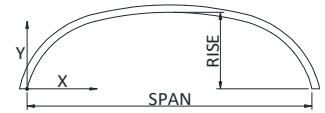




**VERSA™ SERIES MULTIPLE-RADIUS COORDINATES FOR HYDRAULIC MODELING (FT.)**



VM17		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
13	4.07	0	1.75	2.88	3.57	3.95	4.07	3.95	3.57	2.88	1.75	0	
14	4.97	0	2.18	3.57	4.38	4.82	4.97	4.82	4.38	3.57	2.18	0	
15	6.09	0	2.77	4.45	5.41	5.93	6.09	5.93	5.41	4.45	2.77	0	
16	7.70	0	3.79	5.79	6.92	7.51	7.7	7.51	6.92	5.79	3.79	0	
17	12.34	0	7.38	10.13	11.46	12.13	12.34	12.13	11.46	10.13	7.38	0	

VM24		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
15	3.29	0	1.56	2.44	2.93	3.2	3.29	3.2	2.93	2.44	1.56	0	
16	3.96	0	1.9	2.97	3.54	3.86	3.96	3.86	3.54	2.97	1.9	0	
17	4.68	0	2.23	3.54	4.21	4.56	4.68	4.56	4.21	3.54	2.23	0	
18	5.46	0	2.58	4.14	4.93	5.33	5.46	5.33	4.93	4.14	2.58	0	
19	6.30	0	2.88	4.78	5.71	6.16	6.3	6.16	5.71	4.78	2.88	0	
20	7.24	0	3.28	5.5	6.58	7.07	7.24	7.07	6.58	5.5	3.28	0	
21	8.27	0	3.74	6.3	7.55	8.1	8.27	8.1	7.55	6.3	3.74	0	
22	9.46	0	4.32	7.21	8.65	9.26	9.46	9.26	8.65	7.21	4.32	0	
23	10.85	0	5.07	8.29	9.96	10.64	10.85	10.64	9.96	8.29	5.07	0	
24	12.60	0	9.12	9.69	11.62	12.37	12.6	12.37	11.62	9.69	9.12	0	

VM26		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
17	3.29	0	1.71	2.6	3.06	3.27	3.29	3.27	3.06	2.6	1.71	0	
18	3.96	0	2.07	3.15	3.69	3.93	3.96	3.93	3.69	3.15	2.07	0	
19	4.68	0	2.43	3.74	4.36	4.65	4.68	4.65	4.36	3.74	2.43	0	
20	5.46	0	2.79	4.37	5.09	5.42	5.46	5.42	5.09	4.37	2.79	0	
21	6.30	0	3.14	5.05	5.89	6.26	6.3	6.26	5.89	5.05	3.14	0	
22	7.24	0	3.55	5.79	6.76	7.18	7.24	7.18	6.76	5.79	3.55	0	
23	8.27	0	4.03	6.62	7.75	8.21	8.27	8.21	7.75	6.62	4.03	0	
24	9.46	0	4.63	7.57	8.87	9.38	9.46	9.38	8.87	7.57	4.63	0	
25	10.85	0	5.4	8.7	10.2	10.76	10.85	10.76	10.2	8.7	5.4	0	
26	12.60	0	6.48	10.15	11.88	12.5	12.6	12.5	11.88	10.15	6.48	0	

VM31		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
24	4.21	0	1.95	3.12	3.75	4.1	4.21	4.1	3.75	3.12	1.95	0	
25	4.77	0	2.25	3.56	4.26	4.64	4.77	4.64	4.26	3.56	2.25	0	
26	5.40	0	2.59	4.07	4.85	5.26	5.4	5.26	4.85	4.07	2.59	0	
27	6.13	0	3.01	4.66	5.53	5.97	6.12	5.97	5.53	4.66	3.01	0	
28	6.98	0	3.53	5.38	6.34	6.82	6.98	6.82	6.34	5.38	3.53	0	
29	8.03	0	4.21	6.28	7.35	7.86	8.03	7.86	7.35	6.28	4.21	0	
30	9.46	0	5.24	7.55	8.73	9.28	9.46	9.28	8.73	7.55	5.24	0	
31	12.22	0	7.57	10.14	11.44	12.03	12.22	12.03	11.44	10.14	7.57	0	

