

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-210

Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P2 w osiach P-W/2-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-210
Data : 31.03.2008

WYKAZ STALI ZBROJENIOWEJ Klasa stali: BST 500 SA					
Poz.	szt.	d	długość	całk.dł	masa(kg)
1	8	14	8.20	65.60	79.376
2	17	12	1.90	32.30	28.682
3	110	10	1.60	176.00	108.592
4	2	12	3.60	7.20	6.394
5	20	10	2.20	44.00	27.148
6	3	14	2.40	7.20	8.712
7	4	12	2.40	9.60	8.525
8	2	14	4.00	8.00	9.680
9	4	14	3.30	13.20	15.972
10	86	10	1.80	154.80	95.512
11	30	10	2.00	60.00	37.020
12	330	12	4.80	1584.00	1406.592
13	4	14	3.20	12.80	15.488
14	84	10	1.26	105.84	65.303
15	108	10	6.60	712.80	439.798
16	2	14	3.65	7.30	8.833
17	31	10	2.38	73.78	45.522
18	28	10	2.14	59.92	36.971
19	28	14	5.20	145.60	176.176
20	16	10	1.60	25.60	15.795
21	22	10	3.00	66.00	40.722
22	15	10	1.11	16.65	10.273
23	3	14	2.70	8.10	9.801
24	22	12	1.50	33.00	29.304
25	4	12	2.09	8.36	7.424
26	4	14	4.60	18.40	22.264
27	2	14	3.60	7.20	8.712
28	54	10	5.20	280.80	173.254
29	3	20	3.41	10.23	25.268
30	4	14	8.90	35.60	43.076
31	34	8	1.80	61.20	24.174
32	3	20	4.51	13.53	33.419
33	6	14	1.75	10.50	12.705
34	24	10	5.00	120.00	74.040
35	370	6	0.27	99.90	22.178
36	108	8	2.20	237.60	93.852
37	12	10	5.75	69.00	42.573
38	4	14	12.00	48.00	58.080
39	4	14	6.40	25.60	30.976
40	16	10	5.75	92.00	56.764
41	8	10	12.00	96.00	59.232
42	8	10	5.30	42.40	26.161
43	11	10	1.04	11.44	7.058
44	3	20	2.97	8.91	22.008
45	14	10	3.80	53.20	32.824
46	4	14	5.80	23.20	28.072
47	117	10	1.70	198.90	122.721
48	110	8	3.50	385.00	152.075
49	4	14	1.90	7.60	9.196
50	14	16	4.55	63.70	100.646
51	39	8	2.70	105.30	41.594
52	9	14	4.80	43.20	52.272
53	3	20	12.00	36.00	88.920
54	32	10	4.80	153.60	94.771
55	18	12	1.40	25.20	22.378
56	36	12	2.60	93.60	83.117
57	40	10	3.25	130.00	80.210
58	14	8	2.70	37.80	14.931
59	2	14	3.45	6.90	8.349
60	10	10	1.96	19.60	12.093
61	5	20	9.30	46.50	114.855
62	30	8	3.40	102.00	40.290

średnio

średnio

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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WYKAZ STALI ZBROJENIOWEJ Klasa stali: BST 500 SA					
Poz.	szt.	d	Długość	całk.dł	masa(kg)
63	4	14	2.00	8.00	9.680
64	3	20	3.22	9.66	23.860
65	3	20	5.75	17.25	42.608
66	108	12	2.50	270.00	239.760
67	216	8	1.24	267.84	105.797
68	4	16	4.10	16.40	25.912
69	216	8	0.81	174.96	69.109
70	4	14	5.30	21.20	25.652
71	10	12	3.58	35.80	31.790
72	26	10	2.26	58.76	36.255
73	4	10	2.95	11.80	7.281
74	4	10	3.04	12.16	7.503
75	7	10	2.70	18.90	11.661
76	2	20	5.14	10.28	25.392
77	1	20	5.22	5.22	12.893
78	40	8	3.60	144.00	56.880
79	30	8	12.00	360.00	142.200
80	30	8	5.20	156.00	61.620
81	27	10	1.70	45.90	28.320
82	5	20	9.00	45.00	111.150
83	2	12	1.50	3.00	2.664

