

Profile U Europanel

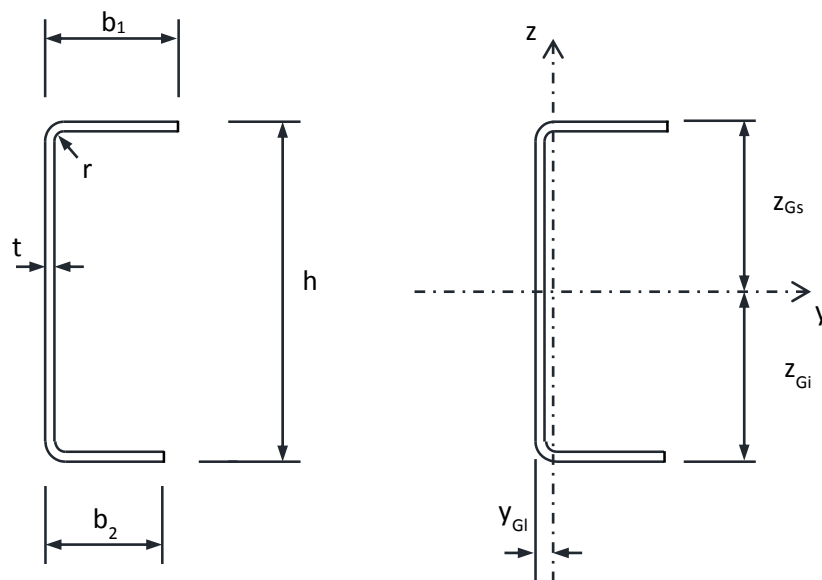


Figura 1. Notatii dimensiuni profile Z si caracteristici geometrice pentru sectiunea bruta

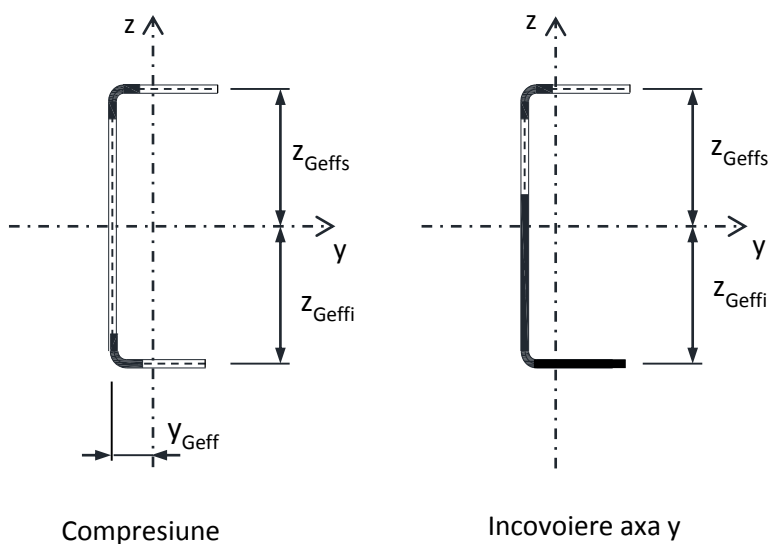


Figura 2 Notatii caracteristici geometrice pentru sectiunile efective de calcul

“Europanel Group” S.R.L.

