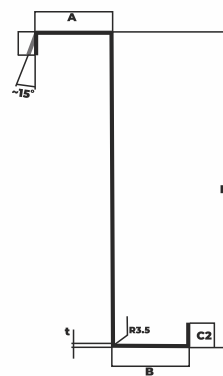




PRODUS

PROFIL ZINCAT Z



$$100 \leq H \leq 400$$

$$38 \leq A \leq 100$$

$$38 \leq B \leq 100$$

$$18 \leq C1 \leq 30$$

$$18 \leq C2 \leq 30$$

$$1,25 \leq t \leq 3,5$$

$$C1/A \leq 0,48$$

$$C2/B \leq 0,48$$

$$A-B \leq 8$$

Profilele metalice Z reprezintă o inovație în domeniul structurilor metalice pentru hale industriale ușoare. Profilele Z sunt utilizate în principal pentru formarea stâlpilor și grinzilor compuse.

Rigiditatea și rezistența profilelor permit utilizarea pentru:

- elemente structurale din oțel pentru lucrări de construcții civile, industriale, agricole;
- elemente secundare ale structurilor de rezistență ale clădirilor ca pane pentru acoperiș sau rigle pentru pereți;

CARACTERISTICI TEHNICE	Înălțimea secțiunilor	100 - 400 mm
	Unghiurile de îndoire	90°
	Grosimi	1.5 - 3.5 mm
	Calitate material	S350GD+Z275
	Lungimi de tăiere standard	250- 15000 mm * pentru alte lungimi vă rugăm contactați dep. tehnic BILKA

- profilele Z pot fi perforate conform planului de găurire realizat de proiectant. Perforarea se poate realiza pe toate laturile, precum și pe tăpile profilelor;
- profilele pot fi realizate cu laturi egale sau inegale;
- toate legăturile elementelor structurale se realizează cu șuruburi, asigurând o asamblare rapidă și ușoară la fața locului.

Scheme de găurire	Tip perforație									
	Diametru disponibil									
	ROTUND		10	12	14	16	18	20	22	30
	OVAL		18x14	25x12	25x14	32x16	40x18	50x5		
	PĂTRAT		20x20	40x40						

DIVERSE COMBINAȚII



TIP PROFIL	Dimensiuni selecționale							
	H (mm)	A(mm)	B (mm)	C1=C2 (mm)	t (mm)	t _n (mm)	r (mm)	G(kg/ml)
Z100-1.5	100	47	40	18	1.46	1.5	3.5	2.48
Z100-2	100	47	40	18	1.96	2	3.5	3.25
Z100-2.5	100	47	40	18	2.46	2.5	3.5	4.02
Z100-3	100	47	40	18	2.96	3	3.5	4.69
Z100-3.5	100	47	40	18	3.46	3.5	3.5	5.36
Z120-1.5	120	47	40	18	1.46	1.5	3.5	2.72
Z120-2	120	47	40	18	1.96	2	3.5	3.56
Z120-2.5	120	47	40	18	2.46	2.5	3.5	4.38
Z120-3	120	47	40	18	2.96	3	3.5	5.16
Z120-3.5	120	47	40	18	3.46	3.5	3.5	5.91
Z140-1.5	140	47	40	18	1.46	1.5	3.5	2.96
Z140-1.5	140	66	59	22	1.46	1.5	3.5	3.47
Z140-2	140	47	40	18.5	1.96	2	3.5	3.89
Z140-2	140	66	59	22	1.96	2	3.5	4.58
Z140-2.5	140	47	40	19	2.46	2.5	3.5	4.81
Z140-2.5	140	66	59	22	2.46	2.5	3.5	5.65
Z140-3	140	47	40	19	2.96	3	3.5	5.68
Z140-3	140	66	59	22	2.96	3	3.5	6.71
Z140-3.5	140	47	40	19	3.46	3.5	3.5	6.51
Z140-3.5	140	66	59	22	3.46	3.5	3.5	7.72
Z150-1.5	150	47	40	18	1.46	1.5	3.5	3.07
Z150-1.5	150	66	59	22	1.46	1.5	3.5	3.59
Z150-2	150	47	40	18.5	1.96	2	3.5	4.05
Z150-2	150	66	59	22	1.96	2	3.5	4.73
Z150-2.5	150	47	40	20	2.46	2.5	3.5	5.04
Z150-2.5	150	66	59	22	2.46	2.5	3.5	5.85
Z150-3	150	47	40	20	2.96	3	3.5	5.96
Z150-3	150	66	59	22	2.96	3	3.5	6.95
Z150-3.5	150	47	40	20	3.46	3.5	3.5	6.84
Z150-3.5	150	66	59	22	3.46	3.5	3.5	8.00
Z160-1.5	160	47	40	18	1.46	1.5	3.5	3.19
Z160-1.5	160	66	59	22	1.46	1.5	3.5	3.71
Z160-2	160	47	40	18.5	1.96	2	3.5	4.21
Z160-2	160	66	59	22	1.96	2	3.5	4.89
Z160-2.5	160	47	40	20	2.46	2.5	3.5	5.24
Z160-2.5	160	66	59	22	2.46	2.5	3.5	6.06
Z160-3	160	47	40	20	2.96	3	3.5	6.19
Z160-3	160	66	59	22	2.96	3	3.5	7.18
Z160-3.5	160	47	40	20	3.46	3.5	3.5	7.12
Z160-3.5	160	66	59	22	3.46	3.5	3.5	8.27
Z180-1.5	180	60	53	20	1.46	1.5	3.5	3.78
Z180-1.5	180	66	59	22	1.46	1.5	3.5	3.94
Z180-2	180	60	53	22	1.96	2	3.5	5.04
Z180-2	180	66	59	22	1.96	2	3.5	5.20
Z180-2.5	180	60	53	23	2.46	2.5	3.5	6.26
Z180-2.5	180	66	59	22	2.46	2.5	3.5	6.44
Z180-3	180	60	53	23	2.96	3	3.5	7.42
Z180-3	180	66	59	22	2.96	3	3.5	7.65

