

13 34 Fabricated Engineered Structures

13 34 13 – Glazed Structures

		Daily	Labor-			2022 Bare Costs			Total	Total
13 34 13.13 Greenhouses		Crew	Output	Hours	Unit	Material	Labor	Equipment		Incl O&P
2000	Institutional, custom, rigid frame, including compartments and									
2050	multi-controls, under 500 S.F.				SF Flr.	29.50			29.50	32.50
2150	Over 2,000 S.F.				"	15.45			15.45	17
3700	For 1/4" tempered glass, add				SF Surf	2.34			2.34	2.57
3900	Cooling, 1,200 CFM exhaust fan, add				Ea.	350			350	385
4000	7,850 CFM					920			920	1,000
4200	For heaters, 10 MBH, add					265			265	291
4300	60 MBH, add					790			790	870
4500	For benches, 2' x 8', add					204			204	224
4600	4' x 10', add				↓	535			535	590
4800	For ventilation & humidity control w/4 integrated outlets, add				Total	310			310	340
4900	For environmental controls and automation, 8 outputs, 9 stages, add				"	1,425			1,425	1,575
5100	For humidification equipment, add				Ea.	350			350	385
5200	For vinyl shading, add				S.F.	.33			.33	.36
6000	Geodesic hemisphere, 1/8" plexiglass glazing									
6050	8' diameter	2 Carp	2	8	Ea.	5,700	450		6,150	6,950
6150	24' diameter		.35	45.714		17,500	2,575		20,075	23,000
6250	48' diameter	↓	.20	80	↓	36,300	4,500		40,800	46,600

13 34 13.19 Swimming Pool Enclosures

0010	SWIMMING POOL ENCLOSURES Translucent, free standing									
0020	not including foundations, heat or light									
0200	Economy	2 Carp	200	.080	SF Hor.	48	4.50		52.50	59.50
0600	Deluxe	"	70	.229		131	12.85		143.85	164
0700	For motorized roof, 40% opening, solid roof, add					26			26	28.50
0800	Skylight type roof, add					16			16	17.60

13 34 16 – Grandstands and Bleachers

13 34 16.13 Grandstands

0010	GRANDSTANDS Permanent, municipal, including foundation									
0300	Steel, economy				Seat	24.50			24.50	27
0400	Steel, deluxe					27.50			27.50	30
0900	Composite, steel, wood and plastic, stack design, economy				↓	34.50			34.50	38
1000	Deluxe				Seat	82.50			82.50	90.50

13 34 16.53 Bleachers

0010	BLEACHERS									
0020	Bleachers, outdoor, portable, 5 tiers, 42 seats	2 Sswk	120	.133	Seat	93	8.25		101.25	116
0100	5 tiers, 54 seats		80	.200		90	12.35		102.35	118
0200	10 tiers, 104 seats		120	.133		103	8.25		111.25	126
0300	10 tiers, 144 seats	↓	80	.200	↓	83.50	12.35		95.85	111
0500	Permanent bleachers, aluminum seat, steel frame, 24" row									
0600	8 tiers, 80 seats	2 Sswk.	60	.267	Seat	108	16.50		124.50	145
0700	8 tiers, 160 seats		48	.333		90	20.50		110.50	131
0925	15 tiers, 154 to 165 seats		60	.267		96	16.50		112.50	132
0975	15 tiers, 214 to 225 seats		60	.267		86	16.50		102.50	120
1050	15 tiers, 274 to 285 seats		60	.267		89	16.50		105.50	124
1200	Seat backs only, 30" row, fiberglass		160	.100		32.50	6.20		38.70	45.50
1300	Steel and wood	↓	160	.100	↓	35	6.20		41.20	48
1400	NOTE: average seating is 1.5' in width									

13 34 19 – Metal Building Systems

13 34 19.50 Pre-Engineered Steel Buildings

0010	PRE-ENGINEERED STEEL BUILDINGS	R133419-10
0100	Clear span rigid frame, 26 ga. colored roofing and siding	