

BENKAN fitting

اتصالات فولادی بنکن ژاپن





D.A.M.I.R. Trading

National Standard Dimensions ANSI B36.19-36.10

Thickness Chart (mm) جدول لوله

Figures based on austenitic steel

Figures based on austenitic steel																				
Nominal pipe size DN	Nominal pipe size inches	OD mm	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S	Vol/m m3
6	1/8	10.30				1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47							1.24 0.28	1.73 0.36	2.41 0.48	0.0001
8	1/4	13.70				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80							1.65 0.51	2.24 0.64	3.02 0.82	0.0001
10	3/8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10							1.65 0.64	2.31 0.86	3.20 1.12	0.0003
15	1/2	21.30				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55	1.65 0.82	2.11 1.01	2.77 1.30	3.73 1.66	0.0004
20	3/4	26.70				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64	1.65 1.04	2.11 1.31	2.87 1.71	3.73 1.66	0.0007
25	1	33.40				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 4.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29	0.0011
32	1 1/4	42.20				3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47				6.35 5.61	9.70 7.77	1.65 1.68	2.77 3.17	3.68 4.13	4.85 4.56	0.0018
40	1 1/2	48.30				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56	1.65 2.44	2.77 3.17	3.68 4.13	5.08 5.51	0.0023
50	2	60.30				3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44	2.11 3.77	3.05 3.36	5.16 8.81	5.54 7.63	0.0036
65	2 1/2	73.00				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39	2.11 4.60	3.05 6.59	5.49 11.52	7.01 11.64	0.0053
80	3	88.90				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.68	2.11 4.60	3.05 6.59	5.49 11.52	7.62 15.59	0.0079
90	3 1/2	101.60				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63						2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01	0.0103
100	4	114.30				6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32	11.13 28.32			13.49 33.54	17.12 41.03	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77	0.0130
125	5	141.30				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97	12.70 40.28			15.88 49.11	19.05 57.43	2.77 9.67	3.40 11.82	6.55 22.20	9.53 31.59	0.0199
150	6	168.30				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56	14.27 40.28			18.26 67.56	21.95 79.22	2.77 11.55	3.40 14.13	7.11 28.33	10.97 43.42	0.028
200	8	219.10		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92	2.77 15.09	3.76 20.37	8.18 43.39	12.70 65.59	0.048
250	10	273.10		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.09 75.92	18.26 90.44	21.44 104.75	25.40 133.06	28.58 155.15	25.40 172.33	3.40 23.08	4.19 28.34	9.27 61.52	12.70 83.19	0.074
300	12	323.90		6.35 49.73	8.38 65.20	9.53 73.68	9.53 73.68	10.31 79.73	12.70 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	3.96 31.89	4.57 36.73	9.52 75.52	12.70 83.19	0.104
350	14	355.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.71	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.14		3.96 35.06	4.78 42.14			0.126
400	16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 203.53	21.44 245.56	26.19 286.64	30.96 333.19	36.53 365.53	40.49 365.53		4.19 42.41	4.78 48.26			0.165
450	18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.83 254.55	28.33 309.62	34.93 363.56	39.67 408.26	45.24 459.37		4.19 47.77	7.78 60.46			0.208
500	20	508.00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.1 564.81		4.78 60.46	5.54 40.00			0.258
550	22	559.00	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13	22.23 229.13	12.70 294.45	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26		4.78 66.57	5.54 76.10			0.312
600	24	610.00	6.35 94.53	9.53 141.62	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 422.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22		5.54 84.16	6.35 96.37			0.372
650	26	660.00	7.92 127.36	12.70 202.72		9.53 152.87			12.70 202.72											0.435
700	28	711.00	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85			12.70 218.69											0.505
750	30	762.00	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67							6.35 120.72	7.92 150.36			0.580
800	32	813.00	7.92 147.28	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64											0.660
850	34	864.00	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61											0.746
900	36	914.00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27											0.835
950	38	965.00				9.53 224.54			12.70 298.24											0.931
1000	40	1016.00				9.53 236.53			12.70 314.22											1.032
1050	42	1067.00				9.53 248.52			12.70 330.19											1.138
1100	44	1118.00				9.53 260.50			12.70 346.16											1.249
1150	46	1168.00				9.53 272.25			12.70 351.82											1.364
1200	48	1219.00				9.53 284.24			12.70 377.74											1.485