TIP PROFIL	Dimensiuni selecționale							
	H (mm)	A(mm)	B (mm)	C1=C2 (mm)	t (mm)	t _n (mm)	r (mm)	G(kg/ml)
Z180-3.5	180	60	53	23	3.46	3.5	3.5	8.54
Z180-3.5	180	66	59	22	3.46	3.5	3.5	8.82
Z200-1.5	200	67	59	23.5	1.46	1.5	3.5	4.25
Z200-1.5	200	73	65	24	1.46	1.5	3.5	4.38
Z200-2	200	67	59	24	1.96	2	3.5	5.62
Z200-2	200	73	65	24	1.96	2	3.5	5.79
Z200-2.5	250	67	59	26	2.46	2.5	3.5	7.03
Z200-2.5	200	73	65	26	2.46	2.5	3.5	7.24
Z200-3	200	67	59	26	2.96	3	3.5	8.34
Z200-3	200	73	65	26	2.96	3	3.5	8.62
Z200-3.5	200	67	59	26	3.46	3.5	3.5	9.62
Z200-3.5	200	73	65	26	3.46	3.5	3.5	9.95
Z250-1.5	250	67	59	23.5	1.46	1.5	3.5	4.84
Z250-1.5	250	73	65	24	1.46	1.5	3.5	4.97
Z250-2	250	67	59	24	1.96	2	3.5	6.41
Z250-2	250	73	65	24	1.96	2	3.5	6.57
Z250-2.5	250	67	59	26	2.46	2.5	3.5	8.01
Z250-2.5	250	73	65	26	2.46	2.5	3.5	8.22
Z250-3	250	67	59	26	2.96	3	3.5	9.51
Z250-3	250	73	65	26	2.96	3	3.5	9.80
Z250-3.5	250	67	59	26	3.46	3.5	3.5	10.99
Z250-3.5	250	73	65	26	3.46	3.5	3.5	11.32
Z300-1.5	300	78	70	23.5	1.46	1.5	3.5	5.69
Z300-2	300	78	70	24	1.96	2	3.5	7.54
Z300-2	300	89	81	24	1.96	2	3.5	7.86
Z300-2.5	300	78	70	26	2.46	2.5	3.5	9.42
Z300-2.5	300	89	81	24	2.46	2.5	3.5	9.75
Z300-3	300	78	70	26	2.96	3	3.5	11.21
Z300-3	300	89	81	26	2.96	3	3.5	11.73
Z300-3.5	300	78	70	26	3.46	3.5	3.5	12.97
Z300-3.5	300	89	81	26	3.46	3.5	3.5	13.57
Z350-1.5	350	78	70	23	1.46	1.5	3.5	6.26
Z350-2	350	78	70	23	1.96	2	3.5	8.29
Z350-2	350	100	92	25	1.96	2	3.5	9.02
Z350-2.5	350	78	70	25	2.46	2.5	3.5	10.36
Z350-2.5	350	100	92	26	2.46	2.5	3.5	11.25
Z350-3	350	78	70	25	2.96	3	3.5	12.34
Z350-3	350	100	92	27	2.96	3	3.5	13.47
Z350-3.5	350	78	70	25	3.46	3.5	3.5	14.29
Z350-3.5	350	100	92	28	3.46	3.5	3.5	15.66
Z400-1.5	400	89	81	24	1.46	1.5	3.5	7.14
Z400-2	400	89	81	25	1.96	2	3.5	9.48
Z400-2	400	100	92	30	1.96	2	3.5	9.96
Z400-2.5	400	89	81	26	2.46	2.5	3.5	11.81
Z400-2.5	400	100	92	30	2.46	2.5	3.5	12.38
Z400-3	400	89	81	26	2.96	3	3.5	14.08
Z400-3	400	100	92	30	2.96	3	3.5	14.79
Z400-3.5	400	89	81	26	3.46	3.5	3.5	16.32
Z400-3.5	400	100	92	30	3.46	3.5	3.5	17.14

