

CASINOS

OCCUPANCY DESCRIPTION: These buildings are designed mainly for gaming and entertainment, and include bars and lounges, show-rooms, retail and food service facilities commensurate with the quality level.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Projection area, lighting and sound systems commensurate with the overall quality. The costs include security and sound system, with better qualities having special lighting, stages, separate parlor and betting rooms, and restaurants.

NOT INCLUDED IN COSTS: Gaming or food service equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ.FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
C	Very good	\$187.85	Good architecture and trim, steel frame, best masonry	Central gaming, restaurants, retail, show, betting and meeting rooms	Special lighting and show sound system, good plumbing, security	Hot and chilled water (zoned)
	Good	154.15	Face brick, concrete and glass panels, good architecture, entry	Good gaming floor, betting, lounge and food areas, some good ornamentation	Good lighting and security system, good plumbing, food services	Warm and cool air (zoned)
	Average	114.10	Block, concrete panels, some trim, good entry	Drywall, vinyl, carpet, pavers, some lounge, betting rooms, coffee shop	Adequate lighting and plumbing, security system, bar and kitchen	Warm and cool air (zoned)
	Low cost	82.45	Low-cost block, tilt-up	Very plain, vinyl composition tile, carpet, few extras	Minimum lighting and plumbing	Heat pump system
D	Good	149.50	Brick veneer, best stucco, EIFS, siding, good trim, ornamental front	Good gaming floor, betting, lounge and food areas, some good ornamentation	Good lighting and security system, good plumbing, food services	Warm and cool air (zoned)
	Average	110.30	Good stucco or siding, some trim, good entry	Drywall, vinyl, carpet, pavers, some lounge, betting rooms, coffee shop	Adequate lighting and plumbing, security system, bar and kitchen	Warm and cool air (zoned)
	Low cost	79.30	Low-cost stucco or siding, very plain, low-cost entry	Drywall, some acoustic, vinyl composition tile, carpet, few rooms or extras	Minimum lighting and plumbing, limited lounge and food prep.	Heat pump system
S	Average	105.45	Metal sandwich panels, some trim, good entry	Drywall, vinyl, carpet, pavers, some lounge, betting rooms, coffee shop	Adequate lighting and plumbing, security system, bar and kitchen	Warm and cool air (zoned)
	Low cost	75.50	Metal panels, very plain	Drywall, vinyl composition tile, carpet, few extras	Minimum lighting and plumbing	Heat pump system
CDS	Finished basement	97.70	Concrete masonry, finished interior	Adequate gaming, lounge area, restrooms, some utility and storage	Adequate lighting, plumbing and security, some extras	Heat pump system

For utility basements, see Auditorium basements, Page CAL 8.

CASINOS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1	ELEVATORS: A small passenger or freight elevator with simple call system and push-button control, and two or three stops, costs \$35,250 to \$55,500.	SPRINKLERS: Apply to sprinklered area.				
		Sq. Ft.	LOW	AVG.	GOOD	EXCL.
		5,000	\$2.45	\$3.10	\$3.90	\$4.95
		10,000	2.20	2.75	3.45	4.35
		15,000	2.10	2.60	3.25	4.00
		20,000	2.00	2.45	3.05	3.80
		30,000	1.85	2.30	2.85	3.55
		40,000	1.80	2.20	2.70	3.35
		60,000	1.70	2.05	2.55	3.10
		80,000	1.60	1.95	2.40	2.95
		CANOPIES: Large entrance marquees or canopies generally cost 1/4 to 2/5 of the final base cost per square foot, or they may be computed from the Segregated or Unit-in-Place costs.	100,000	1.55	1.90	2.30
	150,000	1.45	1.75	2.15	2.60	
	200,000	1.40	1.70	2.05	2.45	

2	HEATING AND COOLING					
	These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
	Sq. Ft.	Costs	HEATING & COOLING	Sq. Ft.	Costs	Sq. Ft.
	HEATING ONLY		HEATING & COOLING	Costs	COOLING ONLY	Costs
	Electric cable or baseboard	\$ 5.55	Package A.C. (short ductwork)	\$11.15	Central refrigeration (zoned)	\$8.85
	Electric wall heaters	2.25	Warm and cool air (zoned)	16.80	package (short ductwork)	6.30
	Forced air furnace	6.85	Hot/chilled water (zoned)	24.60	Central evaporative	3.80
	Hot water	10.35	Heat pump system	13.35	Pkg. refrig. . . . \$1,375 to \$1,760 per ton capacity	
	Space heaters, with fan	2.20			Evap. coolers . . \$205 to \$345 per MCFM capacity	
	radiant	2.65				
	Steam (including boiler)	9.45				
	without boiler	8.30	Small indiv. heat pumps cost \$1,225 to \$1,650		VENTILATION ONLY	
	Wall or floor furnace	2.50	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.95

3	HEIGHT REFINEMENTS			
	MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.			
	STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.			
	Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
	12	.71	28	1.08
	14	.79	30	1.12
	16	.83	34	1.21
	18	.87	38	1.29
	20	.92	42	1.37
	22	.96	46	1.45
	24	1.00 (base)	50	1.53
	26	1.04	54	1.60

4	Average Floor Area Sq.Ft./Story	AVERAGE PERIMETER													Average Floor Area Sq.Ft./Story	
		150	200	250	300	400	500	600	700	800	900	1000	1200	1400		1600
	2,000	1.09	1.15	1.21	1.27	----	----	----	----	----	----	----	----	----	----	2,000
	5,000	----	1.01	1.03	1.06	1.10	1.15	1.20	----	----	----	----	----	----	----	5,000
	10,000	----	----	----	.99	1.01	1.03	1.06	1.08	1.10	----	----	----	----	----	10,000
	15,000	----	----	----	----	----	1.00	1.01	1.03	1.04	1.06	----	----	----	----	15,000
	20,000	----	----	----	----	----	.97	.99	1.00	1.01	1.02	1.04	1.06	----	----	20,000
	25,000	----	----	----	----	----	.95	.97	.98	.99	1.00	1.01	1.03	----	----	25,000
	30,000	----	----	----	----	----	.94	.95	.97	.98	.99	1.00	1.01	1.03	----	30,000
	40,000	----	----	----	----	----	----	.94	.95	.96	.96	.97	.99	1.00	1.01	40,000
	50,000	----	----	----	----	----	----	.93	.94	.94	.95	.95	.97	.98	.99	50,000
	60,000	----	----	----	----	----	----	----	----	.93	.94	.94	.96	.97	.98	60,000
	70,000	----	----	----	----	----	----	----	----	----	.93	.94	.95	.96	.97	70,000
	80,000	----	----	----	----	----	----	----	----	----	.92	.93	.94	.95	.96	80,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

CITY CLUBS



GOOD CLASS A/B



AVERAGE CLASS A

OCCUPANCY DESCRIPTION: City Clubs are private hotels, and, as such, the structures are generally three or more stories in height, with multiple sleeping units having no individual kitchen facilities. Structures normally have combined heating and cooling systems.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Allowance for dining, gymnasium and library facilities and

a lobby area. Service areas with good lighting, plumbing fixtures, and steam rooms. Elevators are included in costs designated with an asterisk (*).