Welded Stainless Steel Tube

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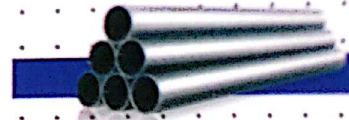
OD		Weight in Kg/meter												Tolerances (MM)		
		BWG=														
Inch	mm	0.8	1	1.2	1.5	1.6	2	2.11	2.41	2.5	2.6	(12) 2.77	(11) 3	OD	W.T	Length
-	10	0.184	0.225	0.264	0.319	0.336	-	-	-	-	-	-	-	+/-0 13mm	+/-12.5%	-0/+5mm
-	12	0.224	0.275	0.324	0.394	0.416	-	-	-	-	-	-	-			
1/2	12.7	0.238	0.293	0.345	0.420	0.444	-	-	-	-	-	-	-			
-	14	0.264	0.325	0.384	0.469	0.496	-	-	-	-	-	-	-			
-	15	0.283	0.349	0.413	0.504	0.534	0.648	-	-	-	-	-	-			
5/8	15.88(16)	0.301	0.372	0.440	0.540	0.571	0.694	-	-	-	-	-	-			
-	18	0.344	0.425	0.504	0.619	0.656	0.800	0.838	0.939	0.969	1.001	1.055	1.125			
3/4	19.05	0.364	0.450	0.534	0.659	0.696	0.850	0.891	1.000	1.032	1.066	1.124	1.200			
7/8	22.23(22)	0.429	0.531	0.632	0.778	0.826	1.013	1.062	1.195	1.234	1.277	1.349	1.444			
-	25	0.484	0.600	0.714	0.881	0.936	1.150	1.207	1.361	1.406	1.456	1.539	1.650			
1	25.4	0.492	0.610	0.726	0.897	0.952	1.170	1.229	1.385	1.442	1.482	1.567	1.682			
1-1/4	31.8	-	0.770	0.918	1.136	0.208	1.490	1.566	1.771	1.830	1.898	2.010	2.160			
1-1/2	38.1	-	0.928	1.104	1.374	1.456	1.800	1.899	2.151	2.227	2.301	2.448	2.625			
1-3/4	44.45	-	1.087	1.299	1.613	1.716	2.125	2.235	2.535	2.625	2.724	2.888	3.113			
2	50.8	-	1.246	1.488	1.851	1.968	2.440	2.570	2.918	3.042	3.133	3.329	3.585			
2-1/2	63.5	-	-	1.871	2.328	2.476	3.075	3.242	3.685	3.843	3.959	4.210	3.588			
3	76.2	-	-	2.252	2.805	2.988	3.714	3.912	3.912	4.612	4.778	5.090	5.497			

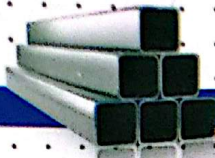
WEIGHT OF STAINLESS STEEL SHEET AND PLATE

جدول ورق

Thickness (mm)	Kgs/m ²	Weight sheet Kgs			
		1 x 2	1.25 x 2.5	1.5 x 3	2 x 4
12.00	94.8000	189.60	296.25	426.60	758.40
10.00	79.0000	158.00	246.88	355.50	632.00
8.00	63.2000	126.40	197.50	284.40	505.60
6.00	47.4000	94.80	148.13	213.30	379.20
5.00	39.5000	79.00	123.44	177.75	316.00
4.00	31.6000	63.20	98.75	142.20	252.80
3.00	23.7000	47.40	74.06	106.65	189.60
2.83	22.3570	44.71	69.87	100.61	178.86
2.50	19.7500	39.50	61.72	88.88	158.00
2.00	15.8000	31.60	49.38	71.10	126.40
1.50	11.8500	23.70	37.03	53.33	94.80
1.20	9.4800	18.96	29.63	42.66	75.84
1.00	7.9000	15.80	24.69	35.55	63.20
0.90	7.1100	14.22	22.22	32.00	56.88
0.80	6.3200	12.64	19.75	28.44	50.56
0.70	5.5300	11.06	17.28	24.89	44.24
0.60	4.7400	9.48	14.81	21.33	37.92
0.55	4.3450	8.69	13.58	19.55	34.76
0.50	3.9500	7.90	12.34	17.78	31.60
0.45	3.5550	7.11	11.11	16.00	28.44
0.40	3.1600	6.32	9.88	14.22	25.28
0.30	2.3700	4.74	7.41	10.67	18.96