Caracteristici geometrice ale secțiunii brute

TIP PROFIL	Caracteristici geometrice ale secțiunii brute									
	A (mm ²)	Y _c (mm)	Z _{c1} (mm)	Z _{c2} (mm)	I _y (cm ⁴)	W _{y1} (cm ³)	W _{y2} (cm ³)	I _z (cm ⁴)	i _y (cm)	i _z (cm)
Z100-1.5	308.1	40.5	47.6	51.0	45.07	9.47	8.85	14.22	3.92	2.20
Z100-2	405.7	40.0	47.4	50.7	59.63	12.58	11.76	19.12	3.89	2.18
Z100-2.5	504.3	39.5	47.1	50.4	74.98	15.92	14.88	23.46	3.87	2.16
Z100-3	589.0	38.9	46.8	50.2	89.47	19.12	17.82	27.65	3.85	2.13
Z100-3.5	674.7	38.4	46.5	49.9	102.68	22.08	20.58	30.75	3.82	2.09
Z120-1.5	337.3	40.3	57.5	61.1	69.32	12.06	11.34	14.23	4.64	2.10
Z120-2	444.9	39.8	57.2	60.9	92.01	16.08	15.12	19.14	4.61	2.08
Z120-2.5	548.6	39.4	57.0	60.6	114.04	20.01	18.81	24.03	4.58	2.06
Z120-3	648.2	38.7	56.7	60.3	139.46	24.60	23.13	27.48	4.55	2.04
Z120-3.5	743.9	38.2	56.4	60.1	157.43	27.91	26.19	30.47	4.52	2.02
Z140-1.5	366.5	40.1	67.3	71.2	105.36	15.66	14.80	14.74	5.35	2.04
Z140-1.5	430.7	59.4	67.6	71.6	135.68	20.07	18.94	43.25	5.57	3.17
Z140-2	486.1	39.6	67.1	70.9	138.67	20.67	19.56	20.26	5.32	2.02
Z140-2	571.34	58.9	67.4	70.6	176.52	26.19	25.00	56.14	5.54	3.13
Z140-2.5	602.7	39.1	66.8	70.7	172.64	25.84	24.42	23.58	5.29	2.00
Z140-2.5	708.5	58.4	67.1	70.4	214.26	31.93	30.43	67.60	5.52	3.09
Z140-3	713.4	38.7	66.5	70.5	204.97	30.80	29.10	29.42	5.26	1.98
Z140-3	843.6	57.9	66.8	70.2	261.49	39.14	37.25	81.42	5.49	3.06
Z140-3.5	820.0	38.2	66.3	70.2	232.41	35.05	33.11	33.22	5.24	1.96
Z140-3.5	972.3	57.4	66.6	69.9	299.41	44.96	42.83	92.14	5.46	3.03
Z150-1.5	378.1	40.1	72.3	76.3	117.93	16.32	15.45	14.24	5.69	1.98
Z150-1.5	445.3	59.3	72.6	75.9	161.55	22.25	21.28	44.62	5.94	3.11
Z150-2	502.7	39.6	72.0	76.1	157.05	21.80	20.65	19.15	5.66	1.98
Z150-2	590.9	58.8	72.3	75.7	211.64	29.27	27.96	57.41	5.91	3.08
Z150-2.5	624.8	39.2	71.8	75.8	195.31	27.21	25.76	24.05	5.63	1.96
Z150-2.5	733.1	58.3	72.0	75.5	260.14	36.13	34.46	69.32	5.88	3.04
Z150-3	743.0	38.9	71.5	75.5	242.16	33.87	32.07	29.84	5.61	1.95
Z150-3	873.2	57.8	71.8	75.2	307.58	42.84	40.90	81.64	5.86	3.01
Z150-3.5	854.6	38.4	71.2	75.3	277.37	38.96	36.84	33.96	5.59	1.93
Z150-3.5	1006.9	57.3	71.5	75.0	352.35	49.28	46.98	92.67	5.84	2.98
Z160-1.5	395.7	39.9	77.2	81.3	147.64	19.12	18.16	15.94	6.04	1.99
Z160-1.5	459.9	59.3	77.5	81.0	185.46	23.93	22.90	43.45	6.29	3.04
Z160-2	525.3	39.5	76.9	81.1	194.67	25.31	24.00	20.64	6.01	1.95
Z160-2	610.5	77.2	79.0	80.8	240.87	31.20	29.81	56.77	6.27	3.01
Z160-2.5	656.8	39.0	76.7	80.8	240.32	31.33	29.74	25.43	5.98	1.93
Z160-2.5	760.1	76.9	78.8	80.6	293.41	38.15	36.40	67.42	6.24	2.99
Z160-3	778.5	38.5	76.4	80.6	283.42	37.10	35.16	29.63	5.95	1.92
Z160-3	902.8	76.7	78.5	80.3	358.42	46.73	44.63	81.17	6.22	2.96
Z160-3.5	896.1	38.0	76.2	80.3	324.53	42.59	40.42	33.76	5.93	1.90
Z160-3.5	1041.5	76.5	78.3	80.0	411.59	53.80	51.45	92.15	6.20	2.94
Z180-1.5	468.7	53.2	87.4	91.2	227.69	26.05	24.97	33.10	6.99	2.66
Z180-1.5	489.1	87.4	89.3	91.1	243.58	27.87	26.74	44.36	7.01	2.97
Z180-2	629.2	52.7	87.2	90.9	304.53	34.94	33.49	44.64	6.96	2.67
Z180-2	649.7	87.1	89.0	90.9	317.69	36.47	34.95	56.68	6.98	2.93
Z180-2.5	784.7	52.2	86.9	90.7	380.44	43.77	41.95	56.20	6.94	2.67
Z180-2.5	806.9	86.9	88.8	90.6	387.62	44.61	42.78	67.41	6.95	2.91
Z180-3	932.4	51.8	86.6	90.4	447.10	51.66	49.46	64.92	6.91	2.65
Z180-3	962.0	86.6	88.5	90.4	473.64	54.69	52.39	81.95	6.93	2.88

