

2-2/3" x 1/2" Corrugation Sectional Properties and Arch Layout Details

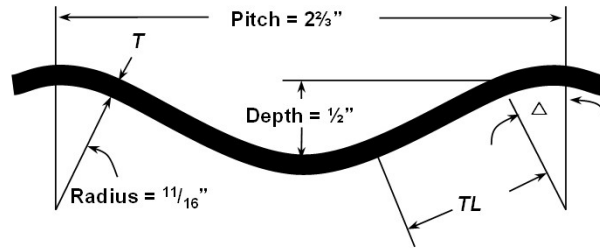


Table 2.5 Sectional Properties of 2 2/3 x 1/2 in. (Annular or Helical)
(as shown on page 31 of the NCSA Corrugated Steel Pipe Design Manual)

Specified Thickness, in.	Uncoated Thickness <i>T</i> in.	Area of Section (a) <i>A</i> in. ² /ft.	Tangent Length <i>TL</i> in.	Tangent Angle Δ Degrees	Moment of Inertia (a) <i>I</i> in. ⁴ /ft.	Section Modulus (a) <i>S</i> in. ³ /ft.	Radius of Gyration <i>r</i> in.	Developed Width Factor
0.040*	0.0359	0.465	0.785	26.56	0.0011	0.0503	0.1702	1.080
0.052	0.0478	0.619	0.778	26.65	0.0015	0.0659	0.1707	1.080
0.064	0.0598	0.775	0.770	26.74	0.0019	0.0812	0.1712	1.080
0.079	0.0747	0.968	0.760	26.86	0.0024	0.0998	0.1721	1.080
0.109	0.1046	1.356	0.740	27.11	0.0034	0.1360	0.1741	1.080
0.138	0.1345	1.744	0.720	27.37	0.0045	0.1714	0.1766	1.081
0.168	0.1644	2.133	0.699	27.65	0.0057	0.2069	0.1795	1.081

*Thickness not commonly available. Information only.

Notes: 1. Per foot of projection about the neutral axis.

To obtain A or S per inch of width, divide the above values by 12.

2. Developed width factor measures the increase in profile length due to corrugating.

Dimensions are subject to manufacturing tolerances.

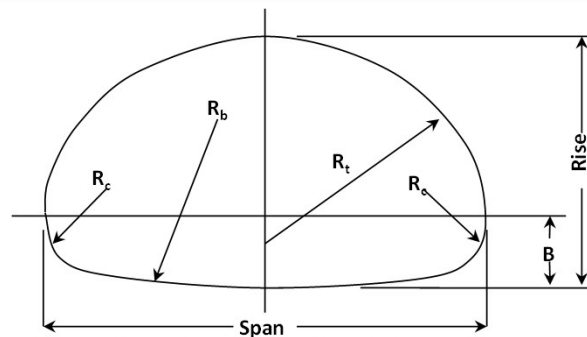


Table 2.22 Sizes and Layout Details – CSP Pipe Arch
2 2/3 x 1/2 in. Corrugation

(as shown on page 48 of the NCSA Corrugated Steel Pipe Design Manual)

Equiv. Diameter, in.	Design		Waterway Area, Ft ²	Layout Dimensions			
	Span, in.	Rise, in.		B in.	R_c in.	R_t in.	R_b in.
15	17	13	1.1	4 7/8	3 1/2	8 7/8	25 1/8
18	21	15	1.6	4 7/8	4 7/8	10 7/8	33 1/8
21	24	18	2.2	5 7/8	4 7/8	11 7/8	34 7/8
24	28	20	2.9	6 7/8	5 7/8	14	42 7/8
30	35	24	4.5	8 7/8	6 7/8	17 7/8	55 7/8
36	42	29	6.5	9 7/8	8 7/8	21 1/2	66 7/8
42	49	33	8.9	11 7/8	9 7/8	25 1/2	77 7/8
48	57	38	11.6	13	11	28 7/8	88 7/8
54	64	43	14.7	14 7/8	12 7/8	32 7/8	99 7/8
60	71	47	18.1	16 7/8	13 7/8	35 7/8	110 7/8
66	77	52	21.9	17 7/8	15 7/8	39 7/8	121 7/8
72	83	57	26.0	19 7/8	16 7/8	43	132 7/8

Note: Layout dimensions are typical manufactured dimensions. Specified dimensions are found in ASTM A760.



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