średnio
średnio

Całk. ilość stali			
d(mm)	całk.dł	kg/m	masa(kg)
6	99.90	0.222	22.178
8	2031.70	0.395	802.522
10	2909.85	0.617	1795.377
12	2102.06	0.888	1866.629
14	523.20	1.210	633.072
16	80.10	1.580	126.558
20	202.58	2.470	500.373
masa całk. (kg)			5746.709

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P2 w osiach P-W/2-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-210
Data : 31.03.2008

ELEMENTY DO WBUDOWANIA

Poz.	ilość	jednostka	opis	materiał	Bestellnummer
1	7	mb	HBT 150 - 12/15	TYP 5 A	IIIN

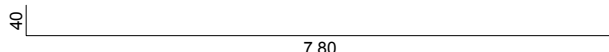
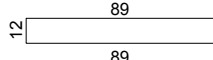
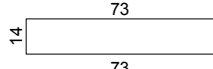
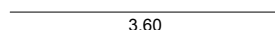
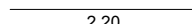
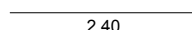
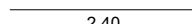
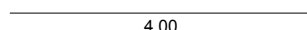
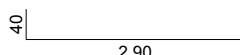
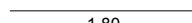
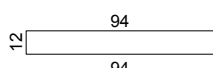
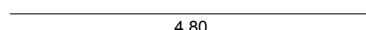
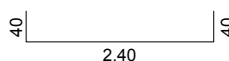
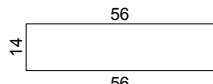
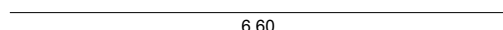
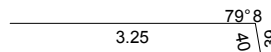
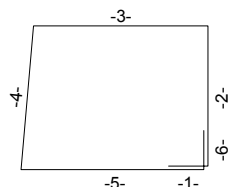
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Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P2 w osiach P-W/2-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-210
Data : 31.03.2008

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	8.20		A2		65.60	79.376																																			
2	17	12	1.90		A3		32.30	28.682																																			
3	110	10	1.60		A3		176.00	108.592																																			
4	2	12	3.60		A1		7.20	6.394																																			
5	20	10	2.20		A1		44.00	27.148																																			
6	3	14	2.40		A1		7.20	8.712																																			
7	4	12	2.40		A1		9.60	8.525																																			
8	2	14	4.00		A1		8.00	9.680																																			
9	4	14	3.30		A2		13.20	15.972																																			
10	86	10	1.80		A1		154.80	95.512																																			
11	30	10	2.00		A3		60.00	37.020																																			
12	330	12	4.80		A1		1584.00	1406.592																																			
13	4	14	3.20		A3		12.80	15.488																																			
14	84	10	1.26		A3		105.84	65.303																																			
15	108	10	6.60		A1		712.80	439.798																																			
16	2	14	3.65		C1		7.30	8.833																																			
17	31	10	2.38		X1	<div><table><thead><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>>°</th></tr></thead><tbody><tr><td>1</td><td>0.13</td><td>-0.00</td><td>0.13</td><td>90</td></tr><tr><td>2</td><td>0.00</td><td>0.47</td><td>0.47</td><td>90</td></tr><tr><td>3</td><td>-0.57</td><td>0.00</td><td>0.57</td><td>85</td></tr><tr><td>4</td><td>-0.04</td><td>-0.47</td><td>0.47</td><td>95</td></tr><tr><td>5</td><td>0.61</td><td>-0.00</td><td>0.61</td><td>90</td></tr><tr><td>6</td><td>0.00</td><td>0.13</td><td>0.13</td><td></td></tr></tbody></table></div>	Nr.	dx	dy	l	>°	1	0.13	-0.00	0.13	90	2	0.00	0.47	0.47	90	3	-0.57	0.00	0.57	85	4	-0.04	-0.47	0.47	95	5	0.61	-0.00	0.61	90	6	0.00	0.13	0.13		73.78	45.522
Nr.	dx	dy	l	>°																																							
1	0.13	-0.00	0.13	90																																							
2	0.00	0.47	0.47	90																																							
3	-0.57	0.00	0.57	85																																							
4	-0.04	-0.47	0.47	95																																							
5	0.61	-0.00	0.61	90																																							
6	0.00	0.13	0.13																																								

