

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P0 i P1 w osiach M-I/1-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-012
Data : 13.03.2008

WYKAZ STALI ZBROJENIOWEJ Klasa stali: BST 500 SA

Poz.	szt.	d	długość	całk.dł	masa(kg)	
1	345	6	0.27	93.15	20.679	
2	17	10	1.72	29.24	18.041	
3	34	12	3.00	102.00	90.576	
4	108	12	2.55	275.40	244.555	
5	4	14	3.00	12.00	14.520	
6	3	14	2.30	6.90	8.349	
7	58	12	2.15	124.70	110.734	
8	102	12	4.70	479.40	425.707	
9	8	10	3.25	26.00	16.042	
10	8	14	3.10	24.80	30.008	
11	22	14	4.80	105.60	127.776	
12	18	12	1.90	34.20	30.370	
13	85	12	1.35	114.75	101.898	
14	76	10	2.35	178.60	110.196	
15	461	10	1.50	691.50	426.655	
16	17	10	1.60	27.20	16.782	
17	4	14	4.00	16.00	19.360	
18	84	10	2.00	168.00	103.656	
19	32	10	1.90	60.80	37.514	
20	4	14	3.40	13.60	16.456	
21	2	10	1.80	3.60	2.221	
22	38	12	1.85	70.30	62.426	
23	4	14	2.15	8.60	10.406	
24	23	14	2.70	62.10	75.141	
25	10	12	3.15	31.50	27.972	
26	24	10	2.16	51.84	31.985	
27	32	10	2.10	67.20	41.462	
28	22	10	3.05	67.10	41.401	
29	4	14	4.60	18.40	22.264	
30	2	12	4.00	8.00	7.104	
31	2	14	4.00	8.00	9.680	
32	78	10	2.15	167.70	103.471	
33	78	10	2.40	187.20	115.502	
34	31	10	2.58	79.98	49.348	
35	28	16	5.50	154.00	243.320	
36	124	10	2.14	265.36	163.727	
37	74	12	5.40	399.60	354.845	
38	10	10	4.10	41.00	25.297	
39	50	10	3.61	180.50	111.368	średnio
40	10	12	2.38	23.80	21.134	średnio
41	4	14	4.80	19.20	23.232	
42	10	14	2.80	28.00	33.880	
43	5	14	2.90	14.50	17.545	
44	44	12	5.70	250.80	222.710	
45	22	12	2.40	52.80	46.886	
46	76	10	5.20	395.20	243.838	
47	6	10	4.05	24.30	14.993	
48	20	10	3.35	67.00	41.339	
49	10	10	1.13	11.30	6.972	
50	4	14	6.40	25.60	30.976	
51	31	10	2.38	73.78	45.522	
52	128	10	3.30	422.40	260.621	
53	2	12	3.30	6.60	5.861	
54	6	14	5.50	33.00	39.930	
55	6	12	2.00	12.00	10.656	
56	166	12	5.80	962.80	854.966	
57	18	12	2.00	36.00	31.968	
58	8	14	5.80	46.40	56.144	
59	4	12	8.10	32.40	28.771	
60	60	10	6.85	411.00	253.587	
61	12	10	5.70	68.40	42.203	
62	6	14	2.60	15.60	18.876	

średnio
średnio

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

WYKAZ STALI ZBROJENIOWEJ Klasa stali: BST 500 SA					
Poz.	szt.	d	Długość	całk.dł	masa(kg)
63	16	10	0.76	12.16	7.503
64	16	10	1.06	16.96	10.464
65	32	10	5.60	179.20	110.566
66	4	14	4.50	18.00	21.780
67	18	12	4.90	88.20	78.322
68	4	14	1.50	6.00	7.260
69	2	14	5.35	10.70	12.947
70	2	12	2.75	5.50	4.884
71	4	14	5.25	21.00	25.410
72	2	12	2.35	4.70	4.174
73	4	12	1.10	4.40	3.907

Całk. ilość stali			
d(mm)	całk.dł	kg/m	masa(kg)
6	93.15	0.222	20.679
10	3974.52	0.617	2452.279
12	3119.85	0.888	2770.427
14	514.00	1.210	621.940
16	154.00	1.580	243.320

masa całk. (kg) 6108.645

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P0 i P1 w osiach M-I/1-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-012
Data : 13.03.2008

ELEMENTY DO WBUDOWANIA

Poz.	ilość	jednostka	opis	materiał	Bestellnummer
1	6	mb	HBT 150 - 12/15	TYP 5 A	IIIN