NOT INCLUDED IN COSTS: Sprinklers, swimming pools, kitchen equipment, exercise equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
A-B	Good	\$132.95	Face brick or stone veneer, best metal and glass, concrete	Good plaster, paneling, carpet, fine detail, add for olympic pool	*TV and phone jacks in rooms, service and fixtures	Hot and chilled water (zoned)
	Average	103.70	Brick, stone, metal or precast panels, little trim	Plaster or drywall, carpeting, good lounge and public area, gym	*Adequate, steam room, gym, add for swimming pool	Warm and cool air (zoned)
A-B	Finished basement	62.35	Plaster or drywall interior	Plaster or drywall, vinyl comp., acoustic ceiling, shops, service functions	Adequate lighting/plumbing, restrooms, utility rooms	Hot water
	Parking basement	36.55	Unfinished	Concrete floor with hardener, lines and wheel stops	Minimum lighting/floor drains	Ventilation
	Utility basement	33.70	Painted interior	Few partitions and fire walls	Utility lighting/plumbing	None
C	Good	109.85	Face brick, stone or concrete & glass, good trim & entrance	Good plaster, paneling, carpet, good detail, add for olympic pool	*TV and phone jacks in rooms, good service and fixtures	Warm and cool air (zoned)
	Average	88.85	Brick, stone, metal or precast panels, little trim	Plaster or drywall, carpeting, good lounge and public areas, gym	*Adequate, steam room, gym, add for swimming pool	Warm and cool air (zoned)
C[†]	Finished basement	46.00	Plaster or drywall interior	Plaster or drywall, vinyl composition, finished ceiling, service functions	Adequate lighting/plumbing, utility outlets and fixtures	Forced air
	Parking basement	24.40	Unfinished	Plaster ceiling, concrete floor with hardener	Minimum lighting/floor drains	Ventilation
	Utility basement	22.40	Unfinished	Unfinished, no ceiling	Minimum lighting/plumbing	None

[†]For fire-resistant Type I basements, with concrete slab separation under Class C, D or S units, add \$4.35 per square foot to the basement cost.

CITY CLUBS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

ELEVATORS: Buildings whose base costs include elevators are marked with an asterisk (*). If the building under consideration has no elevators, deduct the following from the base costs so marked. For detailed costs see Section UIP 8.				SPRINKLERS: Apply to sprinklered area.				
Classes A/B	Sq. Ft.	Class C	Sq. Ft.	Sq. Ft.	LOW	AVG.	GOOD	EXCL.
	Costs		Costs	5,000	\$2.25	\$2.85	\$3.65	\$4.70
Good	\$3.60	Good	\$2.30	10,000	2.00	2.55	3.25	4.10
Average	2.75	Average	1.80	20,000	1.80	2.25	2.85	3.60
				50,000	1.55	1.95	2.45	3.05
				75,000	1.50	1.85	2.25	2.80
				100,000	1.40	1.75	2.15	2.65
ELEVATOR STOPS: For basement stops, add \$4,250 to \$6,450 per stop.				BALCONIES: Exterior balconies generally cost 1/3 to 1/2 of the final base cost per square foot of the building or they may be computed from the Segregated or Unit-in-Place costs.				
SWIMMING POOLS: Swimming pools, complete, cost \$44.25 to \$127.75 per square foot. For detailed costs, see Section UIP 16.								

2

HEATING AND COOLING					
These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard ..	\$3.55	Package A.C. (short ductwork)	\$ 7.00	Central refrigeration (zoned)	\$5.70
Electric wall heaters	1.40	Warm and cool air (zoned)	9.75	package (short ductwork)	3.95
Forced air furnace	4.55	Hot/chilled water (zoned)	15.40	Central evaporative	2.70
Hot water, baseboard/convector	6.75	Heat pump system	7.95	Pkg. refrig. . \$1,200 to \$1,575 per ton capacity	
radiant floor/ceiling	7.05	Ind. thru-wall heat pumps	3.50	Evap. coolers . \$155 to \$240 per MCFM capacity	
Steam (including boiler)	6.10			VENTILATION ONLY	
without boiler	5.40	Small indiv. heat pumps cost \$1,075 to \$1,475		Vent. (blowers/ducts)	\$1.10
Wall or floor furnace	1.55	per ton of rated capacity			

3

HEIGHT REFINEMENTS			
MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.			
STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.			
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.95	14	1.11
9	.97	15	1.14
10	1.00 (base)	16	1.18
11	1.03	17	1.21
12	1.06	18	1.24
13	1.08		

4

	AVERAGE PERIMETER														
Average Floor Area Sq.Ft./Story	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	Average Floor Area Sq. Ft./Story
2,000	1.09	1.15	1.22	1.29	---	---	---	---	---	---	---	---	---	---	2,000
4,000	.96	.99	1.02	1.06	1.09	1.12	---	---	---	---	---	---	---	---	4,000
6,000	---	.93	.96	.98	1.00	1.02	1.04	1.09	---	---	---	---	---	---	6,000
8,000	---	---	.92	.94	.96	.97	.99	1.02	1.06	---	---	---	---	---	8,000
10,000	---	---	---	.92	.93	.94	.96	.98	1.01	1.04	---	---	---	---	10,000
12,000	---	---	---	.90	.91	.92	.93	.96	.98	1.00	---	---	---	---	12,000
15,000	---	---	---	---	.89	.90	.91	.93	.95	.96	.98	---	---	---	15,000
20,000	---	---	---	---	---	---	.89	.90	.92	.93	.94	.96	.98	---	20,000
25,000	---	---	---	---	---	---	.88	.89	.90	.91	.92	.93	.95	---	25,000
30,000	---	---	---	---	---	---	---	.88	.89	.89	.90	.91	.93	.95	30,000
35,000	---	---	---	---	---	---	---	.87	.88	.88	.89	.90	.91	.93	35,000
40,000	---	---	---	---	---	---	---	---	.87	.88	.88	.89	.90	.92	40,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

CLUBHOUSES



GOOD CLASS C



AVERAGE CLASS S

OCCUPANCY DESCRIPTION: Clubhouses are general-purpose recreation buildings such as Community Halls/ Centers, Veteran Organization buildings, Senior Citizen facilities. Large multipurpose complexes with auditoriums, kitchens, gamerooms and offices are classified as fraternal clubs.

and profit. Allowance for light kitchen facilities, large general-use room with stage, and multiple restrooms. The better facilities will have moveable partition walls and some small meeting rooms or offices.