Caracteristici geometrice ale secțiunii brute

TIP PROFIL	Caracteristici geometrice ale secțiunii brute									
	A (mm ²)	y _c (mm)	Z _{cx1} (mm)	Z _{cx2} (mm)	I _y (cm ⁴)	W _{y1} (cm ³)	W _{y2} (cm ³)	I _z (cm ⁴)	i _y (cm)	i _z (cm)
Z180-3.5	1076.1	51.3	86.3	90.2	517.26	59.64	57.06	72.94	6.89	2.63
Z180-3.5	1110.67	57.1	86.4	90.1	514.67	62.92	60.34	92.46	6.91	2.85
Z200-1.5	527.1	59.1	97.5	101.1	311.74	31.99	42.90	42.99	7.71	2.93
Z200-1.5	543.1	65.2	97.5	101.1	330.74	33.94	32.71	57.99	7.84	3.29
Z200-2	701.7	58.7	97.2	100.9	415.59	42.75	56.76	57.63	7.68	2.91
Z200-2	722.3	64.8	97.2	100.9	442.59	45.53	43.87	78.21	7.82	3.27
Z200-2.5	880.7	58.3	97.0	100.6	520.19	53.64	71.16	75.26	7.65	2.89
Z200-2.5	907.7	64.3	97.0	100.6	553.19	57.04	54.98	98.50	7.79	3.26
Z200-3	1047.8	58.0	96.3	100.7	624.46	64.85	84.86	91.64	7.63	2.88
Z200-3	1083.4	63.9	96.4	100.6	659.46	68.41	65.55	116.32	7.75	3.24
Z200-3.5	1211.0	57.9	96.0	100.5	718.44	74.84	97.93	104.58	7.62	2.88
Z200-3.5	1252.5	63.4	96.1	100.4	759.34	79.02	75.63	132.60	7.68	3.20
Z250-1.5	600.1	58.9	122.1	126.4	542.25	44.41	42.90	45.26	9.42	2.75
Z250-1.5	616.1	65.0	122.3	126.3	558.87	45.71	44.24	58.01	9.58	3.08
Z250-2	799.7	58.4	121.8	126.2	716.34	58.81	56.76	59.46	9.39	2.73
Z250-2	820.3	64.6	122.0	126.1	749.06	61.39	59.42	78.23	9.56	3.09
Z250-2.5	1003.7	57.9	121.6	125.9	895.65	73.66	71.16	77.15	9.37	2.71
Z250-2.5	1030.7	64.1	121.8	125.8	937.78	77.01	74.53	98.53	9.56	3.06
Z250-3	1195.8	57.5	121.1	125.9	1,068.41	88.23	84.86	91.45	9.35	2.70
Z250-3	1231.4	63.7	121.4	125.6	1,123.48	92.54	89.45	116.35	9.53	3.04
Z250-3.5	1384.0	57.3	120.8	125.7	1,230.94	101.90	97.93	104.75	9.31	2.69
Z250-3.5	1425.5	63.4	120.9	125.6	1,294.31	107.06	103.05	132.98	9.50	3.02
Z300-1.5	705.2	69.9	147.1	151.4	916.73	62.32	60.54	69.26	11.28	3.12
Z300-2	940.8	69.4	146.8	151.2	1,213.34	82.65	80.26	90.06	11.26	3.09
