

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-311

Dane projektu

Tytuł : wydział Biologii Uniwersytetu Gdańskiego
Element : Podciągi fasadowe w poz. P-3 w osi A-F/2-4, I-M/2-
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys nr : K-311
Data : 31.03.2008

WYKAZ STALI ZBROJENIOWEJ klasa stali: BST 500 SA

Poz.	Nr	d	Długość	całk.dł	masa(kg)	
1	131	8	3.60	471.60	186.282	
2	150	8	2.70	405.00	159.975	
3	4	8	3.90	15.60	6.162	
4	4	8	2.40	9.60	3.792	
5	3	20	8.80	26.40	65.208	
6	12	8	8.90	106.80	42.186	
7	18	8	9.20	165.60	65.412	
8	4	14	9.80	39.20	47.432	
9	3	20	10.10	30.30	74.841	
10	9	16	5.60	50.40	79.632	
11	123	8	1.30	159.90	63.161	
12	38	12	4.70	178.60	158.597	
13	4	12	1.90	7.60	6.749	średnio
14	2	8	1.30	2.60	1.027	
15	18	10	2.70	48.60	29.986	
16	22	10	1.68	36.96	22.804	średnio
17	3	20	5.90	17.70	43.719	
18	12	8	5.90	70.80	27.966	
19	12	10	1.60	19.20	11.846	
20	12	14	5.20	62.40	75.504	
21	18	8	6.80	122.40	48.348	
22	3	20	6.60	19.80	48.906	
23	218	8	3.40	741.20	292.774	
24	218	8	2.80	610.40	241.108	
25	218	8	1.23	268.14	105.915	
26	218	8	0.78	170.04	67.166	
27	12	16	5.45	65.40	103.332	
28	6	16	6.60	39.60	62.568	
29	40	12	5.35	214.00	190.032	
30	20	12	6.40	128.00	113.664	
31	16	14	9.40	150.40	181.984	
32	52	8	12.00	624.00	246.480	
33	52	8	5.10	265.20	104.754	
34	4	20	8.00	32.00	79.040	
35	4	20	8.00	32.00	79.040	
36	6	14	2.40	14.40	17.424	
37	6	20	9.40	56.40	139.308	
38	6	20	9.40	56.40	139.308	
39	4	12	1.93	7.72	6.855	średnio
40	2	12	1.45	2.90	2.575	
41	16	10	1.40	22.40	13.821	
42	20	10	1.19	23.80	14.685	średnio
43	10	10	1.35	13.50	8.329	
44	3	20	4.90	14.70	36.309	
45	12	8	4.90	58.80	23.226	
46	12	10	1.20	14.40	8.885	
47	18	8	5.90	106.20	41.949	średnio
48	3	20	6.00	18.00	44.460	
49	3	20	2.70	8.10	20.007	
50	12	8	3.20	38.40	15.168	
51	4	14	3.60	14.40	17.424	
52	18	8	4.40	79.20	31.284	
53	3	20	6.20	18.60	45.942	
54	4	14	5.20	20.80	25.168	
55	24	6	0.27	6.48	1.439	

Całk. ilość stali

d(mm)	całk.dł	kg/m	masa(kg)
6	6.48	0.222	1.439
8	4491.48	0.395	1774.135
10	178.86	0.617	110.357
12	538.82	0.888	478.472

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Całk. ilość stali d(mm)	całk.dł	kg/m	masa(kg)
14	301.60	1.210	364.936
16	155.40	1.580	245.532
20	330.40	2.470	816.088