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																																			
18	28	10	2.14		X1	<div><div><div>-1-</div><div>-2-</div><div>-3-</div></div><table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>γ°</td></tr><tr><td>1</td><td>-1.00</td><td>0.00</td><td>1.00</td><td>85</td></tr><tr><td>2</td><td>-0.01</td><td>-0.14</td><td>0.14</td><td>95</td></tr><tr><td>3</td><td>1.00</td><td>0.00</td><td>1.00</td><td></td></tr></table></div>	Nr.	dx	dy	l	γ°	1	-1.00	0.00	1.00	85	2	-0.01	-0.14	0.14	95	3	1.00	0.00	1.00		59.92	36.971															
Nr.	dx	dy	l	γ°																																							
1	-1.00	0.00	1.00	85																																							
2	-0.01	-0.14	0.14	95																																							
3	1.00	0.00	1.00																																								
19	28	14	5.20		A1	<div><div>5.20</div></div>	145.60	176.176																																			
20	16	10	1.60		A1	<div><div>1.60</div></div>	25.60	15.795																																			
21	22	10	3.00		A1	<div><div>3.00</div></div>	66.00	40.722																																			
22	15	10	1.11		X1	<div><div><div>-3-</div><div>-4-</div><div>-5-</div><div>-6-</div><div>-1-</div></div><table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>γ°</td></tr><tr><td>1</td><td>0.13</td><td>-0.00</td><td>0.13</td><td>90</td></tr><tr><td>2</td><td>0.00</td><td>0.14</td><td>0.14</td><td>90</td></tr><tr><td>3</td><td>-0.28</td><td>0.00</td><td>0.28</td><td>85</td></tr><tr><td>4</td><td>-0.01</td><td>-0.14</td><td>0.14</td><td>95</td></tr><tr><td>5</td><td>0.29</td><td>-0.00</td><td>0.29</td><td>90</td></tr><tr><td>6</td><td>0.00</td><td>0.13</td><td>0.13</td><td></td></tr></table></div>	Nr.	dx	dy	l	γ°	1	0.13	-0.00	0.13	90	2	0.00	0.14	0.14	90	3	-0.28	0.00	0.28	85	4	-0.01	-0.14	0.14	95	5	0.29	-0.00	0.29	90	6	0.00	0.13	0.13		16.65	10.273
Nr.	dx	dy	l	γ°																																							
1	0.13	-0.00	0.13	90																																							
2	0.00	0.14	0.14	90																																							
3	-0.28	0.00	0.28	85																																							
4	-0.01	-0.14	0.14	95																																							
5	0.29	-0.00	0.29	90																																							
6	0.00	0.13	0.13																																								
23	3	14	2.70		A2	<div><div><div>2.40</div><div>30</div></div></div>	8.10	9.801																																			
24	22	12	1.50		A3	<div><div><div>69</div><div>12</div><div>69</div></div></div>	33.00	29.304																																			
25	4	12	2.09		A1	<div><div><div>-a-</div><table><tr><td>Pos.</td><td>Stk.</td><td>Länge</td><td>-a-</td></tr><tr><td>1</td><td>2</td><td>1.71</td><td>1.71</td></tr><tr><td>2</td><td>2</td><td>2.46</td><td>2.46</td></tr></table></div></div>	Pos.	Stk.	Länge	-a-	1	2	1.71	1.71	2	2	2.46	2.46	8.36	7.424																							
Pos.	Stk.	Länge	-a-																																								
1	2	1.71	1.71																																								
2	2	2.46	2.46																																								
26	4	14	4.60		A2	<div><div><div>4.20</div><div>40</div></div></div>	18.40	22.264																																			
27	2	14	3.60		A2	<div><div><div>3.30</div><div>30</div></div></div>	7.20	8.712																																			
28	54	10	5.20		A1	<div><div>5.20</div></div>	280.80	173.254																																			
29	3	20	3.41		C2	<div><div><div>3.03</div><div>14°20' 21 17</div></div></div>	10.23	25.268																																			
30	4	14	8.90		A2	<div><div><div>8.50</div><div>40</div></div></div>	35.60	43.076																																			
31	34	8	1.80		A3	<div><div><div>84</div><div>12</div><div>84</div></div></div>	61.20	24.174																																			
32	3	20	4.51		C2	<div><div><div>4.13</div><div>14°20' 21 17</div></div></div>	13.53	33.419																																			
33	6	14	1.75		C1	<div><div><div>1.32 1.35</div><div>27</div><div>40</div><div>79°</div></div></div>	10.50	12.705																																			
34	24	10	5.00		A1	<div><div>5.00</div></div>	120.00	74.040																																			
35	370	6	0.27		D1	<div><div><div>16</div><div>6</div></div></div>	99.90	22.178																																			

