

Europanel – Profile Z

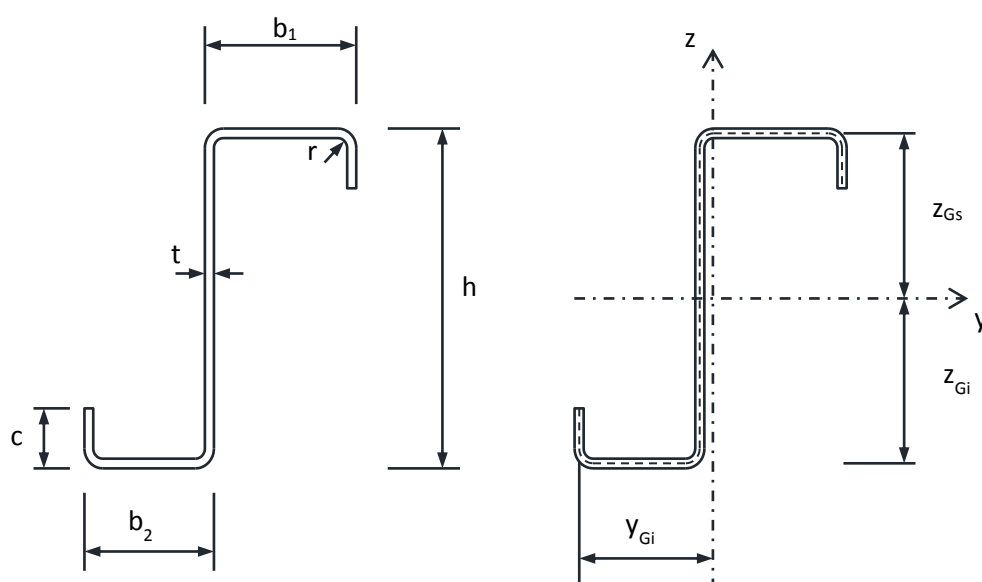


Figura 1. Notatii dimensiuni profile Z si caracteristici geometrice pentru sectiunea bruta

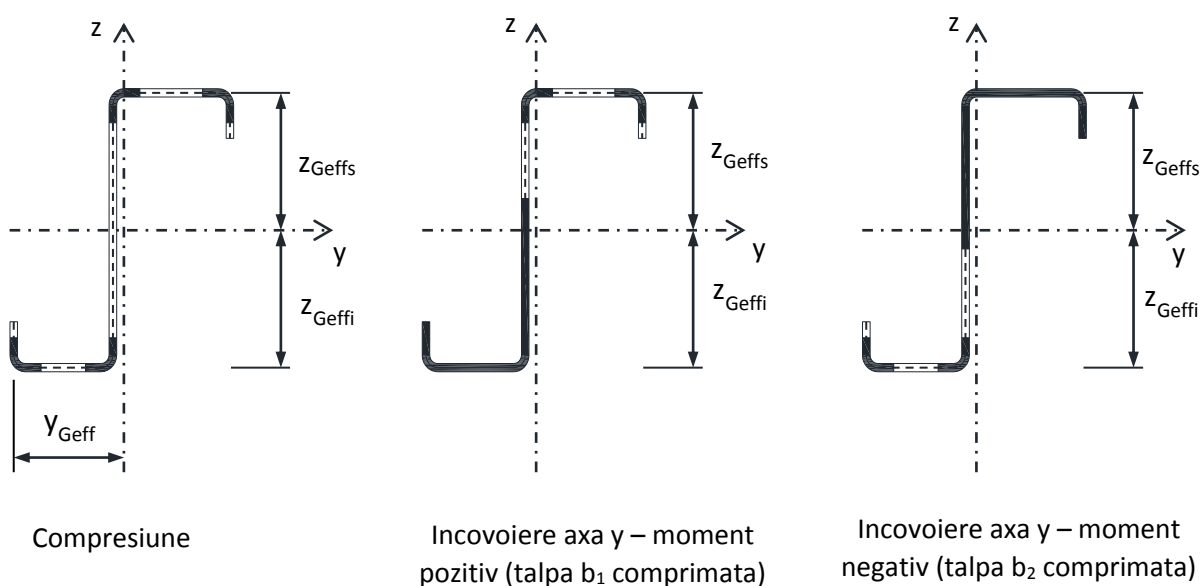


Figura 2 Notatii caracteristici geometrice pentru sectiunile effective de calcul

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Dimensiuni profile Z									
Profil		h (mm)	b1 (mm)	b2 (mm)	c (mm)	t (mm)	t _{ef} (mm)	r _i (mm)	G(kg/ml)
Z140	Z140-1.5	140	40	47	14	1.5	1.46	4	2.83
	Z140-2.0	140	40	47	14	2	1.96	4	3.74
	Z140-2.5	140	40	47	14	2.5	2.46	4	4.61
	Z140-3	140	40	47	14	3	2.96	4	5.46
Z150	Z150-1.5	150	40	47	14	1.5	1.46	4	2.92
	Z150-2.0	150	40	47	14	2	1.96	4	3.89
	Z150-2.5	150	40	47	14	2.5	2.46	4	4.81
	Z150-3	150	40	47	14	3	2.96	4	5.7
Z180	Z180-1.5	180	53	60	19	1.5	1.46	4	3.7
	Z180-2.0	180	53	60	19	2	1.96	4	4.9
	Z180-2.5	180	53	60	19	2.5	2.46	4	6.06
	Z180-3	180	53	60	19	3	2.96	4	7.21
Z200	Z200-1.5	200	65	72	19	1.5	1.46	4	4.24
	Z200-2.0	200	65	72	19	2	1.96	4	5.62
	Z200-2.5	200	65	72	19	2.5	2.46	4	6.97
	Z200-3	200	65	72	19	3	2.96	4	8.29
Z250	Z250-1.5	250	65	72	22	1.5	1.46	4	4.9
	Z250-2.0	250	65	72	22	2	1.96	4	6.5
	Z250-2.5	250	65	72	22	2.5	2.46	4	8.07
	Z250-3	250	65	72	22	3	2.96	4	9.61
Z300	Z300-1.5	300	81	88	21	1.5	1.46	4	5.84
	Z300-2.0	300	81	88	22	2	1.96	4	7.79
	Z300-2.5	300	81	88	22	2.5	2.46	4	9.68
	Z300-3	300	81	88	22	3	2.96	4	11.54
Z350	Z350-1.5	350	93	100	26	1.5	1.46	4	6.78
	Z350-2.0	350	93	100	26	2	1.96	4	9.01
	Z350-2.5	350	93	100	26	2.5	2.46	4	11.21
	Z350-3	350	93	100	26	3	2.96	4	13.38
Z400	Z400-2.0	400	93	100	26	2	1.96	4	9.8
	Z400-2.5	400	93	100	26	2.5	2.46	4	12.19
	Z400-3	400	93	100	26	3	2.96	4	14.55

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Caracteristici geometrice ale sectiunii brute-Profile Z												
Profil		A _g (mm ²)	y _G (mm)	z _{Gs} (mm)	z _{Gi} (mm)	I _y (mm ⁴)	W _{ys} (mm ³)	W _{yi} (mm ³)	I _z (mm ⁴)	W _{zs} (mm ³)	W _{zd} (mm ³)	I _i (mm ⁴)
Z140	Z140-1.5	351.5	43.9535	71.3	67.2	1,004,032.3	14,089.2	14,932.7	130,628.3	2,972.0	3,141.1	251.4
	Z140-2.0	467.0	43.5	71.0	67.0	1,320,028.6	18,585.2	19,709.5	167,724.9	3,859.0	4,034.1	603.6
	Z140-2.5	580.2	43.0	70.8	66.7	1,622,216.7	22,916.1	24,317.2	201,226.8	4,682.7	4,841.0	1,184.1
	Z140-3	691.0	42.5	70.6	66.4	1,910,838.0	27,083.7	28,757.3	231,312.6	5,444.9	5,566.1	2,046.7
Z150	Z150-1.5	366.1	44.0	76.3	72.2	1,183,642.1	15,508.5	16,398.9	130,664.4	2,968.6	3,146.7	261.8
	Z150-2.0	486.6	43.5	76.1	71.9	1,557,367.2	20,468.7	21,655.7	167,775.7	3,854.7	4,041.3	628.7
	Z150-2.5	604.8	43.0	75.8	71.7	1,915,381.6	25,252.7	26,732.0	201,294.3	4,677.5	4,849.8	1,233.8
	Z150-3	720.6	42.5	75.6	71.4	2,257,943.3	29,862.1	31,629.4	231,399.6	5,439.0	5,576.5	2,133.1
Z180	Z180-1.5	462.4	56.9	91.2	87.3	2,216,761.8	24,300.8	25,398.8	306,145.7	5,377.9	5,605.7	327.7
	Z180-2.0	616.0	56.4	91.0	87.0	2,929,262.0	32,196.3	33,662.5	397,511.0	7,043.9	7,279.6	788.1
	Z180-2.5	767.2	55.9	90.7	86.8	3,618,473.3	39,876.8	41,707.3	482,401.1	8,623.4	8,835.3	1,548.9
	Z180-3	915.9	55.4	90.5	86.5	4,284,709.4	47,344.2	49,534.9	561,055.6	10,118.6	10,277.2	2,682.0
Z200	Z200-1.5	526.7	68.9	101.2	97.3	3,192,254.4	31,551.7	32,800.1	506,358.5	7,350.7	7,596.8	373.3
	Z200-2.0	702.2	68.4	100.9	97.1	4,226,544.5	41,874.5	43,542.8	660,638.9	9,659.7	9,912.3	898.5
	Z200-2.5	875.4	67.9	100.7	96.8	5,231,342.6	51,954.0	54,038.2	805,638.8	11,865.5	12,089.0	1,767.2
	Z200-3	1,046.2	67.4	100.5	96.5	6,207,001.4	61,791.8	64,288.1	941,644.9	13,970.3	14,131.1	3,062.4
Z250	Z250-1.5	608.4	69.1	126.3	122.2	5,502,299.3	43,552.7	45,040.5	545,901.2	7,905.6	8,210.6	429.9
	Z250-2.0	812.0	68.6	126.1	121.9	7,298,047.5	57,877.6	59,866.4	712,952.7	10,399.2	10,724.0	1,035.3
	Z250-2.5	1,013.2	68.1	125.9	121.6	9,049,309.4	71,904.0	74,389.7	870,343.6	12,787.1	13,092.7	2,037.6

