

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-212

Dane projektu

Tytuł : Wydział Biologii Uniwersytetu Gdańskiego
Element : Podciągi w poziomie P2
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys nr : K-212
Data : 31.03.2008

WYKAZ STALI ZBROJENIOWEJ klasa stali: 500S z elem. do wbudowania

Poz.	Nr	d	Długość	Verb	całk.dł	masa(kg)
1	24	28	12.00	M	288.00	1391.040

Całk. ilość stali

d(mm)	całk.dł	kg/m	masa(kg)
28	288.00	4.830	1391.040

masa całk. (kg) 1391.040

ZESTAWIENIE ELEMENTÓW ŁĄCZĄCYCH

Poz.	szt.	typ	Tekst	Materiał
1	24	M_28	Gewinde+Muffe EL-28-A12	Lenton

M = Mufa

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Element : Podciągi w poziomie P2
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
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WYKAZ STALI ZBROJENIOWEJ klasa stali: 500S

Poz.	Nr	d	Długość	całk.dł	masa(kg)
2	12	28	2.30	27.60	133.308
3	8	28	8.50	68.00	328.440
4	16	28	9.50	152.00	734.160
5	8	28	6.00	48.00	231.840
6	16	28	7.00	112.00	540.960
7	16	28	6.00	96.00	463.680
8	24	12	12.00	288.00	255.744
9	12	12	3.00	36.00	31.968
10	24	12	2.00	48.00	42.624
11	808	10	2.00	1616.00	997.072
12	808	10	1.90	1535.20	947.218
13	16	28	0.44	7.04	34.003
14	12	28	2.80	33.60	162.288
15	8	28	9.00	72.00	347.760
16	8	28	6.50	52.00	251.160
17	12	12	3.50	42.00	37.296
18	40	25	7.10	284.00	1093.400
19	32	25	2.70	86.40	332.640
20	32	25	2.30	73.60	283.360
21	32	25	6.20	198.40	763.840
22	32	12	7.00	224.00	198.912
23	48	12	1.80	86.40	76.723
24	208	10	1.98	411.84	254.105
25	208	10	1.74	361.92	223.305
26	880	10	2.18	1918.40	1183.653
27	880	10	1.86	1636.80	1009.906
28	64	14	2.00	128.00	154.880
29	16	8	1.56	24.96	9.859
30	6	20	7.30	43.80	108.186
31	6	20	4.95	29.70	73.359
32	6	20	6.00	36.00	88.920
33	8	14	8.20	65.60	79.376
34	16	8	7.00	112.00	44.240
35	48	8	1.50	72.00	28.440
36	96	8	2.40	230.40	91.008
37	96	8	1.10	105.60	41.712
38	8	16	2.50	20.00	31.600
39	3	20	7.00	21.00	51.870
40	6	20	8.70	52.20	128.934
41	3	20	12.00	36.00	88.920
42	6	20	7.70	46.20	114.114
43	4	14	12.00	48.00	58.080
44	8	14	6.20	49.60	60.016
45	8	8	12.00	96.00	37.920
46	16	8	5.30	84.80	33.496
47	145	8	2.49	361.05	142.615
48	145	8	1.14	165.30	65.294
49	40	28	7.95	318.00	1535.940
50	32	28	9.10	291.20	1406.496
51	64	28	4.00	256.00	1236.480
52	32	12	8.00	256.00	227.328
53	40	28	8.20	328.00	1584.240
54	32	28	9.35	299.20	1445.136
55	32	12	8.25	264.00	234.432

Całk. ilość stali

d(mm)	całk.dł	kg/m	masa(kg)
8	1252.11	0.395	494.583
10	7480.16	0.617	4615.259
12	1244.40	0.888	1105.027
14	291.20	1.210	352.352
16	20.00	1.580	31.600
20	264.90	2.470	654.303
25	642.40	3.850	2473.240
28	2160.64	4.830	10435.891

masa całk. (kg) 20162.255

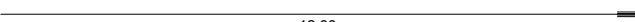
Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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Dane projektu

