

HOLLOW BAR CHART

EURO-NORM EN10294-1 OVAKO HOLLOW BAR GUARANTEED CLEAN TURNED SIZE*

Euro-Norm Size CTS	Delivered size OD	ID	Approx Kg/Metre	Euro-Norm Size CTS	Delivered size OD	ID	Approx Kg/Metre	Euro-Norm Size CTS	Delivered size OD	ID	Approx Kg/Metre	Euro-Norm Size CTS	Delivered size OD	ID	Approx Kg/Metre
30 / 20	31.0	18.7	4.23	95 / 80	96.6	77.1	20.88	140 / 110	141.9	106.3	54.48	210 / 160	212.5	154.9	130.47
35 / 25	36.0	23.7	5.10	100 / 50	101.6	45.5	50.88	140 / 115		111.6	47.36	210 / 175		170.7	98.76
40 / 20	40.5	19.25	8.16	100 / 55		50.8	47.73	145 / 90	147.0	85.0	88.68	210 / 185	214.1	180.5	85.28
40 / 30	41.0	28.7	5.97	100 / 60		56.0	44.31	145 / 120		116.6	49.41	**	**	212.0	92.0
45 / 25	45.5	24.25	9.54	100 / 65		61.3	40.48	150 / 80	152.0	74.2	108.50	**	**	212.0	125.0
45 / 30	45.5	29.25	7.94	100 / 70		66.5	36.38	150 / 85		79.4	103.58	220 / 140	222.6	133.2	196.11
45 / 35	46.0	33.7	6.84	100 / 75		71.8	31.86	150 / 90		84.7	98.21	220 / 150		143.8	178.01
50 / 25	51.0	24.25	12.82	100 / 80		77.1	26.99	150 / 100		95.2	86.57	220 / 160		154.3	158.71
50 / 30	50.5	29.25	10.92	100 / 85		82.1	22.09	150 / 105		100.5	80.17	220 / 170		164.8	138.05
50 / 35	51.4	32.3	9.86	105 / 55	106.7	50.5	54.47	150 / 110		105.7	73.56	220 / 180		175.3	116.04
50 / 40	51.0	38.7	7.71	105 / 60		54.9	51.61	150 / 120		116.3	59.05	230 / 145	232.7	137.9	216.61
55 / 35	56.4	32.3	13.18	105 / 65		61.0	47.25	150 / 125		121.5	51.43	230 / 155		148.4	198.07
55 / 40		37.3	11.03	105 / 70		66.3	43.09	155 / 90	157.1	84.4	108.25	230 / 170		164.2	167.62
55 / 45		42.3	8.58	105 / 75		69.9	40.07	155 / 100		94.9	96.64	230 / 180		174.8	145.47
60 / 30	61.4	26.8	18.82	105 / 80		76.8	33.83	155 / 125		121.2	61.60	230 / 190	233.0	185.3	123.02
60 / 35		32.0	16.93	105 / 85		82.0	28.74	155 / 130		126.5	53.50	230 / 200	233.6	188.8	116.67
60 / 40		37.3	14.67	105 / 90		87.1	23.42	160 / 85	162.1	78.8	123.72	240 / 175	244.5	162.7	205.36
60 / 45		42.3	12.21	110 / 60	111.7	55.4	58.00	160 / 95		89.4	112.73	240 / 190	242.7	184.7	152.84
62 / 34	63.6	31.1	18.98	110 / 70		66.0	50.07	160 / 100		94.6	106.83	240 / 200		195.2	128.24
62 / 41		39.1	15.51	110 / 75		71.2	45.67	160 / 105		99.9	100.47	250 / 140	252.9	124.3	299.05
62 / 51		48.9	10.20	110 / 80		76.5	40.84	160 / 110		105.2	93.77	250 / 150		135.3	281.44
65 / 35	66.4	31.7	20.99	110 / 85		81.8	35.67	160 / 115		110.4	86.86	250 / 160		146.5	261.99
65 / 40		37.0	18.74	110 / 90		87.0	30.26	160 / 120		115.7	79.47	250 / 170		157.7	240.99
65 / 45		42.3	16.15	110 / 95		92.1	24.63	160 / 125		120.9	71.89	250 / 180		168.7	218.55
65 / 50		47.3	13.39	111 / 66	112.7	61.9	54.69	160 / 130		126.2	63.81	250 / 190		179.9	194.78
70 / 35	71.4	31.5	25.31	115 / 60	116.7	55.1	65.25	160 / 135		131.5	55.39	250 / 200		190.9	169.63
70 / 38	71.6	35.0	24.05	115 / 65		60.4	61.47	165 / 100	167.1	94.3	117.33	250 / 220	254.0	211.8	121.20