masa całk. (kg)			3790.959

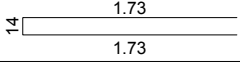
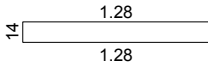
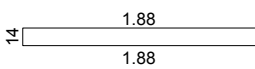
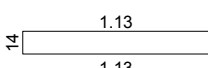
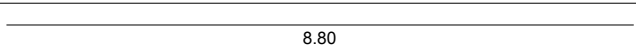
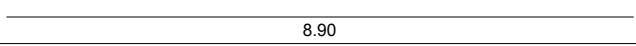
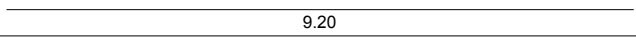
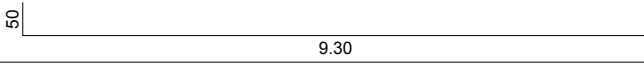
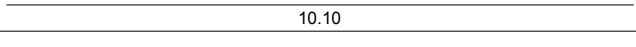
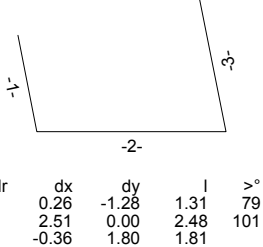
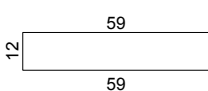
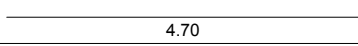
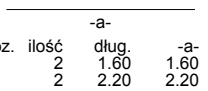
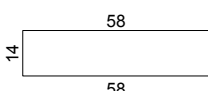
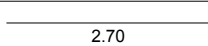
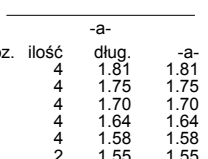
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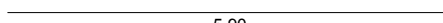





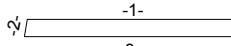
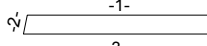
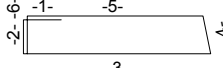
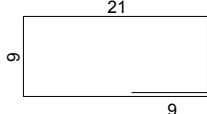
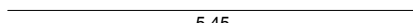
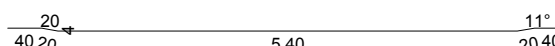
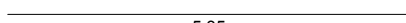
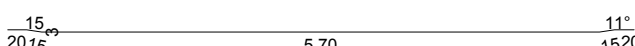
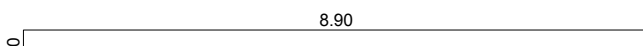



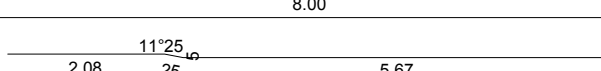
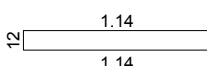
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: BST 500 SA

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg
1	131	8	3.60		A3		471.60	186.282
2	150	8	2.70		A3		405.00	159.975
3	4	8	3.90		A3		15.60	6.162
4	4	8	2.40		A3		9.60	3.792
5	3	20	8.80		A1		26.40	65.208
6	12	8	8.90		A1		106.80	42.186
7	18	8	9.20		A1		165.60	65.412
8	4	14	9.80		A2		39.20	47.432
9	3	20	10.10		A1		30.30	74.841
10	9	16	5.60	15	X1		50.40	79.632
11	123	8	1.30		A3		159.90	63.161
12	38	12	4.70		A1		178.60	158.597
13	4	12	1.90		A1		7.60	6.749
14	2	8	1.30		A3		2.60	1.027
15	18	10	2.70		A1		48.60	29.986
16	22	10	1.68		A1		36.96	22.804