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Caracteristici geometrice ale sectiunii brute-Profil Z												
Profil	$A_g(\text{mm}^2)$	$y_G(\text{mm})$	$z_{Gs}(\text{mm})$	$z_{Gi}(\text{mm})$	$I_y(\text{mm}^4)$	$W_{ys}(\text{mm}^3)$	$W_{yi}(\text{mm}^3)$	$I_z(\text{mm}^4)$	$W_{zs}(\text{mm}^3)$	$W_{zd}(\text{mm}^3)$	$I_t(\text{mm}^4)$	
Z250-3	1,211.9	67.6	125.6	121.4	10,756,519.7	85,633.7	88,611.8	1,018,368.5	15,071.2	15,320.8	3,533.6	
Z300	Z300-1.5	725.2	85.1	151.4	147.1	9,510,359.9	62,835.7	64,631.6	924,431.6	10,866.2	11,209.9	513.4
	Z300-2.0	972.7	84.6	151.1	146.9	12,703,206.7	84,070.9	86,475.8	1,238,917.0	14,649.5	15,022.8	1,241.1
	Z300-2.5	1,214.9	84.1	150.9	146.6	15,782,940.2	104,621.3	107,628.9	1,519,013.4	18,067.2	18,420.3	2,444.6
	Z300-3	1,454.6	83.6	150.6	146.4	18,798,314.1	124,810.6	128,416.7	1,785,209.2	21,359.0	21,649.7	4,242.4
Z350	Z350-1.5	847.9	97.1	176.3	172.2	15,134,255.1	85,819.4	87,913.2	1,448,032.9	14,916.6	15,328.8	597.9
	Z350-2.0	1,133.4	96.6	176.1	171.9	20,141,920.8	114,374.0	117,176.2	1,905,285.6	19,727.6	20,170.2	1,441.9
	Z350-2.5	1,416.6	96.1	175.9	171.6	25,061,159.3	142,505.0	146,011.4	2,343,509.6	24,390.2	24,810.7	2,841.5
	Z350-3	1,697.4	95.6	175.6	171.4	29,892,584.0	170,214.2	174,420.3	2,763,119.8	28,906.4	29,254.4	4,934.0
Z400	Z400-2.0	1,231.4	96.7	201.2	196.8	27,704,153.8	137,683.2	140,785.1	1,905,498.9	19,706.7	20,196.7	1,567.4
	Z400-2.5	1,539.6	96.2	201.0	196.5	34,491,319.8	171,622.1	175,503.8	2,343,798.5	24,364.5	24,843.5	3,089.7
	Z400-3	1,845.4	95.7	200.7	196.3	41,165,950.4	205,082.9	209,739.7	2,763,499.0	28,876.1	29,293.5	5,366.2

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Caracteristici geometrice ale sectiunii efective - profile Z															
		Compresiune				Incovoiere axa Y - moment pozitiv (talpa b ₁ comprimata)					Incovoiere axa Y - moment negativ (talpa b ₂ comprimata)				
Profil		A _{eff} (mm ²)	Y _{Geff} (mm)	Z _{Geffs} (mm)	Z _{Geffi} (mm)	Z _{Geffs} (mm)	Z _{Geffi} (mm)	I _{yeff} (mm ⁴)	W _{yeffs} (mm ³)	W _{yeffi} (mm ³)	Z _{Geffs} (mm)	Z _{Geffi} (mm)	I _{yeff} (mm ⁴)	W _{yeffs} (mm ³)	W _{yeffi} (mm ³)
Z140	Z140-1.5	228.8	45.4	71.2	67.3	72.3	66.2	1,035,506.5	14,323.9	15,640.2	66.5	72.0	978,219.3	14,703.7	13,591.8
	Z140-2.0	351.2	45.4	70.9	67.1	71.2	66.8	1,392,177.8	19,541.0	20,854.7	70.0	68.0	1,371,888.1	19,597.0	20,176.3
	Z140-2.5	486.2	45.4	70.6	66.9	70.7	66.8	1,729,048.0	24,451.2	25,889.5	70.4	67.1	1,715,228.7	24,377.9	25,547.0
	Z140-3	628.9	45.4	70.5	66.5	70.5	66.5	2,044,373.5	29,009.2	30,730.1	70.5	66.5	2,044,373.5	29,009.2	30,730.1
Z150	Z150-1.5	228.5	45.4	76.3	72.2	78.3	70.2	1,203,493.5	15,373.8	17,139.4	74.0	74.5	1,193,007.5	16,125.0	16,010.3
	Z150-2.0	351.8	45.4	76.0	72.0	76.4	71.6	1,637,733.5	21,442.0	22,866.9	74.3	73.7	1,599,579.3	21,531.6	21,701.0
	Z150-2.5	488.4	45.4	75.7	71.8	75.8	71.7	2,038,158.7	26,897.7	28,416.1	75.3	72.2	2,019,158.1	26,800.8	27,981.5
	Z150-3	634.3	45.4	75.5	71.5	75.5	71.5	2,411,497.0	31,926.2	33,743.1	75.5	71.5	2,411,497.0	31,926.2	33,743.1
Z180	Z180-1.5	256.5	58.9	89.6	88.9	97.7	80.8	2,098,577.2	21,470.5	25,986.2	83.0	95.5	2,035,287.6	24,532.3	21,303.8
	Z180-2.0	410.4	58.4	90.9	87.1	92.1	85.9	2,998,348.3	32,546.9	34,914.9	89.0	89.0	2,959,975.6	33,272.8	33,243.5
	Z180-2.5	570.2	58.4	90.6	86.9	91.1	86.4	3,765,159.1	41,317.2	43,592.5	89.4	88.1	3,713,446.4	41,559.9	42,127.3
	Z180-3	742.9	58.4	90.4	86.6	90.4	86.6	4,506,670.9	49,829.4	52,065.3	90.0	87.0	4,469,434.6	49,676.9	51,355.2
Z200	Z200-1.5	250.5	71.4	98.9	99.6	114.5	84.0	2,741,275.1	23,950.2	32,617.6	85.9	112.6	2,656,641.3	30,938.6	23,587.0
	Z200-2.0	424.1	71.0	99.6	98.4	105.1	92.9	4,130,296.9	39,308.6	44,447.0	95.5	102.5	4,044,093.1	42,362.9	39,440.4
	Z200-2.5	602.6	70.5	100.5	97.0	102.5	95.0	5,287,707.2	51,588.1	55,659.2	98.0	99.5	5,225,287.6	53,330.0	52,505.0
	Z200-3	789.0	70.5	100.2	96.8	101.5	95.5	6,365,163.5	62,704.7	66,658.0	98.6	98.4	6,298,139.7	63,887.2	63,993.9
Z250	Z250-1.5	260.3	71.3	123.9	124.6	147.5	101.0	4,470,192.0	30,311.9	44,247.6	103.0	145.5	4,339,579.9	42,150.8	29,815.8
	Z250-2.0	439.8	70.9	124.7	123.3	134.9	113.1	6,889,740.4	51,067.7	60,924.7	116.0	132.0	6,767,621.7	58,366.2	51,250.8
	Z250-2.5	625.7	70.4	125.9	121.6	128.7	118.8	9,074,763.1	70,503.8	76,395.3	122.7	124.8	9,028,053.6	73,584.9	72,333.7
	Z250-3	821.4	70.4	125.6	121.4	126.6	120.4	11,026,686.0	87,081.6	91,602.6	120.7	126.3	10,648,784.2	88,247.3	84,293.2

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		Compresiune				Incovoiere axa Y - moment pozitiv (talpa b ₁ comprimata)					Incovoiere axa Y - moment negativ (talpa b ₂ comprimata)				
Z300	Z300-1.5	247.9	87.2	149.4	149.1	188.4	110.1	6,691,407.2	35,511.8	60,791.1	112.5	186.0	6,569,375.9	58,413.1	35,312.4
	Z300-2.0	429.5	87.5	148.7	149.3	172.1	125.9	10,730,926.8	62,336.3	85,264.6	127.9	170.1	10,475,966.1	81,911.7	61,584.7
	Z300-2.5	647.0	87.1	149.3	148.2	161.8	135.7	14,717,687.8	90,957.9	108,463.6	138.4	159.1	14,474,184.2	104,556.0	90,995.2
	Z300-3	867.2	86.6	150.5	146.5	155.5	141.5	18,465,736.8	118,771.4	130,474.9	145.3	151.7	18,361,876.1	126,354.6	121,056.8
Z350	Z350-1.5	258.5	99.2	174.2	174.3	228.5	120.0	9,627,391.4	42,131.4	80,234.1	122.3	226.2	9,478,900.0	77,477.2	41,913.2
	Z350-2.0	442.2	99.2	174.1	173.9	209.0	139.0	15,714,392.2	75,199.0	113,029.3	140.8	207.2	15,346,068.2	109,007.8	74,056.7
	Z350-2.5	673.6	99.3	173.9	173.6	195.7	151.8	22,000,688.2	112,417.1	144,937.7	154.2	193.3	21,621,022.5	140,209.1	111,855.4
	Z350-3	929.6	98.9	174.7	172.3	186.6	160.4	28,189,108.1	151,064.7	175,745.8	163.6	183.4	27,911,478.9	170,561.4	152,226.2
Z400	Z400-2.0	439.6	99.1	199.3	198.7	242.9	155.1	20,829,875.3	85,750.1	134,311.5	156.8	241.2	20,336,524.9	129,682.2	84,320.3
	Z400-2.5	666.9	99.4	198.8	198.7	228.1	169.4	29,288,052.2	128,383.0	172,923.7	171.9	225.6	28,795,447.9	167,536.5	127,625.7
	Z400-3	924.1	98.9	199.8	197.2	217.9	179.1	37,655,554.0	172,834.5	210,214.3	182.6	214.4	37,306,174.7	204,349.4	173,970.8