70 / 40	71.4	36.7	23.13	115 / 70		65.7	57.35	165 / 110		104.9	104.31				
70 / 45	71.4	42.0	20.56	115 / 80		76.2	48.17	165 / 120		115.4	90.05				
70 / 47	71.6	44.0	19.67	115 / 90		86.7	37.62	165 / 130		125.9	74.43				
70 / 50	71.4	47.2	17.70	115 / 95		92.0	31.78	170 / 95	172.2	88.8	134.20				
70 / 55	71.4	52.3	14.57	117 / 66	118.8	61.9	63.39	170 / 105		99.3	122.03				
70 / 57	71.6	54.8	13.09	117 / 74		69.9	56.89	170 / 110		104.6	115.36				
72 / 46	74.0	43.0	22.36	117 / 82		78.9	48.63	170 / 115		109.8	106.49				
75 / 40	76.4	36.4	27.82	**	118.6	50.0	71.30	170 / 120		115.1	101.14				
75 / 45	41.7	25.27		120 / 65	121.8	60.1	69.20	170 / 125		120.4	93.45				
75 / 50	47.0	22.37		120 / 70		65.4	65.09	170 / 130		125.6	85.56				
75 / 55	52.2	19.19		120 / 80		75.9	55.95	170 / 135		130.9	77.18				
75 / 60	57.2	15.81		120 / 90		86.4	45.44	170 / 140		136.1	68.62				
80 / 40	81.5	36.1	32.92	120 / 100		97.0	33.45	170 / 145		141.4	59.55				
80 / 45		41.4	30.38	125 / 75	126.8	70.4	68.57	180 / 105	182.3	98.7	144.84				
80 / 50		46.7	27.51	125 / 85		80.9	58.78	180 / 120		114.5	124.07				
80 / 55		51.9	24.34	125 / 95		91.4	47.62	180 / 130		125.0	108.56				
80 / 60		57.2	20.78	125 / 100		96.7	41.48	180 / 140		135.6	91.53				
80 / 65		62.2	17.10	125 / 105		101.9	35.11	180 / 145		140.8	82.67				
84 / 47	85.7	44.0	33.54	125 / 110		105.7	30.25	180 / 150		146.1	73.29				
84 / 52		48.9	30.54	130 / 70	131.9	64.8	81.37	180 / 155		151.4	63.57				
85 / 45	86.5	41.1	35.72	130 / 75		70.1	76.97	180 / 160		153.6	59.44				
85 / 50		46.4	32.86	130 / 80		75.3	72.30	**	180.9	70.0	171.60				
85 / 55		51.6	29.72	130 / 85		80.6	67.21	190 / 130	192.3	124.5	132.43				
85 / 60		56.9	26.17	130 / 90		85.8	61.88	190 / 140		135.0	115.63				
85 / 65		62.2	22.28	130 / 95		91.1	56.10	190 / 145		140.2	106.80				
85 / 70		67.2	18.29	130 / 100		96.4	49.67	190 / 150		145.5	97.47				
89 / 52	90.7	49.0	35.92	130 / 105		101.6	43.62	190 / 160		156.0	77.95				
90 / 50	91.5	46.1	38.52	130 / 110		106.9	36.81	190 / 165		161.3	67.58				
90 / 55		51.3	35.39	**	132.7	55.0	90.00	200 / 135	202.4	129.1	149.81				
90 / 60		56.6	31.87	135 / 80	136.9	75.0	80.87	200 / 140		134.4	141.20				
90 / 65		61.9	27.99	135 / 90		85.6	70.37	200 / 150		144.9	123.12				
90 / 70		67.1	23.86	135 / 100		96.1	58.61	200 / 160		155.5	103.49				
90 / 75		72.2	19.48	135 / 110		106.6	45.49	200 / 170		166.0	82.68				
94 / 53	95.8	49.0	41.78	139 / 84	140.9	78.9	84.02	200 / 180	203.2	173.2	69.80				
95 / 50	96.6	45.8	44.80	140 / 75	141.9	69.5	94.36	210 / 130	212.5	123.3	184.67				
95 / 55		51.0	41.50	140 / 80		74.7	89.74	210 / 135		128.6	176.44				
95 / 60		56.3	37.99	140 / 90		85.3	79.28	210 / 140		133.8	168.03				
95 / 65		61.6	34.14	140 / 95		90.5	73.65	210 / 145		139.1	159.11				
95 / 70		66.8	30.02	140 / 100		95.8	67.56	210 / 150		144.3	150.03				
95 / 75		72.1	25.48	140 / 105		101.1	61.13	210 / 155		149.6	140.42				

