

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-310

### Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego  
Element : Ściany w poziomie P3 w osiach P-W/2-8  
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A  
Rys Nr : K-310  
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	94	10	1.60	150.40	92.797
4	2	12	3.00	6.00	5.328
5	20	10	2.20	44.00	27.148
6	3	14	2.40	7.20	8.712
7	2	12	2.40	4.80	4.262
8	4	14	3.30	13.20	15.972
9	86	10	1.90	163.40	100.818
10	10	10	2.00	20.00	12.340
11	318	12	4.80	1526.40	1355.443
12	4	14	3.20	12.80	15.488
13	84	10	1.26	105.84	65.303
14	108	10	6.40	691.20	426.470
15	117	10	1.70	198.90	122.721
16	30	8	12.00	360.00	142.200
17	28	10	2.14	59.92	36.971
18	32	14	5.20	166.40	201.344
19	16	10	1.60	25.60	15.795
20	22	10	3.00	66.00	40.722
21	15	10	0.84	12.60	7.774
22	3	14	2.70	8.10	9.801
23	26	12	1.50	39.00	34.632
24	8	12	2.03	16.24	14.421
25	4	14	4.60	18.40	22.264
26	2	14	3.60	7.20	8.712
27	12	10	4.70	56.40	34.799
28	3	20	2.73	8.19	20.229
29	4	14	8.10	32.40	39.204
30	34	8	1.80	61.20	24.174
31	10	10	5.40	54.00	33.318
32	4	14	1.75	7.00	8.470
33	370	6	0.27	99.90	22.178
34	108	8	2.20	237.60	93.852
35	4	14	12.00	48.00	58.080
36	4	14	6.40	25.60	30.976
37	8	10	12.00	96.00	59.232
38	8	10	5.30	42.40	26.161
39	14	10	2.70	37.80	23.323
40	3	20	3.10	9.30	22.971
41	30	10	3.80	114.00	70.338
42	4	14	4.90	19.60	23.716
43	110	8	3.50	385.00	152.075
44	37	8	2.70	99.90	39.461
45	3	14	4.80	14.40	17.424
46	20	8	2.70	54.00	21.330
47	3	20	12.00	36.00	88.920
48	18	12	1.40	25.20	22.378
49	20	10	2.40	48.00	29.616
50	30	8	5.20	156.00	61.620
51	14	8	3.00	42.00	16.590
52	14	8	4.40	61.60	24.332
53	18	10	1.80	32.40	19.991
54	5	20	9.30	46.50	114.855
55	37	8	3.40	125.80	49.691
56	4	14	2.00	8.00	9.680
57	3	20	5.75	17.25	42.608
58	108	8	1.24	133.92	52.898
59	4	16	4.10	16.40	25.912
60	108	8	0.81	87.48	34.555
61	4	14	5.30	21.20	25.652
62	10	12	2.97	29.70	26.374

średnio

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WYKAZ STALI ZBROJENIOWEJ Klasa stali: BST 500 SA					
Poz.	szt.	d	Długość	całk.dł	masa(kg)
63	4	14	1.80	7.20	8.712
64	2	12	1.80	3.60	3.197
65	4	14	3.30	13.20	15.972
66	4	14	4.00	16.00	19.360
67	14	12	2.30	32.20	28.594
68	20	8	4.10	82.00	32.390
69	6	10	4.40	26.40	16.289
70	3	20	4.60	13.80	34.086
71	3	20	4.45	13.35	32.975
72	47	10	1.60	75.20	46.398
73	23	10	1.70	39.10	24.125
74	9	12	1.50	13.50	11.988
75	5	20	9.00	45.00	111.150

całk. ilość stali			
d(mm)	całk.dł	kg/m	masa(kg)
6	99.90	0.222	22.178
8	1886.50	0.395	745.168
10	2159.56	0.617	1332.448
12	1728.94	0.888	1535.299
14	511.50	1.210	618.915
16	16.40	1.580	25.912
20	189.39	2.470	467.793

masa całk. (kg) 4747.713

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Rys Nr : K-310  
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**ELEMENTY DO WBUDOWANIA**