Z300-2	981.0	80.5	147.0	151.1	1,287.70	87.60	85.22	131.55	11.51	3.68
Z300-2.5	1180.8	68.9	146.6	150.9	1,516.58	103.45	100.50	115.21	11.24	3.07
Z300-2.5	1222.6	80.1	146.8	150.8	1,613.83	109.97	106.99	165.91	11.49	3.68
Z300-3	1404.2	68.5	146.1	150.9	1,810.64	123.93	119.99	139.85	11.21	3.06
Z300-3	1474.1	79.6	146.5	150.6	1,944.46	132.72	129.12	201.07	11.47	3.69
Z300-3.5	1647.3	68.2	145.7	150.8	2,089.64	143.42	138.57	158.64	11.19	3.05
Z300-3.5	1709.2	79.2	145.9	150.6	2,258.83	154.85	149.99	229.64	11.43	3.66
Z350-1.5	776.7	69.7	171.9	176.6	1,326.93	77.19	75.14	69.67	12.93	2.95
Z350-2	1034.9	69.2	171.7	176.3	1,752.81	102.09	99.42	91.23	12.89	2.92
Z350-2	1126.0	92.5	172.0	176.1	2,005.22	116.61	113.85	189.59	13.39	4.12
Z350-2.5	1298.9	68.7	171.5	176.0	2,192.36	127.83	124.54	113.72	12.85	2.90
Z350-2.5	1409.6	92.0	171.7	175.9	2,514.45	146.43	142.97	239.14	13.37	4.13
Z350-3	1551.0	68.3	170.9	176.1	2,617.15	153.14	148.62	136.75	12.84	2.89
Z350-3	1693.1	91.5	171.5	175.6	3,031.40	176.78	172.61	289.89	13.35	4.13
Z350-3.5	1799.2	67.9	170.6	175.9	3,039.55	178.17	172.80	159.66	12.81	2.88
Z350-3.5	1972.2	91.0	171.2	175.4	3,548.70	207.25	202.36	342.05	13.34	4.14
Z400-1.5	884.8	80.7	196.9	201.6	1,979.21	100.52	98.18	99.72	14.79	3.35
Z400-2	1183.8	80.2	196.7	201.3	2,629.57	133.68	130.63	133.54	14.76	3.34
Z400-2	1243.6	92.4	196.9	201.2	2,754.50	139.93	136.88	189.61	15.07	3.95
Z400-2.5	1480.9	79.7	196.4	201.1	3,273.79	166.69	162.79	165.83	14.74	3.32
Z400-2.5	1552.3	91.9	196.6	201.0	3,455.69	175.76	171.93	239.16	15.05	3.96
Z400-3	1770.1	79.5	195.9	201.1	3,910.24	199.60	194.44	201.65	14.71	3.30
Z400-3	1858.9	91.4	196.4	200.7	4,168.25	212.27	207.65	289.91	15.04	3.96
Z400-3.5	2055.2	79.2	195.6	200.9	4,523.47	231.26	225.16	229.03	14.69	3.29
Z400-3.5	2159.0	90.9	196.1	200.5	4,880.04	248.83	243.42	341.49	15.02	3.97