Tytuł : Wydział Biologii Uniwersytetu Gdańskiego
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Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys nr : K-212
Data : 31.03.2008

WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S z elem. do wbudowania

Poz.	szt.	d	długość	db ds	typ	forma gięcia	suma dł.	ciężar kg
1	24	28	12.00		A1	 12.00 Elementy łączące koniec : M_28 Gewinde+Muffe EL-28-A12 Lenton	k 288.00	1391.040

masa całk. (kg) 1391.040

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

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Dane projektu

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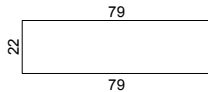
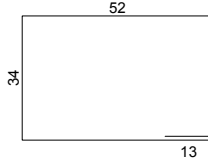
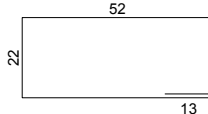
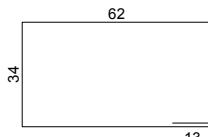
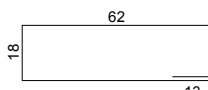
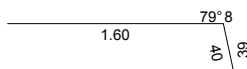
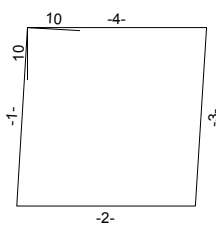
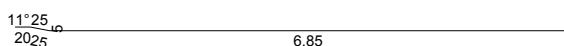
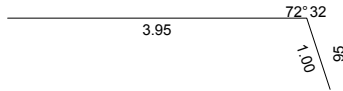
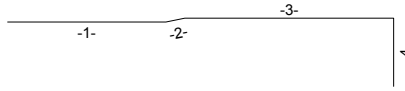
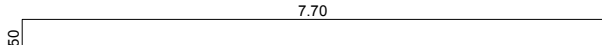
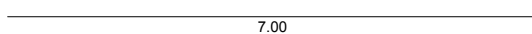
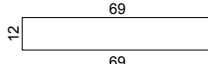
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	dbz ds	typ	forma gięcia	suma dl.	ciężar kg
2	12	28	2.30		A1		27.60	133.308
3	8	28	8.50		C1		68.00	328.440
4	16	28	9.50		A1		152.00	734.160
5	8	28	6.00		C1		48.00	231.840
6	16	28	7.00		A1		112.00	540.960
7	16	28	6.00		A1		96.00	463.680
8	24	12	12.00		A1		288.00	255.744
9	12	12	3.00		A1		36.00	31.968
10	24	12	2.00		A3		48.00	42.624
11	808	10	2.00		A3		1616.00	997.072
12	808	10	1.90		A3		1535.20	947.218
13	16	28	0.44		A1		7.04	34.003
14	12	28	2.80		A1		33.60	162.288
15	8	28	9.00		C1		72.00	347.760
16	8	28	6.50		C1		52.00	251.160
17	12	12	3.50		A1		42.00	37.296
18	40	25	7.10		A1		284.00	1093.400
19	32	25	2.70		X1		86.40	332.640
20	32	25	2.30		A2		73.60	283.360
21	32	25	6.20		A1		198.40	763.840
22	32	12	7.00		A1		224.00	198.912