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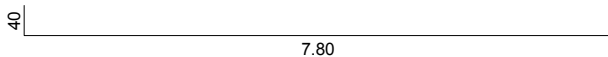
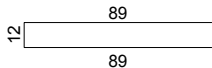
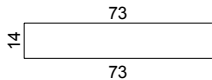
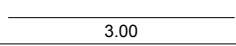
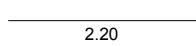
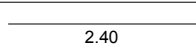
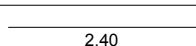
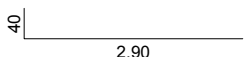
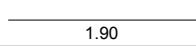
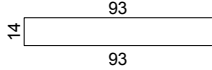
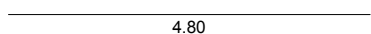
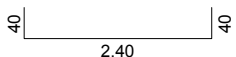
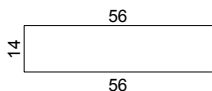
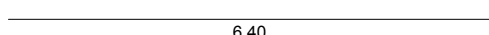
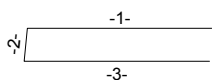
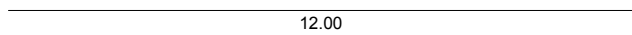
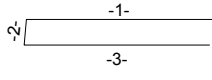
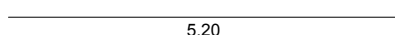
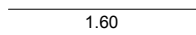
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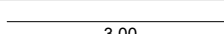
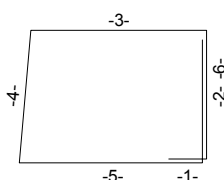
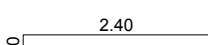
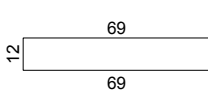

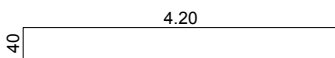
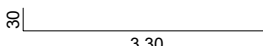
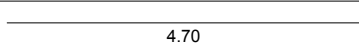
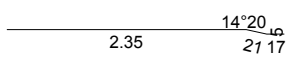
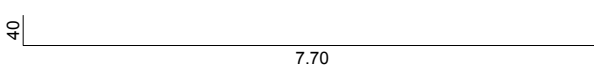
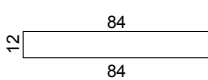
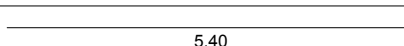
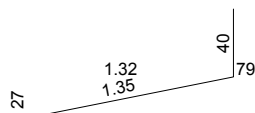
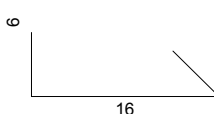
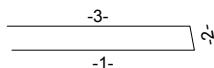
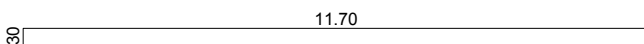
#### WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg
1	8	14	8.20		A2		65.60	79.376
2	17	12	1.90		A3		32.30	28.682
3	94	10	1.60		A3		150.40	92.797
4	2	12	3.00		A1		6.00	5.328
5	20	10	2.20		A1		44.00	27.148
6	3	14	2.40		A1		7.20	8.712
7	2	12	2.40		A1		4.80	4.262
8	4	14	3.30		A2		13.20	15.972
9	86	10	1.90		A1		163.40	100.818
10	10	10	2.00		A3		20.00	12.340
11	318	12	4.80		A1		1526.40	1355.443
12	4	14	3.20		A3		12.80	15.488
13	84	10	1.26		A3		105.84	65.303
14	108	10	6.40		A1		691.20	426.470
15	117	10	1.70		X1	 <div> <div>Nr.</div> <div>1</div> <div>2</div> <div>3</div> </div> <div> <div>dx</div> <div>-0.78</div> <div>-0.01</div> <div>0.78</div> </div> <div> <div>dy</div> <div>0.00</div> <div>-0.14</div> <div>0.00</div> </div> <div> <div>l</div> <div>0.78</div> <div>0.14</div> <div>0.78</div> </div> <div> <div>&gt;°</div> <div>85</div> <div>95</div> </div>	198.90	122.721
16	30	8	12.00		A1		360.00	142.200
17	28	10	2.14		X1	 <div> <div>Nr.</div> <div>1</div> <div>2</div> <div>3</div> </div> <div> <div>dx</div> <div>-1.00</div> <div>-0.01</div> <div>1.00</div> </div> <div> <div>dy</div> <div>0.00</div> <div>-0.14</div> <div>0.00</div> </div> <div> <div>l</div> <div>1.00</div> <div>0.14</div> <div>1.00</div> </div> <div> <div>&gt;°</div> <div>85</div> <div>95</div> </div>	59.92	36.971
18	32	14	5.20		A1		166.40	201.344
19	16	10	1.60		A1		25.60	15.795

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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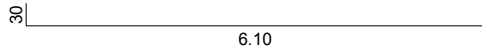
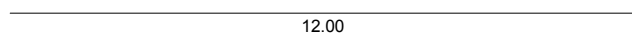
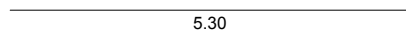
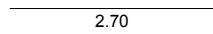
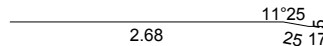
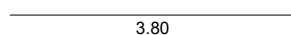
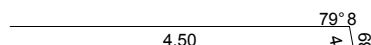