20MnV6 HOLLOW BAR

Nominal size delivered	Approx Kg/Metre	Nominal size delivered	Approx Kg/Metre
254 / 154	266.00	356 / 276	319.00
254 / 174	220.00	356 / 286	292.00
254 / 182	205.00	356 / 296	248.00
254 / 204	145.00	356 / 306	210.00
267 / 187	230.00	368 / 248	467.00
273 / 173	283.00	368 / 258	437.00
273 / 183	268.00	368 / 268	403.00
273 / 193	237.00	371 / 301	307.00
273 / 201	223.00	406 / 286	527.00
273 / 209	208.00	406 / 306	451.00
273 / 213	185.00	406 / 316	420.00
273 / 223	158.00	406 / 326	371.00
273 / 248	85.00	406 / 346	286.00
292 / 165	368.00	406 / 356	242.00
295 / 250	160.00	419 / 279	619.00
298 / 198	315.00	419 / 299	547.00
298 / 218	262.00	419 / 309	508.00
298 / 238	205.00	419 / 319	467.00
298 / 242	197.00	430 / 310	564.00
298 / 248	174.00	457 / 317	686.00
298 / 258	141.00	457 / 327	545.00
318 / 255	243.00	457 / 357	516.00
323 / 223	346.00	457 / 377	422.00
323 / 243	287.00	457 / 407	274.00
323 / 263	224.00	508 / 368	776.00
324 / 224	348.00	508 / 388	682.00
324 / 244	288.00	508 / 408	581.00
324 / 264	224.00	510 / 410	583.00
324 / 274	189.00	557 / 434	773.00
340 / 215	440.00	585 / 401	1148.00
356 / 236	449.00	610 / 490	835.00
356 / 256	388.00	610 / 510	710.00

CHEMISTRY

	C%	Si%	Mn%	P%	S%	Cr%	Ni%	Mo%	Cu%	V%	Ca ppm	Ti ppm	O2 ppm	N ppm
OVAKO 280 COLD ROLLED	0.17	0.30	1.45	-	0.020	0.20	-	-	-	0.08	-	-	-	70
OVAKO 280 HOT ROLLED	0.20	0.45	1.60	0.03	0.035	0.30	0.30	0.10	0.30	0.12	15	30	15	150
20 Mn V6 HOT ROLLED	0.16	0.10	1.30	-	0.020	-	-	-	-	0.08	-	-	-	-
	0.22	0.35	1.60	0.03	0.040	0.30	0							