

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-009

### Dane projektowe

Obiekt : wydział Biologii Uniwersytetu Gdańskiego  
Element : ściany poziome P0, osie R-S2/1  
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A  
Plan Nr. : K-009  
Data : 02.2008

W Y K A Z P R Ę T Ó W Z B R O J E N I O W Y C H Stał zbr.: BST 500 SA

poz.	[szt]	d	długość	dł.sum.	masa[kg]
1	1025	6	0.27	276.75	61.439
2	80	6	0.35	28.00	6.216
3	426	12	2.00	852.00	756.576
4	67	12	4.70	314.90	279.631
5	78	12	4.45	347.10	308.225
6	96	10	12.00	1152.00	710.784
7	24	12	4.85	116.40	103.363
8	8	10	3.60	28.80	17.770
9	10	10	2.60	26.00	16.042
10	52	10	2.74	142.48	87.910
11	8	14	12.00	96.00	116.160
12	32	14	1.80	57.60	69.696
13	8	14	4.85	38.80	46.948
14	8	14	4.55	36.40	44.044
15	194	12	5.30	1028.20	913.042
16	142	12	5.00	710.00	630.480
17	78	12	3.70	288.60	256.277
18	10	14	5.20	52.00	62.920
19	75	10	1.75	131.25	80.981
20	6	10	6.10	36.60	22.582
21	6	10	8.60	51.60	31.837
22	8	10	9.40	75.20	46.398
23	12	10	10.20	122.40	75.521
24	6	10	4.30	25.80	15.919
25	106	10	5.20	551.20	340.090
26	90	10	12.00	1080.00	666.360
27	82	12	3.45	282.90	251.215
28	24	12	4.25	102.00	90.576
29	2	10	10.60	21.20	13.080
30	16	14	9.55	152.80	184.888
31	8	14	8.80	70.40	85.184
32	12	12	5.90	70.80	62.870
33	12	12	5.30	63.60	56.477
34	9	12	6.20	55.80	49.550
35	18	12	6.50	117.00	103.896
36	124	12	5.25	651.00	578.088
37	4	14	10.35	41.40	50.094
38	211	10	1.75	369.25	227.827
39	68	10	1.60	108.80	67.130
40	4	14	10.00	40.00	48.400
41	120	10	9.30	1116.00	688.572
42	250	12	3.15	787.50	699.300
43	22	10	2.47	54.34	33.528
44	1	10	1.16	1.16	0.716
45	6	10	8.00	48.00	29.616
46	44	12	2.10	92.40	82.051
47	10	14	5.45	54.50	65.945
48	10	14	6.30	63.00	76.230
49	4	14	10.70	42.80	51.788
50	4	14	2.85	11.40	13.794
51	44	10	8.70	382.80	236.188
52	44	10	10.55	464.20	286.411
53	56	10	2.40	134.40	82.925
54	14	10	8.45	118.30	72.991
55	10	10	11.60	116.00	71.572
56	6	10	10.80	64.80	39.982
57	6	10	8.35	50.10	30.912
58	6	10	3.90	23.40	14.438
59	6	10	3.20	19.20	11.846
60	48	10	11.50	552.00	340.584
61	6	10	3.80	22.80	14.068
62	2	14	3.40	6.80	8.228
63	2	14	3.40	6.80	8.228
64	9	14	2.80	25.20	30.492
65	8	12	0.96	7.68	6.820
66	16	10	0.77	12.32	7.601
67	4	12	1.56	6.24	5.541
68	18	12	1.40	25.20	22.378
69	37	10	1.30	48.10	29.678
70	32	10	2.90	92.80	57.258
71	10	10	3.70	37.00	22.829
72	14	10	7.50	105.00	64.785
73	38	10	9.20	349.60	215.703

średnio

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Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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W Y K A Z	P R Ę T Ó W	Z B R O J E N I O W Y C H	Stal zbr.: BST 500 SA
poz. [szt]	d	długość	dł.sum. masa[kg]
74	12 12	3.64	43.68 38.788
75	67 12	4.40	294.80 261.782
76	126 12	1.35	170.10 151.049
77	12 12	5.00	60.00 53.280
78	12 12	5.60	67.20 59.674
79	18 12	6.20	111.60 99.101
80	9 12	5.90	53.10 47.153
81	34 10	4.65	158.10 97.548
82	6 10	2.25	13.50 8.329
83	84 12	4.75	399.00 354.312
84	12 12	3.35	40.20 35.698
85	2 12	3.10	6.20 5.506
86	78 12	4.10	319.80 283.982
87	84 12	4.40	369.60 328.205
88	163 12	1.35	220.05 195.404
89	6 14	6.00	36.00 43.560
90	34 10	3.10	105.40 65.032
91	70 10	1.75	122.50 75.582
92	136 10	1.65	224.40 138.455
93	36 10	2.65	95.40 58.862
94	34 10	4.20	142.80 88.108
95	49 12	2.00	98.00 87.024
96	4 14	4.30	17.20 20.812
97	22 10	4.15	91.30 56.332
98	4 14	12.00	48.00 58.080
99	3 14	2.35	7.05 8.531
100	8 12	0.92	7.36 6.536
101	64 12	6.10	390.40 346.675
102	126 12	6.30	793.80 704.894