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/ K-210

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

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg																				
36	108	8	2.20		X1	<div><div><div><div><div></div><div>-3-</div></div><div><div></div><div>-1-</div></div></div><div><div></div><div>2-</div></div></div><div><table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>1.03</td><td>-0.00</td><td>1.03</td><td>101</td></tr><tr><td>2</td><td>-0.03</td><td>0.14</td><td>0.14</td><td>79</td></tr><tr><td>3</td><td>-1.03</td><td>0.00</td><td>1.03</td><td></td></tr></table></div></div>	Nr.	dx	dy	l	>°	1	1.03	-0.00	1.03	101	2	-0.03	0.14	0.14	79	3	-1.03	0.00	1.03		237.60	93.852
Nr.	dx	dy	l	>°																								
1	1.03	-0.00	1.03	101																								
2	-0.03	0.14	0.14	79																								
3	-1.03	0.00	1.03																									
37	12	10	5.75		A1	<div><div><div></div><div>5.75</div></div></div>	69.00	42.573																				
38	4	14	12.00		A2	<div><div><div><div></div><div>30</div></div><div><div></div><div>11.70</div></div></div></div>	48.00	58.080																				
39	4	14	6.40		A2	<div><div><div><div></div><div>30</div></div><div><div></div><div>6.10</div></div></div></div>	25.60	30.976																				
40	16	10	5.75		A1	<div><div><div></div><div>5.75</div></div></div>	92.00	56.764																				
41	8	10	12.00		A1	<div><div><div></div><div>12.00</div></div></div>	96.00	59.232																				
42	8	10	5.30		A1	<div><div><div></div><div>5.30</div></div></div>	42.40	26.161																				
43	11	10	1.04		B2	<div><div><div><div><div></div><div>12</div></div><div><div></div><div>27</div></div><div><div></div><div>13</div></div></div><div>kat 0 stopni</div></div></div>	11.44	7.058																				
44	3	20	2.97		C2	<div><div><div><div></div><div>2.55</div></div><div><div></div><div>11°25'25 17</div></div></div></div>	8.91	22.008																				
45	14	10	3.80		A1	<div><div><div></div><div>3.80</div></div></div>	53.20	32.824																				
46	4	14	5.80		C1	<div><div><div><div></div><div>5.40</div></div><div><div></div><div>79°8'40 66</div></div></div></div>	23.20	28.072																				
47	117	10	1.70		X1	<div><div><div><div><div></div><div>-3-</div></div><div><div></div><div>-1-</div></div></div><div><div></div><div>2-</div></div></div><div><table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>-0.78</td><td>0.00</td><td>0.78</td><td>-85</td></tr><tr><td>2</td><td>-0.01</td><td>0.14</td><td>0.14</td><td>-95</td></tr><tr><td>3</td><td>0.78</td><td>0.00</td><td>0.78</td><td></td></tr></table></div></div>	Nr.	dx	dy	l	>°	1	-0.78	0.00	0.78	-85	2	-0.01	0.14	0.14	-95	3	0.78	0.00	0.78		198.90	122.721
Nr.	dx	dy	l	>°																								
1	-0.78	0.00	0.78	-85																								