INCLUDED IN COSTS: Architects' fees and contractors' overhead

NOT INCLUDED IN COSTS: Elevators, sprinklers, balconies, kitchen equipment or stage equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
C	Excellent	\$123.75	Face brick, glass panels, stone, top quality	Plaster, terrazzo, tile pavers, hardwood, carpet, stage	Tiled restrooms, full kitchen, special lighting	Warm & cool air (zoned)
	Good	91.60	Face brick, concrete or metal panels, ornamentation	Plaster or drywall, carpet, hardwood, small stage, vinyl composition	Tiled restrooms, good kitchen, adequate lighting/plumbing	Heat pump system
	Average	66.10	Brick, block, concrete panels, some trim	Plaster or drywall, acoustic tile, vinyl composition, concrete slab	Adequate lighting/plumbing, average restrooms/kitchen	Forced air
	Low cost	46.85	Brick, block, tilt-up, no trim	Painted walls, concrete floor	Minimum lighting/plumbing	Wall furnace
D	Excellent	120.40	Stone or brick veneer, metal and glass panels, best quality	Plaster, terrazzo, tile pavers, hardwood, carpet, stage	Tiled restrooms, full kitchen, special lighting	Warm & cool air (zoned)
	Good	88.20	Brick veneer, good stucco or siding, ornamentation	Plaster or drywall, carpet, hardwood, vinyl composition, small stage	Tiled restrooms, good kitchen, adequate lighting/plumbing	Heat pump system
	Average	62.95	Brick veneer, stucco or siding, little trim	Plaster or drywall, acoustic tile, vinyl composition, concrete slab	Adequate lighting/plumbing, average restrooms/kitchen	Forced air
	Low cost	44.05	Stucco or siding, very plain	Drywall, concrete slab	Minimum lighting/plumbing	Wall furnace
DPOLE	Low cost	38.80	Metal skin on pole frame and truss, some interior finish	Few partitions, concrete slab, part ceiling	Minimum electric/plumbing	Electric wall heaters
S	Excellent	106.80	Best sandwich panels, good fenestration and ornamentation	Drywall, terrazzo, tile pavers, hardwood, carpet, stage	Tiled restrooms, full kitchen, special lighting	Warm & cool air (zoned)
	Good	78.55	Insulated sandwich panels, some trim	Drywall, carpet and vinyl composition, small stage	Adequate lighting/plumbing, good kitchen and restrooms	Heat pump system
	Average	56.00	Insulated sandwich panels, pre-engineered frame	Gypsum or plywood, acoustic tile, vinyl composition	Adequate lighting/plumbing, average restrooms/kitchen	Forced air
	Low cost	38.95	Metal skin on pre-engineered frame, some interior finish	Few partitions, concrete slab, part ceiling	Minimum electric/plumbing	Electric wall heaters
CDS	Semifin. basement	28.25	Low-cost finishes	Minimum social functions	Minimum lighting/plumbing	Space heaters
	Unfin. bsmt.	21.25	Unfinished interior	Unfinished storage and utility	Minimum lighting/drains	None

CLUBHOUSES

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

<p>ELEVATORS: A small clubhouse elevator with simple call system and push-button control, four-passenger cab and two or three stops costs \$35,250 to \$55,500.</p> <p>KITCHEN UNITS: Average costs per linear foot of single-unit steel kitchens such as are found in clubhouses, containing sink, stove, oven and refrigerator. Add \$600 to \$1,265 for microwave oven.</p> <p style="text-align: center;">COST RANGE</p> <p>Base section only \$525 – \$975 Base section and upper cabinets \$700 – \$775</p>	<p>SPRINKLERS: Apply to sprinklered area.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sq. Ft.</th> <th style="text-align: left;">LOW</th> <th style="text-align: left;">AVG.</th> <th style="text-align: left;">GOOD</th> <th style="text-align: left;">EXCL.</th> </tr> </thead> <tbody> <tr> <td>3,000</td> <td>\$2.45</td> <td>\$3.15</td> <td>\$4.00</td> <td>\$5.15</td> </tr> <tr> <td>5,000</td> <td>2.25</td> <td>2.85</td> <td>3.65</td> <td>4.70</td> </tr> <tr> <td>10,000</td> <td>2.00</td> <td>2.55</td> <td>3.25</td> <td>4.10</td> </tr> <tr> <td>20,000</td> <td>1.80</td> <td>2.25</td> <td>2.85</td> <td>3.60</td> </tr> <tr> <td>50,000</td> <td>1.55</td> <td>1.95</td> <td>2.45</td> <td>3.05</td> </tr> </tbody> </table> <p>BALCONIES: Exterior balconies generally cost 1/3 to 1/2 of the final base cost per square foot of the building or they may be computed from the Segregated or Unit-in-Place costs.</p>	Sq. Ft.	LOW	AVG.	GOOD	EXCL.	3,000	\$2.45	\$3.15	\$4.00	\$5.15	5,000	2.25	2.85	3.65	4.70	10,000	2.00	2.55	3.25	4.10	20,000	1.80	2.25	2.85	3.60	50,000	1.55	1.95	2.45	3.05
Sq. Ft.	LOW	AVG.	GOOD	EXCL.																											
3,000	\$2.45	\$3.15	\$4.00	\$5.15																											
5,000	2.25	2.85	3.65	4.70																											
10,000	2.00	2.55	3.25	4.10																											
20,000	1.80	2.25	2.85	3.60																											
50,000	1.55	1.95	2.45	3.05																											

2

HEATING AND COOLING					
These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
HEATING ONLY	Sq. Ft. Costs	HEATING & COOLING	Sq. Ft. Costs	COOLING ONLY	Sq. Ft. Costs
Electric cable or baseboard ...	\$3.55	Package A.C. (short ductwork)	\$ 7.00	Central refrigeration (zoned)	\$5.70
Electric wall heaters	1.25	Warm and cool air (zoned)	9.75	package (short ductwork)	3.95
Forced air furnace	4.55	Hot/chilled water (zoned)	15.40	Central evaporative	2.70
Hot water, baseboard/convactor	6.75	Heat pump system	7.95	Pkg. refrig. . \$1,200 to \$1,575 per ton capacity	
radiant floor/ceiling	7.05	Ind. thru-wall heat pumps	3.50	Evap. coolers . \$155 to \$240 per MCFM capacity	
Steam (including boiler)	6.10				
without boiler	5.40	Small indiv. heat pumps cost \$1,075 to \$1,475		VENTILATION ONLY	
Wall or floor furnace	1.55	per ton of rated capacity.		Vent. (blowers/ducts)	\$ 1.10

3

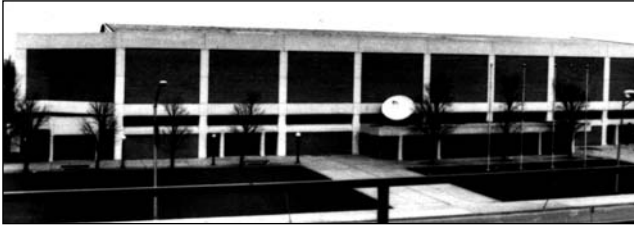
HEIGHT REFINEMENTS			
STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.			
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.95	14	1.11
9	.97	15	1.14
10	1.00 (base)	16	1.18
11	1.03	17	1.21
12	1.06	18	1.24
13	1.08	19	1.27
		20	1.31