TIP PROFIL	Rezistențe conform secțiunii brute	
	Întindere N (kN)	Încov. M (kNm)
Z100-1.5	107.82	3.10
Z100-2	142.00	4.12
Z100-2.5	176.51	5.21
Z100-3	206.16	6.24
Z100-3.5	236.15	7.20
Z120-1.5	118.04	3.97
Z120-2	155.72	5.29
Z120-2.5	192.00	6.58
Z120-3	226.88	8.09
Z120-3.5	260.37	9.17
Z140-1.5	128.26	5.18
Z140-1.5	150.75	6.63
Z140-2	170.13	6.85
Z140-2	199.97	8.75
Z140-2.5	210.95	8.55
Z140-2.5	247.97	10.65
Z140-3	249.68	10.18
Z140-3	295.26	13.04
Z140-3.5	287.01	11.59
Z140-3.5	340.29	14.99
Z150-1.5	133.37	5.41
Z150-1.5	155.86	7.45
Z150-2	176.99	7.23
Z150-2	206.83	9.79
Z150-2.5	221.28	9.02
Z150-2.5	256.58	12.06
Z150-3	262.11	11.23
Z150-3	305.62	14.32
Z150-3.5	301.54	12.89
Z150-3.5	352.40	16.44
Z160-1.5	138.48	6.36
Z160-1.5	160.97	8.01
Z160-2	183.85	8.40
Z160-2	213.69	10.43
Z160-2.5	229.89	10.41
Z160-2.5	266.05	12.74
Z160-3	272.47	12.31
Z160-3	315.98	15.62
Z160-3.5	313.65	14.15
Z160-3.5	364.51	18.01
Z180-1.5	164.03	8.74
Z180-1.5	171.19	9.36
Z180-2	220.21	11.72
Z180-2	227.41	12.23
Z180-2.5	274.66	14.68
Z180-2.5	282.41	14.97
Z180-3	326.34	17.31
Z180-3	336.70	18.34
Z180-3.5	376.62	19.97
C180-3.5	388.73	21.12

TIP PROFIL	Rezistențe conform secțiunii brute	
	Întindere N (kN)	Încov. M (kNm)
Z200-1.5	184.47	10.79
Z200-1.5	190.09	11.45
Z200-2	245.59	14.42
Z200-2	252.79	15.36
Z200-2.5	308.24	18.09
Z200-2.5	317.71	19.24
Z200-3	366.74	21.70
Z200-3	379.18	22.94
Z200-3.5	423.85	25.02
Z200-3.5	438.38	26.47
Z250-1.5	210.02	15.01
Z250-1.5	215.64	15.48
Z250-2	279.89	19.87
Z250-2	287.09	20.80
Z250-2.5	351.29	24.91
Z250-2.5	360.76	26.09
Z250-3	418.54	29.70
Z250-3	430.98	31.31
Z250-3.5	484.40	34.27
Z250-3.5	498.93	36.07
Z300-1.5	246.81	21.19
Z300-2	329.28	28.09
Z300-2	343.34	29.83
Z300-2.5	413.28	35.18
Z300-2.5	427.92	37.45
Z300-3	491.47	42.00
Z300-3	515.93	45.19
Z300-3.5	576.55	48.50
Z300-3.5	598.23	52.50
Z350-1.5	271.85	26.30
Z350-2	362.21	34.80
Z350-2	394.11	39.85
Z350-2.5	454.61	43.59
Z350-2.5	493.35	50.04
Z350-3	542.86	52.02
Z350-3	592.59	60.41
Z350-3.5	629.72	60.48
Z350-3.5	690.27	70.83
Z400-1.5	309.67	34.36
Z400-2	414.34	45.72
Z400-2	435.27	47.91
Z400-2.5	518.32	56.98
Z400-2.5	543.29	60.18
Z400-3	619.53	68.05
Z400-3	650.61	72.68
Z400-3.5	719.33	78.81
Z400-3.5	755.66	85.20