2	-0.01	0.14	0.14	-95																								
3	0.78	0.00	0.78																									
48	110	8	3.50		X1	<div><div><div><div><div></div><div>-3-</div></div><div><div></div><div>-1-</div></div></div><div><div></div><div>2-</div></div></div><div><table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>-1.68</td><td>-0.00</td><td>1.68</td><td>-79</td></tr><tr><td>2</td><td>-0.03</td><td>0.14</td><td>0.14</td><td>-101</td></tr><tr><td>3</td><td>1.68</td><td>0.00</td><td>1.68</td><td></td></tr></table></div></div>	Nr.	dx	dy	l	>°	1	-1.68	-0.00	1.68	-79	2	-0.03	0.14	0.14	-101	3	1.68	0.00	1.68		385.00	152.075
Nr.	dx	dy	l	>°																								
1	-1.68	-0.00	1.68	-79																								
2	-0.03	0.14	0.14	-101																								
3	1.68	0.00	1.68																									
49	4	14	1.90		A1	<div><div><div></div><div>1.90</div></div></div>	7.60	9.196																				
50	14	16	4.55		A1	<div><div><div></div><div>4.55</div></div></div>	63.70	100.646																				
51	39	8	2.70		A3	<div><div><div><div></div><div>14</div></div><div><div></div><div>1.28</div></div><div><div></div><div>1.28</div></div></div></div>	105.30	41.594																				
52	9	14	4.80		A1	<div><div><div></div><div>4.80</div></div></div>	43.20	52.272																				
53	3	20	12.00		A1	<div><div><div></div><div>12.00</div></div></div>	36.00	88.920																				
54	32	10	4.80		A1	<div><div><div></div><div>4.80</div></div></div>	153.60	94.771																				
55	18	12	1.40		A1	<div><div><div></div><div>1.40</div></div></div>	25.20	22.378																				
56	36	12	2.60		A3	<div><div><div><div></div><div>14</div></div><div><div></div><div>1.23</div></div><div><div></div><div>1.23</div></div></div></div>	93.60	83.117																				
57	40	10	3.25		A1	<div><div><div></div><div>3.25</div></div></div>	130.00	80.210																				

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
58	14	8	2.70		A1		37.80	14.931
59	2	14	3.45		A2		6.90	8.349
60	10	10	1.96		A3	 -a- -c- Pos. Stk. Länge -a- -c- 1 1 2.22 1.05 1.05 2 1 2.16 1.02 1.02 3 1 2.11 0.99 0.99 4 1 2.05 0.96 0.96 5 1 1.99 0.93 0.94 6 1 1.93 0.91 0.91 7 1 1.87 0.88 0.88 8 1 1.82 0.85 0.85 9 1 1.76 0.82 0.82 10 1 1.70 0.79 0.79	19.60	12.093
61	5	20	9.30		C2		46.50	114.855
62	30	8	3.40		A3		102.00	40.290
63	4	14	2.00		A3		8.00	9.680
64	3	20	3.22		X1	 Nr. dx dy l >° 1 -0.00 -0.25 0.25 90 2 2.55 0.00 2.55 -11 3 0.25 -0.05 0.25 11 4 0.17 0.00 0.17	9.66	23.860
65	3	20	5.75		C2		17.25	42.608
66	108	12	2.50		X1	 Nr. dx dy l >° 1 1.19 -0.00 1.19 101 2 -0.02 0.12 0.12 79 3 -1.19 0.00 1.19	270.00	239.760
67	216	8	1.24		X1	 Nr. dx dy l >° 1 0.06 0.00 0.06 90 2 0.00 0.09 0.09 90 3 -0.42 0.00 0.42 79 4 -0.02 -0.09 0.09 101 5 0.43 0.00 0.43 90 6 0.00 0.09 0.09 90 7 -0.06 0.00 0.06	267.84	105.797
68	4	16	4.10		A3		16.40	25.912