NOTE: X-DIMENSIONS SHOWN AS PERCENTAGE OF SPAN  
Y-DIMENSIONS LISTED IN TABLES

VM33		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
27	5.09	0	2.4	3.74	4.5	4.94	5.09	4.94	4.5	3.74	2.4	0	
28	5.73	0	2.76	4.27	5.09	5.57	5.73	5.57	5.09	4.27	2.76	0	
29	6.46	0	3.2	4.88	5.78	6.29	6.46	6.29	5.78	4.88	3.2	0	
30	7.32	0	3.74	5.62	6.59	7.14	7.32	7.14	6.59	5.62	3.74	0	
31	8.40	0	4.46	6.55	7.62	8.21	8.4	8.21	7.62	6.55	4.46	0	
32	9.88	0	5.55	7.88	9.04	9.67	9.88	9.67	9.04	7.88	5.55	0	
33	13.00	0	8.75	11.35	12.61	13.28	13.5	13.28	12.61	11.35	8.75	0	

VM38		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
32	4.89	0	2.5	3.72	4.37	4.76	4.89	4.76	4.37	3.72	2.5	0	
33	5.47	0	2.85	4.22	4.92	5.33	5.47	5.33	4.92	4.22	2.85	0	
34	6.13	0	3.26	4.8	5.54	5.98	6.13	5.98	5.54	4.8	3.26	0	
35	6.89	0	3.75	5.47	6.27	6.73	6.89	6.73	6.27	5.47	3.75	0	
36	7.80	0	4.37	6.29	7.14	7.63	7.8	7.63	7.14	6.29	4.37	0	
37	8.95	0	5.2	7.33	8.25	8.77	8.94	8.77	8.25	7.33	5.2	0	
38	10.61	0	6.52	8.89	9.89	10.44	10.62	10.44	9.89	8.89	6.52	0	

VM41		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
34	4.93	0	2.43	3.6	4.34	4.78	4.93	4.78	4.34	3.6	2.43	0	
35	5.46	0	2.76	4.06	4.84	5.3	5.46	5.3	4.84	4.06	2.76	0	
36	6.06	0	3.15	4.58	5.41	5.9	6.06	5.9	5.41	4.58	3.15	0	
37	6.75	0	3.59	5.18	6.06	6.58	6.75	6.58	6.06	5.18	3.59	0	
38	7.56	0	4.14	5.9	6.83	7.38	7.56	7.38	6.83	5.9	4.14	0	
39	8.54	0	4.83	6.79	7.77	8.35	8.54	8.35	7.77	6.79	4.83	0	
40	9.82	0	5.8	7.98	9.01	9.62	9.82	9.62	9.01	7.98	5.8	0	
41	11.95	0	7.59	10.01	11.1	11.74	11.95	11.74	11.1	10.01	7.59	0	

VM44		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
37	5.56	0	2.69	4	4.88	5.39	5.56	5.39	4.88	4	2.69	0	
38	6.13	0	3.06	4.48	5.41	5.95	6.13	5.95	5.41	4.48	3.06	0	
39	6.76	0	3.47	5.01	5.99	6.57	6.76	6.57	5.99	5.01	3.47	0	
40	7.50	0	3.96	5.65	6.69	7.29	7.5	7.29	6.69	5.65	3.96	0	
41	8.37	0	4.58	6.43	7.52	8.16	8.37	8.16	7.52	6.43	4.58	0	
42	9.44	0	5.37	7.4	8.54	9.22	9.44	9.22	8.54	7.4	5.37	0	
43	10.92	0	6.54	8.78	9.98	10.69	10.92	10.69	9.98	8.78	6.54	0	
44	13.00	0	8.29	10.76	12.02	12.76	13	12.76	12.02	10.76	8.29	0	

NOTE: X-DIMENSIONS SHOWN AS PERCENTAGE OF SPAN  
Y-DIMENSIONS LISTED IN TABLES

VM48		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
42	6.60	0	2.91	4.57	5.72	6.39	6.6	6.39	5.72	4.57	2.91	0	
43	7.17	0	3.28	5.03	6.23	6.93	7.17	6.93	6.23	5.03	3.28	0	
44	7.80	0	3.72	5.56	6.82	7.56	7.8	7.56	6.82	5.56	3.72	0	
45	8.53	0	4.23	6.18	7.5	8.27	8.53	8.27	7.5	6.18	4.23	0	
46	9.39	0	4.86	6.93	8.32	9.12	9.39	9.12	8.32	6.93	4.86	0	
47	10.45	0	5.67	7.88	9.33	10.17	10.45	10.17	9.33	7.88	5.67	0	
48	11.91	0	6.86	9.22	10.74	11.62	11.91	11.62	10.74	9.22	6.86	0	