4

Average Floor Area Sq.Ft./Story	AVERAGE PERIMETER														Average Floor Area Sq. Ft./Story
	200	250	300	350	400	450	500	550	600	650	700	750	800	1000	
2,000	1.10	1.17	1.25	1.32	----	----	----	----	----	----	----	----	----	----	2,000
4,000	.95	.99	1.02	1.06	1.10	1.14	----	----	----	----	----	----	----	----	4,000
6,000	----	.93	.95	.98	1.00	1.02	1.05	1.07	----	----	----	----	----	----	6,000
8,000	----	----	.91	.93	.95	.97	.99	1.01	1.02	1.04	----	----	----	----	8,000
10,000	----	----	----	.91	.92	.94	.95	.97	.98	1.00	1.01	1.02	----	----	10,000
12,000	----	----	----	.89	.90	.91	.93	.94	.95	.96	.98	.99	1.00	----	12,000
14,000	----	----	----	----	.89	.90	.91	.92	.93	.94	.95	.96	.97	1.01	14,000
16,000	----	----	----	----	----	.89	.90	.91	.92	.92	.93	.94	.95	.99	16,000
20,000	----	----	----	----	----	----	.89	.89	.90	.91	.91	.92	.93	.95	20,000
24,000	----	----	----	----	----	----	.87	.88	.89	.89	.90	.90	.91	.93	24,000
28,000	----	----	----	----	----	----	----	.87	.88	.88	.89	.89	.90	.91	28,000
32,000	----	----	----	----	----	----	----	.86	.87	.87	.88	.88	.89	.90	32,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

COMPUTER CENTERS



AVERAGE CLASS B



AVERAGE CLASS C

OCCUPANCY DESCRIPTION: Computer centers are electronic data processing plants, including ancillary offices. Most facilities will have a rather plain exterior appearance with little fenestration. The cost and quality selection will depend primarily on the amount of interior finish. An amount of raised computer floor is included, commensurate with the quality level. The better qualities have a large amount of good support room and many offices.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Elevators are included in costs designated with an asterisk (*).

NOT INCLUDED IN COSTS: Sprinklers, parking, balconies or computer equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
A-B	Excellent	\$179.80	Good curtain walls, good brick and glass, with ornamentation	Plaster, acoustic ceilings, raised floor, much office space	Fluorescent lighting, many outlets, good plumbing	Hot and chilled water (zoned)
	Good	146.70	Face brick, metal panels, good glass, ornamentation	Drywall or plaster, raised floors, good support rooms and offices	Good lighting, many outlets, adequate plumbing	Hot and chilled water (zoned)
	Average	120.15	Brick, block, concrete panels, low-cost metal and glass	Painted walls and ceilings, raised floors, office and support rooms	Fluorescent lighting, adequate restrooms and plumbing	Hot and chilled water (zoned)
	Low cost	92.95	Low-cost brick, structural tile, block, concrete panels	Painted walls, large open areas, offices and support rooms	Fluorescent lighting, minimum plumbing	Warm and cool air (zoned)
A-B	Office basement	85.90	Plaster interior	Average office building finish, acoustic tile, vinyl composition	Adequate office lighting and plumbing	Warm and cool air (zoned)
	Parking basement	43.05	Unfinished concrete, water-proofed walls	Unfinished, concrete floor, striped	Minimum lighting, adequate drains	Ventilation
	Office mezzanine	55.15	In building cost	Enclosed average office building finish, plaster soffit	Average office lighting and plumbing	Included in building cost
C	Good	114.90	Masonry or concrete, some ornamentation, steel frame	Plaster, raised floors, good support rooms and detail	Fluorescent lighting, adequate restrooms and plumbing	Warm and cool air (zoned)
	Average	94.35	Brick, block, concrete, load-bearing walls or frame	Gypsum board, raised floors, adequate office and support areas	Adequate lighting and plumbing	Warm and cool air (zoned)
	Low cost	75.65	Low-cost brick, concrete, block, tilt-up, very plain	Minimum finish and detail, small office and support areas	Minimum lighting and plumbing	Package A.C.
D	Average	92.45	Light frame or studs, stucco, siding, EIFS	Drywall or plaster, raised floors, adequate office and support areas	Fluorescent lighting, adequate plumbing	Warm and cool air (zoned)
	Low cost	74.25	Bearing studs and stucco or wood siding, very plain	Minimum finish and detail, small office and support areas	Minimum lighting and plumbing	Package A.C.
S	Average	88.50	Steel frame, transite, steel siding or sandwich panels	Drywall or plaster, raised floors, adequate office and support areas	Adequate lighting and plumbing	Warm & cool air (zoned)
CDS †	Office basement	56.95	Plaster or drywall interior	Average office building finish, acoustic tile, vinyl composition	Typical office lighting and plumbing	Forced air
	Parking basement	29.55	Unfinished concrete, waterproofed	Plaster or drywall ceiling, concrete floor, striped	Minimum lighting, adequate drains	Ventilation
	Office mezzanine	41.90	In building cost	Enclosed average building office finish, acoustic tile soffit	Average office lighting and plumbing	Included in building cost

†For fire-resistant Type I basements, with concrete slab separation under Class C, D or S units, add \$4.35 per square foot.

MEZZANINES: Do not use story height or area/perimeter multipliers with mezzanine costs.

NOTE: H.V.A.C costs must be carefully examined in older facilities where older, high-heat-producing equipment may have required very high-capacity systems. Adjustments can be made from Page CAL 113 when warranted.

COMPUTER CENTERS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

<p>ELEVATORS: A small passenger elevator with simple call system and push-button control, four-passenger cab, and two or three stops, costs \$35,250 to \$55,500. For greater detail, see Section UIP 8.</p>	<p>SPRINKLERS: Apply to sprinklered area.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sq. Ft.</th> <th>LOW</th> <th>AVG.</th> <th>GOOD</th> <th>EXCL.</th> </tr> </thead> <tbody> <tr><td>5,000</td><td>\$2.05</td><td>\$2.65</td><td>\$3.50</td><td>\$4.55</td></tr> <tr><td>10,000</td><td>1.85</td><td>2.35</td><td>3.10</td><td>4.00</td></tr> <tr><td>20,000</td><td>1.65</td><td>2.15</td><td>2.75</td><td>3.50</td></tr> <tr><td>30,000</td><td>1.55</td><td>2.00</td><td>2.55</td><td>3.25</td></tr> <tr><td>50,000</td><td>1.45</td><td>1.85</td><td>2.35</td><td>2.95</td></tr> <tr><td>80,000</td><td>1.35</td><td>1.70</td><td>2.15</td><td>2.70</td></tr> <tr><td>100,000</td><td>1.30</td><td>1.65</td><td>2.05</td><td>2.60</td></tr> <tr><td>200,000</td><td>1.20</td><td>1.45</td><td>1.85</td><td>2.30</td></tr> <tr><td>400,000</td><td>1.05</td><td>1.30</td><td>1.60</td><td>2.00</td></tr> </tbody> </table>	Sq. Ft.	LOW	AVG.	GOOD	EXCL.	5,000	\$2.05	\$2.65	\$3.50	\$4.55	10,000	1.85	2.35	3.10	4.00	20,000	1.65	2.15	2.75	3.50	30,000	1.55	2.00	2.55	3.25	50,000	1.45	1.85	2.35	2.95	80,000	1.35	1.70	2.15	2.70	100,000	1.30	1.65	2.05	2.60	200,000	1.20	1.45	1.85	2.30	400,000	1.05	1.30	1.60	2.00
Sq. Ft.	LOW	AVG.	GOOD	EXCL.																																															
5,000	\$2.05	\$2.65	\$3.50	\$4.55																																															
10,000	1.85	2.35	3.10	4.00																																															
20,000	1.65	2.15	2.75	3.50																																															
30,000	1.55	2.00	2.55	3.25																																															
50,000	1.45	1.85	2.35	2.95																																															
80,000	1.35	1.70	2.15	2.70																																															
100,000	1.30	1.65	2.05	2.60																																															
200,000	1.20	1.45	1.85	2.30																																															
400,000	1.05	1.30	1.60	2.00																																															
<p>ELEVATOR STOPS: For basement or mezzanine elevator stops, add \$4,275 to \$6,475 per stop.</p>	<p>DOCK HEIGHT FLOORS: Add \$1.50 to \$3.35 per square foot to base cost of first floor.</p>																																																		

