
	Excavate and fill, 10,000 SF, 4' deep, sand, gravel, or common earth, on site storage	9028		\$0.28	\$2,527.84
A2020	Basement Walls			\$6.50	\$58,675.88
	Foundation wall, CIP, 4' wall height, direct chute, .099 CY/LF, 4.8 PLF, 8" thick, 3" XPS	25.79		\$0.21	\$1,895.88
	Foundation wall, CIP, 4' wall height, direct chute, .148 CY/LF, 7.2 PLF, 12" thick, 3" XPS R15	680		\$6.29	\$56,780.00
<b>B</b>	<b>Shell</b>		<b>24.79%</b>	<b>\$33.22</b>	<b>\$299,924.67</b>
B1010	Floor Construction			\$0.19	\$1,676.63
	Wood column, 6" x 6", 20' x 25' bay, 12' unsupported height, 72 BF/MSF, 40 PSF total allowable load	2257		\$0.06	\$496.54
	Wood beam, 3 - 2 x 14, Douglas Fir No. 2, 243 lbs/LF @ 18' span	77.38		\$0.13	\$1,180.09
B1020	Roof Construction			\$7.47	\$67,439.16
	Wood roof truss, 2' OC, 60' span, 4:12 pitch, 1' overhang, 5/8" sheathing, 1x8 fascia, R30 insulation	9028		\$7.47	\$67,439.16
B2010	Exterior Walls			\$13.74	\$124,032.00
	Wood siding, 2"x6" studs 24"OC, insulated wall, 1" x 4" vertical T&G redwood	6528		\$13.74	\$124,032.00
B2020	Exterior Windows			\$5.60	\$50,592.00
	Windows, aluminum, awning, insulated glass, 4'-5" x 5'-3"	70.95		\$5.60	\$50,592.00
B2030	Exterior Doors			\$3.73	\$33,646.07
	Door, aluminum & glass, with transom, narrow stile, double door, hardware, 6'-0" x 10'-0" opening	2.57		\$1.95	\$17,604.60
	Door, aluminum & glass, with transom, bronze finish, hardware, 3'-0" x 10'-0" opening	2.57		\$1.00	\$9,053.79
	Door, steel 18 gauge, hollow metal, 1 door with frame, no label, 3'-0" x 7'-0" opening, low VOC paint	2.57		\$0.77	\$6,987.67
B3010	Roof Coverings			\$2.50	\$22,538.82
	Asphalt roofing, strip shingles, inorganic, Class A, 4" slope, 210-235 lbs/SQ	9479.4		\$2.00	\$18,010.86
	Gutters, box, aluminum, .032" thick, 5", enameled finish	455.6		\$0.42	\$3,822.48
	Downspout, aluminum, rectangular, 2" x 3", enameled, .024" thick	128.97		\$0.08	\$705.47
<b>C</b>	<b>Interiors</b>		<b>19.23%</b>	<b>\$25.76</b>	<b>\$232,579.03</b>
C1010	Partitions			\$5.91	\$53,311.32
	Metal partition, 5/8" water resistant gypsum board face, no base layer, 3-5/8" @ 24" OC framing, same opposite face, sound attenuation insulation	4514		\$2.55	\$23,021.40
	1/2" fire rated gypsum board, taped & finished, painted on metal furring, low VOC paint	6528		\$3.36	\$30,289.92
C1020	Interior Doors			\$5.89	\$53,174.92
	Door, single leaf, kd steel frame, hollow metal, commercial quality, flush, 3'-0" x 7'-0" x 1-3/8", low VOC paint	45.14		\$5.89	\$53,174.92
C1030	Fittings			\$0.86	\$7,753.76
	Toilet partitions, cubicles, ceiling hung, stainless steel	5.15		\$0.86	\$7,753.76
C3010	Wall Finishes			\$1.51	\$13,632.28
	Vinyl wall covering, fabric back, medium weight	5416.8		\$1.13	\$10,237.75
	Painting, interior on plaster and drywall, walls & ceilings, roller work, primer & 2 coats, low VOC	3611.2		\$0.38	\$3,394.53
C3020	Floor Finishes			\$4.83	\$43,587.18
	Carpet tile, nylon, fusion bonded, 18" x 18" or 24" x 24", 24 oz	5416.8		\$2.64	\$23,833.92
	Tile, ceramic natural clay	902.8		\$1.10	\$9,894.69
	Vinyl, composition tile, 12" x 12" x 1/8" thick, recycled content	2708.4		\$1.09	\$9,858.58
C3030	Ceiling Finishes			\$6.77	\$61,119.56
	Acoustic ceilings, 3/4" mineral fiber, 12" x 12" tile, concealed 2" bar & channel grid, suspended support	9028		\$6.77	\$61,119.56

<b>D</b>	<b>Services</b>		<b>43.44%</b>	<b>\$58.20</b>	<b>\$525,450.09</b>
D2010	Plumbing Fixtures			\$6.99	\$63,074.25
	Water closet, vitreous china, bowl only w/ auto flush sensor flush valve, wall hung, 1.28 gpf	8.25		\$3.12	\$28,146.72
	Urinal, vitreous china, wall hung, waterless, ADA	4.12		\$0.32	\$2,921.98
	Lavatory w/trim, vanity top, PE on CI, 20" x 18", faucet w/ hydroelectric powered motion sensor	8.25		\$1.80	\$16,219.45
	Service sink w/trim, PE on CI, wall hung w/rim guard, 24" x 20"	2.06		\$0.82	\$7,428.75