Eforturi capabile					
Profil		N _{tRd} (kN)	N _{cRd} (kN)	M _{Rd} ⁺ (kNm)	M _{Rd} ⁻ (kNm)
Z140	Z140-1.5	123.0	80.1	5.0	4.8
	Z140-2.0	163.5	122.9	6.8	6.9
	Z140-2.5	203.1	170.2	8.6	8.5
	Z140-3	241.8	220.1	10.2	10.2
Z150	Z150-1.5	128.1	80.0	5.4	5.6
	Z150-2.0	170.3	123.1	7.5	7.5
	Z150-2.5	211.7	170.9	9.4	9.4
	Z150-3	252.2	222.0	11.2	11.2
Z180	Z180-1.5	161.8	89.8	7.5	7.5
	Z180-2.0	215.6	143.7	11.4	11.6
	Z180-2.5	268.5	199.6	14.5	14.5
	Z180-3	320.6	260.0	17.4	17.4
Z200	Z200-1.5	184.3	87.7	8.4	8.3
	Z200-2.0	245.8	148.4	13.8	13.8
	Z200-2.5	306.4	210.9	18.1	18.4
	Z200-3	366.2	276.2	21.9	22.4
Z250	Z250-1.5	212.9	91.1	10.6	10.4
	Z250-2.0	284.2	153.9	17.9	17.9
	Z250-2.5	354.6	219.0	24.7	25.3
	Z250-3	424.2	287.5	30.5	29.5
Z300	Z300-1.5	253.8	86.8	12.4	12.4
	Z300-2.0	340.5	150.3	21.8	21.6
	Z300-2.5	425.2	226.4	31.8	31.8
	Z300-3	509.1	303.5	41.6	42.4
Z350	Z350-1.5	296.7	90.5	14.7	14.7
	Z350-2.0	396.7	154.8	26.3	25.9
	Z350-2.5	495.8	235.8	39.3	39.1
	Z350-3	594.1	325.4	52.9	53.3
Z400	Z400-2.0	431.0	153.9	30.0	29.5
	Z400-2.5	538.9	233.4	44.9	44.7
	Z400-3	645.9	323.4	60.5	60.9

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Valorile incarcarii prezentate in tabelele urmatoare sunt determinate pentru trei scheme statice:

- schema statica de tip grinda simplu rezemata cu o deschidere;
- schema statica de tip grinda continua cu doua deschideri;
- schema statica de tip grinda continua cu trei deschideri.

Incarcarea a fost considerata ca o incarcare uniform distribuita pe toata lungimea grinzii.

S-au considerat 5 cazuri de incaracree: trei cazuri asociate starii limita ultime si doua cazuri asociate starii limita de serviciu:

- cazul 1 corespunde situatiei in care la talpa superioara si talpa inferioara sunt dispuse table cutate care impiedica aparitia fenomenelor de pierdere a stabilitatii;
- cazul 2 corespunde situatiei in care la talpa superioara exista o tabla cutata iar incaracrea actioneaza de sus in jos;
- cazul 3 corespunde situatiei in care la talpa superioara exista o tabla cutata iar incaracrea actioneaza de jos in sus;
- cazul 4 corespunde starii limita de serviciu considerand o sageata maxima admisa de $L/200$;
- cazul 5 corespunde starii limita de serviciu considerand o sageata maxima admisa de $L/300$;

Valorile determinate in acest document se bazeaza pe o valoare a resortului lateral k determinata cu expresia 10.13 (10.1.5.1 (4)) din SR EN 1993-1-3, in care s-a considerat o valoare a rigiditatii la rotire a resortului C_D (vezi 10.1.5.2) egala cu 800Nmm/mm.

La stabilirea valorilor nu a fost considerata verificarea efortului capabil la deformare (SR EN 1993-1-3, 6.1.7) a inimii si interactiunea dintre acesta si momentul capabil.

Grinda simplu rezezata											
Profil	Caz	L (m)									
		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
Z140-1.5	1.00	3.84	2.82	2.16	1.71	1.38	1.14	0.96	0.82	0.71	0.62
	2.00	2.72	2.27	1.89	1.58	1.33	1.12	0.96	0.82	0.71	0.62
	3.00	3.67	2.64	1.79	1.27	0.77	0.52	0.36	0.26	0.20	0.15
	4.00	2.96	1.87	1.26	0.88	0.65	0.49	0.37	0.29	0.24	0.19
	5.00	1.99	1.26	0.84	0.59	0.43	0.33	0.25	0.20	0.16	0.13
Z140-2.0	1.00	5.53	4.06	3.11	2.46	1.99	1.64	1.38	1.18	1.02	0.88
	2.00	3.84	3.22	2.70	2.26	1.90	1.61	1.38	1.18	1.02	0.88
	3.00	5.27	3.95	2.70	1.91	1.25	0.82	0.57	0.42	0.31	0.23
	4.00	4.05	2.54	1.70	1.19	0.87	0.65	0.50	0.39	0.31	0.26
	5.00	2.68	1.68	1.12	0.79	0.57	0.43	0.33	0.26	0.21	0.17
Z140-2.5	1.00	6.89	5.07	3.88	3.06	2.48	2.05	1.72	1.47	1.27	1.10
	2.00	4.70	3.96	3.33	2.80	2.36	2.00	1.71	1.47	1.27	1.10
	3.00	6.57	4.91	3.33	2.36	1.51	1.00	0.70	0.51	0.38	0.29
	4.00	5.04	3.16	2.11	1.47	1.07	0.80	0.62	0.49	0.39	0.31
	5.00	3.32	2.08	1.39	0.97	0.71	0.53	0.41	0.32	0.26	0.21
Z140-3	1.00	8.20	6.03	4.62	3.65	2.95	2.44	2.05	1.75	1.51	1.31
	2.00	5.47	4.62	3.91	3.30	2.79	2.37	2.03	1.75	1.51	1.31
	3.00	7.80	5.76	3.92	2.77	1.74	1.16	0.81	0.59	0.44	0.33
	4.00	5.99	3.75	2.50	1.75	1.27	0.95	0.73	0.57	0.46	0.37
	5.00	3.93	2.46	1.64	1.15	0.84	0.63	0.48	0.38	0.30	0.25
Z150-1.5	1.00	4.35	3.19	2.45	1.93	1.57	1.29	1.09	0.93	0.80	0.70
	2.00	2.93	2.46	2.08	1.75	1.48	1.25	1.07	0.93	0.80	0.70
	3.00	4.16	3.11	2.15	1.52	1.03	0.66	0.46	0.33	0.25	0.19
	4.00	3.56	2.24	1.50	1.05	0.77	0.58	0.44	0.35	0.28	0.23
	5.00	2.37	1.49	1.00	0.70	0.51	0.38	0.30	0.23	0.19	0.15
Z150-2.0	1.00	6.06	4.46	3.41	2.70	2.18	1.80	1.52	1.29	1.11	0.97
	2.00	4.05	3.42	2.89	2.43	2.06	1.75	1.50	1.29	1.11	0.97
	3.00	5.81	4.34	2.97	2.10	1.38	0.90	0.63	0.46	0.34	0.26
	4.00	4.75	2.98	1.99	1.40	1.02	0.76	0.59	0.46	0.37	0.30
	5.00	3.14	1.98	1.32	0.93	0.68	0.51	0.39	0.31	0.25	0.20
Z150-2.5	1.00	7.58	5.57	4.26	3.37	2.73	2.26	1.90	1.61	1.39	1.21
	2.00	4.97	4.21	3.57	3.02	2.56	2.18	1.87	1.61	1.39	1.21
	3.00	7.25	5.41	3.67	2.59	1.67	1.10	0.77	0.56	0.41	0.31
	4.00	5.96	3.73	2.49	1.74	1.27	0.95	0.73	0.57	0.46	0.37
	5.00	3.92	2.46	1.64	1.15	0.84	0.63	0.48	0.38	0.30	0.25
Z150-3	1.00	9.03	6.63	5.08	4.01	3.25	2.69	2.26	1.92	1.66	1.44
	2.00	5.79	4.92	4.18	3.55	3.02	2.58	2.21	1.91	1.66	1.44