Oficiu: R. Moldova, or. Chisinau, str. Florilor 4/3

Depozit: or. Vatra, str. Plopilor 49

www.europanel.md

Telefon: +373.795.13.700

: +373.767.17.799

Fax : + 373.22.999.560

E-mail : europanel.group@gmail.com



Dimensiuni sectiuni U								
Profil		h (mm)	b ₁ (mm)	b ₂ (mm)	t (mm)	t _{eff} (mm)	r(mm)	G (kg/m)
U140	U140-1.5	140	55	55	1.5	1.46	4	2.85
	U140-2.0	140	55	55	2	1.96	4	3.78
	U140-2.5	140	55	55	2.5	2.46	4	4.71
	U140-3	140	55	55	3	2.96	4	5.6
U150	U150-1.5	150	55	55	1.5	1.46	4	2.97
	U150-2.0	150	55	55	2	1.96	4	3.94
	U150-2.5	150	54	54	2.5	2.46	4	4.87
	U150-3	150	55	55	3	2.96	4	5.84
U180	U180-1.5	180	55	55	1.5	1.46	4	3.32
	U180-2.0	180	55	55	2	1.96	4	4.41
	U180-2.5	180	54	55	2.5	2.46	4	5.5
	U180-3	180	55	55	3	2.96	4	6.55
U200	U200-1.5	200	75	75	1.5	1.46	4	4.03
	U200-2.0	200	75	75	2	1.96	4	5.35
	U200-2.5	200	75	75	2.5	2.46	4	6.67
	U200-3	200	75	75	3	2.96	4	7.96
U250	U250-1.5	250	75	75	1.5	1.46	4	4.62
	U250-2.0	250	75	75	2	1.96	4	6.14
	U250-2.5	250	75	75	2.5	2.46	4	7.65
	U250-3	250	75	75	3	2.96	4	9.14
U300	U300-1.5	300	75	75	1.5	1.46	4	5.2
	U300-2.0	300	75	75	2	1.96	4	6.92
	U300-2.5	300	75	75	2.5	2.46	4	8.64
	U300-3	300	75	75	3	2.96	4	10.31
U350	U350-1.5	350	100	100	1.5	1.46	4	6.38
	U350-2.0	350	100	100	2	1.96	4	8.49
	U350-2.5	350	100	100	2.5	2.46	4	10.6
	U350-3	350	100	100	3	2.96	4	12.67
U400	U400-2.0	400	100	100	2	1.96	4	9.28
	U400-2.5	400	100	100	2.5	2.46	4	11.58
	U400-3	400	100	100	3	2.96	4	13.85

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Telefon: +373.795.13.700
 : +373.767.17.799
 Fax : + 373.22.999.560
 E-mail : europanel.group@gmail.com



Caracteristici geometrice ale sectiunii brute - Profile U												
Profil		$A_g(\text{mm}^2)$	$y_G(\text{mm})$	$z_{Gs}(\text{mm})$	$z_{Gi}(\text{mm})$	$I_y(\text{mm}^4)$	$W_{ys}(\text{mm}^3)$	$W_{yi}(\text{mm}^3)$	$I_z(\text{mm}^4)$	$W_{zs}(\text{mm}^3)$	$W_{zi}(\text{mm}^3)$	$I_t(\text{mm}^4)$
U140	U140-1.5	354.67	12.88	70.00	70.00	1,053,813.25	15,054.48	15,054.48	103,286.92	8,021.09	2,452.03	250.45
	U140-2.0	473.75	13.08	70.00	70.00	1,396,299.50	19,947.14	19,947.14	136,758.59	10,458.63	3,262.07	601.63
	U140-2.5	591.61	13.28	70.00	70.00	1,729,621.48	24,708.88	24,708.88	169,300.21	12,753.22	4,057.53	1,181.00
	U140-3	708.27	13.47	70.00	70.00	2,053,916.61	29,341.67	29,341.67	200,935.48	14,913.07	4,838.76	2,042.57
U150	U150-1.5	369.27	12.40	75.00	75.00	1,238,351.79	16,511.36	16,511.36	105,351.73	8,497.86	2,472.90	260.82
	U150-2.0	493.35	12.60	75.00	75.00	1,641,819.94	21,890.93	21,890.93	139,509.63	11,075.38	3,290.04	626.73
	U150-2.5	611.29	12.46	75.00	75.00	2,008,243.92	26,776.59	26,776.59	164,101.18	13,170.89	3,950.38	1,220.70
	U150-3	737.87	12.99	75.00	75.00	2,418,057.36	32,240.76	32,240.76	205,030.65	15,779.54	4,880.92	2,129.02
U180	U180-1.5	413.07	11.16	90.00	90.00	1,905,667.47	21,174.08	21,174.08	110,671.48	9,914.67	2,524.58	291.94
	U180-2.0	552.15	11.36	90.00	90.00	2,530,305.55	28,114.51	28,114.51	146,593.58	12,902.73	3,359.27	702.03
	U180-2.5	687.55	11.41	90.32	89.68	3,121,499.10	34,561.38	34,806.13	176,997.40	15,517.08	4,060.19	1,374.53
	U180-3	826.67	11.76	90.00	90.00	3,737,759.15	41,530.66	41,530.66	215,565.83	18,332.25	4,985.20	2,388.36
U200	U200-1.5	500.67	16.83	100.00	100.00	3,027,877.88	30,278.78	30,278.78	268,950.26	15,975.68	4,623.92	354.19
	U200-2.0	669.75	17.03	100.00	100.00	4,027,456.36	40,274.56	40,274.56	357,442.13	20,984.21	6,166.40	852.62
	U200-2.5	837.61	17.23	100.00	100.00	5,008,295.75	50,082.96	50,082.96	444,145.54	25,773.62	7,688.51	1,677.23
	U200-3	1,004.27	17.43	100.00	100.00	5,970,592.81	59,705.93	59,705.93	529,093.90	30,353.50	9,190.62	2,907.05
U250	U250-1.5	573.67	14.79	125.00	125.00	5,121,264.43	40,970.12	40,970.12	285,446.86	19,302.42	4,740.71	406.06
	U250-2.0	767.75	14.99	125.00	125.00	6,820,933.78	54,567.47	54,567.47	379,451.86	25,318.39	6,322.85	978.11
	U250-2.5	960.61	15.19	125.00	125.00	8,493,348.63	67,946.79	67,946.79	471,603.93	31,054.96	7,884.52	1,925.35
	U250-3	1,152.27	15.38	125.00	125.00	10,138,746.81	81,109.97	81,109.97	561,939.61	36,525.54	9,426.12	3,339.29
U300	U300-1.5	646.67	13.20	150.00	150.00	7,931,734.66	52,878.23	52,878.23	298,221.90	22,586.71	4,825.86	457.92