Weights are thoretical and shoud serve as a guide only for 300 series alloy

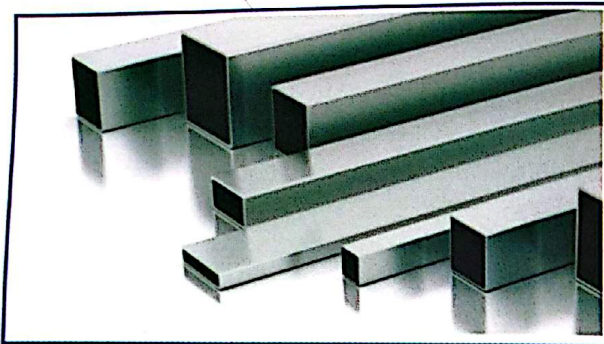




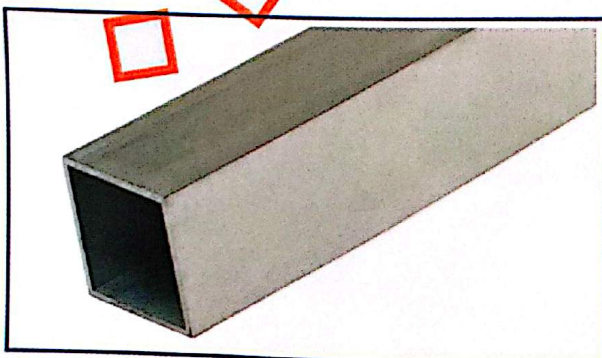
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پروفیل مستطیل