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Grinda simplu rezezata											
	3.00	8.63	6.36	4.32	3.05	1.92	1.28	0.89	0.65	0.48	0.37
	4.00	7.09	4.43	2.95	2.07	1.50	1.12	0.86	0.68	0.54	0.44
	5.00	4.65	2.91	1.94	1.36	0.99	0.74	0.57	0.45	0.36	0.29
Z180-1.5	1.00	6.03	4.43	3.39	2.68	2.17	1.79	1.51	1.28	1.11	0.96
	2.00	3.30	2.73	2.35	2.04	1.79	1.56	1.37	1.20	1.06	0.94
	3.00	5.69	4.23	3.28	2.61	1.97	1.49	1.15	0.83	0.59	0.44
	4.00	6.18	3.93	2.65	1.87	1.37	1.03	0.80	0.63	0.51	0.41
	5.00	4.21	2.67	1.80	1.27	0.93	0.70	0.54	0.42	0.34	0.28
Z180-2.0	1.00	9.21	6.76	5.18	4.09	3.31	2.74	2.30	1.96	1.69	1.47
	2.00	4.78	4.01	3.48	3.06	2.69	2.37	2.08	1.83	1.62	1.43
	3.00	8.65	6.45	5.00	3.99	2.99	2.26	1.75	1.23	0.88	0.66
	4.00	8.83	5.55	3.72	2.61	1.90	1.43	1.10	0.86	0.69	0.56
	5.00	5.87	3.69	2.47	1.74	1.26	0.95	0.73	0.58	0.46	0.37
Z180-2.5	1.00	11.69	8.59	6.57	5.19	4.21	3.48	2.92	2.49	2.15	1.87
	2.00	5.94	4.98	4.33	3.82	3.37	2.97	2.62	2.31	2.04	1.81
	3.00	10.97	8.19	6.35	5.07	3.76	2.84	2.20	1.52	1.10	0.82
	4.00	11.06	6.94	4.64	3.25	2.37	1.78	1.37	1.07	0.86	0.70
	5.00	7.32	4.60	3.07	2.16	1.57	1.18	0.91	0.71	0.57	0.46
Z180-3	1.00	14.05	10.32	7.90	6.24	5.06	4.18	3.51	2.99	2.58	2.25
	2.00	6.99	5.85	5.09	4.49	3.98	3.52	3.11	2.75	2.44	2.17
	3.00	13.18	9.83	7.63	6.09	4.48	3.39	2.62	1.78	1.29	0.97
	4.00	13.29	8.33	5.55	3.89	2.83	2.12	1.63	1.28	1.02	0.83
	5.00	8.75	5.49	3.67	2.57	1.87	1.40	1.08	0.85	0.68	0.55
Z200-1.5	1.00	6.67	4.90	3.75	2.96	2.40	1.98	1.67	1.42	1.23	1.07
	2.00	3.49	2.78	2.33	2.02	1.78	1.58	1.40	1.25	1.11	0.99
	3.00	6.51	4.80	3.69	2.93	2.38	1.96	1.51	1.19	0.95	0.78
	4.00	8.20	5.27	3.58	2.55	1.88	1.42	1.10	0.87	0.70	0.57
	5.00	5.73	3.66	2.48	1.76	1.29	0.97	0.75	0.60	0.48	0.39
Z200-2.0	1.00	11.12	8.17	6.25	4.94	4.00	3.31	2.78	2.37	2.04	1.78
	2.00	5.24	4.24	3.61	3.18	2.83	2.54	2.28	2.04	1.83	1.64
	3.00	10.82	7.98	6.14	4.87	3.96	3.24	2.50	1.97	1.58	1.23
	4.00	12.12	7.67	5.16	3.64	2.66	2.00	1.55	1.22	0.98	0.79
	5.00	8.19	5.18	3.48	2.45	1.79	1.35	1.04	0.82	0.65	0.53
Z200-2.5	1.00	14.59	10.72	8.21	6.48	5.25	4.34	3.65	3.11	2.68	2.33
	2.00	6.65	5.37	4.59	4.05	3.62	3.26	2.94	2.64	2.38	2.14
	3.00	14.20	10.48	8.06	6.39	5.20	4.22	3.26	2.57	2.06	1.56
	4.00	15.61	9.83	6.59	4.63	3.37	2.53	1.95	1.54	1.23	1.00
	5.00	10.41	6.56	4.39	3.08	2.25	1.69	1.30	1.02	0.82	0.67
Z200-3	1.00	17.73	13.03	9.98	7.88	6.38	5.28	4.43	3.78	3.26	2.84

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Grinda simplu rezezata											
	2.00	7.91	6.37	5.43	4.79	4.29	3.88	3.50	3.16	2.85	2.57
	3.00	17.28	12.75	9.80	7.77	6.32	5.09	3.93	3.10	2.48	1.84
	4.00	18.80	11.82	7.90	5.55	4.04	3.03	2.33	1.83	1.47	1.19
	5.00	12.48	7.85	5.25	3.69	2.68	2.02	1.55	1.22	0.98	0.79
Z250-1.5	1.00	8.43	6.20	4.74	3.75	3.04	2.51	2.11	1.80	1.55	1.35
	2.00	4.43	3.42	2.78	2.36	2.05	1.82	1.62	1.46	1.31	1.19
	3.00	8.34	6.13	4.70	3.72	3.02	2.50	1.95	1.53	1.23	1.00
	4.00	13.08	8.48	5.82	4.16	3.08	2.34	1.82	1.44	1.17	0.95
	5.00	9.36	6.02	4.10	2.91	2.15	1.63	1.26	1.00	0.80	0.66
Z250-2.0	1.00	14.44	10.61	8.12	6.42	5.20	4.30	3.61	3.08	2.65	2.31
	2.00	6.74	5.26	4.35	3.74	3.30	2.96	2.68	2.43	2.20	2.00
	3.00	14.21	10.46	8.02	6.35	5.16	4.27	3.31	2.60	2.09	1.70
	4.00	20.03	12.76	8.63	6.10	4.47	3.38	2.61	2.06	1.65	1.35
	5.00	13.73	8.71	5.87	4.14	3.03	2.29	1.76	1.39	1.12	0.91
Z250-2.5	1.00	19.94	14.65	11.22	8.86	7.18	5.93	4.99	4.25	3.66	3.19
	2.00	8.79	6.87	5.69	4.92	4.37	3.94	3.58	3.26	2.98	2.71
	3.00	19.54	14.39	11.04	8.75	7.10	5.86	4.52	3.56	2.86	2.33
	4.00	26.95	16.98	11.38	7.99	5.83	4.38	3.37	2.65	2.12	1.73
	5.00	17.98	11.33	7.59	5.33	3.89	2.92	2.25	1.77	1.42	1.15
Z250-3	1.00	23.84	17.52	13.41	10.60	8.58	7.09	5.96	5.08	4.38	3.81
	2.00	10.44	8.14	6.72	5.79	5.14	4.64	4.22	3.85	3.52	3.21
	3.00	23.31	17.16	13.18	10.44	8.48	6.95	5.36	4.23	3.39	2.68
	4.00	31.74	20.02	13.43	9.44	6.89	5.18	3.99	3.14	2.52	2.05
	5.00	21.25	13.39	8.98	6.31	4.60	3.46	2.67	2.10	1.68	1.37
Z300-1.5	1.00	7.43	6.37	5.57	4.44	3.60	2.97	2.50	2.13	1.83	1.60
	2.00	5.44	4.08	3.21	2.63	2.22	1.92	1.70	1.52	1.38	1.25
	3.00	7.43	6.37	5.27	4.18	3.40	2.83	2.39	2.05	1.69	1.39
	4.00	19.60	12.91	8.96	6.48	4.83	3.70	2.90	2.31	1.87	1.54
	5.00	14.57	9.49	6.52	4.68	3.47	2.64	2.06	1.64	1.32	1.08
Z300-2.0	1.00	17.42	12.80	9.80	7.74	6.27	5.18	4.35	3.71	3.20	2.79
	2.00	8.41	6.33	5.02	4.16	3.55	3.12	2.79	2.52	2.30	2.11
	3.00	16.05	11.83	9.10	7.23	5.90	4.91	4.16	3.57	2.94	2.41
	4.00	30.25	19.62	13.44	9.61	7.11	5.41	4.21	3.34	2.69	2.20
	5.00	21.63	13.91	9.47	6.73	4.96	3.76	2.91	2.31	1.86	1.52
Z300-2.5	1.00	25.73	18.90	14.47	11.43	9.26	7.65	6.43	5.48	4.73	4.12
	2.00	11.33	8.56	6.81	5.66	4.86	4.29	3.86	3.52	3.24	2.99
	3.00	23.30	17.19	13.24	10.54	8.61	7.18	6.09	5.23	4.30	3.52
	4.00	42.08	26.91	18.24	12.93	9.50	7.18	5.56	4.39	3.53	2.88
	5.00	29.10	18.52	12.51	8.84	6.48	4.89	3.78	2.98	2.39	1.95

