

جدول مورد نیاز مبحث دهم مقررات ملی ساختمان (ویرایش ۹۲)

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(مدرس دوره های آمادگی آزمون محاسبات نظام مهندسی)

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$$P = 0.9F_{cr}A_g \quad \lambda = \max\left(\frac{K_x L}{r_x}, \frac{K_y L}{r_y}\right)$$

ضریب لاغری حداکثر

مقادیر F_{cr} ها براساس Mpa داده شده است و برای دونوع فولاد ST37 (240Mpa) و ST52 (360Mpa) محاسبه شده است:

λ	Fcr (240)	Fcr (360)	λ	Fcr (240)	Fcr (360)	λ	Fcr (240)	Fcr (360)	λ	Fcr (240)	Fcr (360)	λ	Fcr (240)	Fcr (360)
1	240.0	360.0	41	220.3	316.6	81	171.9	218.2	121	113.9	118.2	161	66.8	66.8
2	240.0	359.9	42	219.4	314.6	82	170.5	215.5	122	112.5	116.3	162	66.0	66.0
3	239.9	359.8	43	218.4	312.6	83	169.0	212.8	123	111.1	114.4	163	65.2	65.2
4	239.8	359.6	44	217.5	310.5	84	167.6	210.1	124	109.7	112.6	164	64.4	64.4
5	239.7	359.3	45	216.5	308.4	85	166.2	207.4	125	108.4	110.8	165	63.6	63.6
6	239.6	359.0	46	215.5	306.3	86	164.7	204.7	126	107.0	109.0	166	62.8	62.8
7	239.4	358.7	47	214.5	304.1	87	163.3	202.0	127	105.6	107.3	167	62.1	62.1
8	239.2	358.2	48	213.4	301.9	88	161.8	199.3	128	104.3	105.7	168	61.3	61.3
9	239.0	357.8	49	212.4	299.7	89	160.4	196.7	129	102.9	104.0	169	60.6	60.6
10	238.8	357.3	50	211.3	297.5	90	158.9	194.0	130	101.6	102.4	170	59.9	59.9
11	238.5	356.7	51	210.2	295.2	91	157.5	191.3	131	100.2	100.9	171	59.2	59.2
12	238.2	356.1	52	209.1	292.9	92	156.0	188.7	132	98.9	99.4	172	58.5	58.5
13	237.9	355.4	53	208.0	290.5	93	154.5	186.0	133	97.6	97.9	173	57.8	57.8
14	237.6	354.7	54	206.9	288.2	94	153.1	183.4	134	96.2	96.4	174	57.2	57.2
15	237.3	353.9	55	205.8	285.8	95	151.6	180.8	135	94.9	95.0	175	56.5	56.5
16	236.9	353.0	56	204.6	283.4	96	150.2	178.1	136	93.6	93.6	176	55.9	55.9
17	236.5	352.1	57	203.4	280.9	97	148.7	175.5	137	92.2	92.2	177	55.3	55.3
18	236.1	351.2	58	202.2	278.5	98	147.2	172.9	138	90.9	90.9	178	54.6	54.6
19	235.6	350.2	59	201.0	276.0	99	145.7	170.4	139	89.6	89.6	179	54.0	54.0
20	235.2	349.2	60	199.8	273.5	100	144.3	167.8	140	88.3	88.3	180	53.4	53.4
21	234.7	348.1	61	198.6	271.0	101	142.8	165.2	141	87.1	87.1	181	52.8	52.8
22	234.2	346.9	62	197.4	268.5	102	141.3	162.7	142	85.9	85.9	182	52.3	52.3
23	233.6	345.8	63	196.1	265.9	103	139.9	160.2	143	84.7	84.7	183	51.7	51.7
24	233.1	344.5	64	194.8	263.3	104	138.4	157.7	144	83.5	83.5	184	51.1	51.1
25	232.5	343.2	65	193.6	260.8	105	136.9	155.2	145	82.3	82.3	185	50.6	50.6
26	231.9	341.9	66	192.3	258.2	106	135.5	152.7	146	81.2	81.2	186	50.0	50.0
27	231.3	340.5	67	191.0	255.6	107	134.0	150.2	147	80.1	80.1	187	49.5	49.5
28	230.6	339.1	68	189.7	252.9	108	132.6	147.8	148	79.0	79.0	188	49.0	49.0
29	229.9	337.6	69	188.4	250.3	109	131.1	145.4	149	78.0	78.0	189	48.5	48.5
30	229.3	336.1	70	187.0	247.7	110	129.7	142.9	150	76.9	76.9	190	48.0	48.0
31	228.5	334.5	71	185.7	245.0	111	128.2	140.6	151	75.9	75.9	191	47.5	47.5
32	227.8	332.9	72	184.3	242.4	112	126.8	138.0	152	74.9	74.9	192	47.0	47.0
33	227.1	331.3	73	183.0	239.7	113	125.3	135.6	153	74.0	74.0	193	46.5	46.5
34	226.3	329.6	74	181.6	237.0	114	123.9	133.2	154	73.0	73.0	194	46.0	46.0
35	225.5	327.9	75	180.3	234.3	115	122.4	130.9	155	72.1	72.1	195	45.5	45.5
36	224.7	326.1	76	178.9	231.6	116	121.0	128.7	156	71.1	71.1	196	45.1	45.1
37	223.8	324.3	77	177.5	229.0	117	119.6	126.5	157	70.2	70.2	197	44.6	44.6
38	223.0	322.4	78	176.1	226.3	118	118.2	124.3	158	69.3	69.3	198	44.2	44.2
39	222.1	320.5	79	174.7	223.6	119	116.7	122.2	159	68.5	68.5	199	43.7	43.7
40	221.2	318.6	80	173.3	220.9	120	115.3	120.2	160	67.6	67.6	200	43.3	43.3