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WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	db ds	typ	forma gięcia	suma dł.	ciężar kg																														
23	48	12	1.80		A3		86.40	76.723																														
24	208	10	1.98		B2		411.84	254.105																														
25	208	10	1.74		B2		361.92	223.305																														
26	880	10	2.18		B2		1918.40	1183.653																														
27	880	10	1.86		B2		1636.80	1009.906																														
28	64	14	2.00		C1		128.00	154.880																														
29	16	8	1.56		X1	 <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>-0.02</td><td>-0.34</td><td>0.10</td><td>90</td></tr><tr><td>2</td><td>0.34</td><td>0.00</td><td>0.34</td><td>94</td></tr><tr><td>3</td><td>0.02</td><td>0.34</td><td>0.34</td><td>86</td></tr><tr><td>4</td><td>-0.34</td><td>0.00</td><td>0.34</td><td>94</td></tr><tr><td></td><td></td><td></td><td>0.10</td><td>90</td></tr></tbody></table>	Nr	dx	dy	l	>°	1	-0.02	-0.34	0.10	90	2	0.34	0.00	0.34	94	3	0.02	0.34	0.34	86	4	-0.34	0.00	0.34	94				0.10	90	24.96	9.859
Nr	dx	dy	l	>°																																		
1	-0.02	-0.34	0.10	90																																		
2	0.34	0.00	0.34	94																																		
3	0.02	0.34	0.34	86																																		
4	-0.34	0.00	0.34	94																																		
			0.10	90																																		
30	6	20	7.30		C2		43.80	108.186																														
31	6	20	4.95		C1		29.70	73.359																														
32	6	20	6.00		X1	 <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>2.10</td><td>0.00</td><td>2.10</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>2.75</td><td>0.00</td><td>2.75</td><td>-90</td></tr><tr><td>4</td><td>0.00</td><td>-0.90</td><td>0.90</td><td></td></tr></tbody></table>	Nr	dx	dy	l	>°	1	2.10	0.00	2.10	11	2	0.25	0.05	0.25	-11	3	2.75	0.00	2.75	-90	4	0.00	-0.90	0.90		36.00	88.920					
Nr	dx	dy	l	>°																																		
1	2.10	0.00	2.10	11																																		
2	0.25	0.05	0.25	-11																																		
3	2.75	0.00	2.75	-90																																		
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33	8	14	8.20		A2		65.60	79.376																														
34	16	8	7.00		A1		112.00	44.240																														
35	48	8	1.50		A3		72.00	28.440																														

