

13 17 Tubs and Pools

13 17 33 - Whirlpool Tubs

13 17 33.10 Whirlpool Bath

0010 WHIRLPOOL BATH

6000 Whirlpool, bath with vented overflow, molded fiberglass

6100 66" x 36" x 24"

Crew	Daily Output	Labor Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
Q-1	1	16	Ea.	1,475	1,000		2,475	3,125

13 18 Ice Rinks

13 18 13 - Ice Rink Floor Systems

13 18 13.50 Ice Skating

0010 ICE SKATING Equipment incl. refrigeration, plumbing & cooling

0020 coils & concrete slab, 85' x 200' rink

0300 55° system, 5 mas., 100 ton

0700 90° system, 12 mas., 135 ton

1200 Subsoil heating system (recycled from compressor), 85' x 200'

1300 Subsoil insulation, 2 lb. polystyrene with vapor barrier, 85' x 200'

			Total	602,500			602,500	662,500
			"	685,000			685,000	753,500
Q-7	.27	119	Ea.	44,200	7,925		52,125	60,500
2 Corp	.14	114	"	32,000	6,425		38,425	44,800

13 18 16 - Ice Rink Dasher Boards

13 18 16.50 Ice Rink Dasher Boards

0010 ICE RINK DASHER BOARDS

1000 Dasher boards, 1/2" H.D. polyethylene faced steel frame, 3' acrylic

1020 screen at sides, 5' acrylic ends, 85' x 200'

1100 Fiberglass & aluminum construction, same sides and ends

F-5	.06	533	Ea.	138,000	30,300		168,300	197,000
"	.06	533	"	154,000	30,300		184,300	214,500

13 21 Controlled Environment Rooms

13 21 13 - Clean Rooms

13 21 13.50 Clean Room Components

0010 CLEAN ROOM COMPONENTS

1100 Clean room, soft wall, 12' x 12', Class 100

1110 Class 1,000

1120 Class 10,000

1130 Class 100,000

2800 Ceiling grid support, slotted channel struts 4'-0" OC, ea. way

3000 Ceiling panel, vinyl coated foil on mineral substrate

3020 Sealed, non-perforated

4000 Ceiling panel seal, silicone sealant, 150 L.F./gal.

4100 Two sided adhesive tape

4200 Clips, one per panel

6000 HEPA filter, 2' x 4', 99.97% eff., 3" dp beveled frame (silicone seal)

6040 6" deep skirted frame (channel seal)

6100 99.99% efficient, 3" deep beveled frame (silicone seal)

6140 6" deep skirted frame (channel seal)

6200 99.999% efficient, 3" deep beveled frame (silicone seal)

6240 6" deep skirted frame (channel seal)

7000 Wall panel systems, including channel strut framing

7020 Polyester coated aluminum, particle board

7100 Porcelain coated aluminum, particle board

7400 Wall panel support, slotted channel struts, to 12' high

1 Corp	.18	44.444	Ea.	16,600	2,500		19,100	22,000
	.18	44.444		17,500	2,500		20,000	22,900
	.21	38.095		15,600	2,150		17,750	20,300
↓	.21	38.095	↓	12,800	2,150		14,950	17,200
			S.F.				5.90	6.50
			S.F.				3.72	4.13
1 Corp	150	.053	L.F.	.28	3		3.28	4.78
"	240	.033	"	.13	1.88		2.01	2.93
			Ea.	1.01			1.01	1.11
				380			380	420
				520			520	570
				485			485	530
				560			560	615
				585			585	645
			↓	675			675	740
			S.F.				18.20	18.20
							32	32
			↓				16.35	16.35