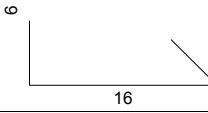
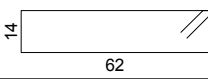
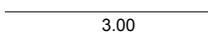
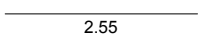
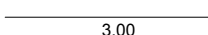
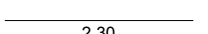
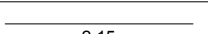

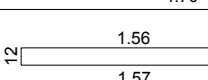
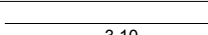
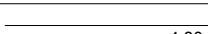
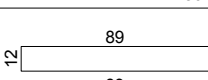
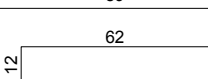
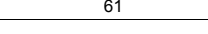
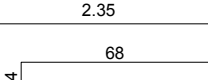
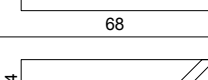
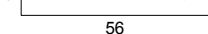

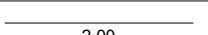
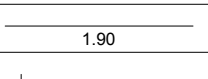
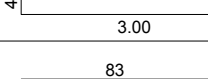
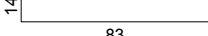
Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Ściany w poziomie P0 i P1 w osiach M-I/1-8
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys Nr : K-012
Data : 13.03.2008

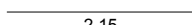

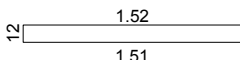
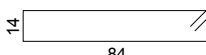
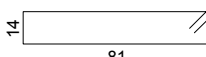




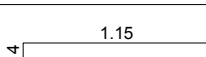
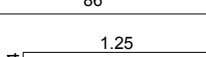
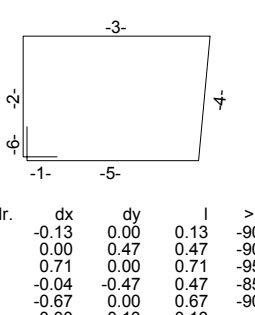

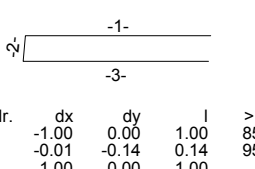
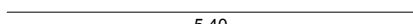
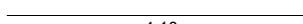
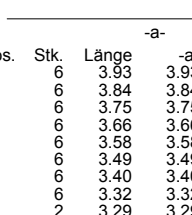
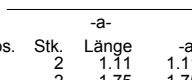
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg
1	345	6	0.27		D1		93.15	20.679
2	17	10	1.72		B1		29.24	18.041
3	34	12	3.00		A1		102.00	90.576
4	108	12	2.55		A1		275.40	244.555
5	4	14	3.00		A1		12.00	14.520
6	3	14	2.30		A1		6.90	8.349
7	58	12	2.15		A1		124.70	110.734
8	102	12	4.70		A1		479.40	425.707
9	8	10	3.25		A3		26.00	16.042
10	8	14	3.10		A1		24.80	30.008
11	22	14	4.80		A1		105.60	127.776
12	18	12	1.90		A3		34.20	30.370
13	85	12	1.35		A3		114.75	101.898
14	76	10	2.35		A1		178.60	110.196
15	461	10	1.50		A3		691.50	426.655
16	17	10	1.60		B1		27.20	16.782
17	4	14	4.00		A1		16.00	19.360
18	84	10	2.00		A1		168.00	103.656
19	32	10	1.90		A1		60.80	37.514
20	4	14	3.40		A2		13.60	16.456
21	2	10	1.80		A3		3.60	2.221
22	38	12	1.85		A1		70.30	62.426