2

HEATING AND COOLING					
These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard . . .	\$3.15	Package A.C. (short ductwork)	\$ 6.85	Central refrigeration (zoned)	\$5.95
Electric wall heaters	1.35	Warm and cool air (zoned)	9.05	package (short ductwork)	4.05
Forced air furnace	3.45	Hot/chilled water (zoned)	15.10	Central evaporative	2.70
Hot water,	6.15	Heat pump system	8.05	Pkg. refrig. . \$1,000 to \$1,325 per ton capacity	
Space heaters, with fan	1.60			Evap. coolers . \$135 to \$225 per MCFM capacity	
radiant	1.90				
Steam (including boiler)	5.50	Small indiv. heat pumps cost \$1,125 to \$1,500		VENTILATION ONLY	
without boiler	4.65	per ton of rated capacity		Vent. (blowers/ducts)	\$1.05

3

HEIGHT REFINEMENTS			
MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.			
STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.			
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.89	20	1.13
10	.92	22	1.18
12	.96	24	1.23
14	1.00 (base)	26	1.28
16	1.04	28	1.33
18	1.09	30	1.38

4

Average Floor Area Sq.Ft./Story	AVERAGE PERIMETER														Average Floor Area Sq. Ft./Story
	300	400	500	600	800	1000	1200	1400	1600	1800	2000	2200	2400	3000	
5,000	1.07	1.15	1.23	1.30	----	----	----	----	----	----	----	----	----	----	5,000
10,000	.95	.99	1.03	1.07	1.15	----	----	----	----	----	----	----	----	----	10,000
15,000	----	.94	.97	.99	1.05	1.10	----	----	----	----	----	----	----	----	15,000
20,000	----	----	.94	.95	.99	1.03	1.07	----	----	----	----	----	----	----	20,000
25,000	----	----	.92	.93	.96	.99	1.02	----	----	----	----	----	----	----	25,000
30,000	----	----	----	.92	.94	.97	.99	1.02	----	----	----	----	----	----	30,000
40,000	----	----	----	.90	.92	.94	.95	.97	.99	----	----	----	----	----	40,000
50,000	----	----	----	.89	.90	.92	.93	.95	.96	----	----	----	----	----	50,000
80,000	----	----	----	----	.88	.89	.90	.91	.92	.93	.94	.95	----	----	80,000
100,000	----	----	----	----	----	.88	.89	.89	.90	.91	.92	.92	.93	----	100,000
200,000	----	----	----	----	----	----	----	.86	.87	.87	.88	.88	.89	.90	200,000
400,000	----	----	----	----	----	----	----	----	----	----	----	.86	.86	.87	400,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

CONVENTION CENTERS



AVERAGE CLASS C

OCCUPANCY DESCRIPTION: These structures are large, open, arena/auditorium-type facilities for short-term meeting and/or trade show/display of products. The better facilities will have varied multifunctional space with movable partitions and ancillary eating and entertainment facilities.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit.

NOT INCLUDED IN COSTS: Elevators, sprinklers, movable floors and lights, seating, special equipment or kitchen equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
A	Good	\$203.25	Special architecture, good materials, good entrance & lobbies	Large clear-span halls, good meeting rooms, theater, grand ballrooms	Special lighting, good sound system and plumbing, kitchens	Warm and cool air (zoned)
	Average	146.05	Heavy frame, metal or concrete panels, good architecture	Good exhibit hall, meeting rooms and lobby, some extras	Good lighting and sound system, good plumbing and kitchen	Warm and cool air (zoned)
	Low cost	106.45	Face brick, concrete panels with trim, plain architecture	Plain exhibit space and meeting rooms, few extras	Adequate lighting and plumbing, sound system, food service	Warm and cool air (zoned)
B	Good	196.60	Special architecture, good materials, good entrance & lobbies	Large clear-span halls, good meeting rooms, theater, grand ballrooms	Special lighting, good sound system and plumbing, kitchens	Warm and cool air (zoned)
	Average	141.85	Heavy frame, metal or concrete panels, good architecture	Good exhibit hall, meeting rooms and lobby, some extras	Good lighting and sound system, good plumbing and kitchen	Warm and cool air (zoned)
	Low cost	103.80	Face brick, concrete panels with trim, plain architecture	Plain exhibit space and meeting rooms, few extras	Adequate lighting and plumbing, sound system, food service	Warm and cool air (zoned)
A-B	Unfinished basement	48.45	Unfinished interior	Unfinished storage and utility	Minimum lighting, drains	None
	Parking basement	53.30	Unfinished interior	Unfinished (service booth)	Exposed lighting, drains	Ventilation
C	Excellent	180.95	Heavy frame, best masonry walls, good entrance and lobby	Good exhibit hall, meeting rooms and lobby, some extras	Special lighting, good sound system and plumbing, kitchens	Warm and cool air (zoned)
	Good	142.65	Steel columns and girders, face brick, best ornamental block	Plain exhibit space, average meeting rooms, few extras	Good lighting and sound system, good plumbing and kitchen	Warm and cool air (zoned)
	Average	107.60	Brick, block, concrete panels, little trim, good conference-type facility	Drywall, some ornamentation, vinyl composition, terrazzo lobby	Adequate lighting and plumbing, sound system, food service	Package A.C.
	Low cost	80.80	Block, tilt-up, light frame	Painted, acoustic tile, carpet	Minimum lighting and plumbing	Forced air
D	Excellent	174.10	Face brick or stone veneer, heavy frame, good entrance and lobby	Good exhibit hall, meeting rooms and lobby, some extras	Special lighting, good sound system and plumbing, kitchens	Warm and cool air (zoned)
	Good	137.35	Steel and Glulam frame, trusses and girders, brick veneer, best stucco	Plain exhibit space, average meeting rooms, few extras	Good lighting and sound system, good plumbing and kitchen	Warm and cool air (zoned)
	Average	103.50	Good stucco, some trim, good conference-type facility	Drywall, some ornamentation, vinyl composition, terrazzo lobby	Adequate lighting and plumbing, sound system, food service	Package A.C.
	Low cost	77.60	Low-cost stucco or siding, very plain	Drywall, acoustic tile, carpet	Minimum lighting and plumbing	Forced air
DPOLE	Low cost	73.95	Metal panels on pole frame, low-cost hotel-type facility	Few partitions, acoustic tile, carpet, tiled restrooms	Minimum lighting, plumbing and sound system	Forced air
S	Low cost	74.05	Steel or aluminum panels, low-cost hotel-type facility	Few partitions, acoustic tile, carpet, tiled restrooms	Minimum lighting, plumbing and sound system	Forced air
CDS [†]	Unfinished basement	31.60	Unfinished interior	Unfinished storage and utility	Minimum lighting, drains	None
	Parking basement	36.20	Unfinished interior	Finished ceiling, concrete floor with hardener	Exposed lighting, adequate drains	Ventilation

[†]For fire-resistant Type I basements with concrete slab separation, under Class C, D or S units, add \$4.35 per square foot. For finished basements and mezzanines, see Auditoriums and Theaters.