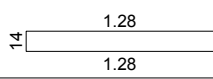
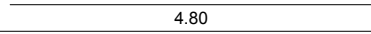
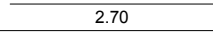
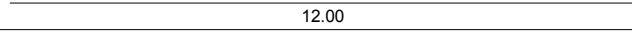
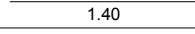
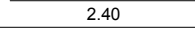
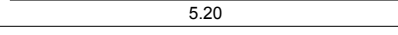
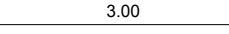
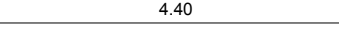
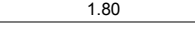
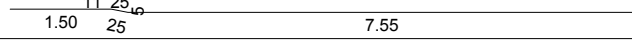
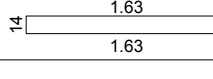
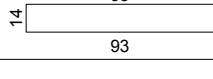
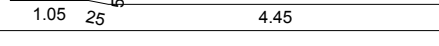
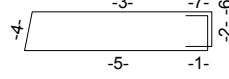
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg																																			
20	22	10	3.00		A1		66.00	40.722																																			
21	15	10	0.84		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>&gt;°</th></tr><tr><td>1</td><td>0.04</td><td>-0.00</td><td>0.04</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>-0.19</td><td>0.00</td><td>0.19</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>0.20</td><td>-0.00</td><td>0.20</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>	Nr.	dx	dy	l	>°	1	0.04	-0.00	0.04	90	2	0.00	0.14	0.14	90	3	-0.19	0.00	0.19	85	4	-0.01	-0.14	0.14	95	5	0.20	-0.00	0.20	90	6	0.00	0.13	0.13		12.60	7.774
Nr.	dx	dy	l	>°																																							
1	0.04	-0.00	0.04	90																																							
2	0.00	0.14	0.14	90																																							
3	-0.19	0.00	0.19	85																																							
4	-0.01	-0.14	0.14	95																																							
5	0.20	-0.00	0.20	90																																							
6	0.00	0.13	0.13																																								
22	3	14	2.70		A2		8.10	9.801																																			
23	26	12	1.50		A3		39.00	34.632																																			
24	8	12	2.03		A1	 <table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th></tr><tr><td>1</td><td>4</td><td>1.65</td><td>1.65</td></tr><tr><td>2</td><td>4</td><td>2.40</td><td>2.40</td></tr></table>	Pos.	Stk.	Länge	-a-	1	4	1.65	1.65	2	4	2.40	2.40	16.24	14.421																							
Pos.	Stk.	Länge	-a-																																								
1	4	1.65	1.65																																								
2	4	2.40	2.40																																								
25	4	14	4.60		A2		18.40	22.264																																			
26	2	14	3.60		A2		7.20	8.712																																			
27	12	10	4.70		A1		56.40	34.799																																			
28	3	20	2.73		C2		8.19	20.229																																			
29	4	14	8.10		A2		32.40	39.204																																			
30	34	8	1.80		A3		61.20	24.174																																			
31	10	10	5.40		A1		54.00	33.318																																			
32	4	14	1.75		C1		7.00	8.470																																			
33	370	6	0.27		D1		99.90	22.178																																			
34	108	8	2.20		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>&gt;°</th></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>	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																																								
35	4	14	12.00		A2		48.00	58.080																																			

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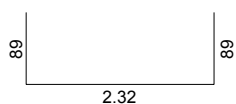
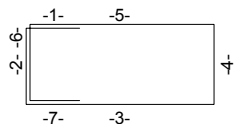
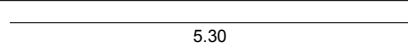

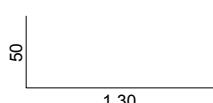
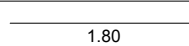
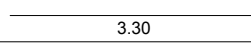