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

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	14	2.15		A1	 2.15	8.60	10.406																																								
24	23	14	2.70		A1	 2.70	62.10	75.141																																								
25	10	12	3.15		A3	 1.52 1.51	31.50	27.972																																								
26	24	10	2.16		B1	 14 84 dług. haków=10.0	51.84	31.985																																								
27	32	10	2.10		B1	 14 81 dług. haków=10.0	67.20	41.462																																								
28	22	10	3.05		A1	 3.05	67.10	41.401																																								
29	4	14	4.60		A1	 4.60	18.40	22.264																																								
30	2	12	4.00		A1	 4.00	8.00	7.104																																								
31	2	14	4.00		A1	 4.00	8.00	9.680																																								
32	78	10	2.15		A3	 14 86 1.15	167.70	103.471																																								
33	78	10	2.40		A3	 14 1.25 1.01	187.20	115.502																																								
34	31	10	2.58		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>>°</th></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>0.47</td><td>0.47</td><td>-90</td></tr><tr><td>3</td><td>0.71</td><td>0.00</td><td>0.71</td><td>-95</td></tr><tr><td>4</td><td>-0.04</td><td>-0.47</td><td>0.47</td><td>-85</td></tr><tr><td>5</td><td>-0.67</td><td>0.00</td><td>0.67</td><td>-90</td></tr><tr><td>6</td><td>0.00</td><td>0.13</td><td>0.13</td><td>-90</td></tr></table>	Nr.	dx	dy	l	>°	1	-0.13	0.00	0.13	-90	2	0.00	0.47	0.47	-90	3	0.71	0.00	0.71	-95	4	-0.04	-0.47	0.47	-85	5	-0.67	0.00	0.67	-90	6	0.00	0.13	0.13	-90	79.98	49.348					
Nr.	dx	dy	l	>°																																												
1	-0.13	0.00	0.13	-90																																												
2	0.00	0.47	0.47	-90																																												
3	0.71	0.00	0.71	-95																																												
4	-0.04	-0.47	0.47	-85																																												
5	-0.67	0.00	0.67	-90																																												
6	0.00	0.13	0.13	-90																																												
35	28	16	5.50		A1	 5.50	154.00	243.320																																								
36	124	10	2.14		X1	 <table><tr><th>Nr.</th><th>dx</th><th>dy</th><th>l</th><th>>°</th></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>	Nr.	dx	dy	l	>°	1	-1.00	0.00	1.00	85	2	-0.01	-0.14	0.14	95	3	1.00	0.00	1.00		265.36	163.727																				
Nr.	dx	dy	l	>°																																												
1	-1.00	0.00	1.00	85																																												
2	-0.01	-0.14	0.14	95																																												
3	1.00	0.00	1.00																																													
37	74	12	5.40		A1	 5.40	399.60	354.845																																								
38	10	10	4.10		A1	 4.10	41.00	25.297																																								
39	50	10	3.61		A1	 <table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th></tr><tr><td>1</td><td>6</td><td>3.93</td><td>3.93</td></tr><tr><td>2</td><td>6</td><td>3.84</td><td>3.84</td></tr><tr><td>3</td><td>6</td><td>3.75</td><td>3.75</td></tr><tr><td>4</td><td>6</td><td>3.66</td><td>3.66</td></tr><tr><td>5</td><td>6</td><td>3.58</td><td>3.58</td></tr><tr><td>6</td><td>6</td><td>3.49</td><td>3.49</td></tr><tr><td>7</td><td>6</td><td>3.40</td><td>3.40</td></tr><tr><td>8</td><td>6</td><td>3.32</td><td>3.32</td></tr><tr><td>9</td><td>2</td><td>3.29</td><td>3.29</td></tr></table>	Pos.	Stk.	Länge	-a-	1	6	3.93	3.93	2	6	3.84	3.84	3	6	3.75	3.75	4	6	3.66	3.66	5	6	3.58	3.58	6	6	3.49	3.49	7	6	3.40	3.40	8	6	3.32	3.32	9	2	3.29	3.29	180.50	111.368
Pos.	Stk.	Länge	-a-																																													
1	6	3.93	3.93																																													
2	6	3.84	3.84																																													
3	6	3.75	3.75																																													
4	6	3.66	3.66																																													
5	6	3.58	3.58																																													
6	6	3.49	3.49																																													
7	6	3.40	3.40																																													
8	6	3.32	3.32																																													
9	2	3.29	3.29																																													
40	10	12	2.38		A1	 <table><tr><th>Pos.</th><th>Stk.</th><th>Länge</th><th>-a-</th></tr><tr><td>1</td><td>2</td><td>1.11</td><td>1.11</td></tr><tr><td>2</td><td>2</td><td>1.75</td><td>1.75</td></tr></table>	Pos.	Stk.	Länge	-a-	1	2	1.11	1.11	2	2	1.75	1.75	23.80	21.134																												
Pos.	Stk.	Länge	-a-																																													
1	2	1.11	1.11																																													
2	2	1.75	1.75																																													

