

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-002

### Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego  
Element : Ściany poz. P0 w osiach 13-16/P"-Y  
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A  
Rys nr : K-002  
Data : 27.02.2008

### WYKAZ STALI ZBROJENIOWEJ klasa stali: BST 500 SA

Poz.	Nr	d	Długość	całk.dł	masa(kg)
1	4	14	5.20	20.80	25.168
2	40	12	4.80	192.00	170.496
3	23	12	4.80	110.40	98.035
4	40	12	4.50	180.00	159.840
5	19	12	4.50	85.50	75.924
6	88	12	4.90	431.20	382.906
7	46	12	4.90	225.40	200.155
8	16	14	5.30	84.80	102.608
9	54	12	4.20	226.80	201.398
10	50	12	3.90	195.00	173.160
11	15	10	1.36	20.40	12.587
12	20	12	1.40	28.00	24.864
13	96	12	1.40	134.40	119.347
14	8	14	3.40	27.20	32.912
15	4	16	12.00	48.00	75.840
16	4	16	7.60	30.40	48.032
17	80	10	3.10	248.00	153.016
18	4	10	1.80	7.20	4.442
19	137	10	1.60	219.20	135.246
20	49	10	7.10	347.90	214.654
21	30	10	3.53	105.90	65.340
22	4	10	4.50	18.00	11.106
23	2	10	2.90	5.80	3.579
24	48	10	2.00	96.00	59.232
25	50	10	5.80	290.00	178.930
26	4	10	3.50	14.00	8.638
27	5	14	2.60	13.00	15.730
28	56	10	1.30	72.80	44.918
29	6	10	1.10	6.60	4.072
30	2	10	1.30	2.60	1.604
31	21	12	4.60	96.60	85.781
32	21	12	4.60	96.60	85.781
33	2	12	3.10	6.20	5.506
34	12	12	3.00	36.00	31.968
35	7	12	4.80	33.60	29.837
36	7	12	4.50	31.50	27.972
37	4	14	3.30	13.20	15.972
38	8	16	6.10	48.80	77.104
39	4	16	4.60	18.40	29.072
40	4	10	3.75	15.00	9.255
41	12	10	3.70	44.40	27.395
42	2	10	6.00	12.00	7.404
43	2	10	5.00	10.00	6.170
44	23	10	1.30	29.90	18.448
45	6	10	1.80	10.80	6.664
46	14	12	2.10	29.40	26.107
47	7	12	1.40	9.80	8.702
48	10	10	1.30	13.00	8.021
49	4	16	5.70	22.80	36.024
50	26	10	4.30	111.80	68.981
51	15	10	1.06	15.90	9.810
52	27	10	1.60	43.20	26.654
53	2	10	1.40	2.80	1.728
54	5	14	2.20	11.00	13.310
55	16	12	3.80	60.80	53.990
56	16	12	3.50	56.00	49.728
57	2	12	4.40	8.80	7.814
58	8	14	1.90	15.20	18.392
59	8	16	1.80	14.40	22.752
60	4	16	3.90	15.60	24.648
61	54	10	4.10	221.40	136.604
62	6	10	1.70	10.20	6.293

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**WYKAZ STALI ZBROJENIOWEJ klasa stali: BST 500 SA**

Poz.	Nr	d	Długość	całk.dł	masa(kg)
63	4	14	2.90	11.60	14.036
64	4	14	2.60	10.40	12.584
65	4	14	2.20	8.80	10.648
66	105	10	1.70	178.50	110.134
67	7	10	1.50	10.50	6.478
68	8	16	9.80	78.40	123.872
69	2	14	2.10	4.20	5.082
70	8	14	4.10	32.80	39.688
71	17	10	1.20	20.40	12.587
72	2	14	3.44	6.88	8.325
73	356	6	0.27	96.12	21.339
74	37	6	0.25	9.25	2.054

**Całk. ilość stali**

d(mm)	całk.dł	kg/m	masa(kg)
6	105.37	0.222	23.392
10	2204.20	0.617	1359.991
12	2274.00	0.888	2019.312
14	259.88	1.210	314.455
16	276.80	1.580	437.344
masa całk. (kg)			4154.494

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### ZESTAWIENIE SIATEK ZBROJENIOWYCH Klasa stali: BST 500 MA

