

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-006

### Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego  
Element : Ściany poz. P0 w osiach 14-16/A  
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A  
Rys nr : K-006  
Data : 27.02.2008

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

Poz.	Nr	d	Długość	całk.dł	masa(kg)	
1	8	14	4.10	32.80	39.688	
2	4	14	4.20	16.80	20.328	
3	14	12	4.10	57.40	50.971	
4	64	12	4.20	268.80	238.694	
5	64	12	3.90	249.60	221.645	
6	44	10	1.10	48.40	29.863	
7	157	12	1.40	219.80	195.182	
8	66	12	1.40	92.40	82.051	
9	14	14	3.40	47.60	57.596	
10	2	14	3.40	6.80	8.228	
11	6	10	0.84	5.04	3.110	
12	4	16	12.00	48.00	75.840	
13	4	16	7.00	28.00	44.240	
14	50	10	3.20	160.00	98.720	
15	2	10	2.20	4.40	2.715	
16	11	10	7.10	78.10	48.188	
17	30	10	1.90	57.00	35.169	
18	125	10	1.30	162.50	100.262	
19	52	10	1.40	72.80	44.918	
20	4	10	5.00	20.00	12.340	
21	11	10	5.80	63.80	39.365	
22	30	10	1.60	48.00	29.616	
23	4	10	3.70	14.80	9.132	
24	5	14	4.90	24.50	29.645	
25	12	14	2.30	27.60	33.396	
26	17	10	1.40	23.80	14.685	
27	2	14	2.40	4.80	5.808	
28	2	14	3.70	7.40	8.954	
29	2	14	3.70	7.40	8.954	
30	78	10	2.09	163.02	100.583	średnio
31	42	10	3.93	165.06	101.842	średnio
32	53	10	1.40	74.20	45.781	
33	136	12	3.60	489.60	434.765	
34	6	14	3.60	21.60	26.136	
35	4	14	7.10	28.40	34.364	
36	119	12	1.50	178.50	158.508	
37	38	10	11.70	444.60	274.318	
38	95	10	1.80	171.00	105.507	
39	2	10	2.00	4.00	2.468	
40	2	10	3.30	6.60	4.072	
41	2	10	1.50	3.00	1.851	
42	15	12	3.30	49.50	43.956	
43	2	14	2.30	4.60	5.566	
44	2	14	4.80	9.60	11.616	
45	72	10	5.50	396.00	244.332	
46	4	10	4.10	16.40	10.119	
47	4	14	3.90	15.60	18.876	
48	4	14	2.90	11.60	14.036	
49	4	14	2.60	10.40	12.584	
50	8	16	9.40	75.20	118.816	
51	105	10	1.60	168.00	103.656	
52	115	10	1.70	195.50	120.623	
53	2	10	1.80	3.60	2.221	
54	4	16	3.90	15.60	24.648	
55	2	10	2.80	5.60	3.455	
56	3	14	2.10	6.30	7.623	
57	4	14	3.30	13.20	15.972	
58	7	10	1.26	8.82	5.442	
59	15	10	1.02	15.30	9.440	
60	4	14	2.80	11.20	13.552	
61	4	14	2.20	8.80	10.648	
62	2	14	3.44	6.88	8.325	

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

Poz.	Nr	d	Długość	całk.dł	masa(kg)
63	2	10	1.30	2.60	1.604
64	257	6	0.27	69.39	15.405
65	165	6	0.32	52.80	11.722

**Całk. ilość stali**

d(mm)	całk.dł	kg/m	masa(kg)
6	122.19	0.222	27.126
10	2601.94	0.617	1605.397
12	1605.60	0.888	1425.773
14	323.88	1.210	391.895
16	166.80	1.580	263.544
masa całk. (kg)			3713.735

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

Poz.	szt.	typ	Długość	Szerokość	Pow.	Masa(kg)
1	4	Q513A	2.67	2.15	22.96	160.275
2	16	Q513A	3.86	2.15	132.78	926.832
3	2	Q513A	3.86	1.52	11.73	81.906
4	2	Q513A	3.86	0.85	6.56	45.803
5	1	Q513A	1.60	0.85	1.36	9.493
6	1	Q513A	1.60	2.15	3.44	24.011