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Grinda simplu rezezata											
Z300-3	1.00	33.59	24.68	18.90	14.93	12.09	9.99	8.40	7.16	6.17	5.37
	2.00	14.04	10.60	8.43	7.00	6.02	5.32	4.80	4.40	4.06	3.76
	3.00	30.08	22.20	17.10	13.62	11.14	9.30	7.89	6.79	5.55	4.55
	4.00	54.32	34.37	23.10	16.27	11.89	8.95	6.90	5.44	4.36	3.55
	5.00	36.61	23.13	15.53	10.93	7.98	6.00	4.63	3.64	2.92	2.37
Z350-1.5	1.00	6.36	5.45	4.77	4.24	3.82	3.47	2.96	2.53	2.18	1.90
	2.00	6.36	5.06	3.92	3.15	2.61	2.21	1.92	1.69	1.51	1.37
	3.00	6.36	5.45	4.77	4.24	3.82	3.33	2.81	2.41	2.08	1.82
	4.00	27.69	18.46	12.93	9.42	7.08	5.45	4.29	3.44	2.80	2.31
	5.00	21.20	13.94	9.66	6.97	5.19	3.98	3.11	2.48	2.01	1.65
Z350-2.0	1.00	15.41	13.21	11.56	9.31	7.54	6.23	5.24	4.46	3.85	3.35
	2.00	10.63	7.90	6.15	4.98	4.15	3.56	3.11	2.77	2.51	2.29
	3.00	15.41	13.21	10.82	8.58	6.98	5.80	4.90	4.20	3.65	3.20
	4.00	42.89	28.17	19.49	14.05	10.47	8.00	6.26	4.99	4.04	3.32
	5.00	31.62	20.53	14.08	10.08	7.46	5.68	4.42	3.51	2.83	2.32
Z350-2.5	1.00	30.51	23.24	17.80	14.06	11.39	9.41	7.91	6.74	5.81	5.06
	2.00	14.56	10.83	8.45	6.85	5.74	4.94	4.35	3.90	3.54	3.25
	3.00	28.36	20.88	16.04	12.73	10.37	8.63	7.30	6.27	5.45	4.79
	4.00	60.77	39.32	26.90	19.21	14.19	10.78	8.38	6.65	5.36	4.38
	5.00	43.22	27.75	18.87	13.40	9.86	7.47	5.79	4.58	3.68	3.01
Z350-3	1.00	42.73	31.39	24.03	18.99	15.38	12.71	10.68	9.10	7.85	6.84
	2.00	18.37	13.67	10.67	8.66	7.25	6.25	5.51	4.95	4.51	4.16
	3.00	37.70	27.77	21.34	16.95	13.81	11.50	9.75	8.38	7.29	6.41
	4.00	80.31	51.31	34.75	24.62	18.07	13.66	10.57	8.35	6.71	5.47
	5.00	55.39	35.23	23.78	16.80	12.31	9.28	7.17	5.66	4.54	3.70
Z400-2.0	1.00	13.48	11.55	10.11	8.98	8.09	7.10	5.96	5.08	4.38	3.82
	2.00	12.47	9.23	7.15	5.74	4.75	4.03	3.49	3.08	2.76	2.51
	3.00	13.48	11.55	10.11	8.98	7.66	6.36	5.38	4.62	4.02	3.53
	4.00	54.66	36.18	25.20	18.26	13.66	10.49	8.23	6.58	5.34	4.39
	5.00	41.09	26.85	18.52	13.31	9.88	7.54	5.89	4.68	3.79	3.11
Z400-2.5	1.00	26.68	22.87	20.01	16.04	12.99	10.74	9.02	7.69	6.63	5.78
	2.00	17.14	12.70	9.86	7.93	6.58	5.61	4.88	4.33	3.91	3.56
	3.00	26.68	22.79	17.50	13.89	11.32	9.42	7.99	6.87	5.98	5.27
	4.00	78.12	50.96	35.08	25.18	18.68	14.24	11.11	8.83	7.13	5.85
	5.00	56.64	36.59	24.99	17.82	13.16	9.99	7.76	6.15	4.95	4.05
Z400-3	1.00	46.53	35.91	27.50	21.73	17.60	14.54	12.22	10.41	8.98	7.82
	2.00	21.70	16.09	12.49	10.06	8.35	7.12	6.21	5.52	4.99	4.57
	3.00	41.03	30.22	23.22	18.44	15.04	12.53	10.63	9.15	7.98	7.04
	4.00	104.13	67.04	45.68	32.51	23.96	18.16	14.10	11.16	8.98	7.34

“Europanel Group” S.R.L.

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Grinda simplu rezezata											
	5.00	73.15	46.79	31.71	22.48	16.51	12.48	9.66	7.63	6.14	5.00

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Grinda continua cu doua deschideri											
Profil	Caz	L (m)									
		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
Z140-1.5	1.00	3.84	2.82	2.16	1.71	1.38	1.14	0.96	0.82	0.71	0.62
	2.00	2.11	1.75	1.48	1.26	1.03	0.81	0.65	0.50	0.36	0.27
	3.00	3.52	2.64	2.05	1.64	1.34	1.11	0.83	0.60	0.44	0.34
	4.00	7.07	4.47	3.01	2.12	1.55	1.16	0.90	0.71	0.57	0.46
	5.00	4.76	3.01	2.02	1.42	1.04	0.78	0.60	0.47	0.38	0.31
Z140-2.0	1.00	5.53	4.06	3.11	2.46	1.99	1.64	1.38	1.18	1.02	0.88
	2.00	2.93	2.44	2.08	1.78	1.50	1.19	0.95	0.77	0.56	0.42
	3.00	5.05	3.79	2.95	2.36	1.93	1.60	1.29	0.93	0.69	0.52
	4.00	9.85	6.17	4.12	2.88	2.10	1.57	1.21	0.95	0.76	0.62
	5.00	6.49	4.07	2.72	1.91	1.39	1.04	0.80	0.63	0.50	0.41
Z140-2.5	1.00	6.89	5.07	3.88	3.06	2.48	2.05	1.72	1.47	1.27	1.10
	2.00	3.59	3.00	2.55	2.19	1.83	1.46	1.17	0.95	0.67	0.51
	3.00	6.29	4.72	3.68	2.94	2.40	2.00	1.57	1.13	0.84	0.63
	4.00	12.32	7.70	5.13	3.58	2.60	1.95	1.50	1.18	0.94	0.76
	5.00	8.06	5.05	3.37	2.36	1.72	1.29	0.99	0.78	0.62	0.51
Z140-3	1.00	8.20	6.03	4.62	3.65	2.95	2.44	2.05	1.75	1.51	1.31
	2.00	4.20	3.49	2.98	2.57	2.13	1.71	1.37	1.11	0.78	0.59
	3.00	7.47	5.61	4.37	3.50	2.86	2.37	1.82	1.31	0.97	0.74
	4.00	14.69	9.16	6.09	4.26	3.09	2.31	1.78	1.39	1.11	0.90
	5.00	9.57	5.99	3.99	2.80	2.03	1.52	1.17	0.92	0.73	0.60
Z150-1.5	1.00	4.35	3.19	2.45	1.93	1.57	1.29	1.09	0.93	0.80	0.70
	2.00	2.28	1.89	1.60	1.38	1.17	0.94	0.75	0.61	0.45	0.34
	3.00	4.02	3.00	2.33	1.86	1.52	1.26	1.05	0.75	0.55	0.42
	4.00	8.58	5.40	3.61	2.54	1.85	1.39	1.07	0.84	0.67	0.55
	5.00	5.71	3.59	2.40	1.69	1.23	0.92	0.71	0.56	0.45	0.36
Z150-2.0	1.00	6.06	4.46	3.41	2.70	2.18	1.80	1.52	1.29	1.11	0.97
	2.00	3.12	2.59	2.21	1.90	1.61	1.29	1.04	0.84	0.61	0.46
	3.00	5.60	4.19	3.26	2.60	2.12	1.76	1.42	1.02	0.75	0.57
	4.00	11.51	7.22	4.82	3.38	2.46	1.85	1.42	1.12	0.89	0.72
	5.00	7.61	4.78	3.19	2.24	1.63	1.22	0.94	0.74	0.59	0.48
Z150-2.5	1.00	7.58	5.57	4.26	3.37	2.73	2.26	1.90	1.61	1.39	1.21
	2.00	3.84	3.19	2.72	2.35	1.97	1.58	1.28	1.03	0.74	0.56
	3.00	7.00	5.24	4.07	3.25	2.65	2.20	1.73	1.24	0.92	0.70
	4.00	14.56	9.09	6.06	4.23	3.08	2.30	1.77	1.39	1.11	0.90
	5.00	9.53	5.97	3.98	2.79	2.03	1.52	1.17	0.92	0.73	0.60
Z150-3	1.00	9.03	6.63	5.08	4.01	3.25	2.69	2.26	1.92	1.66	1.44
	2.00	4.49	3.72	3.18	2.75	2.30	1.85	1.49	1.21	0.85	0.65

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Grinda continua cu doua deschideri											
	3.00	8.34	6.23	4.84	3.87	3.16	2.62	2.01	1.44	1.07	0.81
	4.00	17.41	10.85	7.22	5.04	3.66	2.74	2.10	1.65	1.32	1.07
	5.00	11.34	7.09	4.73	3.31	2.40	1.80	1.38	1.09	0.87	0.71
Z180-1.5	1.00	6.03	4.43	3.39	2.68	2.17	1.79	1.51	1.28	1.11	0.96
	2.00	2.86	2.25	1.87	1.60	1.40	1.24	1.10	0.97	0.81	0.69
	3.00	5.59	4.14	3.20	2.55	2.08	1.74	1.47	1.25	1.09	0.95
	4.00	14.54	9.27	6.27	4.44	3.26	2.46	1.90	1.50	1.21	0.98
	5.00	9.99	6.34	4.28	3.02	2.21	1.67	1.29	1.01	0.81	0.66
Z180-2.0	1.00	9.21	6.76	5.18	4.09	3.31	2.74	2.30	1.96	1.69	1.47
	2.00	4.08	3.23	2.70	2.34	2.06	1.83	1.64	1.43	1.21	1.02
	3.00	8.48	6.29	4.87	3.89	3.18	2.65	2.24	1.91	1.66	1.45
	4.00	21.34	13.41	8.97	6.30	4.59	3.44	2.65	2.08	1.67	1.36
	5.00	14.17	8.91	5.96	4.19	3.05	2.29	1.76	1.39	1.11	0.90
Z180-2.5	1.00	11.69	8.59	6.57	5.19	4.21	3.48	2.92	2.49	2.15	1.87
	2.00	5.09	4.03	3.36	2.91	2.57	2.29	2.05	1.78	1.51	1.28
	3.00	10.76	7.98	6.18	4.93	4.03	3.36	2.84	2.43	2.10	1.84
	4.00	26.87	16.84	11.24	7.88	5.73	4.30	3.31	2.60	2.08	1.69
	5.00	17.72	11.13	7.44	5.21	3.80	2.85	2.19	1.72	1.38	1.12
Z180-3	1.00	14.05	10.32	7.90	6.24	5.06	4.18	3.51	2.99	2.58	2.25
	2.00	6.03	4.76	3.96	3.43	3.02	2.70	2.42	2.10	1.78	1.51
	3.00	12.94	9.60	7.42	5.93	4.85	4.04	3.41	2.92	2.53	2.20
	4.00	32.47	20.30	13.52	9.45	6.87	5.15	3.95	3.10	2.48	2.01
	5.00	21.27	13.33	8.90	6.23	4.53	3.40	2.61	2.05	1.64	1.33
Z200-1.5	1.00	6.67	4.90	3.75	2.96	2.40	1.98	1.67	1.42	1.23	1.07
	2.00	3.22	2.46	1.98	1.66	1.43	1.26	1.12	1.01	0.91	0.82
	3.00	6.49	4.78	3.66	2.90	2.36	1.95	1.65	1.40	1.21	1.06
	4.00	18.81	12.16	8.31	5.93	4.38	3.33	2.59	2.05	1.65	1.35
	5.00	13.35	8.56	5.82	4.13	3.04	2.30	1.78	1.41	1.13	0.93
Z200-2.0	1.00	11.12	8.17	6.25	4.94	4.00	3.31	2.78	2.37	2.04	1.78
	2.00	4.77	3.66	2.98	2.52	2.20	1.95	1.76	1.59	1.44	1.31
	3.00	10.77	7.93	6.09	4.83	3.92	3.25	2.74	2.34	2.02	1.76
	4.00	28.78	18.26	12.31	8.68	6.35	4.79	3.70	2.91	2.34	1.90
	5.00	19.53	12.37	8.32	5.86	4.28	3.22	2.49	1.96	1.57	1.28
Z200-2.5	1.00	14.59	10.72	8.21	6.48	5.25	4.34	3.65	3.11	2.68	2.33
	2.00	6.05	4.65	3.77	3.20	2.79	2.49	2.24	2.04	1.85	1.68
	3.00	14.14	10.41	7.99	6.33	5.15	4.27	3.60	3.07	2.65	2.31
	4.00	37.58	23.67	15.86	11.14	8.12	6.10	4.70	3.70	2.96	2.41
	5.00	25.07	15.79	10.58	7.43	5.42	4.07	3.13	2.47	1.97	1.61
Z200-3	1.00	17.73	13.03	9.98	7.88	6.38	5.28	4.43	3.78	3.26	2.84