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

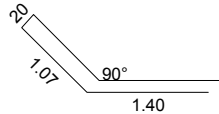
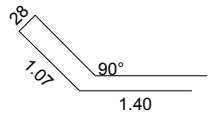
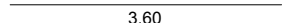
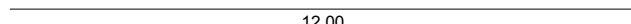
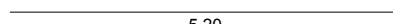
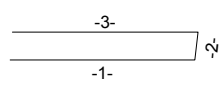

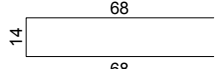
/ K-210

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

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg																																																																																																																																							
69	216	8	0.81		X1	<div><div><div><div><div>-1-</div><div>-5-</div></div><div><div>-2- -6-</div><div><div></div></div></div><div><div>-7-</div><div>-3-</div></div><div><div>4</div></div></div></div><table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>>°</th></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>-0.09</td><td>0.09</td><td>90</td></tr><tr><td>3</td><td>0.21</td><td>0.00</td><td>0.21</td><td>90</td></tr><tr><td>4</td><td>0.00</td><td>0.09</td><td>0.09</td><td>90</td></tr><tr><td>5</td><td>-0.21</td><td>0.00</td><td>0.21</td><td>90</td></tr><tr><td>6</td><td>0.00</td><td>-0.09</td><td>0.09</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></div>	Nr.	dx	dy	l	>°	1	-0.06	0.00	0.06	90	2	0.00	-0.09	0.09	90	3	0.21	0.00	0.21	90	4	0.00	0.09	0.09	90	5	-0.21	0.00	0.21	90	6	0.00	-0.09	0.09	90	7	0.06	0.00	0.06		174.96	69.109																																																																																															
Nr.	dx	dy	l	>°																																																																																																																																											
1	-0.06	0.00	0.06	90																																																																																																																																											
2	0.00	-0.09	0.09	90																																																																																																																																											
3	0.21	0.00	0.21	90																																																																																																																																											
4	0.00	0.09	0.09	90																																																																																																																																											
5	-0.21	0.00	0.21	90																																																																																																																																											
6	0.00	-0.09	0.09	90																																																																																																																																											
7	0.06	0.00	0.06																																																																																																																																												
70	4	14	5.30		A1	<div><div><div></div></div><div>5.30</div></div>	21.20	25.652																																																																																																																																							
71	10	12	3.58		A1	<div><div><div></div></div><div><div><div>-a-</div></div><table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th></tr><tr><td>1</td><td>2</td><td>5.11</td><td>5.11</td></tr><tr><td>2</td><td>2</td><td>4.34</td><td>4.34</td></tr><tr><td>3</td><td>2</td><td>3.58</td><td>3.58</td></tr><tr><td>4</td><td>2</td><td>2.81</td><td>2.81</td></tr><tr><td>5</td><td>2</td><td>2.05</td><td>2.05</td></tr></table></div></div>	Pos.	Stk.	Länge	-a-	1	2	5.11	5.11	2	2	4.34	4.34	3	2	3.58	3.58	4	2	2.81	2.81	5	2	2.05	2.05	35.80	31.790																																																																																																															
Pos.	Stk.	Länge	-a-																																																																																																																																												
1	2	5.11	5.11																																																																																																																																												
2	2	4.34	4.34																																																																																																																																												
3	2	3.58	3.58																																																																																																																																												
4	2	2.81	2.81																																																																																																																																												