### Całk. ilość stali

typ	Pow.(m2)	kg/m2	Masa(kg)
Q513A	178.84	6.980	1248.320

Masa całkow. net (kg) 1248.320

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**ELEMENTY DO WBUDOWANIA**

pręt nr:	ilość	jednostka	opis	materiał	Bestellnummer
1	11	mb	HBT120-Ř10/15,Typ5	BSt500S	
2	2	mb	HBT150-Ř10/15,Typ5	BSt500S	

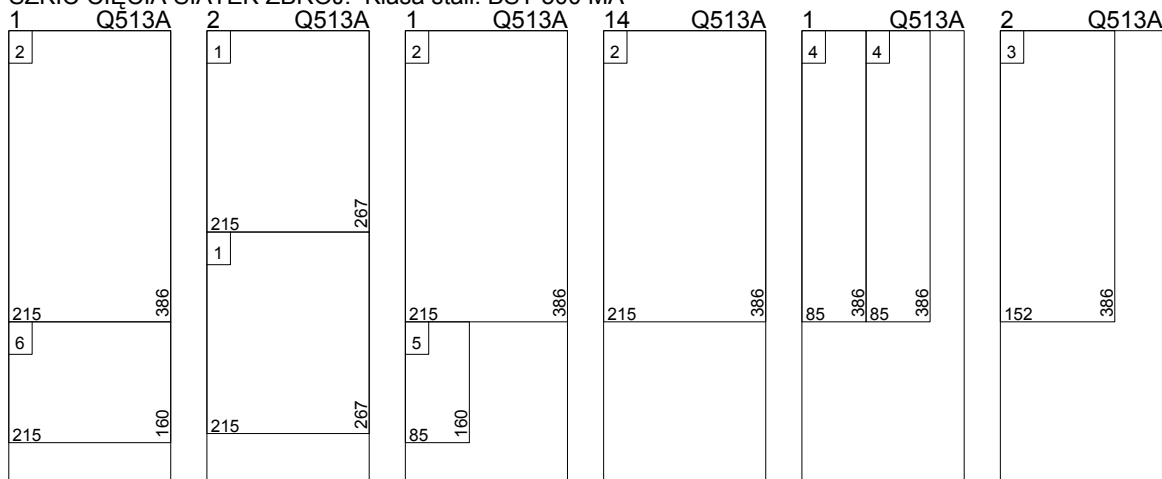
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SZKIC CIĘCIA SIATEK ZBROJ. Klasa stali: BST 500 MA



Całkowita ilość brutto

szt.	typ	Długość m	Szerokość m	Masa kg
21	Q513A	6.00	2.15	1890.882
Całk. masa brutto (kg)				1890.882

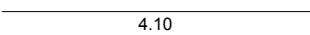
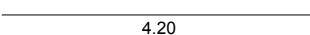
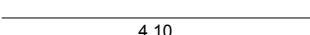
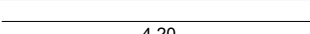
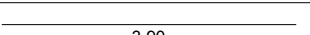
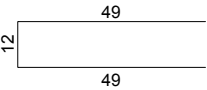
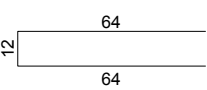
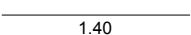
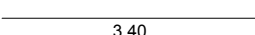
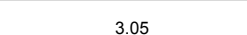
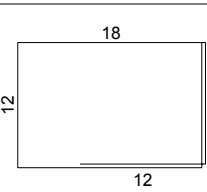
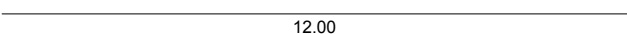
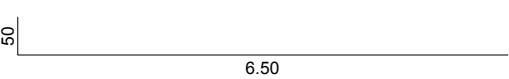
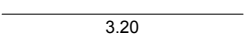
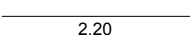
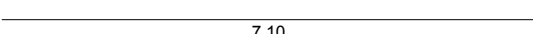
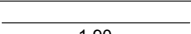
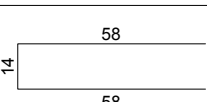
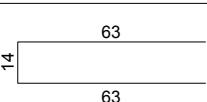
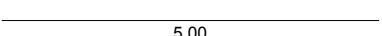
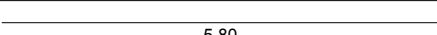
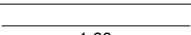
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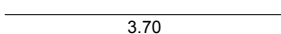
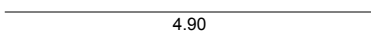
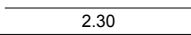
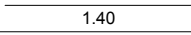
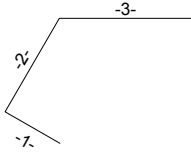
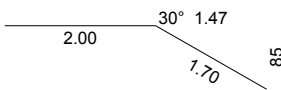
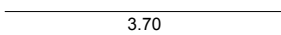
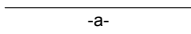
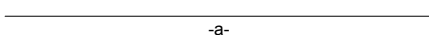
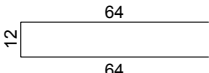
#### WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg
1	8	14	4.10		A1		32.80	39.688
2	4	14	4.20		A1		16.80	20.328
3	14	12	4.10		A1		57.40	50.971
4	64	12	4.20		A1		268.80	238.694
5	64	12	3.90		A1		249.60	221.645
6	44	10	1.10		A3		48.40	29.863
7	157	12	1.40		A3		219.80	195.182
8	66	12	1.40		A1		92.40	82.051
9	14	14	3.40		A1		47.60	57.596
10	2	14	3.40		A2		6.80	8.228
11	6	10	0.84		B2		5.04	3.110
12	4	16	12.00		A1		48.00	75.840
13	4	16	7.00		A2		28.00	44.240
14	50	10	3.20		A1		160.00	98.720
15	2	10	2.20		A1		4.40	2.715
16	11	10	7.10		A1		78.10	48.188
17	30	10	1.90		A1		57.00	35.169
18	125	10	1.30		A3		162.50	100.262
19	52	10	1.40		A3		72.80	44.918
20	4	10	5.00		A1		20.00	12.340
21	11	10	5.80		A1		63.80	39.365
22	30	10	1.60		A1		48.00	29.616