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Grinda continua cu doua deschideri											
	2.00	7.24	5.54	4.49	3.80	3.31	2.95	2.66	2.42	2.21	1.99
	3.00	17.21	12.67	9.73	7.71	6.26	5.19	4.37	3.73	3.22	2.81
	4.00	45.53	28.59	19.11	13.40	9.76	7.32	5.64	4.43	3.54	2.88
	5.00	30.16	18.96	12.68	8.90	6.48	4.87	3.75	2.94	2.36	1.92
Z250-1.5	1.00	7.14	6.12	4.74	3.75	3.04	2.51	2.11	1.80	1.55	1.35
	2.00	4.25	3.18	2.51	2.05	1.74	1.51	1.33	1.19	1.08	0.98
	3.00	7.14	6.12	4.69	3.71	3.01	2.49	2.09	1.78	1.54	1.34
	4.00	29.38	19.21	13.25	9.52	7.08	5.40	4.22	3.35	2.71	2.22
	5.00	21.43	13.87	9.49	6.77	5.01	3.80	2.96	2.34	1.89	1.55
Z250-2.0	1.00	14.44	10.61	8.12	6.42	5.20	4.30	3.61	3.08	2.65	2.31
	2.00	6.39	4.82	3.82	3.16	2.70	2.36	2.11	1.90	1.73	1.59
	3.00	14.19	10.43	8.00	6.33	5.13	4.25	3.57	3.05	2.63	2.30
	4.00	46.91	30.00	20.33	14.41	10.58	8.00	6.19	4.89	3.93	3.21
	5.00	32.43	20.64	13.94	9.85	7.22	5.44	4.21	3.32	2.66	2.17
Z250-2.5	1.00	19.94	14.65	11.22	8.86	7.18	5.93	4.99	4.25	3.66	3.19
	2.00	8.32	6.27	4.98	4.12	3.53	3.10	2.77	2.51	2.30	2.11
	3.00	19.51	14.34	11.00	8.70	7.06	5.85	4.92	4.20	3.63	3.16
	4.00	64.86	40.86	27.39	19.24	14.03	10.54	8.12	6.39	5.12	4.16
	5.00	43.29	27.27	18.28	12.84	9.36	7.03	5.42	4.26	3.41	2.77
Z250-3	1.00	23.84	17.52	13.41	10.60	8.58	7.09	5.96	5.08	4.38	3.81
	2.00	9.91	7.46	5.91	4.88	4.17	3.66	3.27	2.96	2.71	2.49
	3.00	23.26	17.11	13.11	10.38	8.42	6.98	5.87	5.01	4.33	3.78
	4.00	76.14	48.06	32.25	22.68	16.55	12.45	9.59	7.55	6.05	4.92
	5.00	51.03	32.19	21.59	15.18	11.07	8.32	6.41	5.05	4.04	3.29
Z300-1.5	1.00	5.94	5.09	4.46	3.96	3.56	2.97	2.50	2.13	1.83	1.60
	2.00	5.36	3.97	3.07	2.46	2.03	1.72	1.49	1.31	1.17	1.05
	3.00	5.94	5.09	4.46	3.96	3.37	2.79	2.35	2.01	1.74	1.52
	4.00	42.53	28.31	19.82	14.42	10.82	8.34	6.56	5.25	4.27	3.52
	5.00	32.45	21.31	14.75	10.64	7.92	6.06	4.74	3.78	3.06	2.51
Z300-2.0	1.00	14.40	12.34	9.80	7.74	6.27	5.18	4.35	3.71	3.20	2.79
	2.00	8.24	6.11	4.74	3.82	3.17	2.71	2.36	2.09	1.88	1.71
	3.00	14.40	11.77	9.03	7.15	5.81	4.82	4.07	3.49	3.02	2.65
	4.00	67.97	44.43	30.64	22.02	16.36	12.48	9.74	7.75	6.27	5.14
	5.00	49.55	32.06	21.93	15.66	11.57	8.79	6.83	5.42	4.37	3.57
Z300-2.5	1.00	25.73	18.90	14.47	11.43	9.26	7.65	6.43	5.48	4.73	4.12
	2.00	11.09	8.23	6.40	5.16	4.30	3.67	3.21	2.86	2.58	2.36
	3.00	23.22	17.09	13.12	10.40	8.46	7.02	5.94	5.09	4.42	3.87
	4.00	97.66	62.75	42.69	30.35	22.35	16.93	13.13	10.38	8.36	6.82
	5.00	68.29	43.62	29.53	20.92	15.35	11.60	8.98	7.09	5.69	4.64

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Z300-3	1.00	33.59	24.68	18.90	14.93	12.09	9.99	8.40	7.16	6.17	5.37
	2.00	13.74	10.20	7.93	6.39	5.32	4.55	3.97	3.54	3.20	2.93
	3.00	29.96	22.05	16.93	13.42	10.92	9.08	7.67	6.58	5.72	5.02
	4.00	129.36	81.97	55.17	38.89	28.44	21.42	16.53	13.02	10.44	8.50
	5.00	87.51	55.34	37.19	26.19	19.13	14.39	11.10	8.74	7.01	5.70
Z350-1.5	1.00	5.09	4.36	3.82	3.39	3.05	2.78	2.54	2.35	2.18	1.90
	2.00	5.09	4.36	3.82	3.06	2.50	2.09	1.78	1.54	1.35	1.21
	3.00	5.09	4.36	3.82	3.39	3.05	2.78	2.54	2.35	2.06	1.80
	4.00	58.63	39.53	27.96	20.53	15.53	12.04	9.53	7.67	6.27	5.19
	5.00	46.19	30.68	21.44	15.57	11.68	8.98	7.06	5.65	4.59	3.78
Z350-2.0	1.00	12.33	10.57	9.25	8.22	7.40	6.23	5.24	4.46	3.85	3.35
	2.00	10.54	7.78	5.99	4.78	3.92	3.29	2.81	2.45	2.17	1.95
	3.00	12.33	10.57	9.25	8.22	6.92	5.73	4.83	4.13	3.57	3.13
	4.00	93.77	62.18	43.39	31.49	23.58	18.12	14.23	11.38	9.25	7.61
	5.00	70.85	46.38	32.02	23.04	17.13	13.08	10.22	8.13	6.58	5.40
Z350-2.5	1.00	24.41	20.92	17.80	14.06	11.39	9.41	7.91	6.74	5.81	5.06
	2.00	14.41	10.64	8.20	6.55	5.37	4.52	3.88	3.39	3.01	2.71
	3.00	24.41	20.82	15.96	12.63	10.26	8.50	7.17	6.13	5.32	4.66
	4.00	137.21	89.46	61.57	44.17	32.77	24.98	19.48	15.48	12.51	10.25
	5.00	99.39	64.18	43.83	31.25	23.07	17.51	13.60	10.78	8.68	7.10
Z350-3	1.00	42.59	31.39	24.03	18.99	15.38	12.71	10.68	9.10	7.85	6.84
	2.00	18.18	13.42	10.35	8.26	6.78	5.70	4.90	4.28	3.81	3.43
	3.00	37.63	27.67	21.22	16.80	13.64	11.31	9.54	8.17	7.08	6.21
	4.00	186.78	119.88	81.48	57.88	42.58	32.24	24.99	19.76	15.90	12.98
	5.00	130.23	83.10	56.23	39.80	29.20	22.05	17.06	13.47	10.82	8.82
Z400-2.0	1.00	10.78	9.24	8.09	7.19	6.47	5.88	5.39	4.98	4.38	3.82
	2.00	10.78	9.13	7.02	5.58	4.56	3.81	3.24	2.81	2.47	2.20
	3.00	10.78	9.24	8.09	7.19	6.47	5.88	5.30	4.53	3.92	3.43
	4.00	117.52	78.61	55.25	40.34	30.37	23.44	18.48	14.83	12.08	9.98
	5.00	90.76	59.87	41.58	30.07	22.45	17.21	13.48	10.76	8.72	7.17
Z400-2.5	1.00	21.34	18.29	16.01	14.23	12.80	10.74	9.02	7.69	6.63	5.78
	2.00	17.02	12.54	9.65	7.68	6.28	5.25	4.48	3.89	3.43	3.06
	3.00	21.34	18.29	16.01	13.78	11.19	9.28	7.82	6.70	5.81	5.09
	4.00	173.32	114.06	79.08	57.09	42.57	32.59	25.51	20.34	16.48	13.54
	5.00	128.46	83.56	57.40	41.13	30.47	23.20	18.08	14.36	11.59	9.49
Z400-3	1.00	37.22	31.91	27.50	21.73	17.60	14.54	12.22	10.41	8.98	7.82
	2.00	21.54	15.88	12.22	9.72	7.95	6.66	5.68	4.94	4.36	3.90
	3.00	37.22	30.11	23.08	18.28	14.84	12.31	10.39	8.90	7.72	6.77
	4.00	237.92	154.16	105.56	75.44	55.78	42.40	32.98	26.16	21.10	17.26