5	2	2.05	2.05																																																																																																																																												
72	26	10	2.26		A3	<div><div><div><div><div>-a-</div></div><div>12</div></div><div><div>-c-</div></div><table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th><th>-c-</th></tr><tr><td>1</td><td>1</td><td>1.52</td><td>0.70</td><td>0.70</td></tr><tr><td>2</td><td>1</td><td>1.58</td><td>0.73</td><td>0.73</td></tr><tr><td>3</td><td>1</td><td>1.64</td><td>0.76</td><td>0.76</td></tr><tr><td>4</td><td>1</td><td>1.70</td><td>0.79</td><td>0.79</td></tr><tr><td>5</td><td>1</td><td>1.76</td><td>0.82</td><td>0.82</td></tr><tr><td>6</td><td>1</td><td>1.82</td><td>0.85</td><td>0.85</td></tr><tr><td>7</td><td>1</td><td>1.88</td><td>0.88</td><td>0.88</td></tr><tr><td>8</td><td>1</td><td>1.93</td><td>0.91</td><td>0.91</td></tr><tr><td>9</td><td>1</td><td>2.00</td><td>0.94</td><td>0.94</td></tr><tr><td>10</td><td>1</td><td>2.05</td><td>0.97</td><td>0.97</td></tr><tr><td>11</td><td>1</td><td>2.11</td><td>1.00</td><td>1.00</td></tr><tr><td>12</td><td>1</td><td>2.17</td><td>1.03</td><td>1.03</td></tr><tr><td>13</td><td>1</td><td>2.23</td><td>1.06</td><td>1.05</td></tr><tr><td>14</td><td>1</td><td>2.29</td><td>1.09</td><td>1.09</td></tr><tr><td>15</td><td>1</td><td>2.35</td><td>1.12</td><td>1.11</td></tr><tr><td>16</td><td>1</td><td>2.41</td><td>1.15</td><td>1.14</td></tr><tr><td>17</td><td>1</td><td>2.47</td><td>1.18</td><td>1.17</td></tr><tr><td>18</td><td>1</td><td>2.53</td><td>1.21</td><td>1.20</td></tr><tr><td>19</td><td>1</td><td>2.59</td><td>1.24</td><td>1.23</td></tr><tr><td>20</td><td>1</td><td>2.65</td><td>1.26</td><td>1.26</td></tr><tr><td>21</td><td>1</td><td>2.71</td><td>1.29</td><td>1.29</td></tr><tr><td>22</td><td>1</td><td>2.77</td><td>1.33</td><td>1.32</td></tr><tr><td>23</td><td>1</td><td>2.83</td><td>1.35</td><td>1.35</td></tr><tr><td>24</td><td>1</td><td>2.88</td><td>1.38</td><td>1.38</td></tr><tr><td>25</td><td>1</td><td>2.94</td><td>1.41</td><td>1.41</td></tr><tr><td>26</td><td>1</td><td>3.00</td><td>1.44</td><td>1.44</td></tr></table></div></div>	Pos.	Stk.	Länge	-a-	-c-	1	1	1.52	0.70	0.70	2	1	1.58	0.73	0.73	3	1	1.64	0.76	0.76	4	1	1.70	0.79	0.79	5	1	1.76	0.82	0.82	6	1	1.82	0.85	0.85	7	1	1.88	0.88	0.88	8	1	1.93	0.91	0.91	9	1	2.00	0.94	0.94	10	1	2.05	0.97	0.97	11	1	2.11	1.00	1.00	12	1	2.17	1.03	1.03	13	1	2.23	1.06	1.05	14	1	2.29	1.09	1.09	15	1	2.35	1.12	1.11	16	1	2.41	1.15	1.14	17	1	2.47	1.18	1.17	18	1	2.53	1.21	1.20	19	1	2.59	1.24	1.23	20	1	2.65	1.26	1.26	21	1	2.71	1.29	1.29	22	1	2.77	1.33	1.32	23	1	2.83	1.35	1.35	24	1	2.88	1.38	1.38	25	1	2.94	1.41	1.41	26	1	3.00	1.44	1.44	58.76	36.255
Pos.	Stk.	Länge	-a-	-c-																																																																																																																																											
1	1	1.52	0.70	0.70																																																																																																																																											
2	1	1.58	0.73	0.73																																																																																																																																											
3	1	1.64	0.76	0.76																																																																																																																																											
4	1	1.70	0.79	0.79																																																																																																																																											
5	1	1.76	0.82	0.82																																																																																																																																											
6	1	1.82	0.85	0.85																																																																																																																																											
7	1	1.88	0.88	0.88																																																																																																																																											
8	1	1.93	0.91	0.91																																																																																																																																											
9	1	2.00	0.94	0.94																																																																																																																																											
10	1	2.05	0.97	0.97																																																																																																																																											