VM55		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
49	7.02	0	3.41	5.02	6.14	6.8	7.02	6.8	6.14	5.02	3.41	0	
50	7.63	0	3.85	5.54	6.71	7.4	7.63	7.4	6.71	5.54	3.85	0	
51	8.32	0	4.37	6.15	7.37	8.08	8.32	8.08	7.37	6.15	4.37	0	
52	9.14	0	4.99	6.87	8.14	8.89	9.14	8.89	8.14	6.87	4.99	0	
53	10.11	0	5.76	7.77	9.08	9.86	10.11	9.86	9.08	7.77	5.76	0	
54	11.41	0	6.81	8.96	10.33	11.14	11.41	11.14	10.33	8.96	6.81	0	
55	13.00	0	8.15	10.46	11.88	12.72	13	12.72	11.88	10.46	8.15	0	

VM60		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
55	7.46	0	3.91	5.49	6.59	7.25	7.46	7.25	6.59	5.49	3.91	0	
56	8.13	0	4.42	6.08	7.22	7.9	8.13	7.9	7.22	6.08	4.42	0	
57	8.90	0	5.02	6.77	7.96	8.66	8.9	8.66	7.96	6.77	5.02	0	
58	9.81	0	5.76	7.62	8.85	9.57	9.81	9.57	8.85	7.62	5.76	0	
59	10.98	0	6.73	8.71	9.98	10.73	10.98	10.73	9.98	8.71	6.73	0	
60	12.71	0	8.23	10.35	11.67	12.45	12.71	12.45	11.67	10.35	8.23	0	

VM66		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
61	8.45	0	4.06	6.02	7.38	8.19	8.45	8.19	7.38	6.02	4.06	0	
62	9.09	0	4.56	6.58	7.99	8.82	9.09	8.82	7.99	6.58	4.56	0	
63	9.84	0	5.15	7.25	8.7	9.56	9.84	9.56	8.7	7.25	5.15	0	
64	10.73	0	5.88	8.05	9.55	10.44	10.73	10.44	9.55	8.05	5.88	0	
65	11.84	0	6.82	9.07	10.62	11.54	11.84	11.54	10.62	9.07	6.82	0	
66	13.41	0	8.19	10.55	12.15	13.09	13.4	13.09	12.15	10.55	8.19	0	

NOTE: X-DIMENSIONS SHOWN AS PERCENTAGE OF SPAN  
Y-DIMENSIONS LISTED IN TABLES

VM72T		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
67	13.76	0	6.78	10.43	12.64	13.76	13.76	13.76	12.64	10.43	6.78	0	
68	14.77	0	7.34	11.14	13.44	14.6	14.6	14.6	13.44	11.14	7.34	0	
69	15.57	0	8.02	11.98	14.35	15.57	15.57	15.57	14.35	11.98	8.02	0	
70	16.73	0	8.88	13.01	15.46	16.73	16.73	16.73	15.46	13.01	8.88	0	
71	18.26	0	10.09	14.4	16.94	18.26	18.26	18.26	16.94	14.4	10.09	0	
72	21.44	0	13.5	18	20.62	22	22	22	20.62	18	13.5	0	

VM78T		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
72	14.58	0	7.1	10.98	13.35	14.58	14.58	14.58	13.35	10.98	7.1	0	
73	15.37	0	7.61	11.64	14.09	15.37	15.37	15.37	14.09	11.64	7.61	0	
74	16.25	0	8.21	12.4	14.92	16.25	16.25	16.25	14.92	12.4	8.21	0	
75	17.27	0	8.93	13.28	15.89	17.27	17.27	17.27	15.89	13.28	8.93	0	
76	18.49	0	9.83	14.36	17.05	18.49	18.49	18.49	17.05	14.36	9.83	0	
77	20.09	0	11.12	15.83	18.6	20.09	20.09	20.09	18.6	15.83	11.12	0	
78	24	0	14.7	19.6	22.45	24	24	24	22.45	19.6	14.7	0	

VM84T		LEFT LEG					MID-SPAN					RIGHT LEG	
Span	Rise \ X	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
78	16.17	0	7.91	12.17	14.77	16.17	16.17	16.17	14.77	12.17	7.91	0	
79	16.99	0	8.45	12.87	15.55	16.99	16.99	16.99	15.55	12.87	8.45	0	
80	17.92	0	9.08	13.67	16.42	17.92	17.92	17.92	16.42	13.67	9.08	0	
81	18.98	0	9.84	14.6	17.43	18.98	18.98	18.98	17.43	14.6	9.84	0	
82	20.25	0	10.8	15.73	18.65	20.24	20.25	20.24	18.65	15.73	10.8	0	
83	21.93	0	12.16	17.27	20.27	21.9	21.93	21.9	20.27	17.27	12.16	0	
84	26.00	0	15.9	21.2	24.29	25.96	26	25.96	24.29	21.2	15.9	0	

NOTE: X-DIMENSIONS SHOWN AS PERCENTAGE OF SPAN  
Y-DIMENSIONS LISTED IN TABLES