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Profil		$A_g(\text{mm}^2)$	$y_G(\text{mm})$	$z_{Gs}(\text{mm})$	$z_{Gi}(\text{mm})$	$I_y(\text{mm}^4)$	$W_{ys}(\text{mm}^3)$	$W_{yi}(\text{mm}^3)$	$I_z(\text{mm}^4)$	$W_{zs}(\text{mm}^3)$	$W_{zi}(\text{mm}^3)$	$I_t(\text{mm}^4)$
	U300-2.0	865.75	13.40	150.00	150.00	10,574,095.72	70,493.97	70,493.97	396,485.83	29,579.89	6,436.87	1,103.60
	U300-2.5	1,083.61	13.60	150.00	150.00	13,179,168.60	87,861.12	87,861.12	492,842.85	36,227.18	8,027.31	2,173.46
	U300-3	1,300.27	13.80	150.00	150.00	15,747,232.23	104,981.55	104,981.55	587,332.72	42,546.70	9,597.63	3,771.53
U350	U350-1.5	792.67	18.90	175.00	175.00	13,767,055.10	78,668.89	78,668.89	690,604.85	36,542.23	8,515.35	561.66
	U350-2.0	1,061.75	19.10	175.00	175.00	18,376,521.53	105,008.69	105,008.69	920,315.73	48,188.79	11,375.70	1,354.59
	U350-2.5	1,329.61	19.30	175.00	175.00	22,932,822.37	131,044.70	131,044.70	1,146,641.72	59,419.74	14,208.22	2,669.69
	U350-3	1,596.27	19.50	175.00	175.00	27,436,290.11	156,778.80	156,778.80	1,369,633.13	70,250.59	17,013.31	4,636.01
U400	U400-2.0	1,159.75	17.57	200.00	200.00	25,330,402.49	126,652.01	126,652.01	949,733.82	54,057.93	11,521.54	1,480.08
	U400-2.5	1,452.61	17.77	200.00	200.00	31,626,864.00	158,134.32	158,134.32	1,183,373.32	66,597.02	14,390.87	2,917.81
	U400-3	1,744.27	17.97	200.00	200.00	37,856,838.35	189,284.19	189,284.19	1,413,606.91	78,667.41	17,232.68	5,068.25