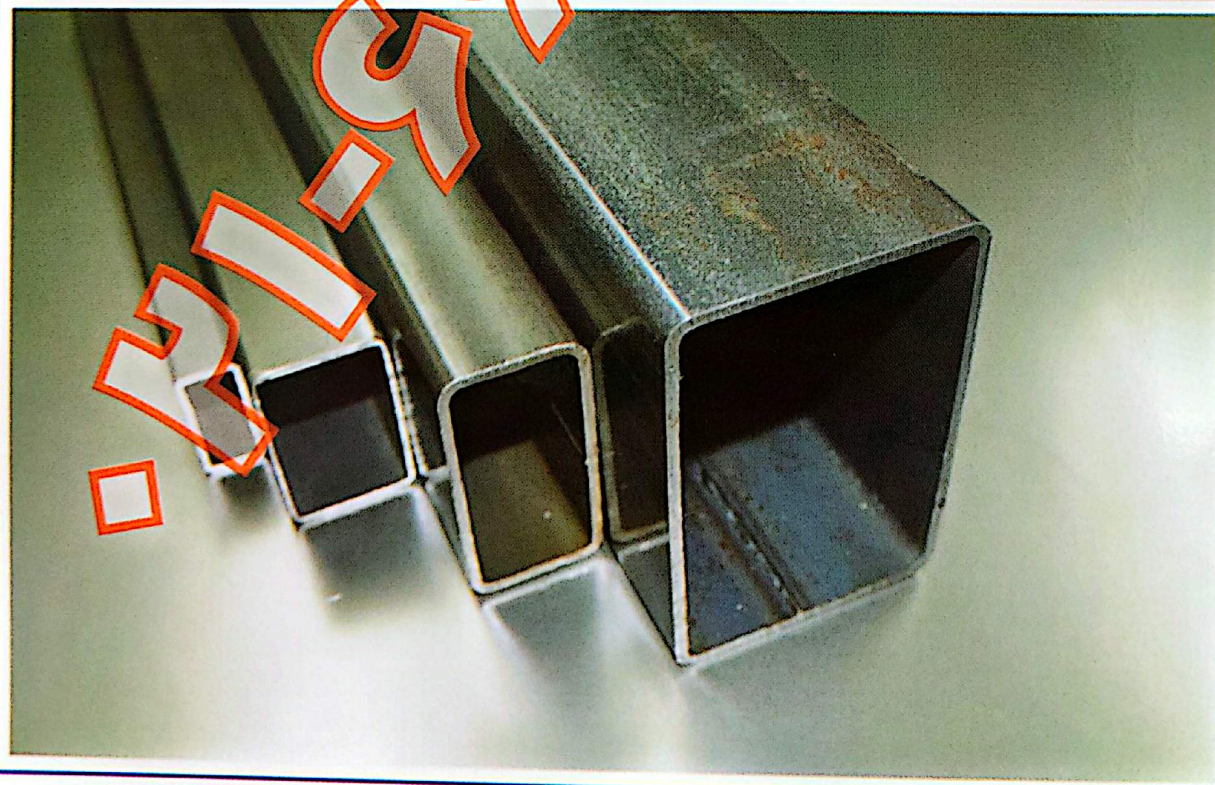
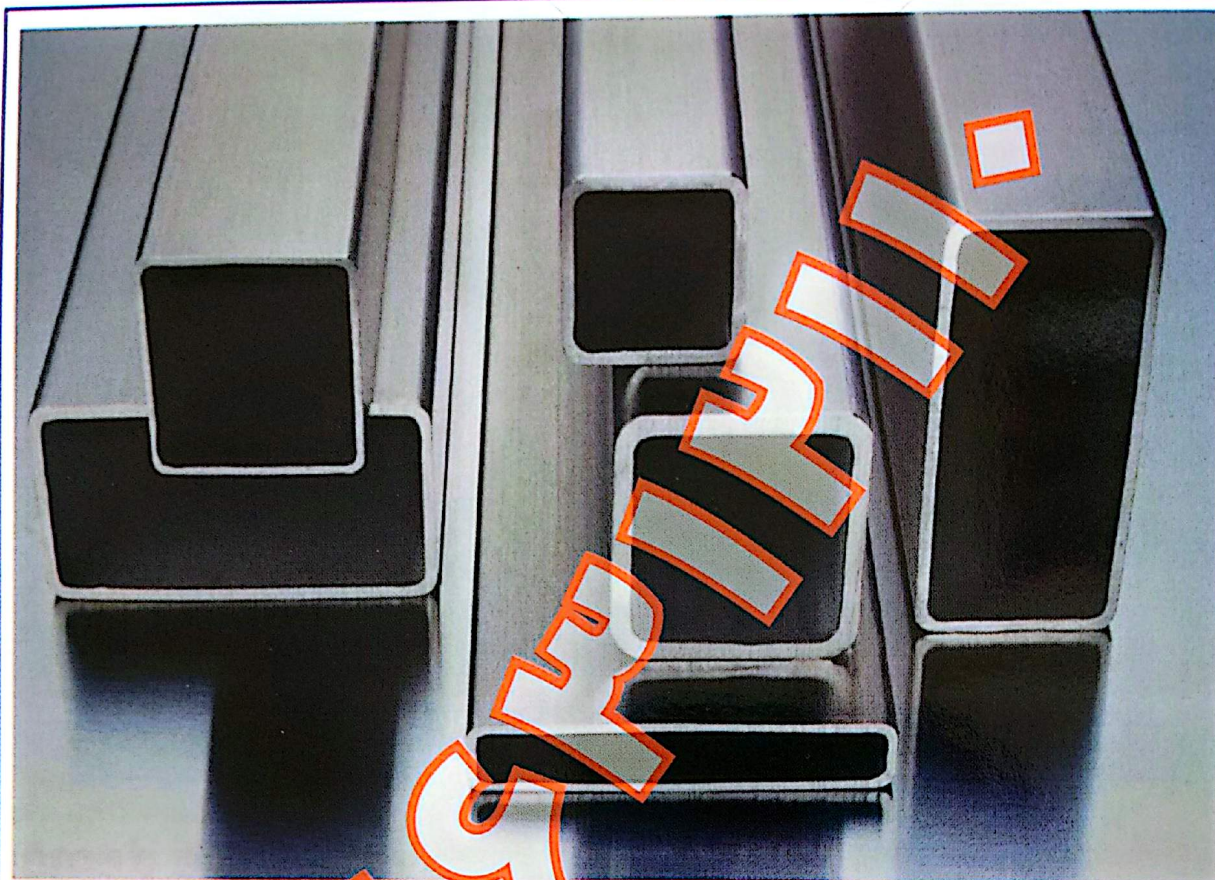
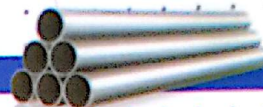


پروفیل مربع به طول ۶ متر				
ضخامت mm				ابعاد mm
4	3	2/5	2	
			3	10*10
			3/40	12*12
			4/9	16*16
			6	19*19
		9	7	20*20
	12/5	11	9	25*25
	16/5	12	11	30*30
	18	15/6	13	35*35
28	21/5	17/5	15	40*40
32	25	20/5	16/8	45*45
36/5	27/5	23	19	50*50
40	31	25	20/5	55*55
45	33	28	22/5	60*60
51	39	32	26/2	70*70
59	45	37	30	80*80
67	50	42	33/5	90*90
75	56	47	37/5	100*100
90	67	56	45	120*120
103	78	65	52	140*140
120	90	75	60	160*160



