

# 22 13 Facility Sanitary Sewerage

## 22 13 16 – Sanitary Waste and Vent Piping

22 13 16.60 Traps		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
1150	4"	Q-1	13	1.231	Ea.	194	77.50		271.50	330
1160	6"	Q-2	17	1.412	↓	860	92		952	1,075
1180	Running trap, single hub, with vent									
2080	3" pipe size, 3" vent	Q-1	14	1.143	Ea.	153	72		225	276
2120	4" pipe size, 4" vent	"	13	1.231		209	77.50		286.50	345
2300	For double hub, vent, add					10%	20%			
3000	P trap, B&S, 2" pipe size	Q-1	16	1		46	63		109	144
3040	3" pipe size	"	14	1.143	↓	68.50	72		140.50	183
3350	Deep seal trap, B&S									
3400	1-1/4" pipe size	Q-1	14	1.143	Ea.	95	72		167	211
3410	1-1/2" pipe size		14	1.143		95	72		167	211
3420	2" pipe size		14	1.143		68.50	72		140.50	183
3440	3" pipe size	↓	12	1.333	↓	84.50	84		168.50	218
4700	Copper, drainage, drum trap									
4800	3" x 5" solid, 1-1/2" pipe size	1 Plum	16	.500	Ea.	540	35		575	645
4840	3" x 6" swivel, 1-1/2" pipe size	"	16	.500	"	1,200	35		1,235	1,375
5100	P trap, standard pattern									
5200	1-1/4" pipe size	1 Plum	18	.444	Ea.	355	31		386	440
5240	1-1/2" pipe size		17	.471		272	33		305	350
5260	2" pipe size	↓	15	.533	↓	420	37		457	515
5280	3" pipe size	1 Plum	11	.727	Ea.	1,200	51		1,251	1,400
5340	With cleanout, swivel joint and slip joint									
5360	1-1/4" pipe size	1 Plum	18	.444	Ea.	185	31		216	250
5400	1-1/2" pipe size	"	17	.471	"	705	33		738	830

## 22 13 16.80 Vent Flashing and Caps

0010	VENT FLASHING AND CAPS									
0120	Vent caps									
0140	Cast iron									
0180	2-1/2" to 3-5/8" pipe	1 Plum	21	.381	Ea.	55.50	26.50		82	101
0190	4" to 4-1/8" pipe	"	19	.421	"	80	29.50		109.50	132
0900	Vent flashing									
1000	Aluminum with lead ring									
1020	1-1/4" pipe	1 Plum	20	.400	Ea.	6	28		34	48
1030	1-1/2" pipe		20	.400		5.70	28		33.70	48
1040	2" pipe		18	.444		5.70	31		36.70	53
1050	3" pipe		17	.471		6.30	33		39.30	56
1060	4" pipe	↓	16	.500	↓	7.60	35		42.60	60.50
1350	Copper with neoprene ring									
1400	1-1/4" pipe	1 Plum	20	.400	Ea.	78.50	28		106.50	128
1430	1-1/2" pipe		20	.400		78.50	28		106.50	128
1440	2" pipe		18	.444		78.50	31		109.50	133
1450	3" pipe		17	.471		94.50	33		127.50	153
1460	4" pipe		16	.500		94.50	35		129.50	156

## 22 13 19 – Sanitary Waste Piping Specialties

0010	SANITARY DRAINS									
0400	Deck, auto park, CI, 13" top									
0440	3", 4", 5", and 6" pipe size	Q-1	8	2	Ea.	2,275	126		2,401	2,675
0480	For galvanized body, add				"	1,400			1,400	1,550
2000	Floor, medium duty, CI, deep flange, 7" diam. top									
2040	2" and 3" pipe size	Q-1	12	1.333	Ea.	415	84		499	580
2080	For galvanized body, add				↓	175			175	192