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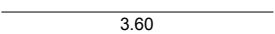
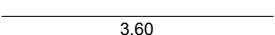
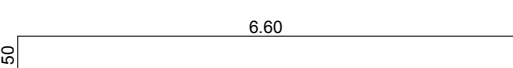
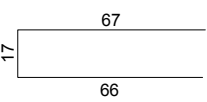
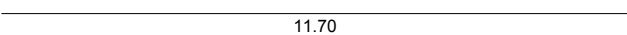
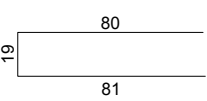
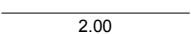
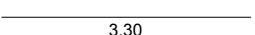
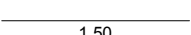
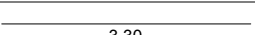
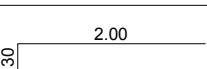
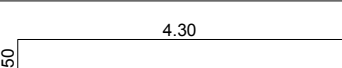

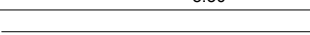
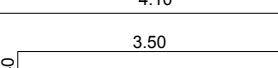

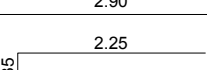
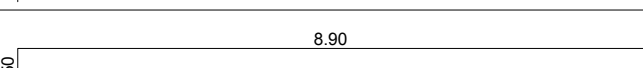
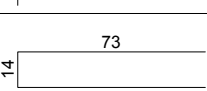
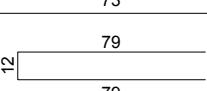
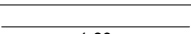
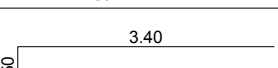