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Grinda continua cu doua deschideri											
	5.00	169.74	109.08	74.21	52.76	38.84	29.42	22.82	18.05	14.53	11.86

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Grinda continua cu trei deschideri											
Profil	Caz	L (m)									
		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
Z140-1.5	1.00	6.01	4.41	3.38	2.67	2.16	1.79	1.50	1.28	1.10	0.96
	2.00	2.37	1.99	1.71	1.48	1.22	0.97	0.78	0.61	0.44	0.33
	3.00	4.31	3.25	2.54	2.03	1.63	1.06	0.73	0.53	0.39	0.30
	4.00	5.56	3.51	2.36	1.66	1.21	0.91	0.71	0.56	0.45	0.36
	5.00	3.74	2.36	1.59	1.12	0.81	0.61	0.47	0.37	0.30	0.24
Z140-2.0	1.00	8.64	6.34	4.86	3.84	3.11	2.57	2.16	1.84	1.59	1.38
	2.00	3.28	2.78	2.40	2.08	1.77	1.42	1.15	0.93	0.68	0.51
	3.00	6.18	4.66	3.64	2.92	2.39	1.71	1.14	0.81	0.60	0.46
	4.00	7.69	4.82	3.22	2.25	1.64	1.23	0.95	0.74	0.59	0.48
	5.00	5.07	3.18	2.13	1.49	1.09	0.81	0.63	0.49	0.39	0.32
Z140-2.5	1.00	10.77	7.91	6.06	4.79	3.88	3.21	2.69	2.29	1.98	1.72
	2.00	4.01	3.40	2.94	2.56	2.16	1.74	1.41	1.15	0.82	0.62
	3.00	7.70	5.81	4.54	3.64	2.98	2.04	1.38	0.99	0.73	0.56
	4.00	9.59	6.00	4.00	2.80	2.03	1.52	1.17	0.92	0.73	0.60
	5.00	6.29	3.94	2.63	1.84	1.34	1.01	0.77	0.61	0.49	0.40
Z140-3	1.00	12.82	9.42	7.21	5.70	4.62	3.81	3.20	2.73	2.35	2.05
	2.00	4.68	3.95	3.43	2.99	2.52	2.03	1.65	1.34	0.95	0.72
	3.00	9.14	6.89	5.39	4.32	3.52	2.35	1.60	1.15	0.85	0.65
	4.00	11.42	7.13	4.75	3.32	2.41	1.80	1.39	1.09	0.87	0.71
	5.00	7.46	4.67	3.12	2.18	1.59	1.19	0.91	0.72	0.57	0.47
Z150-1.5	1.00	6.79	4.99	3.82	3.02	2.45	2.02	1.70	1.45	1.25	1.09
	2.00	2.55	2.14	1.85	1.61	1.39	1.12	0.91	0.74	0.55	0.41
	3.00	4.93	3.70	2.88	2.31	1.89	1.46	0.92	0.66	0.49	0.37
	4.00	6.72	4.23	2.83	1.99	1.45	1.09	0.84	0.66	0.53	0.43
	5.00	4.47	2.81	1.88	1.32	0.96	0.72	0.56	0.44	0.35	0.29
Z150-2.0	1.00	9.48	6.96	5.33	4.21	3.41	2.82	2.37	2.02	1.74	1.52
	2.00	3.48	2.94	2.54	2.22	1.90	1.54	1.25	1.02	0.74	0.56
	3.00	6.88	5.16	4.02	3.22	2.63	1.88	1.25	0.90	0.66	0.50
	4.00	8.99	5.64	3.77	2.64	1.92	1.44	1.11	0.87	0.70	0.57
	5.00	5.95	3.74	2.50	1.75	1.28	0.96	0.74	0.58	0.46	0.38
Z150-2.5	1.00	11.84	8.70	6.66	5.26	4.26	3.52	2.96	2.52	2.18	1.90
	2.00	4.27	3.60	3.12	2.73	2.32	1.89	1.53	1.25	0.90	0.68
	3.00	8.59	6.45	5.03	4.02	3.29	2.25	1.52	1.09	0.81	0.61
	4.00	11.34	7.09	4.72	3.30	2.40	1.80	1.38	1.09	0.87	0.70
	5.00	7.43	4.66	3.11	2.18	1.58	1.19	0.91	0.72	0.57	0.47
Z150-3	1.00	14.11	10.37	7.94	6.27	5.08	4.20	3.53	3.01	2.59	2.26
	2.00	4.99	4.20	3.64	3.19	2.70	2.20	1.79	1.47	1.04	0.79

Grinda continua cu trei deschideri											
	3.00	10.23	7.67	5.98	4.79	3.88	2.59	1.77	1.27	0.94	0.71
	4.00	13.53	8.45	5.62	3.93	2.85	2.13	1.64	1.29	1.03	0.83
	5.00	8.84	5.53	3.69	2.58	1.88	1.41	1.08	0.85	0.68	0.55
Z180-1.5	1.00	9.41	6.92	5.30	4.18	3.39	2.80	2.35	2.01	1.73	1.51
	2.00	3.16	2.51	2.10	1.82	1.61	1.44	1.29	1.14	0.97	0.83
	3.00	6.87	5.10	3.95	3.15	2.58	2.15	1.82	1.56	1.27	0.89
	4.00	11.50	7.32	4.95	3.50	2.57	1.94	1.50	1.18	0.95	0.77
	5.00	7.87	5.00	3.37	2.38	1.74	1.31	1.01	0.80	0.64	0.52
Z180-2.0	1.00	14.38	10.57	8.09	6.39	5.18	4.28	3.60	3.06	2.64	2.30
	2.00	4.48	3.57	3.02	2.64	2.35	2.12	1.91	1.69	1.44	1.22
	3.00	10.40	7.73	6.00	4.80	3.93	3.28	2.78	2.38	1.92	1.32
	4.00	16.69	10.50	7.02	4.93	3.59	2.70	2.08	1.63	1.31	1.06
	5.00	11.09	6.98	4.67	3.28	2.39	1.79	1.38	1.09	0.87	0.71
Z180-2.5	1.00	18.26	13.41	10.27	8.12	6.57	5.43	4.56	3.89	3.35	2.92
	2.00	5.57	4.44	3.75	3.28	2.93	2.64	2.38	2.10	1.79	1.53
	3.00	13.19	9.81	7.61	6.09	4.99	4.16	3.52	3.01	2.35	1.64
	4.00	20.97	13.15	8.79	6.16	4.48	3.36	2.58	2.03	1.62	1.32
	5.00	13.85	8.70	5.82	4.08	2.97	2.23	1.72	1.35	1.08	0.88
Z180-3	1.00	21.95	16.13	12.35	9.76	7.90	6.53	5.49	4.68	4.03	3.51
	2.00	6.60	5.24	4.41	3.85	3.43	3.10	2.80	2.46	2.11	1.80
	3.00	15.86	11.79	9.14	7.32	5.99	5.00	4.23	3.58	2.69	1.93
	4.00	25.29	15.82	10.55	7.38	5.36	4.02	3.09	2.42	1.94	1.57
	5.00	16.60	10.41	6.95	4.87	3.54	2.66	2.04	1.61	1.28	1.04
Z200-1.5	1.00	9.31	7.66	5.86	4.63	3.75	3.10	2.61	2.22	1.91	1.67
	2.00	3.57	2.73	2.21	1.87	1.62	1.44	1.30	1.18	1.07	0.97
	3.00	8.06	5.93	4.55	3.61	2.93	2.43	2.05	1.75	1.51	1.32
	4.00	15.03	9.69	6.61	4.71	3.48	2.64	2.05	1.62	1.31	1.07
	5.00	10.60	6.79	4.61	3.27	2.40	1.82	1.41	1.11	0.89	0.73
Z200-2.0	1.00	17.37	12.76	9.77	7.72	6.25	5.17	4.34	3.70	3.19	2.78
	2.00	5.22	4.03	3.29	2.81	2.47	2.22	2.01	1.84	1.68	1.54
	3.00	13.36	9.84	7.56	6.00	4.88	4.05	3.41	2.91	2.52	2.20
	4.00	22.68	14.38	9.68	6.83	4.99	3.76	2.90	2.29	1.84	1.49
	5.00	15.36	9.72	6.53	4.60	3.36	2.53	1.95	1.54	1.23	1.00
Z200-2.5	1.00	22.80	16.75	12.82	10.13	8.21	6.78	5.70	4.86	4.19	3.65
	2.00	6.60	5.09	4.16	3.55	3.12	2.81	2.56	2.34	2.15	1.96
	3.00	17.54	12.92	9.93	7.87	6.40	5.31	4.48	3.83	3.31	2.89
	4.00	29.44	18.55	12.43	8.73	6.36	4.78	3.68	2.90	2.32	1.89
	5.00	19.64	12.37	8.29	5.82	4.24	3.19	2.46	1.93	1.55	1.26
Z200-3	1.00	27.71	20.36	15.59	12.32	9.98	8.24	6.93	5.90	5.09	4.43