CONVENTION CENTERS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

<p>ELEVATORS: A small passenger or freight elevator with simple call system. and push-button control, and two or three stops, costs \$35,250 to \$55,500. For detailed costs, see Section UIP 8.</p> <p>CANOPIES: Large entrance canopies generally cost 1/4 to 2/5 of the final base cost per square foot of the building.</p> <p>For pedestrian bridges or tunnels, see Page CAL 248.</p>	<p>SPRINKLERS: Apply to sprinklered area.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sq. Ft.</th> <th>LOW</th> <th>AVG.</th> <th>GOOD</th> <th>EXCL.</th> </tr> </thead> <tbody> <tr><td>5,000</td><td>\$2.45</td><td>\$3.10</td><td>\$3.90</td><td>\$4.95</td></tr> <tr><td>10,000</td><td>2.20</td><td>2.75</td><td>3.45</td><td>4.35</td></tr> <tr><td>20,000</td><td>2.00</td><td>2.45</td><td>3.05</td><td>3.80</td></tr> <tr><td>40,000</td><td>1.80</td><td>2.20</td><td>2.70</td><td>3.35</td></tr> <tr><td>60,000</td><td>1.70</td><td>2.05</td><td>2.55</td><td>3.10</td></tr> <tr><td>80,000</td><td>1.60</td><td>1.95</td><td>2.40</td><td>2.95</td></tr> <tr><td>100,000</td><td>1.55</td><td>1.90</td><td>2.30</td><td>2.80</td></tr> <tr><td>150,000</td><td>1.45</td><td>1.75</td><td>2.15</td><td>2.60</td></tr> <tr><td>200,000</td><td>1.40</td><td>1.70</td><td>2.05</td><td>2.45</td></tr> </tbody> </table> <p>BALCONIES: Exterior balconies generally cost 1/3 to 1/2 of the final base cost per square foot of the building or they may be computed from the Segregated or Unit-in-Place costs.</p>	Sq. Ft.	LOW	AVG.	GOOD	EXCL.	5,000	\$2.45	\$3.10	\$3.90	\$4.95	10,000	2.20	2.75	3.45	4.35	20,000	2.00	2.45	3.05	3.80	40,000	1.80	2.20	2.70	3.35	60,000	1.70	2.05	2.55	3.10	80,000	1.60	1.95	2.40	2.95	100,000	1.55	1.90	2.30	2.80	150,000	1.45	1.75	2.15	2.60	200,000	1.40	1.70	2.05	2.45
Sq. Ft.	LOW	AVG.	GOOD	EXCL.																																															
5,000	\$2.45	\$3.10	\$3.90	\$4.95																																															
10,000	2.20	2.75	3.45	4.35																																															
20,000	2.00	2.45	3.05	3.80																																															
40,000	1.80	2.20	2.70	3.35																																															
60,000	1.70	2.05	2.55	3.10																																															
80,000	1.60	1.95	2.40	2.95																																															
100,000	1.55	1.90	2.30	2.80																																															
150,000	1.45	1.75	2.15	2.60																																															
200,000	1.40	1.70	2.05	2.45																																															

2

HEATING AND COOLING					
These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard . . .	\$ 5.55	Package A.C. (short ductwork)	\$11.15	Central refrigeration (zoned)	\$8.85
Electric wall heaters	2.25	Warm and cool air (zoned)	16.80	package (short ductwork)	6.30
Forced air furnace	6.85	Hot/chilled water (zoned)	24.60	Central evaporative	3.80
Hot water	10.35	Heat pump system	13.35	Pkg. refrig. . . \$1,375 to \$1,760 per ton capacity	
Space heaters, with fan	2.20			Evap. coolers . \$205 to \$345 per MCFM capacity	
radiant	2.65				
Steam (including boiler)	9.45			VENTILATION ONLY	
without boiler	8.30	Small indiv. heat pumps cost \$1,225 to \$1,650		Vent. (blowers/ducts)	\$1.95
Wall or floor furnace	2.50	per ton of rated capacity.			

3

HEIGHT REFINEMENTS					
MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.					
STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.					
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.65	22	.96	38	1.29
12	.74	24	1.00 (base)	42	1.37
14	.79	26	1.04	50	1.53
16	.83	28	1.08	58	1.68
18	.87	30	1.12	66	1.83
20	.92	34	1.21	74	1.98

4

Average Floor Area Sq. Ft./Story	AVERAGE PERIMETER														Average Floor Area Sq. Ft./Story
	150	200	250	300	400	500	600	700	800	900	1000	1200	1400	1600	
2,000	1.10	1.17	1.25	1.32	1.46	----	----	----	----	----	----	----	----	----	2,000
5,000	----	----	1.04	1.07	1.11	1.17	1.23	----	----	----	----	----	----	----	5,000
10,000	----	----	----	.98	1.01	1.04	1.07	1.09	1.11	----	----	----	----	----	10,000
15,000	----	----	----	----	.97	.99	1.01	1.03	1.05	1.07	----	----	----	----	15,000
20,000	----	----	----	----	----	.97	.98	1.00	1.01	1.03	1.04	1.07	----	----	20,000
25,000	----	----	----	----	----	.95	.97	.98	.99	1.00	1.01	1.04	----	----	25,000
40,000	----	----	----	----	----	----	----	.95	.95	.96	.97	.98	1.00	1.01	40,000
50,000	----	----	----	----	----	----	----	.94	.94	.95	.95	.97	.98	.99	50,000
60,000	----	----	----	----	----	----	----	----	.93	.94	.94	.95	.96	.97	60,000
70,000	----	----	----	----	----	----	----	----	----	.93	.94	.94	.95	.96	70,000
80,000	----	----	----	----	----	----	----	----	----	----	.93	.94	.95	.95	80,000
100,000	----	----	----	----	----	----	----	----	----	----	.92	.93	.94	.94	100,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

COUNTRY CLUBS



GOOD CLASS C



GOOD CLASSES C/D

OCCUPANCY DESCRIPTION: Structures are designed for entertainment and have few, if any, sleeping rooms. Entertaining groups requires good kitchen facilities, minimum restrooms with or without lockers and showers, and large general-use rooms.

INCLUDED IN COSTS: Architects' fees and contractors' overhead

and profit. Minimum allowance for small offices or meeting rooms. Higher-quality structures will have ballroom, bar, banquet and pro shop facilities, as well as extensive locker and shower rooms.