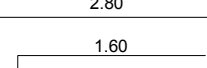
## WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg																																																																																																																																
23	4	10	3.70		A1		14.80	9.132																																																																																																																																
24	5	14	4.90		A1		24.50	29.645																																																																																																																																
25	12	14	2.30		A1		27.60	33.396																																																																																																																																
26	17	10	1.40		A1		23.80	14.685																																																																																																																																
27	2	14	2.40		X1	 <table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>α°</td></tr><tr><td>1</td><td>-0.43</td><td>0.25</td><td>0.50</td><td>-90</td></tr><tr><td>2</td><td>0.42</td><td>0.74</td><td>0.85</td><td>-60</td></tr><tr><td>3</td><td>1.05</td><td>0.00</td><td>1.05</td><td></td></tr></table>	Nr	dx	dy	l	α°	1	-0.43	0.25	0.50	-90	2	0.42	0.74	0.85	-60	3	1.05	0.00	1.05		4.80	5.808																																																																																																												
Nr	dx	dy	l	α°																																																																																																																																				
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3	1.05	0.00	1.05																																																																																																																																					
28	2	14	3.70		C1		7.40	8.954																																																																																																																																
29	2	14	3.70		A1		7.40	8.954																																																																																																																																
30	78	10	2.09		A1	 <table><tr><th>Poz.</th><th>ilość</th><th>dług.</th><th>-a-</th></tr><tr><td>1</td><td>2</td><td>0.88</td><td>0.88</td></tr><tr><td>2</td><td>2</td><td>0.97</td><td>0.97</td></tr><tr><td>3</td><td>2</td><td>1.05</td><td>1.05</td></tr><tr><td>4</td><td>2</td><td>1.14</td><td>1.14</td></tr><tr><td>5</td><td>2</td><td>1.22</td><td>1.22</td></tr><tr><td>6</td><td>2</td><td>1.31</td><td>1.31</td></tr><tr><td>7</td><td>2</td><td>1.39</td><td>1.39</td></tr><tr><td>8</td><td>2</td><td>1.48</td><td>1.48</td></tr><tr><td>9</td><td>2</td><td>1.56</td><td>1.56</td></tr><tr><td>10</td><td>2</td><td>1.65</td><td>1.65</td></tr><tr><td>11</td><td>2</td><td>1.73</td><td>1.73</td></tr><tr><td>12</td><td>2</td><td>1.82</td><td>1.82</td></tr><tr><td>13</td><td>18</td><td>1.88</td><td>1.88</td></tr><tr><td>14</td><td>2</td><td>1.98</td><td>1.98</td></tr><tr><td>15</td><td>2</td><td>2.06</td><td>2.06</td></tr><tr><td>16</td><td>2</td><td>2.14</td><td>2.14</td></tr><tr><td>17</td><td>2</td><td>2.23</td><td>2.23</td></tr><tr><td>18</td><td>2</td><td>2.31</td><td>2.31</td></tr><tr><td>19</td><td>2</td><td>2.40</td><td>2.40</td></tr><tr><td>20</td><td>2</td><td>2.48</td><td>2.48</td></tr><tr><td>21</td><td>2</td><td>2.57</td><td>2.57</td></tr><tr><td>22</td><td>2</td><td>2.65</td><td>2.65</td></tr><tr><td>23</td><td>2</td><td>2.74</td><td>2.74</td></tr><tr><td>24</td><td>2</td><td>2.82</td><td>2.82</td></tr><tr><td>25</td><td>2</td><td>2.91</td><td>2.91</td></tr><tr><td>26</td><td>2</td><td>2.99</td><td>2.99</td></tr><tr><td>27</td><td>2</td><td>3.08</td><td>3.08</td></tr><tr><td>28</td><td>2</td><td>3.16</td><td>3.16</td></tr><tr><td>29</td><td>2</td><td>3.25</td><td>3.25</td></tr><tr><td>30</td><td>2</td><td>3.33</td><td>3.33</td></tr><tr><td>31</td><td>2</td><td>3.41</td><td>3.41</td></tr></table>	Poz.	ilość	dług.	-a-	1	2	0.88	0.88	2	2	0.97	0.97	3	2	1.05	1.05	4	2	1.14	1.14	5	2	1.22	1.22	6	2	1.31	1.31	7	2	1.39	1.39	8	2	1.48	1.48	9	2	1.56	1.56	10	2	1.65	1.65	11	2	1.73	1.73	12	2	1.82	1.82	13	18	1.88	1.88	14	2	1.98	1.98	15	2	2.06	2.06	16	2	2.14	2.14	17	2	2.23	2.23	18	2	2.31	2.31	19	2	2.40	2.40	20	2	2.48	2.48	21	2	2.57	2.57	22	2	2.65	2.65	23	2	2.74	2.74	24	2	2.82	2.82	25	2	2.91	2.91	26	2	2.99	2.99	27	2	3.08	3.08	28	2	3.16	3.16	29	2	3.25	3.25	30	2	3.33	3.33	31	2	3.41	3.41	163.02	100.583
Poz.	ilość	dług.	-a-																																																																																																																																					
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31	2	3.41	3.41																																																																																																																																					
31	42	10	3.93		A1	 <table><tr><th>Poz.</th><th>ilość</th><th>dług.</th><th>-a-</th></tr><tr><td>1</td><td>12</td><td>5.70</td><td>5.70</td></tr><tr><td>2</td><td>2</td><td>5.62</td><td>5.62</td></tr><tr><td>3</td><td>2</td><td>5.37</td><td>5.37</td></tr><tr><td>4</td><td>2</td><td>5.12</td><td>5.12</td></tr><tr><td>5</td><td>2</td><td>4.87</td><td>4.87</td></tr><tr><td>6</td><td>2</td><td>4.61</td><td>4.61</td></tr><tr><td>7</td><td>2</td><td>4.36</td><td>4.36</td></tr><tr><td>8</td><td>2</td><td>4.11</td><td>4.11</td></tr><tr><td>9</td><td>2</td><td>2.66</td><td>2.66</td></tr><tr><td>10</td><td>2</td><td>2.41</td><td>2.41</td></tr><tr><td>11</td><td>2</td><td>2.16</td><td>2.16</td></tr><tr><td>12</td><td>2</td><td>1.91</td><td>1.91</td></tr><tr><td>13</td><td>2</td><td>1.65</td><td>1.65</td></tr><tr><td>14</td><td>2</td><td>1.40</td><td>1.40</td></tr><tr><td>15</td><td>2</td><td>1.15</td><td>1.15</td></tr><tr><td>16</td><td>2</td><td>0.90</td><td>0.90</td></tr></table>	Poz.	ilość	dług.	-a-	1	12	5.70	5.70	2	2	5.62	5.62	3	2	5.37	5.37	4	2	5.12	5.12	5	2	4.87	4.87	6	2	4.61	4.61	7	2	4.36	4.36	8	2	4.11	4.11	9	2	2.66	2.66	10	2	2.41	2.41	11	2	2.16	2.16	12	2	1.91	1.91	13	2	1.65	1.65	14	2	1.40	1.40	15	2	1.15	1.15	16	2	0.90	0.90	165.06	101.842																																																												
Poz.	ilość	dług.	-a-																																																																																																																																					
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16	2	0.90	0.90																																																																																																																																					
32	53	10	1.40		A3		74.20	45.781																																																																																																																																