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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																																			
17	3	20	5.90		A1		17.70	43.719																																			
18	12	8	5.90		A1		70.80	27.966																																			
19	12	10	1.60		A1		19.20	11.846																																			
20	12	14	5.20		A2		62.40	75.504																																			
21	18	8	6.80		A1		122.40	48.348																																			
22	3	20	6.60		A1		19.80	48.906																																			
23	218	8	3.40		X1	 <table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>-1.63</td><td>-0.00</td><td>1.63</td><td>79</td></tr><tr><td>2</td><td>-0.03</td><td>-0.14</td><td>0.13</td><td>101</td></tr><tr><td>3</td><td>1.64</td><td>-0.00</td><td>1.63</td><td></td></tr></table>	Nr	dx	dy	l	>°	1	-1.63	-0.00	1.63	79	2	-0.03	-0.14	0.13	101	3	1.64	-0.00	1.63		741.20	292.774															
Nr	dx	dy	l	>°																																							
1	-1.63	-0.00	1.63	79																																							
2	-0.03	-0.14	0.13	101																																							
3	1.64	-0.00	1.63																																								
24	218	8	2.80		X1	 <table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>-1.33</td><td>0.00</td><td>1.33</td><td>79</td></tr><tr><td>2</td><td>-0.03</td><td>-0.14</td><td>0.13</td><td>101</td></tr><tr><td>3</td><td>1.34</td><td>0.00</td><td>1.33</td><td></td></tr></table>	Nr	dx	dy	l	>°	1	-1.33	0.00	1.33	79	2	-0.03	-0.14	0.13	101	3	1.34	0.00	1.33		610.40	241.108															
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Nr	dx	dy	l	>°																																							
1	-0.09	0.00	0.09	90																																							
2	0.00	-0.09	0.09	90																																							
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5	-0.43	0.00	0.43	90																																							
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26	218	8	0.78		B2	 <p>kąt 0 stopni</p>	170.04	67.166																																			
27	12	16	5.45		A1		65.40	103.332																																			
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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																														
37	6	20	9.40		C2	<div><div>11°35'</div><div>1536</div><div>8.89</div></div>	56.40	139.308																														
38	6	20	9.40		X1	<div><div><div>-1-</div><div>-2-</div><div>-3-</div><div>-4-</div><div>-5-</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>2.08</td><td>0.00</td><td>2.08</td><td>11</td></tr><tr><td>2</td><td>0.25</td><td>0.05</td><td>0.25</td><td>-11</td></tr><tr><td>3</td><td>6.56</td><td>0.00</td><td>6.56</td><td>-11</td></tr><tr><td>4</td><td>0.35</td><td>-0.07</td><td>0.36</td><td>11</td></tr><tr><td>5</td><td>0.15</td><td>0.00</td><td>0.15</td><td></td></tr></table></div></div>	Nr	dx	dy	l	>°	1	2.08	0.00	2.08	11	2	0.25	0.05	0.25	-11	3	6.56	0.00	6.56	-11	4	0.35	-0.07	0.36	11	5	0.15	0.00	0.15		56.40	139.308
Nr	dx	dy	l	>°																																		
1	2.08	0.00	2.08	11																																		
2	0.25	0.05	0.25	-11																																		
3	6.56	0.00	6.56	-11																																		
4	0.35	-0.07	0.36	11																																		
5	0.15	0.00	0.15																																			
39	4	12	1.93		A1	<div><div>-a-</div><div><table><tr><td>Poz.</td><td>ilość</td><td>dług.</td><td>-a-</td></tr><tr><td>1</td><td>2</td><td>2.30</td><td>2.30</td></tr><tr><td>2</td><td>2</td><td>1.55</td><td>1.55</td></tr></table></div></div>	Poz.	ilość	dług.	-a-	1	2	2.30	2.30	2	2	1.55	1.55	7.72	6.855																		
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1	2	2.30	2.30																																			
2	2	1.55	1.55																																			
40	2	12	1.45		A3	<div><div>67</div><div>11</div><div>67</div></div>	2.90	2.575																														
41	16	10	1.40		A1	<div><div>1.40</div></div>	22.40	13.821																														
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Poz.	ilość	dług.	-a-																																			
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3	8	1.10	1.10																																			
43	10	10	1.35		A3	<div><div>62</div><div>11</div><div>62</div></div>	13.50	8.329																														
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45	12	8	4.90		A1	<div><div>4.90</div></div>	58.80	23.226																														
46	12	10	1.20		A1	<div><div>1.20</div></div>	14.40	8.885																														
47	18	8	5.90		A1	<div><div>-a-</div><div><table><tr><td>Poz.</td><td>ilość</td><td>dług.</td><td>-a-</td></tr><tr><td>1</td><td>6</td><td>5.80</td><td>5.80</td></tr><tr><td>2</td><td>6</td><td>5.90</td><td>5.90</td></tr><tr><td>3</td><td>6</td><td>6.00</td><td>6.00</td></tr></table></div></div>	Poz.	ilość	dług.	-a-	1	6	5.80	5.80	2	6	5.90	5.90	3	6	6.00	6.00	106.20	41.949														
Poz.	ilość	dług.	-a-																																			
1	6	5.80	5.80																																			
2	6	5.90	5.90																																			
3	6	6.00	6.00																																			
48	3	20	6.00		A1	<div><div>6.00</div></div>	18.00	44.460																														
49	3	20	2.70		A1	<div><div>2.70</div></div>	8.10	20.007																														
50	12	8	3.20		A1	<div><div>3.20</div></div>	38.40	15.168																														
51	4	14	3.60		A2	<div><div>3.10</div><div>50</div></div>	14.40	17.424																														
52	18	8	4.40		A1	<div><div>4.40</div></div>	79.20	31.284																														
53	3	20	6.20		A1	<div><div>6.20</div></div>	18.60	45.942																														
54	4	14	5.20		A1	<div><div>5.20</div></div>	20.80	25.168																														
55	24	6	0.27		D1	<div><div>6</div><div>16</div></div>	6.48	1.439																														

masa całkowita (kg) 3790.958