	Water cooler, electric, wall hung, wheelchair type, 7.5 GPH, GreenSpec certified, ADA	4.12		\$0.93	\$8,357.35
D2020	Domestic Water Distribution			\$0.86	\$7,802.77
	Water heaters, tankless, on-demand, natural gas/propane, 9.5 GPM	1.28		\$0.86	\$7,802.77
D3040	Distribution Systems			\$1.44	\$12,993.87
	Heat recovery pkgs, air to air, enthalpy recovery wheel, 2000 max CFM	1.28		\$1.44	\$12,993.87
D3050	Terminal & Package Units			\$19.10	\$172,434.80
	Rooftop, multizone, air conditioner, medical centers, 10,000 SF, 23.33 ton SEER 14	9028		\$19.10	\$172,434.80
D4010	Sprinklers			\$3.32	\$29,972.96
	Wet pipe sprinkler systems, steel, light hazard, 1 floor, 10,000 SF	9028		\$3.32	\$29,972.96
D4020	Standpipes			\$1.49	\$13,464.62
	Wet standpipe risers, class III, steel, black, sch 40, 4" diam pipe, 1 floor	1.54		\$1.49	\$13,464.62
D5010	Electrical Service/Distribution			\$1.48	\$13,362.50
	Overhead service installation, includes breakers, metering, 20' conduit & wire, 3 phase, 4 wire, 120/208 V, 200 A	1.25		\$0.37	\$3,312.50
	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	100		\$0.48	\$4,350.00
	Switchgear installation, incl switchboard, panels & circuit breaker, 120/208 V, 3 phase, 400 A	0.5		\$0.63	\$5,700.00
D5020	Lighting and Branch Wiring			\$15.00	\$135,379.33
	Receptacles incl plate, box, conduit, wire, 16.5 per 1000 SF, 2.0 W per SF, with transformer	9028		\$4.39	\$39,632.92
	Miscellaneous power, 1.2 watts	9028		\$0.30	\$2,708.40
	Central air conditioning power, 3 watts	9028		\$0.53	\$4,784.84
	Motor installation, three phase, 460 V, 15 HP motor size	2		\$0.52	\$4,690.00
	LED fixtures, type C, 10 fixtures per 1000 SF	10382.2		\$6.83	\$61,670.27
	Daylight dimming control system, 10 fixtures per 1000 SF	4514		\$1.46	\$13,135.74
	Lighting on/off control system, 10 fixtures per 1000 SF	9028		\$0.97	\$8,757.16
D5030	Communications and Security			\$6.68	\$60,321.55
	Telephone wiring for offices & laboratories, 8 jacks/MSF (cost per MSF)	6.77		\$1.48	\$13,338.87
	Communication and alarm systems, fire detection, addressable, 25 detectors, includes outlets, boxes, conduit and wire	1.28		\$2.76	\$24,955.97
	Fire alarm command center, addressable without voice, excl. wire & conduit	1.28		\$0.85	\$7,706.04
	Internet wiring, 8 data/voice outlets per 1000 S.F.	6.77		\$1.59	\$14,320.67
D5090	Other Electrical Systems			\$1.84	\$16,643.44
	Generator sets, w/battery, charger, muffler and transfer switch, gas/gasoline operated, 3 phase, 4 wire, 277/480 V, 7.5 kW	1.28		\$0.21	\$1,938.44
	Energy monitoring systems, electrical, three phase, 1 meter	1		\$0.39	\$3,517.00
	Energy monitoring systems, mechanical, BTU, 1 meter w/1 duct & 5 space sensors	1		\$0.87	\$7,825.00
	Energy monitoring systems, Front end display	1		\$0.07	\$638.00
	Energy monitoring systems, Computer workstation	1		\$0.30	\$2,725.00
<b>E</b>	<b>Equipment &amp; Furnishings</b>		<b>0.97%</b>	<b>\$1.31</b>	<b>\$11,781.70</b>
E1090	Other Equipment			\$1.25	\$11,325.15
E1090282313	1.00-Closed circuit television system (CCTV), surveillance, one station (camera & monitor)	1.00		\$0.15	\$1,375.00
E1090019113	9028.00-Building commissioning, sustainable/green commercial construction, minimum	9028.00		\$0.24	\$2,166.72
	Waste handling, recycling, tilt truck, plastic, with wheels, 0.5 C.Y., 850 lb capacity	1.28		\$0.86	\$7,783.43
E2020	Moveable Furnishings			\$0.05	\$456.56
	Signage, exterior, surface mounted, 24 ga aluminum, 10" x 7", no smoking	7.73		\$0.05	\$456.56
	<b>SubTotal</b>		<b>100%</b>	<b>\$133.99</b>	<b>\$1,209,653.98</b>
	<b>Contractor Fees (GC,Overhead,Profit)</b>		<b>25.0%</b>	<b>\$33.50</b>	<b>\$302,413.50</b>
	<b>Architectural Fees</b>		<b>7.0%</b>	<b>\$11.72</b>	<b>\$105,844.72</b>
	<b>User Fees</b>		<b>0.0%</b>	<b>\$0.00</b>	<b>\$0.00</b>
	<b>Total Building Cost</b>			<b>\$179.21</b>	<b>\$1,617,912.20</b>