Poz.	szt.	typ	Długość	Szerokość	Pow.	Masa(kg)
1	2	Q513A	3.86	1.42	10.96	76.518
2	12	Q513A	3.86	2.15	99.59	695.124
3	2	Q513A	2.19	1.20	5.26	36.687
5	1	Q513A	1.60	0.85	1.36	9.493
6	1	Q513A	1.60	2.15	3.44	24.011
7	2	Q513A	3.06	2.15	13.16	91.843
8	2	Q513A	2.67	2.15	11.48	80.137
9	2	Q513A	2.67	0.92	4.91	34.291

### Całk. ilość stali

typ	Pow.(m2)	kg/m2	Masa(kg)
Q513A	150.16	6.980	1048.104

Masa całkow. net (kg) 1048.104

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### ELEMENTY DO WBUDOWANIA

pręt nr:	ilość	jednostka	opis	materiał	Bestellnummer
1	8	mb	HBT150-Ř12/15,Typ5	BSt500S	
2	2	mb	HBT150-Ř10/15,Typ5	BSt500S	
3	1	mb	HBT120-Ř10/15,Typ5	BSt500S	

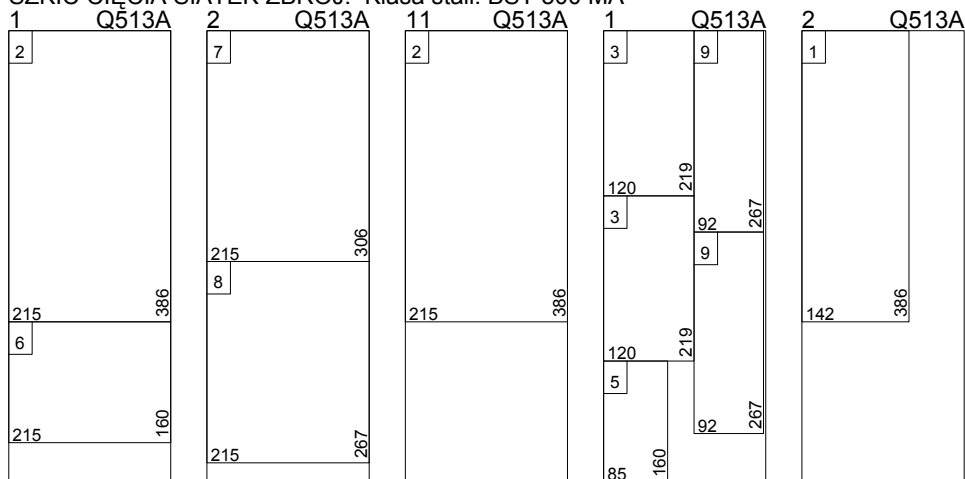
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SZKIC CIĘCIA SIATEK ZBROJ. Klasa stali: BST 500 MA



Całkowita ilość brutto

szt.	typ	Długość m	Szerokość m	Masa kg
17	Q513A	6.00	2.15	1530.714
Całk. masa brutto (kg)				1530.714

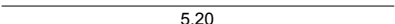
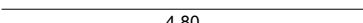
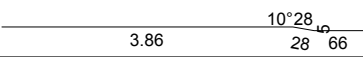
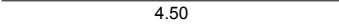
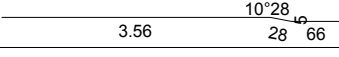
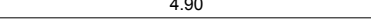
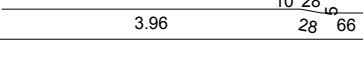
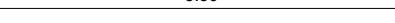
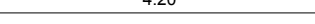
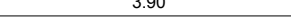
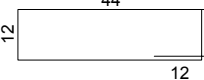
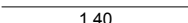
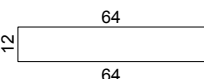
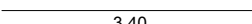
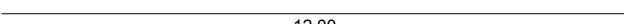
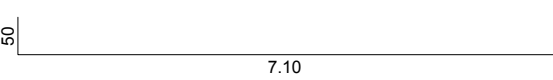
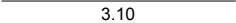
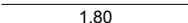
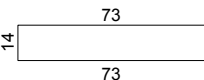
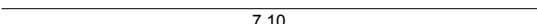
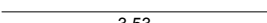
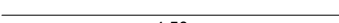



