## 23 34 HVAC Fans

23 34 33 - Air Curtains

			Daily	Labor-			2022 Bare Costs			Total
23 34	33.10 Air Barrier Curtains	Crew	Output	Hours	Unit	Material	Labor	Equipment	Total	Incl O&P
3494	144" wide	Q-3	3.10	10.323	Ea.	5,925	685	P	6,610	7,525
23 34 39.10 Powerfoil										
0010	POWERFOIL									
2301	Powerfoil, 8' diameter	R-1A	2.40	6.667	Ea.	8,875	395		9,270	10,300
2302	10′		2.40	6.667		8,975	395		9,370	10,500
2303	12′		2.40	6.667		9,075	395		9,470	10,600
2304	14′	11	2.40	6.667		9,175	395		9,570	10,700
2305	16′	11	2	8	1	9,275	475	1	9,750	10,900
2306	18′	11	2	8	-	9,375	475	1	9,850	11,000
2307	20′	11	2	8	1	9,500	475		9,975	11,100
2308	24′	1 🖟	2	. 8	4	9,700	475		10,175	11,400
2400	Powerfoil with Hybrid Airfoil									
2401	12'	: R-1A	2	. 8	Ea.	9,600	475		10,075	11,200
2402	14'		2	8 .		9,700	475		10,175	11,400
2403	16'	11	1.75	9.143	1	9,800	545		10,345	11,600
2404	18'	11	1.75	9.143	1	9,900	545	1	10,445	11,700
2405 ]	20′	11	1.75	9.143	1	1 10,000	545		10,545	11,800
2406	24′	1 👈	1.75	9.143	+	1 10,200	545	1	10,745	12,100