NOT INCLUDED IN COSTS: Elevators, sprinklers, balconies, fireplaces, swimming pools, lockers, kitchen or bar equipment

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
C	Excellent	\$154.90	Ashlar and face brick, metal and glass, top architecture	Plaster, quality carpet, hardwood, ceramic tile, sheet vinyl	High-capacity electrical service, fine electric/plumbing fixtures	Warm & cool air (zoned)
	Good	118.70	Stone trim, brick, metal or concrete panels and glass	Plaster or drywall, carpet, hardwood, vinyl composition	Good lighting, bar, dining room, kitchen, good plumbing	Heat pump system
	Average	91.65	Brick or block, concrete panels, some ornamentation	Plaster or drywall, carpet and vinyl composition	Adequate lighting, showers, bars, kitchen, adequate restrooms	Package A.C.
	Low cost	69.25	Concrete block or low-cost brick, very plain	Unfinished block, drywall partitions, minimum facilities	Minimum shower and locker rooms, minimum lighting	Forced air
D	Excellent	152.30	Ashlar or face brick veneer, top architecture, much glass	Plaster, quality carpet, hardwood, ceramic tile, sheet vinyl	High-capacity electrical service, fine electrical/plumbing fixtures	Warm & cool air (zoned)
	Good	115.30	Brick veneer, best stucco or siding, ornamentation	Plaster or drywall, carpeting, hardwood, vinyl composition	Good lighting, bar, dining room, kitchen, good plumbing	Heat pump system
	Average	88.05	Good stucco or siding, some brick or stone trim	Plaster or drywall, some carpet, vinyl composition	Adequate lighting, showers, bar, kitchen, adequate restrooms	Package A.C.
	Low cost	65.70	Stucco or siding, very plain	Drywall, vinyl composition, few partitions, minimum facilities	Minimum shower and locker rooms, minimum lighting	Forced air
S	Average	81.55	Insulated metal sandwich panels, steel frame, some trim	Drywall, carpet, cork, rubber, vinyl composition	Average quality and quantity, adequate facilities	Package A.C.
	Low cost	59.95	Enameled metal siding, finished interior, insulated	Drywall, rubber, vinyl composition, exposed concrete	Minimum electrical/plumbing, minimum facilities	Forced air
CDS	Finished basement	51.10	Reinforced concrete, plaster or drywall interior	Utility and dressing room finishes	Adequate lighting and plumbing, showers and restrooms	Forced air
	Utility basement	23.55	Painted interior, outside entry	Paint only, some partitions, golf cart maintenance and storage	Adequate lighting and outlets, drains	None

COUNTRY CLUBS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

<p>FIREPLACES: For each additional opening using the same chimney, add 30% to 50%. Country Clubs with basements, add 40% to extend the foundation to the basement level. Custom oversized units can run 100% to 200% more.</p>		<p>SPRINKLERS: Apply to sprinklered area.</p>				
		Sq. Ft.	LOW	AVG.	GOOD	EXCL.
		3,000	\$2.45	\$3.15	\$4.00	\$5.15
		5,000	2.25	2.85	3.65	4.70
		10,000	2.00	2.55	3.25	4.10
TYPE	COST RANGE					
One-story	\$1,875 – \$6,100	15,000	1.90	2.40	3.00	3.80
Two-stories	2,375 – 7,325	20,000	1.80	2.25	2.85	3.60
		25,000	1.70	2.20	2.80	3.55
		35,000	1.65	2.10	2.55	3.20
<p>SWIMMING POOLS: Swimming pools, complete, cost \$44.25 to \$127.75 per square foot. For detailed costs, see UIP Section 16.</p>		<p>BALCONIES: Exterior balconies generally cost 1/3 to 1/2 of the final base cost per square foot of the building or they may be computed from the Segregated or Unit-in-Place costs.</p>				
<p>CANOPIES: Large entrance carport canopies generally cost 1/4 to 2/5 of the final base cost per square foot of the building.</p>						

2

<p>HEATING AND COOLING</p> <p>These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.</p>					
	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard ..	\$3.55	Package A.C. (short ductwork)	\$ 7.00	Central refrigeration (zoned)	\$5.70
Electric wall heaters	1.40	Warm and cool air (zoned)	9.75	package (short ductwork)	3.95
Forced air furnace	4.55	Hot/chilled water (zoned)	15.40	Central evaporative	2.70
Hot water, baseboard/convector	6.75	Heat pump system	7.95	Pkg. refriger. . \$1,200 to \$1,575 per ton capacity	
radiant floor/ceiling	7.05	Ind. thru-wall heat pumps	3.50	Evap. coolers . \$155 to \$240 per MCFM capacity	
Steam (including boiler)	6.10			VENTILATION ONLY	
without boiler	5.40	Small indiv. heat pumps cost \$1,075 to \$1,475		Vent. (blowers/ducts)	\$1.10
Wall or floor furnace	1.55	per ton of rated capacity			

3

<p>HEIGHT REFINEMENTS</p> <p>MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.</p> <p>STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.</p>			
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.95	14	1.11
9	.97	15	1.14
10	1.00 (base)	16	1.18
11	1.03	17	1.21
12	1.06	18	1.24

4

Average Floor Area Sq.Ft./Story	AVERAGE PERIMETER														Average Floor Area Sq. Ft./Story
	200	250	300	350	400	450	500	550	600	650	700	750	800	1000	
2,000	1.07	1.13	1.18	1.24	----	----	----	----	----	----	----	----	----	----	2,000
4,000	.96	.99	1.02	1.05	1.07	1.10	----	----	----	----	----	----	----	----	4,000
6,000	----	.95	.96	.98	1.00	1.02	1.04	1.05	1.07	----	----	----	----	----	6,000
8,000	----	----	.94	.95	.96	.98	.99	1.00	1.02	1.03	----	----	----	----	8,000
10,000	----	----	----	.93	.94	.95	.96	.97	.99	1.00	1.01	1.02	----	----	10,000
12,000	----	----	----	.92	.93	.94	.95	.95	.96	.97	.98	.99	1.00	----	12,000
14,000	----	----	----	----	.91	.91	.92	.93	.94	.95	.95	.96	.97	1.01	14,000
16,000	----	----	----	----	.90	.91	.91	.92	.93	.93	.94	.95	.96	.99	16,000
20,000	----	----	----	----	----	----	.90	.90	.91	.92	.92	.93	.94	.96	20,000
24,000	----	----	----	----	----	----	.88	.89	.90	.90	.91	.91	.92	.94	24,000
28,000	----	----	----	----	----	----	----	.88	.89	.89	.90	.90	.91	.92	28,000
32,000	----	----	----	----	----	----	----	.87	.88	.89	.89	.90	.90	.91	32,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.

CREAMERIES



GOOD CLASS C



GOOD CLASS C

OCCUPANCY DESCRIPTION: These buildings are designed for milk processing and butter making. They contain the necessary plumbing and electrical to operate the facility and have built-in refrigerators. The costs for special fixtures or equipment are not included. They are built of masonry or wood frame construction and typically have plaster interiors. Floor finishes are commonly tile or epoxy over a concrete slab. The better qualities have a designated lab, process, storage and distribution areas.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit.