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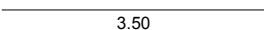
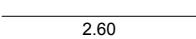
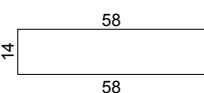
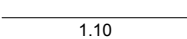
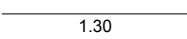
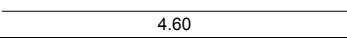
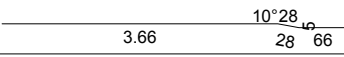
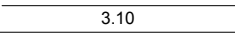
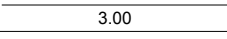
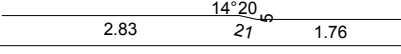
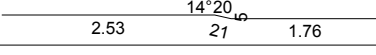
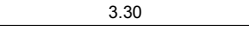
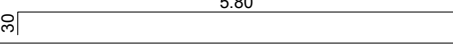
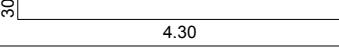
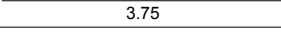
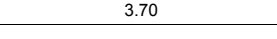
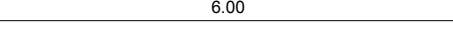
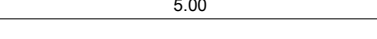
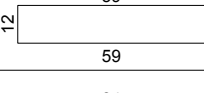
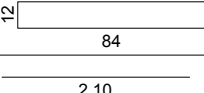
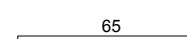

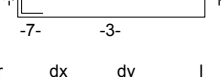
#### WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbz ds	typ	forma gięcia	suma dł.	ciężar kg
1	4	14	5.20		A1		20.80	25.168
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3	23	12	4.80		C2		110.40	98.035
4	40	12	4.50		A1		180.00	159.840
5	19	12	4.50		C2		85.50	75.924
6	88	12	4.90		A1		431.20	382.906
7	46	12	4.90		C2		225.40	200.155
8	16	14	5.30		A1		84.80	102.608
9	54	12	4.20		A1		226.80	201.398
10	50	12	3.90		A1		195.00	173.160
11	15	10	1.36		B2		20.40	12.587
12	20	12	1.40		A1		28.00	24.864
13	96	12	1.40		A3		134.40	119.347
14	8	14	3.40		A1		27.20	32.912
15	4	16	12.00		A1		48.00	75.840
16	4	16	7.60		A2		30.40	48.032
17	80	10	3.10		A1		248.00	153.016
18	4	10	1.80		A1		7.20	4.442
19	137	10	1.60		A3		219.20	135.246
20	49	10	7.10		A1		347.90	214.654
21	30	10	3.53		A1		105.90	65.340
22	4	10	4.50		A1		18.00	11.106
23	2	10	2.90		A1		5.80	3.579
24	48	10	2.00		A1		96.00	59.232
25	50	10	5.80		A1		290.00	178.930

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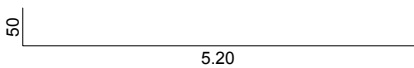
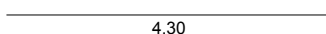
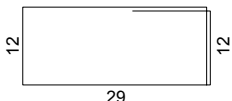
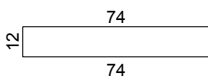
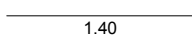
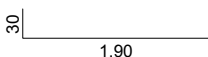
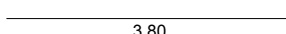
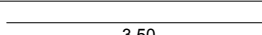
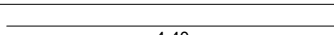
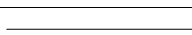
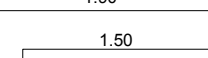
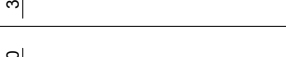
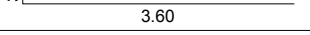
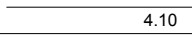
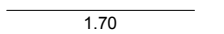
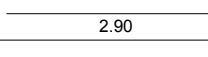
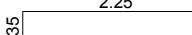
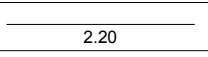
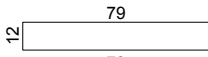