پروفیل مستطیل به طول ۶ متر				
ضخامت mm				ابعاد mm
4	3	2/5	2	
			4/5	20*10
			5/5	25*10
		7/7	6/4	30*10
		11	9/3	30*20
		11	9/3	35*15
		11	9/3	40*10
	16/5	13/4	10/2	40*20
	17/9	15/6	12/1	40*25
	19/3	15/8	13/1	40*30
	16/5	13/4	10/2	50*10
	17/9	14/6	11/1	50*15
	19/3	15/8	13/1	50*20
25/8	20/7	17/9	13/9	50*25
27/6	22/1	18/1	14/9	50*30
29/8	25/0	20/5	16/8	50*40
32/7	22/1	18/1	14/9	60*20
29/6	23/6	19/3	15/9	60*25
31/3	25	20/5	16/8	60*30
33/1	26/8	23/8	18/7	60*40
36/6	31	25/2	20/6	60*50
40	25	20/5	16/8	70*25
32	27/5	23	18/7	70*30
36/5	31	25	20/6	70*40
40	33	28	22/5	70*50
45	33	28	22/5	80*40
45	39	32	26/2	80*60
51	31	25	20/6	90*20
40	33	28	22/5	90*30
45	39	32	26/2	90*50
51	39	32	26/2	100*40
59	45	37	30	100*60
67	50	42	33/5	100*80
59	45	37	30	120*40
67	50	42	33/5	120*60
75	56	47	37/6	120*80
				140*60
				120*80
				150*150