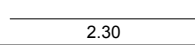
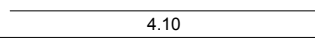
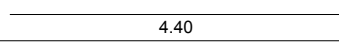
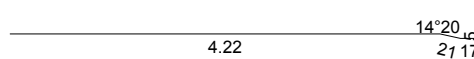
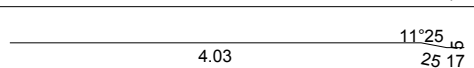
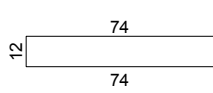
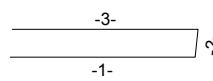
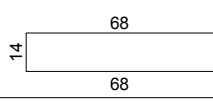
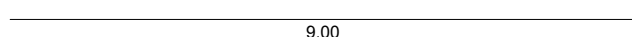
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg																																								
36	4	14	6.40		A2		25.60	30.976																																								
37	8	10	12.00		A1		96.00	59.232																																								
38	8	10	5.30		A1		42.40	26.161																																								
39	14	10	2.70		A1		37.80	23.323																																								
40	3	20	3.10		C2		9.30	22.971																																								
41	30	10	3.80		A1		114.00	70.338																																								
42	4	14	4.90		C1		19.60	23.716																																								
43	110	8	3.50		X1	 <table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>I</td><td>&gt;°</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>	Nr.	dx	dy	I	>°	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	I	>°																																												
1	-1.68	-0.00	1.68	-79																																												
2	-0.03	0.14	0.14	-101																																												
3	1.68	0.00	1.68																																													
44	37	8	2.70		A3		99.90	39.461																																								
45	3	14	4.80		A1		14.40	17.424																																								
46	20	8	2.70		A1		54.00	21.330																																								
47	3	20	12.00		A1		36.00	88.920																																								
48	18	12	1.40		A1		25.20	22.378																																								
49	20	10	2.40		A1		48.00	29.616																																								
50	30	8	5.20		A1		156.00	61.620																																								
51	14	8	3.00		A1		42.00	16.590																																								
52	14	8	4.40		A1		61.60	24.332																																								
53	18	10	1.80		A1		32.40	19.991																																								
54	5	20	9.30		C2		46.50	114.855																																								
55	37	8	3.40		A3		125.80	49.691																																								
56	4	14	2.00		A3		8.00	9.680																																								
57	3	20	5.75		C2		17.25	42.608																																								
58	108	8	1.24		X1	 <table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>I</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>0.09</td><td>0.09</td><td>90</td></tr><tr><td>3</td><td>-0.42</td><td>0.00</td><td>0.42</td><td>79</td></tr><tr><td>4</td><td>-0.02</td><td>-0.09</td><td>0.09</td><td>101</td></tr><tr><td>5</td><td>0.43</td><td>0.00</td><td>0.43</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>	Nr.	dx	dy	I	>°	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		133.92	52.898
Nr.	dx	dy	I	>°																																												
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																																													

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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																																								
59	4	16	4.10		A3		16.40	25.912																																								
60	108	8	0.81		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>γ°</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>	Nr.	dx	dy	l	γ°	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		87.48	34.555
Nr.	dx	dy	l	γ°																																												
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																																													
61	4	14	5.30		A1		21.20	25.652																																								
62	10	12	2.97		A1	 <table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th></tr><tr><td>1</td><td>2</td><td>4.28</td><td>4.28</td></tr><tr><td>2</td><td>2</td><td>3.63</td><td>3.63</td></tr><tr><td>3</td><td>2</td><td>2.97</td><td>2.97</td></tr><tr><td>4</td><td>2</td><td>2.32</td><td>2.32</td></tr><tr><td>5</td><td>2</td><td>1.66</td><td>1.66</td></tr></table>	Pos.	Stk.	Länge	-a-	1	2	4.28	4.28	2	2	3.63	3.63	3	2	2.97	2.97	4	2	2.32	2.32	5	2	1.66	1.66	29.70	26.374																
Pos.	Stk.	Länge	-a-																																													
1	2	4.28	4.28																																													
2	2	3.63	3.63																																													
3	2	2.97	2.97																																													
4	2	2.32	2.32																																													
5	2	1.66	1.66																																													
63	4	14	1.80		A2		7.20	8.712																																								
64	2	12	1.80		A1		3.60	3.197																																								
65	4	14	3.30		A1		13.20	15.972																																								
66	4	14	4.00		A2		16.00	19.360																																								
67	14	12	2.30		A1		32.20	28.594																																								
68	20	8	4.10		A1		82.00	32.390																																								
69	6	10	4.40		A1		26.40	16.289																																								
70	3	20	4.60		C2		13.80	34.086																																								
71	3	20	4.45		C2		13.35	32.975																																								
72	47	10	1.60		A3		75.20	46.398																																								
73	23	10	1.70		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>γ°</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	γ°	1	0.79	0.00	0.79	85	2	0.01	0.12	0.12	95	3	-0.79	0.00	0.79		39.10	24.125																				
Nr.	dx	dy	l	γ°																																												
1	0.79	0.00	0.79	85																																												
2	0.01	0.12	0.12	95																																												
3	-0.79	0.00	0.79																																													
74	9	12	1.50		A3		13.50	11.988																																								
75	5	20	9.00		A1		45.00	111.150																																								

masa calk. (kg) 4747.713