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

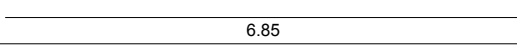
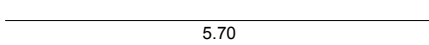
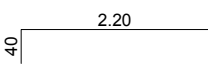
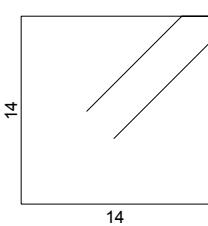
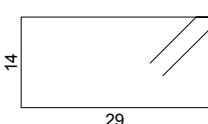
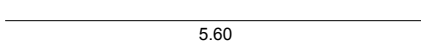
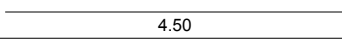
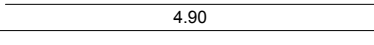
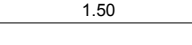
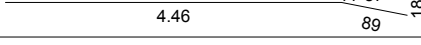
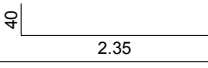
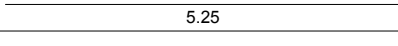
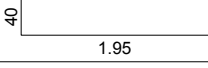
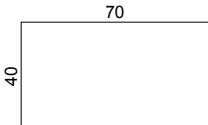
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg																																			
40						<table><tr><td>Pos.</td><td>Stk.</td><td>Länge</td><td>-a-</td></tr><tr><td>3</td><td>2</td><td>2.38</td><td>2.38</td></tr><tr><td>4</td><td>2</td><td>3.02</td><td>3.02</td></tr><tr><td>5</td><td>2</td><td>3.66</td><td>3.66</td></tr></table>	Pos.	Stk.	Länge	-a-	3	2	2.38	2.38	4	2	3.02	3.02	5	2	3.66	3.66																					
Pos.	Stk.	Länge	-a-																																								
3	2	2.38	2.38																																								
4	2	3.02	3.02																																								
5	2	3.66	3.66																																								
41	4	14	4.80		A2		19.20	23.232																																			
42	10	14	2.80		A1		28.00	33.880																																			
43	5	14	2.90		A2		14.50	17.545																																			
44	44	12	5.70		A1		250.80	222.710																																			
45	22	12	2.40		A1		52.80	46.886																																			
46	76	10	5.20		A1		395.20	243.838																																			
47	6	10	4.05		A1		24.30	14.993																																			
48	20	10	3.35		A1		67.00	41.339																																			
49	10	10	1.13		X1	<table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>α°</td></tr><tr><td>1</td><td>-0.00</td><td>-0.14</td><td>0.10</td><td>-150</td></tr><tr><td>2</td><td>-0.32</td><td>0.00</td><td>0.32</td><td>-85</td></tr><tr><td>3</td><td>-0.01</td><td>0.14</td><td>0.14</td><td>-95</td></tr><tr><td>4</td><td>0.34</td><td>-0.00</td><td>0.34</td><td>-150</td></tr><tr><td></td><td></td><td></td><td>0.10</td><td></td></tr></table>	Nr.	dx	dy	l	α°	1	-0.00	-0.14	0.10	-150	2	-0.32	0.00	0.32	-85	3	-0.01	0.14	0.14	-95	4	0.34	-0.00	0.34	-150				0.10		11.30	6.972					
Nr.	dx	dy	l	α°																																							
1	-0.00	-0.14	0.10	-150																																							
2	-0.32	0.00	0.32	-85																																							
3	-0.01	0.14	0.14	-95																																							
4	0.34	-0.00	0.34	-150																																							
			0.10																																								
50	4	14	6.40		A2		25.60	30.976																																			
51	31	10	2.38		X1	<table><tr><td>Nr.</td><td>dx</td><td>dy</td><td>l</td><td>α°</td></tr><tr><td>1</td><td>0.13</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></table>	Nr.	dx	dy	l	α°	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	α°																																							
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																																								
52	128	10	3.30		A1		422.40	260.621																																			
53	2	12	3.30		A1		6.60	5.861																																			
54	6	14	5.50		A1		33.00	39.930																																			
55	6	12	2.00		A1		12.00	10.656																																			
56	166	12	5.80		A1		962.80	854.966																																			
57	18	12	2.00		A3		36.00	31.968																																			
58	8	14	5.80		A1		46.40	56.144																																			
59	4	12	8.10		A2		32.40	28.771																																			

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-012

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

Poz.	Szt.	d	długość	dbr ds	Typ	forma gięcia	suma dł.	ciężar kg
60	60	10	6.85		A1		411.00	253.587
61	12	10	5.70		A1		68.40	42.203
62	6	14	2.60		A2		15.60	18.876
63	16	10	0.76		B1	 dług. haków=10.0	12.16	7.503
64	16	10	1.06		B1	 dług. haków=10.0	16.96	10.464
65	32	10	5.60		A1		179.20	110.566
66	4	14	4.50		A1		18.00	21.780
67	18	12	4.90		A1		88.20	78.322
68	4	14	1.50		A1		6.00	7.260
69	2	14	5.35		C1		10.70	12.947
70	2	12	2.75		A2		5.50	4.884
71	4	14	5.25		A1		21.00	25.410
72	2	12	2.35		A2		4.70	4.174
73	4	12	1.10		A2		4.40	3.907

masa całkow. (kg) 6108.645