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D.A.M.T.R. Trading

جدول اوزان، میلگرد، چار پهلو و شش گوش

mm	kg/m	kg/m	kg/m	mm	kg/m	kg/m	kg/m	mm	kg/m	kg/m	kg/m	mm	kg/m	kg/m	kg/m
3	0/056	0/071	0/061	35	7/553	9/616	8/328	120	88/781	113/040	97/895	365	721/381	1045/816	905/70
3/5	0/076	0/096	0/083	36	7/990	10/174	8/818	125	96/337	122/656	106/223	370	884/039	1074/665	930/687
4	0/099	0/126	0/109	37	8/440	10/747	9/307	130	104/195	132/665	114/891	375	867/005	1103/906	956/010
4/5	0/125	0/159	0/139	38	8/903	11/335	9/817	135	112/364	143/066	123/899	380	890/279	1133/540	981/674
5	0/154	0/196	0/170	39	9/378	11/940	10/340	140	120/841	153/860	133/247	385	913/862	1163/566	1007/677
5/5	0/187	0/237	0/206	40	9/865	12/560	10/877	145	129/627	165/046	142/934	390	937/753	1193/985	1034/021
6	0/222	0/283	0/245	41	10/364	11/190	11/428	150	138/721	176/625	152/962	395	961/952	1224/796	1060/704
6/5	0/261	0/392	0/287	42	10/786	13/847	11/992	155	148/123	188/596	163/329	400	986/459	1265/000	1087/727
7	0/302	0/385	0/333	43	11/400	14/515	12/570	160	157/833	200/960	174/036	405	1011/275	1287/596	1115/090
7/5	0/347	0/442	0/382	44	11/936	15/198	13/162	165	167/852	213/716	185/084	410	1036/399	1319/585	1142/794
8	0/395	0/502	0/435	45	12/485	15/896	13/767	170	178/179	226/865	196/471	415	1081/831	1351/966	1170/837
8/5	0/445	0/567	0/491	46	13/046	16/611	14/385	175	188/814	240/406	208/198	420	1087/571	1384/740	1199/215
9	0/449	0/636	0/551	47	13/619	17/341	15/017	180	199/757	254/340	220/265	425	1113/620	1417/906	1227/942
9/5	0/556	0/708	0/614	48	14/205	18/086	15/166	185	211/010	268/666	232/672	430	1139/977	1451/465	1257/005
10	0/617	0/785	0/680	49	14/803	18/848	16/323	190	222/570	283/385	245/418	435	1166/642	1485/416	1286/408
10/5	0/680	0/865	0/750	50	15/413	19/625	16/996	195	234/438	298/496	258/505	440	1193/616	1519/760	1316/150
11	0/747	0/950	0/823	51	16/036	20/418	17/682	200	264/614	314/000	271/932	445	1222/285	1554/496	1346/233
11/5	0/815	1/038	0/899	52	16/671	21/226	18/383	205	259/100	329/896	285/698	450	1248/487	1589/625	1376/355
12	0/888	1/130	0/979	53	17/319	22/051	19/096	210	271/893	346/185	299/805	455	1276/386	1625/146	1407/417
12/5	0/963	1/227	1/062	54	17/978	22/891	19/824	215	284/994	362/866	314/251	460	1304/592	1661/060	1438/519
13	1/042	1/327	1/149	55	18/650	23/746	20/565	220	298/403	379/940	329/038	465	1333/107	1697/366	1469/962
13/5	1/124	1/431	1/239	56	19/335	24/618	21/319	225	312/122	397/406	344/164	470	1361/930	1734/058	1501/744
14	1/175	1/539	1/332	57	20/031	25/505	22/088	230	326/148	415/265	359/630	475	1391/062	1771/156	1533/866
14/5	1/296	1/650	1/429	58	20/740	26/407	22/869	235	340/483	433/516	375/436	480	1420/501	1808/640	1566/327
15	1/387	1/766	1/530	59	21/462	27/326	23/665	240	355/125	452/160	391/582	485	1450/249	1846/516	1599/129
15/5	1/481	1/886	1/633	60	22/195	28/260	24/474	245	370/076	471/196	408/068	490	1480/305	1884/785	1632/271
16	1/578	2/010	1/740	61	22/941	29/210	25/296	250	385/336	490/625	424/894	495	1510/670	1923/446	1665/765
16/5	1/678	2/137	1/851	62	23/700	30/175	26/133	255	400/903	510/446	442/059	500	1541/343	1962/500	1699/574
17	1/782	2/269	1/965	63	24/470	31/157	26/982	260	416/779	530/660	459/656	505	1572/323	2001/946	1733/734
17/5	1/888	2/404	2/082	64	25/253	32/151	27/846	265	432/963	551/266	477/410	510	1603/613	2041/785	1768/235
18	1/998	2/543	2/203	65	26/049	33/166	27/723	270	449/455	572/265	495/596	515	1635/210	2082/016	1803/076
18/5	2/110	2/687	2/327	66	26/856	34/195	29/6	275	466/266	593/565	514/121	520	1667/116	1222/640	1838/258
19	2/226	2/834	2/454	67	27/676	35/239	30/518	280	483/365	615/440	532/986	525	1699/330	1263/365	1873/799
19/5	2/344	2/985	2/585	68	28/509	36/298	31/435	285	500/782	637/616	552/192	530	1731/852	2205/065	1909/406
20	2/466	3/140	2/719	69	29/353	37/374	23/367	290	518/508	660/185	571/737	535	1764/683	2246/866	1945/841
21	2/719	3/462	2/998	70	30/081	38/465	33/312	295	536/541	683/146	591/622	540	1797/822	2289/060	1989/281
22	2/984	3/799	3/290	72	31/961	40/694	35/242	300	554/883	706/500	611/847	545	1831/269	2331/646	2019/262
23	3/269	4/153	3/596	74	33/762	42/987	37/227	305	573/534	730/246	632/411	550	1865/024	2374/625	2056/483
24	3/551	4/522	3/916	75	34/680	44/156	38/240	310	592/492	754/385	653/316	555	1899/088	2417/996	2094/043
25	3/853	4/906	4/249	76	35/611	45/342	39/267	315	611/659	778/916	647/561	560	1933/460	2461/769	2131/944
26	4/168	5/307	4/595	78	37/510	47/759	41/361	320	631/334	803/840	696/146	565	1968/140	2505/916	2170/184
27	4/495	5/723	4/950	80	39/458	50/240	43/509	325	651/217	829/156	718/070	570	2003/129	2550/465	2207/764
28	4/824	6/154	5/330	85	44/545	56/716	49/118	330	671/409	854/865	740/334	575	2038/425	2595/406	2247/685
29	5/185	6/602	5/717	90	49/939	63/585	55/066	335	691/909	855/898	741/22	580	2047/030	2640/740	2286/945
30	5/549	7/065	6/118	95	55/642	70/846	61/355	340	712/717	880/966	762/933	585	2109/944	2686/416	2326/545
31	5/925	7/544	6/533	100	61/654	78/500	67/983	345	733/833	934/346	809/167	590	2146/165	2732/585	2366/458
32	6/613	8/838	6/961	105	67/973	86/546	74/951	350	755/258	961/625	832/775	595	2182/695	2779/096	2406/765
33	6/741	8/549	7/403	110	74/601	94/985	82/259	355	776/991	989/296	856/775	600	2219/533	2826/000	2477/384
34	7/127	9/075	7/859	115	81/537	103/816	89/907	360	799/032	1017/360	881/059				