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Grinda continua cu trei deschideri											
	2.00	7.88	6.06	4.93	4.20	3.69	3.32	3.02	2.77	2.55	2.32
	3.00	21.36	15.73	12.08	9.58	7.79	6.46	5.45	4.65	4.02	3.51
	4.00	35.59	22.36	14.95	10.48	7.63	5.73	4.41	3.47	2.77	2.25
	5.00	23.59	14.83	9.92	6.96	5.07	3.81	2.93	2.31	1.84	1.50
Z250-1.5	1.00	7.43	6.37	5.58	4.96	4.46	3.92	3.29	2.81	2.42	2.11
	2.00	4.72	3.55	2.80	2.31	1.96	1.71	1.52	1.37	1.25	1.14
	3.00	7.14	6.12	5.35	4.62	3.75	3.10	2.61	2.23	1.92	1.68
	4.00	23.68	15.43	10.62	7.62	5.65	4.31	3.36	2.67	2.16	1.77
	5.00	17.14	11.06	7.55	5.38	3.97	3.02	2.34	1.86	1.50	1.22
Z250-2.0	1.00	18.02	15.45	12.69	10.03	8.12	6.71	5.64	4.81	4.15	3.61
	2.00	7.02	5.30	4.22	3.50	3.01	2.65	2.39	2.17	1.99	1.84
	3.00	17.30	12.99	9.96	7.88	6.39	5.29	4.46	3.80	3.28	2.86
	4.00	37.18	23.74	16.07	11.38	8.35	6.31	4.88	3.85	3.10	2.53
	5.00	25.61	16.28	10.98	7.76	5.68	4.28	3.31	2.61	2.09	1.71
Z250-2.5	1.00	31.16	22.89	17.53	13.85	11.22	9.27	7.79	6.64	5.72	4.99
	2.00	9.07	6.86	5.46	4.54	3.91	3.46	3.12	2.85	2.63	2.43
	3.00	24.25	17.84	13.68	10.83	8.79	7.28	6.13	5.24	4.52	3.95
	4.00	50.83	32.02	21.46	15.08	10.99	8.26	6.36	5.01	4.01	3.26
	5.00	33.92	21.37	14.32	10.06	7.33	5.51	4.25	3.34	2.67	2.17
Z250-3	1.00	37.25	27.37	20.95	16.56	13.41	11.08	9.31	7.94	6.84	5.96
	2.00	10.81	8.16	6.48	5.38	4.62	4.08	3.67	3.36	3.09	2.86
	3.00	28.90	21.26	16.30	12.91	10.48	8.68	7.31	6.25	5.40	4.71
	4.00	59.75	37.71	25.30	17.79	12.98	9.76	7.52	5.92	4.74	3.86
	5.00	40.03	25.24	16.93	11.90	8.68	6.52	5.03	3.96	3.17	2.58
Z300-1.5	1.00	6.19	5.30	4.64	4.13	3.71	3.38	3.09	2.86	2.65	2.48
	2.00	6.00	4.45	3.44	2.77	2.29	1.95	1.69	1.49	1.34	1.21
	3.00	5.94	5.09	4.46	3.96	3.56	3.24	2.90	2.48	2.15	1.88
	4.00	34.75	23.04	16.07	11.66	8.73	6.71	5.27	4.21	3.42	2.82
	5.00	26.24	17.18	11.86	8.53	6.34	4.84	3.78	3.01	2.44	2.00
Z300-2.0	1.00	15.00	12.86	11.25	10.00	9.00	8.10	6.80	5.80	5.00	4.35
	2.00	9.10	6.76	5.25	4.24	3.53	3.02	2.64	2.35	2.13	1.95
	3.00	14.40	12.34	10.80	8.77	7.14	5.93	5.01	4.29	3.73	3.27
	4.00	54.77	35.69	24.55	17.61	13.06	9.95	7.76	6.17	4.98	4.08
	5.00	39.62	25.57	17.46	12.44	9.18	6.97	5.41	4.29	3.45	2.82
Z300-2.5	1.00	29.70	25.46	22.28	17.86	14.47	11.96	10.05	8.56	7.38	6.43
	2.00	12.13	9.01	7.02	5.68	4.74	4.06	3.56	3.19	2.89	2.66
	3.00	28.34	20.86	16.02	12.71	10.35	8.60	7.28	6.25	5.43	4.77
	4.00	77.69	49.82	33.85	24.03	17.68	13.38	10.37	8.20	6.59	5.38
	5.00	54.07	34.49	23.33	16.51	12.11	9.14	7.07	5.58	4.48	3.65

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Grinda continua cu trei deschideri											
Z300-3	1.00	51.83	38.56	29.52	23.33	18.90	15.62	13.12	11.18	9.64	8.40
	2.00	14.96	11.12	8.65	6.99	5.84	5.00	4.39	3.93	3.57	3.29
	3.00	36.47	26.85	20.62	16.37	13.33	11.09	9.39	8.07	7.02	6.17
	4.00	101.82	64.48	43.38	30.57	22.34	16.82	12.98	10.23	8.20	6.67
	5.00	68.77	43.47	29.21	20.56	15.01	11.30	8.71	6.86	5.50	4.47
Z350-1.5	1.00	5.30	4.54	3.98	3.53	3.18	2.89	2.65	2.45	2.27	2.12
	2.00	5.30	4.54	3.98	3.46	2.83	2.37	2.02	1.76	1.55	1.38
	3.00	5.09	4.36	3.82	3.39	3.05	2.78	2.54	2.35	2.18	2.04
	4.00	48.35	32.46	22.88	16.74	12.63	9.77	7.71	6.20	5.06	4.18
	5.00	37.68	24.93	17.36	12.58	9.41	7.22	5.67	4.53	3.67	3.02
Z350-2.0	1.00	12.84	11.01	9.63	8.56	7.71	7.01	6.42	5.93	5.50	5.14
	2.00	11.72	8.65	6.67	5.32	4.37	3.67	3.15	2.76	2.45	2.20
	3.00	12.33	10.57	9.25	8.22	7.40	6.73	5.92	5.07	4.39	3.84
	4.00	76.39	50.46	35.10	25.40	18.98	14.56	11.42	9.12	7.40	6.08
	5.00	57.16	37.30	25.68	18.44	13.69	10.44	8.14	6.47	5.23	4.29
Z350-2.5	1.00	25.43	21.80	19.07	16.95	15.26	13.87	12.36	10.53	9.08	7.91
	2.00	15.86	11.71	9.04	7.22	5.93	5.00	4.30	3.77	3.36	3.03
	3.00	24.41	20.92	18.31	15.40	12.51	10.37	8.76	7.50	6.51	5.70
	4.00	110.36	71.74	49.25	35.27	26.12	19.89	15.49	12.30	9.93	8.13
	5.00	79.36	51.12	34.85	24.81	18.29	13.87	10.77	8.52	6.86	5.61
Z350-3	1.00	44.36	38.03	33.27	29.58	24.03	19.86	16.69	14.22	12.26	10.68
	2.00	19.87	14.67	11.32	9.05	7.44	6.27	5.39	4.73	4.22	3.81
	3.00	42.59	33.60	25.77	20.41	16.58	13.76	11.62	9.96	8.65	7.59
	4.00	148.44	95.10	64.54	45.80	33.67	25.47	19.73	15.59	12.54	10.23
	5.00	103.05	65.67	44.39	31.40	23.02	17.37	13.44	10.60	8.51	6.94
Z400-2.0	1.00	11.23	9.63	8.42	7.49	6.74	6.13	5.61	5.18	4.81	4.49
	2.00	11.23	9.63	7.84	6.24	5.10	4.26	3.64	3.16	2.78	2.48
	3.00	10.78	9.24	8.09	7.19	6.47	5.88	5.39	4.98	4.62	4.19
	4.00	96.36	64.19	44.95	32.73	24.58	18.93	14.90	11.93	9.71	8.01
	5.00	73.64	48.40	33.52	24.18	18.01	13.78	10.78	8.59	6.96	5.72
Z400-2.5	1.00	22.23	19.05	16.67	14.82	13.34	12.13	11.12	10.26	9.53	8.89
	2.00	18.79	13.85	10.66	8.49	6.95	5.82	4.98	4.33	3.83	3.43
	3.00	21.34	18.29	16.01	14.23	12.80	11.21	9.47	8.11	7.04	6.18
	4.00	140.38	92.06	63.64	45.84	34.11	26.07	20.38	16.23	13.14	10.78
	5.00	103.14	66.90	45.85	32.79	24.26	18.45	14.36	11.39	9.19	7.52
Z400-3	1.00	38.78	33.24	29.08	25.85	23.27	21.15	19.09	16.27	14.03	12.22
	2.00	23.62	17.42	13.41	10.68	8.74	7.33	6.27	5.46	4.82	4.33
	3.00	37.22	31.91	27.74	21.97	17.85	14.82	12.51	10.73	9.32	8.18
	4.00	190.46	123.09	84.11	60.01	44.31	33.65	26.15	20.72	16.70	13.66

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Grinda continua cu trei deschideri											
	5.00	135.03	86.61	58.83	41.78	30.73	23.26	18.02	14.25	11.46	9.35