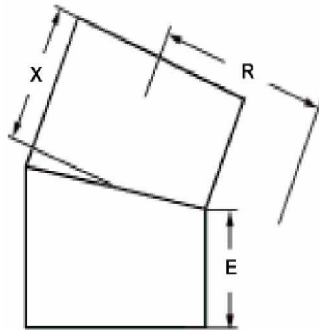




**INDEPENDENT  
PIPE PRODUCTS**



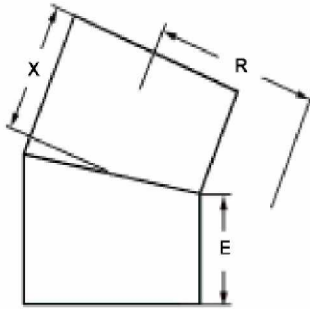
**IPS 22.5°  
2 Segment Elbow  
Fabricated (1/16 Bend)**

(Dimensions in Inches)

IPS Size	R/D Ratio	R	X	E	SDR	WPR (psi)	Weight (lbs)
2"	5.4	12.7	4.3	4.0	7	200	1
					9	160	1
					11&17	128/80	1
3"	3.8	13.2	4.4	4.0	7	200	2
					9	160	2
					11&17	128/80	1.5
4"	3.0	13.7	4.5	4.0	7	200	3.5
					9	160	3
					11&17	128/80	2.5
6"	2.2	14.7	6.7	6.0	7	200	9
					9	160	7
					11&17	128/80	6
8"	1.8	16.0	7.4	6.5	7	200	16
					9	160	13
					11	128	11
					17	80	9
10"	1.6	17.0	7.6	6.5	7	200	26
					9	160	21
					11	128	17
					17	80	12
12"	1.5	19.1	9.3	8.0	7	200	43
					9	160	35
					11	128	31
					17	80	20
14"	1.5	21.0	9.4	8.0	7	200	53
					9	160	42
					11	128	35
					17	80	24
16"	1.5	24.0	9.6	8.0	7	200	73
					9	160	61
					11	128	49
					17	80	33
18"	1.5	27.0	9.8	8.0	7	200	92
					9	160	75
					11	128	63
					17	80	43



**INDEPENDENT  
PIPE PRODUCTS**



**IPS 22.5°  
2 Segment Elbow  
Fabricated (1/16 Bend)**

(Dimensions in Inches)

IPS Size	R/D Ratio	R	X	E	SDR	WPR (psi)	Weight (lbs)
20"	1.5	30.0	10.0	8.0	7	200	114
					9	160	92
					11	128	77
					17	80	52
22"	1.5	33.0	10.2	8.0	7	200	146
					9	160	118
					11	128	99
					17	80	67
24"	1.5	36.0	10.4	8.0	7	200	173
					9	160	141
					11	128	117
					17	80	79
26"	1.5	39.0	12.6	10.0	9	160	201
					11	128	170
					17	80	116
28"	1.5	42.0	12.8	10.0	9	160	233
					11	128	196
					17	80	130
30"	1.5	45.0	13.0	10.0	11	128	224
					17	80	152
32"	1.5	48.0	13.2	10.0	11	128	267
					17	80	179
34"	1.5	51.0	13.4	10.0	11	128	301
					17	80	203
36"	1.5	54.0	13.6	10.0	11	128	338
					17	80	227
42"	1.5	63.0	14.2	10.0	17	80	324
					21	65	264
48"	1.5	72.0	14.8	10.0	21	65	350
					26	50	285
54"	1.5	81.0	21.4	16.0	26	50	537
					32.5	40	431