11	1	2.11	1.00	1.00																																																																																																																																											
12	1	2.17	1.03	1.03																																																																																																																																											
13	1	2.23	1.06	1.05																																																																																																																																											
14	1	2.29	1.09	1.09																																																																																																																																											
15	1	2.35	1.12	1.11																																																																																																																																											
16	1	2.41	1.15	1.14																																																																																																																																											
17	1	2.47	1.18	1.17																																																																																																																																											
18	1	2.53	1.21	1.20																																																																																																																																											
19	1	2.59	1.24	1.23																																																																																																																																											
20	1	2.65	1.26	1.26																																																																																																																																											
21	1	2.71	1.29	1.29																																																																																																																																											
22	1	2.77	1.33	1.32																																																																																																																																											
23	1	2.83	1.35	1.35																																																																																																																																											
24	1	2.88	1.38	1.38																																																																																																																																											
25	1	2.94	1.41	1.41																																																																																																																																											
26	1	3.00	1.44	1.44																																																																																																																																											
73	4	10	2.95		A3	<div><div><div><div><div>1.02</div></div><div>92</div></div><div><div>1.01</div></div></div></div>	11.80	7.281																																																																																																																																							
74	4	10	3.04		B2	<div><div><div><div><div></div></div><div>13</div></div><div><div>45</div></div><div><div>94</div></div></div><div>kąt 0 stopni</div></div>	12.16	7.503																																																																																																																																							
75	7	10	2.70		A3	<div><div><div><div><div>1.12</div></div><div>47</div></div><div><div>1.11</div></div></div></div>	18.90	11.661																																																																																																																																							

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																				
76	2	20	5.14	15	D3		10.28	25.392																				
77	1	20	5.22	15	D3		5.22	12.893																				
78	40	8	3.60		A1		144.00	56.880																				
79	30	8	12.00		A1		360.00	142.200																				
80	30	8	5.20		A1		156.00	61.620																				
81	27	10	1.70		X1	<div></div> <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>>°</th></tr><tr><td>1</td><td>0.79</td><td>0.00</td><td>0.79</td><td>85</td></tr><tr><td>2</td><td>0.01</td><td>0.12</td><td>0.12</td><td>95</td></tr><tr><td>3</td><td>-0.79</td><td>0.00</td><td>0.79</td><td></td></tr></table>	Nr.	dx	dy	l	>°	1	0.79	0.00	0.79	85	2	0.01	0.12	0.12	95	3	-0.79	0.00	0.79		45.90	28.320
Nr.	dx	dy	l	>°																								
1	0.79	0.00	0.79	85																								
2	0.01	0.12	0.12	95																								
3	-0.79	0.00	0.79																									
82	5	20	9.00		A1		45.00	111.150																				
83	2	12	1.50		A3		3.00	2.664																				

masa całkow. (kg) 5746.709