TABLE XXXIV.

TABLE OF PERMISSIBLE PRESSURES ON ROLLERS FOR BRIDGES OF CLASS A.

Formula, $p = 0.25\sqrt{d}$, where p is the pressure in tons per lineal inch of roller, and d the diameter of roller in inches. The first and last vertical lines give the diameters, and the upper and lower lines the length of rollers. The intermediate spaces contain the permissible pressures on the rollers.

Dia.	10″	11″	12″	13″	14″	15″	16″	17″	18″	19″	20″	21″	22″	23″	24″	25″	26″	27″	28″	29″	30″	Dia.
1½″	3.31	3.64	3.97	4.30	4.63	4.96	5.29	5.62	5.95	6.28	6.61	6.94	7.28	7.61	7.94	8.27	8.60	8.93	9.26	9.59	9.92	1½″
1¾″	3.42	3.77	4.11	4.45	4.79	5.13	5.48	5.82	6.16	6.50	6.85	7.19	7.53	7.87	8.22	8.56	8.90	9.24	9.58	9.93	10.27	1¾″
2″	3.54	3.89	4.24	4.60	4.95	5.30	5.66	6.01	6.36	6.72	7.07	7.43	7.80	8.13	8.49	8.84	9.19	9.55	9.90	10.25	10.61	2″
2¼″	3.64	4.01	4.37	4.74	5.10	5.47	5.83	6.19	6.60	6.92	7.29	7.65	8.02	8.38	8.75	9.11	9.47	9.84	10.20	10.57	10.93	2¼″
2½″	3.75	4.13	4.50	4.88	5.25	5.63	6.00	6.38	6.75	7.13	7.50	7.88	8.25	8.63	9.00	9.38	9.75	10.13	10.50	10.88	11.25	2½″
2¾″	3.85	4.24	4.62	5.01	5.39	5.78	6.16	6.55	6.94	7.32	7.71	8.09	8.48	8.86	9.25	9.63	10.02	10.40	10.79	11.17	11.56	2¾″
3″	3.95	4.35	4.74	5.14	5.53	5.93	6.32	6.72	7.12	7.51	7.91	8.30	8.70	9.09	9.49	9.88	10.28	10.67	11.07	11.46	11.86	3″
3¼″	4.05	4.46	4.86	5.27	5.67	6.08	6.48	6.89	7.29	7.70	8.10	8.51	8.91	9.32	9.72	10.13	10.53	10.94	11.34	11.75	12.15	3¼″
3½″	4.15	4.56	4.98	5.39	5.80	6.22	6.63	7.05	7.46	7.88	8.29	8.71	9.12	9.54	9.95	10.37	10.78	11.19	11.61	12.02	12.44	3½″
3¾″	4.24	4.66	5.09	5.51	5.93	6.36	6.78	7.21	7.63	8.05	8.48	8.90	9.33	9.75	10.17	10.60	11.02	11.45	11.87	12.29	12.72	3¾″
4″	4.33	4.76	5.20	5.63	6.06	6.50	6.93	7.36	7.79	8.23	8.66	9.09	9.53	9.96	10.39	10.83	11.26	11.69	12.12	12.56	12.99	4″
4¼″	4.42	4.86	5.30	5.74	6.19	6.63	7.07	7.51	7.95	8.40	8.84	9.28	9.72	10.16	10.61	11.05	11.50	11.92	12.37	12.82	13.26	4¼″
4½″	4.51	4.96	5.41	5.86	6.31	6.76	7.21	7.66	8.11	8.56	9.01	9.46	9.92	10.37	10.82	11.27	11.72	12.17	12.62	13.07	13.52	4½″
4¾″	4.59	5.05	5.51	5.97	6.43	6.89	7.35	7.81	8.27	8.73	9.19	9.65	10.10	10.56	11.02	11.48	11.94	12.40	12.86	13.32	13.78	4¾″
5″	4.68	5.14	5.61	6.08	6.55	7.02	7.48	7.95	8.42	8.89	9.35	9.82	10.29	10.76	11.22	11.69	12.16	12.63	13.10	13.56	14.03	5″
5¼″	4.76	5.24	5.71	6.19	6.66	7.14	7.62	8.09	8.57	9.04	9.52	10.00	10.47	10.95	11.42	11.90	12.38	12.85	13.33	13.80	14.28	5¼″
5½″	4.84	5.33	5.81	6.29	6.78	7.26	7.75	8.23	8.71	9.20	9.68	10.17	10.65	11.13	11.62	12.10	12.59	13.07	13.55	14.04	14.52	5½″
5¾″	4.92	5.41	5.91	6.40	6.89	7.38	7.87	8.37	8.86	9.35	9.84	10.33	10.83	11.32	11.81	12.30	12.79	13.29	13.78	14.27	14.76	5¾″
6″	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	6″
Dia.	10″	11″	12″	13″	14″	15″	16″	17″	18″	19″	20″	21″	22″	23″	24″	25″	26″	27″	28″	29″	30″	Dia.