## 23 37 Air Outlets and Inlets

## 23 37 13 - Diffusers, Registers, and Grilles

13.10 Diffusers									
<b>DIFFUSERS</b> , Aluminum, opposed blade damper unless noted									
Ceiling, linear, also for sidewall									
Perforated, 24" x 24" lay-in panel size, 6" x 6"	· 1 Shee	16	.500	Ea.	187	34 -		221	257
8" x 8"	Control of the contro	15	.533		96.50	36		132.50	161
9″ x 9″		14	.571		1 199	38.50		237.50	277
10" x 10"	1   1	14	1.571		1 199	38.50		237.50	277
12" x 12"		12	1.667	1	208	45	1	253	296
16" x 16"		11	1.727	1	221	49		270	315
18" x 18"		10	.800		237	54		291	345
20" x 20"	11.	10	.800		254	54		308	360
24" x 24"		9	.889	į	298	60		358	420
Rectangular, 1 to 4 way blow, 6" x 6"	111	16	.500		45.50			79.50	101
8" x 8"		15	.533	1	62.50	36		98.50	123
9″ x 9″	1 1 1	15	1.533	1	1 53	36		89	113
10" x 10"		15	.533		92	36		128	156
12" x 6"		15	.533	I	77	36		113	139
12" x 9"		14	.571		82	38.50		120.50	148
12" x 12"		12	.667		76.50	45		121.50	152
14" x 6"		13	.615	1	83.50	41.50		125	155
14" x 14"	1 1 :	12	.667		136	: 45		181	218
18" x 18"		9	.889	1	1 131	60	1	191	236
21" x 21"	1 1	8	11	1	1 242	67.50		309.50	370
24" x 12"	. 111	10	1.800	1	1 182	54	1	236	282
Round, butterfly damper, steel, diffuser size, 6" diameter		18	.444	1	14.90	30		44.90	61.50
8" diameter		16	.500		15.95	34		49.95	68.50
10" diameter		14	.571		19.80	38.50		58.30	80
12" diameter		12	.667		27	45	`v ;	72	97.50
14" diameter		10	.800		34.50	54 .		88.50	120
T-bar mounting, 24" x 24" lay-in frame, 6" x 6"	111	16	.500	1	72	34		106	131
	13.10 Diffusers  DIFFUSERS, Aluminum, opposed blade damper unless noted  Ceiling, linear, also for sidewall  Perforated, 24" x 24" lay-in panel size, 6" x 6"  8" x 8"  9" x 9"  10" x 10"  12" x 12"  16" x 16"  18" x 18"  20" x 20"  24" x 24"  Rectangular, 1 to 4 way blow, 6" x 6"  8" x 8"  9" x 9"  10" x 10"  12" x 6"  12" x 6"  12" x 2"  14" x 6"  14" x 14"  18" x 18"  21" x 21"  24" x 12"  Round, butterfly damper, steel, diffuser size, 6" diameter  8" diameter  10" diameter  12" diameter  12" diameter	### Table #### Table ####################################	<b>13.10 Diffusers DIFFUSERS</b> , Aluminum, opposed blade damper unless noted         Ceiling, linear, also for sidewall       1 Shee       16         8" x 8"         15         9" x 9"         14         10" x 10"         14         12" x 12"         12         16" x 16"         11         18" x 18"         10         20" x 20"         10         24" x 24"         9         Rectangular, 1 to 4 way blow, 6" x 6"         16         8" x 8"         15         9" x 9"         15         10" x 10"         15         12" x 6"         15         12" x 6"         15         12" x 9"         14         12" x 12"         12         14" x 6"         13         14" x 14"         12         18" x 18"         19         21" x 21"         18         24" x 12"         18         8" diameter         16         10" diameter         14         12" diameter         14         12" diameter         10         10" diameter         10         10" diameter         10 <td><b>13.10 Diffusers DIFFUSERS,</b> Aluminum, opposed blade damper unless noted         Ceiling, linear, also for sidewall       1 Shee       16       .500         8" x 8"       15       .533         9" x 9"       1 14       .571         10" x 10"       1 4       .571         12" x 12"       1 2       .667         16" x 16"       1 1       .727         18" x 18"       10       .800         20" x 20"       10       .800         24" x 24"       9       .889         Rectangular, 1 to 4 way blow, 6" x 6"       16       .500         8" x 8"       1 15       .533         9" x 9"       1 15       .533         10" x 10"       1 15       .533         12" x 6"       1 15       .533         12" x 79"       1 4       .571         12" x 8"       1 15       .533         12" x 12"       1 2       .667         14" x 14"       1 2       .667         18" x 18"       1 9       .889         21" x 21"       1 8       1 1         24" x 12"       1 10       .800         Round, butterfly damper, steel, diffuser</td> <td>### DIFFUSERS, Aluminum, opposed blode damper unless noted    Ceiling, linear, also for sidewall   Perforated, 24" x 24" lay-in panel size, 6" x 6"</td> <td>### DIFFUSERS, Aluminum, opposed blade damper unless noted    </td> <td>  13.10   Diffusers    </td> <td>### DIFFUSERS, Aluminum, opposed blade damper unless noted  Ceiling, linear, also for sidewall  Perforated, 24" x 24" lay-in panel size, 6" x 6"  ### 8"</td> <td>### DIFFUSERS, Aluminum, opposed blade damper unless noted  Ceiling, linear, also for sidewoil  Perforated, 24" x 24" lay-in ponel size, 6" x 6"    1 Shee</td>	<b>13.10 Diffusers DIFFUSERS,</b> Aluminum, opposed blade damper unless noted         Ceiling, linear, also for sidewall       1 Shee       16       .500         8" x 8"       15       .533         9" x 9"       1 14       .571         10" x 10"       1 4       .571         12" x 12"       1 2       .667         16" x 16"       1 1       .727         18" x 18"       10       .800         20" x 20"       10       .800         24" x 24"       9       .889         Rectangular, 1 to 4 way blow, 6" x 6"       16       .500         8" x 8"       1 15       .533         9" x 9"       1 15       .533         10" x 10"       1 15       .533         12" x 6"       1 15       .533         12" x 79"       1 4       .571         12" x 8"       1 15       .533         12" x 12"       1 2       .667         14" x 14"       1 2       .667         18" x 18"       1 9       .889         21" x 21"       1 8       1 1         24" x 12"       1 10       .800         Round, butterfly damper, steel, diffuser	### DIFFUSERS, Aluminum, opposed blode damper unless noted    Ceiling, linear, also for sidewall   Perforated, 24" x 24" lay-in panel size, 6" x 6"	### DIFFUSERS, Aluminum, opposed blade damper unless noted	13.10   Diffusers	### DIFFUSERS, Aluminum, opposed blade damper unless noted  Ceiling, linear, also for sidewall  Perforated, 24" x 24" lay-in panel size, 6" x 6"  ### 8"	### DIFFUSERS, Aluminum, opposed blade damper unless noted  Ceiling, linear, also for sidewoil  Perforated, 24" x 24" lay-in ponel size, 6" x 6"    1 Shee