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Poz.	szt.	d	długość	dbz ds	typ	forma gięcia	suma dł.	ciężar kg																									
36	96	8	2.40		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>>°</td></tr><tr><td>1</td><td>-1.13</td><td>-0.00</td><td>1.13</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>1.13</td><td>0.00</td><td>1.13</td><td></td></tr></table></div>	Nr	dx	dy	l	>°	1	-1.13	-0.00	1.13	101	2	0.03	-0.14	0.14	79	3	1.13	0.00	1.13		230.40	91.008					
Nr	dx	dy	l	>°																													
1	-1.13	-0.00	1.13	101																													
2	0.03	-0.14	0.14	79																													
3	1.13	0.00	1.13																														
37	96	8	1.10		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>>°</td></tr><tr><td>1</td><td>0.48</td><td>-0.00</td><td>0.48</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>-0.48</td><td>-0.00</td><td>0.48</td><td></td></tr></table></div>	Nr	dx	dy	l	>°	1	0.48	-0.00	0.48	-79	2	0.03	-0.14	0.14	-101	3	-0.48	-0.00	0.48		105.60	41.712					
Nr	dx	dy	l	>°																													
1	0.48	-0.00	0.48	-79																													
2	0.03	-0.14	0.14	-101																													
3	-0.48	-0.00	0.48																														
38	8	16	2.50		A3	<div><div><div>1.19</div><div>1.19</div></div></div>	20.00	31.600																									
39	3	20	7.00		C1	<div><div><div>3.50</div><div>10°</div><div>3.45</div><div>3.50</div><div>6.25</div></div></div>	21.00	51.870																									
40	6	20	8.70		C2	<div><div><div>6.80</div><div>11°25'</div><div>25</div><div>1.65</div></div></div>	52.20	128.934																									
41	3	20	12.00		C1	<div><div><div>6.00</div><div>10°</div><div>5.91</div><div>6.00</div><div>1.06</div></div></div>	36.00	88.920																									
42	6	20	7.70		X1	<div><div><div><div>-1-</div><div>-2-</div><div>-3-</div><div>-4-</div></div><table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>0.19</td><td>0.98</td><td>1.00</td><td>-79</td></tr><tr><td>2</td><td>4.15</td><td>0.00</td><td>4.15</td><td>-11</td></tr><tr><td>3</td><td>0.25</td><td>-0.05</td><td>0.25</td><td>11</td></tr><tr><td>4</td><td>2.30</td><td>-0.00</td><td>2.30</td><td></td></tr></table></div></div>	Nr	dx	dy	l	>°	1	0.19	0.98	1.00	-79	2	4.15	0.00	4.15	-11	3	0.25	-0.05	0.25	11	4	2.30	-0.00	2.30		46.20	114.114
Nr	dx	dy	l	>°																													
1	0.19	0.98	1.00	-79																													
2	4.15	0.00	4.15	-11																													
3	0.25	-0.05	0.25	11																													
4	2.30	-0.00	2.30																														
43	4	14	12.00		C1	<div><div><div>6.00</div><div>10°</div><div>5.91</div><div>6.00</div><div>1.06</div></div></div>	48.00	58.080																									
44	8	14	6.20		A2	<div><div><div>5.70</div><div>5.0</div></div></div>	49.60	60.016																									
45	8	8	12.00		C1	<div><div><div>6.00</div><div>10°</div><div>5.91</div><div>6.00</div><div>1.06</div></div></div>	96.00	37.920																									
46	16	8	5.30		A1	<div><div><div>5.30</div></div></div>	84.80	33.496																									
47	145	8	2.49		X1	<div><div><div><div>-3-</div><div>-1-</div></div><table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>1.17</td><td>-0.00</td><td>1.17</td><td>109</td></tr><tr><td>2</td><td>-0.05</td><td>0.14</td><td>0.15</td><td>71</td></tr><tr><td>3</td><td>-1.17</td><td>-0.00</td><td>1.17</td><td></td></tr></table></div></div>	Nr	dx	dy	l	>°	1	1.17	-0.00	1.17	109	2	-0.05	0.14	0.15	71	3	-1.17	-0.00	1.17		361.05	142.615					
Nr	dx	dy	l	>°																													
1	1.17	-0.00	1.17	109																													
2	-0.05	0.14	0.15	71																													
3	-1.17	-0.00	1.17																														
48	145	8	1.14		X1	<div><div><div><div>-1-</div><div>-3-</div></div><table><tr><td>Nr</td><td>dx</td><td>dy</td><td>l</td><td>>°</td></tr><tr><td>1</td><td>0.50</td><td>-0.00</td><td>0.50</td><td>-71</td></tr><tr><td>2</td><td>0.05</td><td>-0.14</td><td>0.15</td><td>-109</td></tr><tr><td>3</td><td>-0.49</td><td>-0.00</td><td>0.49</td><td></td></tr></table></div></div>	Nr	dx	dy	l	>°	1	0.50	-0.00	0.50	-71	2	0.05	-0.14	0.15	-109	3	-0.49	-0.00	0.49		165.30	65.294					
Nr	dx	dy	l	>°																													
1	0.50	-0.00	0.50	-71																													
2	0.05	-0.14	0.15	-109																													
3	-0.49	-0.00	0.49																														
49	40	28	7.95		A1	<div><div><div>7.95</div></div></div>	318.00	1535.940																									
50	32	28	9.10		A1	<div><div><div>9.10</div></div></div>	291.20	1406.496																									
51	64	28	4.00		A1	<div><div><div>4.00</div></div></div>	256.00	1236.480																									
52	32	12	8.00		A1	<div><div><div>8.00</div></div></div>	256.00	227.328																									
53	40	28	8.20		A1	<div><div><div>8.20</div></div></div>	328.00	1584.240																									
54	32	28	9.35		A1	<div><div><div>9.35</div></div></div>	299.20	1445.136																									

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WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	db ds	typ	forma gięcia	suma dl.	ciężar kg
55	32	12	8.25		A1	8.25	264.00	234.432

masa calk. (kg) 20162.255