**Zestawienie sumaryczne wg średnic**

d[mm]	dł.sum.	[kg/m]	masa[kg]
6	304.75	0.222	67.655
10	8688.30	0.617	5360.681
12	9364.21	0.888	8315.419
14	904.15	1.210	1094.022

masa całkowita [kg] 14837.777

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Element : ściany poziomie P0, osie R-S2/1

Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A

Plan Nr. : K-009

Data : 02.2008

### FORMY GIĘCIA PRĘTÓW Stal zbr.: BST 500 SA

poz	ilosc [szt]	d	dlugosc	dbz ds	typ	forma gięcia	dlugosc sumaryczna	masa [kg]
1	1025	6	0.27		D1		276.75	61.439
2	80	6	0.35		D1		28.00	6.216
3	426	12	2.00		A3		852.00	756.576
4	67	12	4.70		C1		314.90	279.631
5	78	12	4.45		C1		347.10	308.225
6	96	10	12.00		C1		1152.00	710.784
7	24	12	4.85		A1		116.40	103.363
8	8	10	3.60		A1		28.80	17.770
9	10	10	2.60		A1		26.00	16.042
10	52	10	2.74		A3		142.48	87.910
11	8	14	12.00		C1		96.00	116.160
12	32	14	1.80		A2		57.60	69.696
13	8	14	4.85		C1		38.80	46.948
14	8	14	4.55		C1		36.40	44.044
15	194	12	5.30		A1		1028.20	913.042
16	142	12	5.00		A1		710.00	630.480
17	78	12	3.70		A1		288.60	256.277
18	10	14	5.20		A1		52.00	62.920
19	75	10	1.75		A3		131.25	80.981
20	6	10	6.10		A1		36.60	22.582
21	6	10	8.60		A1		51.60	31.837
22	8	10	9.40		A1		75.20	46.398
23	12	10	10.20		A1		122.40	75.521
24	6	10	4.30		A1		25.80	15.919
25	106	10	5.20		A1		551.20	340.090
26	90	10	12.00		A1		1080.00	666.360
27	82	12	3.45		A1		282.90	251.215

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FORMY GIĘCIA PRĘTÓW Stal zbr.: BST 500 SA

poz	ilosc [szt]	d	dlugosc	dbr ds	typ	forma giecia	dlugosc sumaryczna	masa [kg]
28	24	12	4.25		A1		102.00	90.576
29	2	10	10.60		A1		21.20	13.080
30	16	14	9.55		C2		152.80	184.888
31	8	14	8.80		C2		70.40	85.184
32	12	12	5.90		C1		70.80	62.870
33	12	12	5.30		C1		63.60	56.477
34	9	12	6.20		C1		55.80	49.550
35	18	12	6.50		C1		117.00	103.896
36	124	12	5.25		A1		651.00	578.088
37	4	14	10.35		C2		41.40	50.094
38	211	10	1.75		X1	 Nr. 1 2 3 werty 0.81 -0.01 -0.80 dy 0.00 0.14 0.00 l 0.81 0.14 0.80 >[°] 95 85	369.25	227.827
39	68	10	1.60		A1		108.80	67.130
40	4	14	10.00		A2		40.00	48.400
41	120	10	9.30		A1		1116.00	688.572
42	250	12	3.15		A1		787.50	699.300
43	22	10	2.47		A1	 poz 1 2 3 [szt] 6 8 8 dlugosc 1.60 2.40 3.20 -a- 1.60 2.40 3.20	54.34	33.528
44	1	10	1.16		B1	 dl. haków=10.0	1.16	0.716
45	6	10	8.00		A1		48.00	29.616
46	44	12	2.10		A1		92.40	82.051
47	10	14	5.45		A1		54.50	65.945
48	10	14	6.30		A1		63.00	76.230
49	4	14	10.70		A2		42.80	51.788
50	4	14	2.85		A3		11.40	13.794
51	44	10	8.70		A1		382.80	236.188
52	44	10	10.55		A1		464.20	286.411
53	56	10	2.40		A1		134.40	82.925
54	14	10	8.45		A1	 poz 1 2 [szt] 10 4 dlugosc 8.02 9.52 -a- 8.02 9.52	118.30	72.991
55	10	10	11.60		A1		116.00	71.572