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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

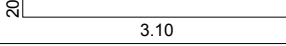
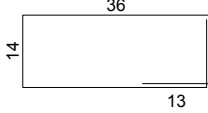
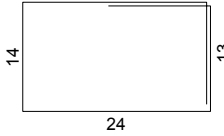
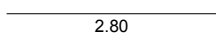
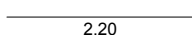
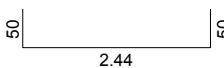
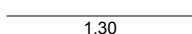
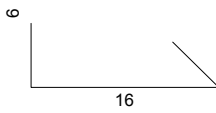

Poz.	szt.	d	długość	db ds	typ	forma gięcia	suma dł.	ciężar kg
33	136	12	3.60		A1		489.60	434.765
34	6	14	3.60		A1		21.60	26.136
35	4	14	7.10		A2		28.40	34.364
36	119	12	1.50		A3		178.50	158.508
37	38	10	11.70		A1		444.60	274.318
38	95	10	1.80		A3		171.00	105.507
39	2	10	2.00		A1		4.00	2.468
40	2	10	3.30		A1		6.60	4.072
41	2	10	1.50		A1		3.00	1.851
42	15	12	3.30		A1		49.50	43.956
43	2	14	2.30		A2		4.60	5.566
44	2	14	4.80		A2		9.60	11.616
45	72	10	5.50		A1		396.00	244.332
46	4	10	4.10		A1		16.40	10.119
47	4	14	3.90		A2		15.60	18.876
48	4	14	2.90		A1		11.60	14.036
49	4	14	2.60		A2		10.40	12.584
50	8	16	9.40		A2		75.20	118.816
51	105	10	1.60		A3		168.00	103.656
52	115	10	1.70		A3		195.50	120.623
53	2	10	1.80		A1		3.60	2.221
54	4	16	3.90		A2		15.60	24.648
55	2	10	2.80		A1		5.60	3.455
56	3	14	2.10		A2		6.30	7.623



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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
57	4	14	3.30		A2		13.20	15.972
58	7	10	1.26		B2	 kąt 0 stopni	8.82	5.442
59	15	10	1.02		B2	 kąt 0 stopni	15.30	9.440
60	4	14	2.80		A1		11.20	13.552
61	4	14	2.20		A1		8.80	10.648
62	2	14	3.44		A3		6.88	8.325
63	2	10	1.30		A1		2.60	1.604
64	257	6	0.27		D1		69.39	15.405
65	165	6	0.32		D1		52.80	11.722

masa całk. (kg) 3713.735