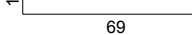

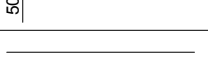
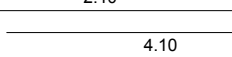
## WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg																																								
26	4	10	3.50		A1		14.00	8.638																																								
27	5	14	2.60		A1		13.00	15.730																																								
28	56	10	1.30		A3		72.80	44.918																																								
29	6	10	1.10		A1		6.60	4.072																																								
30	2	10	1.30		A1		2.60	1.604																																								
31	21	12	4.60		A1		96.60	85.781																																								
32	21	12	4.60		C2		96.60	85.781																																								
33	2	12	3.10		A1		6.20	5.506																																								
34	12	12	3.00		A1		36.00	31.968																																								
35	7	12	4.80		C2		33.60	29.837																																								
36	7	12	4.50		C2		31.50	27.972																																								
37	4	14	3.30		A1		13.20	15.972																																								
38	8	16	6.10		A2		48.80	77.104																																								
39	4	16	4.60		A2		18.40	29.072																																								
40	4	10	3.75		A1		15.00	9.255																																								
41	12	10	3.70		A1		44.40	27.395																																								
42	2	10	6.00		A1		12.00	7.404																																								
43	2	10	5.00		A1		10.00	6.170																																								
44	23	10	1.30		A3		29.90	18.448																																								
45	6	10	1.80		A3		10.80	6.664																																								
46	14	12	2.10		A1		29.40	26.107																																								
47	7	12	1.40		A3		9.80	8.702																																								
48	10	10	1.30		X1	 <table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>&gt;°</td></tr><tr><td>1</td><td>-0.06</td><td>0.00</td><td>0.06</td><td>90</td></tr><tr><td>2</td><td>0.00</td><td>-0.10</td><td>0.10</td><td>90</td></tr><tr><td>3</td><td>0.44</td><td>0.00</td><td>0.44</td><td>90</td></tr><tr><td>4</td><td>0.00</td><td>0.10</td><td>0.10</td><td>90</td></tr><tr><td>5</td><td>-0.44</td><td>0.00</td><td>0.44</td><td>90</td></tr><tr><td>6</td><td>0.00</td><td>-0.10</td><td>0.10</td><td>90</td></tr><tr><td>7</td><td>0.06</td><td>0.00</td><td>0.06</td><td></td></tr></table>	Nr	dx	dy	l	>°	1	-0.06	0.00	0.06	90	2	0.00	-0.10	0.10	90	3	0.44	0.00	0.44	90	4	0.00	0.10	0.10	90	5	-0.44	0.00	0.44	90	6	0.00	-0.10	0.10	90	7	0.06	0.00	0.06		13.00	8.021
Nr	dx	dy	l	>°																																												
1	-0.06	0.00	0.06	90																																												
2	0.00	-0.10	0.10	90																																												
3	0.44	0.00	0.44	90																																												
4	0.00	0.10	0.10	90																																												
5	-0.44	0.00	0.44	90																																												
6	0.00	-0.10	0.10	90																																												
7	0.06	0.00	0.06																																													

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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## WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

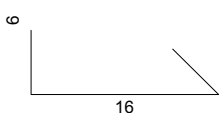

Poz.	szt.	d	długość	db ds	typ	forma gięcia	suma dł.	ciężar kg
49	4	16	5.70		A2		22.80	36.024
50	26	10	4.30		A1		111.80	68.981
51	15	10	1.06		B2	 kąt 0 stopni	15.90	9.810
52	27	10	1.60		A3		43.20	26.654
53	2	10	1.40		A1		2.80	1.728
54	5	14	2.20		A2		11.00	13.310
55	16	12	3.80		A1		60.80	53.990
56	16	12	3.50		A1		56.00	49.728
57	2	12	4.40		A1		8.80	7.814
58	8	14	1.90		A1		15.20	18.392
59	8	16	1.80		A2		14.40	22.752
60	4	16	3.90		A2		15.60	24.648
61	54	10	4.10		A1		221.40	136.604
62	6	10	1.70		A1		10.20	6.293
63	4	14	2.90		A1		11.60	14.036
64	4	14	2.60		A2		10.40	12.584
65	4	14	2.20		A1		8.80	10.648
66	105	10	1.70		A3		178.50	110.134
67	7	10	1.50		A3		10.50	6.478
68	8	16	9.80		A2		78.40	123.872
69	2	14	2.10		A1		4.20	5.082
70	8	14	4.10		A1		32.80	39.688
71	17	10	1.20		A3		20.40	12.587
72	2	14	3.44		A3		6.88	8.325



Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg
73	356	6	0.27		D1		96.12	21.339
74	37	6	0.25		D1		9.25	2.054

masa całkowita (kg) 4154.494