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FORMY GIĘCIA PRĘTÓW Stal zbr.: BST 500 SA

poz	ilosc [szt]	d	dlugosc	dbz ds	typ	forma gięcia	dlugosc sumaryczna	masa [kg]
56	6	10	10.80		A1		64.80	39.982
57	6	10	8.35		A1		50.10	30.912
58	6	10	3.90		A1		23.40	14.438
59	6	10	3.20		A1		19.20	11.846
60	48	10	11.50		A1		552.00	340.584
61	6	10	3.80		A1		22.80	14.068
62	2	14	3.40		A1		6.80	8.228
63	2	14	3.40		A2		6.80	8.228
64	9	14	2.80		A2		25.20	30.492
65	8	12	0.96		B1		7.68	6.820
66	16	10	0.77		X1	 <div> <p>Nr.    werty    dy    l    &gt;[°]</p> <p>1    0.00    0.14    0.10    -135</p> <p>2    0.15    0.00    0.15    -90</p> <p>3    -0.01    -0.14    0.14    -95</p> <p>4    -0.14    0.00    0.14    -85</p> <p>5    0.10    0.10    0.10    -135</p> </div>	12.32	7.601
67	4	12	1.56		B1		6.24	5.541
68	18	12	1.40		A3		25.20	22.378
69	37	10	1.30		A3		48.10	29.678
70	32	10	2.90		A1		92.80	57.258
71	10	10	3.70		A1		37.00	22.829
72	14	10	7.50		A1		105.00	64.785
73	38	10	9.20		A1		349.60	215.703
74	12	12	3.64		C1		43.68	38.788
75	67	12	4.40		C1		294.80	261.782
76	126	12	1.35		C1		170.10	151.049
77	12	12	5.00		C1		60.00	53.280
78	12	12	5.60		C1		67.20	59.674
79	18	12	6.20		C1		111.60	99.101
80	9	12	5.90		C1		53.10	47.153

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poz	ilosc [szt]	d	dlugosc	dbr ds	typ	forma giecia	dlugosc sumaryczna	masa [kg]																				
81	34	10	4.65		A1		158.10	97.548																				
82	6	10	2.25		A1		13.50	8.329																				
83	84	12	4.75		C1		399.00	354.312																				
84	12	12	3.35		C1		40.20	35.698																				
85	2	12	3.10		A1		6.20	5.506																				
86	78	12	4.10		C1		319.80	283.982																				
87	84	12	4.40		C1		369.60	328.205																				
88	163	12	1.35		C1		220.05	195.404																				
89	6	14	6.00		A1		36.00	43.560																				
90	34	10	3.10		A1		105.40	65.032																				
91	70	10	1.75		A3		122.50	75.582																				
92	136	10	1.65		X1	 <table><tr><td>Nr.</td><td>werty</td><td>dy</td><td>l</td><td>&gt;[°]</td></tr><tr><td>1</td><td>0.72</td><td>0.00</td><td>0.72</td><td>-85</td></tr><tr><td>2</td><td>0.02</td><td>-0.22</td><td>0.22</td><td>-95</td></tr><tr><td>3</td><td>-0.71</td><td>0.00</td><td>0.71</td><td></td></tr></table>	Nr.	werty	dy	l	>[°]	1	0.72	0.00	0.72	-85	2	0.02	-0.22	0.22	-95	3	-0.71	0.00	0.71		224.40	138.455
Nr.	werty	dy	l	>[°]																								
1	0.72	0.00	0.72	-85																								
2	0.02	-0.22	0.22	-95																								
3	-0.71	0.00	0.71																									
93	36	10	2.65		X1	 <table><tr><td>Nr.</td><td>werty</td><td>dy</td><td>l</td><td>&gt;[°]</td></tr><tr><td>1</td><td>-0.72</td><td>0.00</td><td>0.72</td><td>-85</td></tr><tr><td>2</td><td>-0.02</td><td>0.22</td><td>0.22</td><td>-95</td></tr><tr><td>3</td><td>1.71</td><td>0.00</td><td>1.71</td><td></td></tr></table>	Nr.	werty	dy	l	>[°]	1	-0.72	0.00	0.72	-85	2	-0.02	0.22	0.22	-95	3	1.71	0.00	1.71		95.40	58.862
Nr.	werty	dy	l	>[°]																								
1	-0.72	0.00	0.72	-85																								
2	-0.02	0.22	0.22	-95																								
3	1.71	0.00	1.71																									
94	34	10	4.20		X1	 <table><tr><td>Nr.</td><td>werty</td><td>dy</td><td>l</td><td>&gt;[°]</td></tr><tr><td>1</td><td>-0.72</td><td>0.00</td><td>0.72</td><td>85</td></tr><tr><td>2</td><td>-0.02</td><td>-0.22</td><td>0.22</td><td>95</td></tr><tr><td>3</td><td>3.26</td><td>0.00</td><td>3.26</td><td></td></tr></table>	Nr.	werty	dy	l	>[°]	1	-0.72	0.00	0.72	85	2	-0.02	-0.22	0.22	95	3	3.26	0.00	3.26		142.80	88.108
Nr.	werty	dy	l	>[°]																								
1	-0.72	0.00	0.72	85																								
2	-0.02	-0.22	0.22	95																								
3	3.26	0.00	3.26																									
95	49	12	2.00		A3		98.00	87.024																				
96	4	14	4.30		A1		17.20	20.812																				
97	22	10	4.15		A1		91.30	56.332																				
98	4	14	12.00		C2		48.00	58.080																				
99	3	14	2.35		A1		7.05	8.531																				
100	8	12	0.92		B1	 dl. haków=12.0	7.36	6.536																				
101	64	12	6.10		A1		390.40	346.675																				
102	126	12	6.30		A1		793.80	704.894																				

masa całkowita [kg] 14837.776