NOT INCLUDED IN COSTS: Elevators, sprinklers, furnishings or processing equipment.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
C	Average	\$79.50	Brick, concrete, solid construction	Plaster ceilings, tile floors, wainscot in production areas	Good lighting and plumbing, many outlets, lab	Steam
	Good	80.10	Brick, block, concrete, retail entrance and storefront	Plaster, tile floors and wainscot, freezer and cooler rooms	Good lighting and plumbing, many outlets and drains, lab	Steam
	Average	59.00	Brick, block, little trim, steel or wood trusses or joists	Plaster walls and ceiling, epoxy and tile on concrete floor, freezer room	Adequate lighting, plumbing, power outlets, and drains	Steam
D	Low cost	40.05	Low-cost brick, block, tilt-up, no trim, wood rafters	Painted walls, slab floor, partly finished ceiling, chiller room	Minimum electrical and plumbing	Space heaters
	Good	75.55	Brick veneer, good stucco and trim, EIFS, retail entrance and storefront	Plaster, tile floors and wainscot, freezer and cooler rooms	Good lighting and plumbing, many outlets and drains, lab	Steam
	Average	55.00	Brick veneer, good stucco, insulated, wood truss & rafters	Plaster walls and ceiling, some tile, concrete floor, freezer room	Adequate lighting, plumbing, power outlets, and drains	Steam
S	Low cost	36.65	Stucco or siding, no trim, light roof structure	Plaster or gypsum board, concrete slab, chiller room	Minimum lighting and outlets, minimum plumbing	Space heaters
	Good	72.60	Good steel frame, sandwich panels, retail entrance and storefront	Plaster, tile floors and wainscot, freezer and cooler rooms	Good lighting and plumbing, many outlets and drains, lab	Steam
	Average	52.95	Rigid steel frame, insulated siding or sandwich panels, good roof	Plaster walls and ceiling, some tile, concrete floor, freezer room	Adequate lighting, plumbing, power outlets, and drains	Steam
	Low cost	35.25	Pre-engineered frame, metal siding, lined	Plaster or gypsum board, concrete slab, chiller room	Minimum lighting and outlets, minimum plumbing	Space heaters

For basements and mezzanines, see Page CAL 104.

CREAMERIES

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1

<p>ELEVATORS: Small passenger or freight elevators with simple call system and push-button control, and two or three stops, cost \$35,250 to \$55,000. For detailed cost, see Section UIP 8.</p> <p>DOCK-HEIGHT FLOORS: Add \$1.50 to \$3.35 per square foot to base cost of first floor.</p> <p>Loading docks, see Page CAL 244.</p>	<p>SPRINKLERS: Apply to sprinklered area.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sq. Ft.</th> <th style="text-align: left;">LOW</th> <th style="text-align: left;">AVG.</th> <th style="text-align: left;">GOOD</th> <th style="text-align: left;">EXCL.</th> </tr> </thead> <tbody> <tr><td>1,000</td><td>\$2.60</td><td>\$3.40</td><td>\$4.65</td><td>\$6.15</td></tr> <tr><td>2,500</td><td>2.25</td><td>3.00</td><td>3.95</td><td>5.20</td></tr> <tr><td>5,000</td><td>2.05</td><td>2.65</td><td>3.50</td><td>4.55</td></tr> <tr><td>7,500</td><td>1.90</td><td>2.40</td><td>3.25</td><td>4.20</td></tr> <tr><td>10,000</td><td>1.85</td><td>2.35</td><td>3.10</td><td>4.00</td></tr> <tr><td>15,000</td><td>1.75</td><td>2.25</td><td>2.85</td><td>3.70</td></tr> <tr><td>20,000</td><td>1.65</td><td>2.15</td><td>2.75</td><td>3.50</td></tr> <tr><td>40,000</td><td>1.50</td><td>1.90</td><td>2.45</td><td>3.10</td></tr> </tbody> </table>	Sq. Ft.	LOW	AVG.	GOOD	EXCL.	1,000	\$2.60	\$3.40	\$4.65	\$6.15	2,500	2.25	3.00	3.95	5.20	5,000	2.05	2.65	3.50	4.55	7,500	1.90	2.40	3.25	4.20	10,000	1.85	2.35	3.10	4.00	15,000	1.75	2.25	2.85	3.70	20,000	1.65	2.15	2.75	3.50	40,000	1.50	1.90	2.45	3.10
Sq. Ft.	LOW	AVG.	GOOD	EXCL.																																										
1,000	\$2.60	\$3.40	\$4.65	\$6.15																																										
2,500	2.25	3.00	3.95	5.20																																										
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40,000	1.50	1.90	2.45	3.10																																										

2

HEATING AND COOLING					
These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.					
HEATING ONLY	Sq. Ft. Costs	HEATING & COOLING	Sq. Ft. Costs	COOLING ONLY	Sq. Ft. Costs
Electric cable or baseboard ..	\$3.15	Package A.C. (short ductwork)	\$ 6.85	Central refrigeration (zoned)	\$5.95
Electric wall heaters	1.35	Warm and cool air (zoned)	9.05	package (short ductwork)	4.05
Space heaters, with fan	1.60	Hot/chilled water (zoned)	15.10	Evaporative coolers	2.70
radiant	1.90	Heat pump system	8.05	Pkg. refrig. . . . \$1,180 to \$1,540 per ton capacity	
Forced air	3.45			Evap. coolers . \$160 to \$270 per MCFM capacity	
Steam (including boiler)	5.50				
without boiler	4.65	Small indiv. heat pumps cost \$1,125 to \$1,510		VENTILATION ONLY	
Hot water	6.15	per ton of rated capacity		Vent. (blowers/ducts)	\$1.05

3

HEIGHT REFINEMENTS			
MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs.			
STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.			
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.89	20	1.13
10	.92	22	1.18
12	.96	24	1.23
14	1.00 (base)	26	1.28
16	1.04	28	1.33
18	1.09	30	1.38

4

Average Floor Area Sq.Ft./Story	AVERAGE PERIMETER														Average Floor Area Sq. Ft./Story
	300	400	500	600	800	1000	1200	1400	1600	1800	2000	2200	2400	3000	
5,000	1.07	1.15	1.23	1.30	----	----	----	----	----	----	----	----	----	----	5,000
10,000	.97	.99	1.03	1.07	1.15	----	----	----	----	----	----	----	----	----	10,000
15,000	----	.94	.97	.99	1.05	1.10	----	----	----	----	----	----	----	----	15,000
20,000	----	----	.94	.95	.99	1.03	1.07	----	----	----	----	----	----	----	20,000
25,000	----	----	.92	.93	.96	.99	1.02	----	----	----	----	----	----	----	25,000
30,000	----	----	----	.92	.94	.96	.99	1.02	----	----	----	----	----	----	30,000
40,000	----	----	----	.90	.92	.94	.95	.97	.99	----	----	----	----	----	40,000
50,000	----	----	----	.89	.90	.92	.93	.95	.96	.93	----	----	----	----	50,000
80,000	----	----	----	----	.88	.89	.90	.91	.92	.93	.94	.95	----	----	80,000
100,000	----	----	----	----	----	.88	.89	.89	.90	.91	.92	.92	.93	----	100,000
200,000	----	----	----	----	----	----	----	.86	.87	.87	.88	.88	.88	.90	200,000
400,000	----	----	----	----	----	----	----	----	----	----	----	.86	.86	.87	400,000

5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.