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Caracteristici geometrice ale sectiunii efective - profile U										
Compresiune						Incovoiere axa Y				
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)	
U140	U140-1.5	148.53	4.15	69.25	69.25	92.58	45.92	650866.65	7030.33	14173.88
	U140-2.0	257.83	5.46	69.00	69.00	86.50	51.50	1027663.92	11880.09	19955.83
	U140-2.5	390.50	6.70	68.75	68.75	81.72	55.78	1443203.81	17661.23	25871.25
	U140-3	542.53	7.88	68.50	68.50	77.86	59.14	1885444.05	24216.71	31879.49
U150	U150-1.5	149.26	4.13	74.25	74.25	100.49	48.01	768346.11	7645.63	16005.47
	U150-2.0	259.59	5.42	74.00	74.00	94.04	53.96	1216316.17	12933.81	22541.73
	U150-2.5	393.54	6.61	73.75	73.75	88.89	58.61	1710465.11	19241.59	29185.93
	U150-3	548.67	7.79	73.50	73.50	84.80	62.20	2240984.10	26427.84	36026.57
U180	U180-1.5	150.93	4.09	89.25	89.25	124.89	53.61	1190862.14	9535.02	22214.91
	U180-2.0	263.67	5.34	89.00	89.00	117.36	60.64	1897310.50	16166.80	31287.29
	U180-2.5	401.90	6.49	88.80	88.70	111.36	66.14	2682424.91	24088.23	40555.76
	U180-3	562.92	7.59	88.50	88.50	106.37	70.63	3532960.08	33214.23	50019.86
U200	U200-1.5	153.12	4.21	99.25	99.25	141.94	56.56	1526415.64	10753.85	26988.19
	U200-2.0	269.01	5.56	99.00	99.00	133.88	64.12	2455663.95	18342.20	38298.29
	U200-2.5	412.75	6.87	98.75	98.75	127.27	70.23	3505736.30	27545.35	49918.97
	U200-3	581.56	8.12	98.50	98.50	121.74	75.26	4648055.13	38178.80	61763.57
U250	U250-1.5	154.63	4.17	124.25	124.25	184.21	64.29	2592949.15	14076.23	40330.58
	U250-2.0	272.66	5.49	124.00	124.00	174.63	73.37	4196613.24	24031.90	57195.42
	U250-2.5	420.01	6.75	123.75	123.75	166.66	80.84	6026462.99	36160.36	74547.44
	U250-3	594.26	7.95	123.50	123.50	159.92	87.08	8033330.77	50234.41	92249.00

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Compresiune						Incovoiere axa Y				
	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)
U300	U300-1.5	155.63	4.15	149.25	149.25	227.95	70.55	3996612.91	17533.07	56647.11
	U300-2.0	275.09	5.44	149.00	149.00	217.01	80.99	6494158.28	29926.29	80179.88
	U300-2.5	424.83	6.67	148.75	148.75	207.79	89.71	9365052.00	45068.99	104396.83
	U300-3	602.68	7.84	148.50	148.50	199.92	97.08	12533719.72	62693.78	129106.67
U350	U350-1.5	157.26	4.23	174.25	174.25	271.53	76.97	5685641.33	20938.93	73872.63
	U350-2.0	279.07	5.59	174.00	174.00	259.75	88.25	9307066.37	35831.07	105460.70
	U350-2.5	432.73	6.91	173.75	173.75	249.62	97.88	13517954.18	54153.92	138108.81
	U350-3	616.52	8.18	173.50	173.50	240.81	106.19	18214815.64	75640.35	171527.49
U400	U400-2.0	280.37	5.56	199.00	199.00	303.62	94.38	12776655.99	42080.76	135377.86
	U400-2.5	435.30	6.87	198.75	198.75	292.48	105.02	18596148.77	63581.02	177071.72
	U400-3	621.00	8.12	198.50	198.50	282.71	114.29	25114281.98	88832.69	219750.22

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Eforturi capabile - profile U				
Profil		N _{tRd} (kN)	N _{cRd} (kN)	M _{Rd} (kNm)
U140	U140-1.5	124.13	51.99	2.46
	U140-2.0	165.81	90.24	4.16
	U140-2.5	207.06	136.68	6.18
	U140-3	247.89	189.89	8.48
U150	U150-1.5	129.24	52.24	2.68
	U150-2.0	172.67	90.86	4.53
	U150-2.5	213.95	137.74	6.73
	U150-3	258.25	192.03	9.25
U180	U180-1.5	144.57	52.83	3.34
	U180-2.0	193.25	92.29	5.66
	U180-2.5	240.64	140.67	8.43
	U180-3	289.33	197.02	11.62
U200	U200-1.5	175.23	53.59	3.76
	U200-2.0	234.41	94.15	6.42
	U200-2.5	293.16	144.46	9.64
	U200-3	351.49	203.54	13.36
U250	U250-1.5	200.78	54.12	4.93
	U250-2.0	268.71	95.43	8.41
	U250-2.5	336.21	147.00	12.66
	U250-3	403.29	207.99	17.58
U300	U300-1.5	226.33	54.47	6.14
	U300-2.0	303.01	96.28	10.47
	U300-2.5	379.26	148.69	15.77
	U300-3	455.09	210.94	21.94
U350	U350-1.5	277.43	55.04	7.33
	U350-2.0	371.61	97.68	12.54
	U350-2.5	465.36	151.46	18.95
	U350-3	558.69	215.78	26.47
U400	U400-2.0	405.91	98.13	14.73
	U400-2.5	508.41	152.36	22.25
	U400-3	610.49	217.35	31.09