

Projekt: 2007-052 wydział Biologii Uniwersytetu Gdańskiego

/ K-312

Dane projektu

Tytuł : Wydział Biologii Uniwersytetu Gdańskiego
Element : Podciągi w poziomie P3
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys nr : K-312
Data : 31.03.2008

WYKAZ STALI ZBROJENIOWEJ klasa stali: 500S

Poz.	Nr	d	Długość	całk.dł	masa(kg)
1	20	28	12.00	240.00	1159.200
2	8	28	8.00	64.00	309.120
3	16	28	8.60	137.60	664.608
4	8	28	4.90	39.20	189.336
5	16	28	6.00	96.00	463.680
6	16	28	5.00	80.00	386.400
7	24	12	12.00	288.00	255.744
8	12	12	3.00	36.00	31.968
9	908	10	2.00	1816.00	1120.472
10	908	10	1.90	1725.20	1064.448
11	20	28	0.44	8.80	42.504
13	20	28	1.50	30.00	144.900
14	8	28	8.50	68.00	328.440
15	8	28	5.50	44.00	212.520
16	12	12	2.10	25.20	22.378
17	12	12	2.00	24.00	21.312
18	16	14	1.70	27.20	32.912
19	4	8	1.56	6.24	2.465
20	32	14	2.15	68.80	83.248
21	16	14	2.50	40.00	48.400
22	88	10	1.58	139.04	85.788
23	88	10	1.34	117.92	72.757
24	6	20	6.00	36.00	88.920
25	6	20	5.30	31.80	78.546
26	6	20	5.00	30.00	74.100
27	8	14	6.90	55.20	66.792
28	32	8	5.30	169.60	66.992
29	96	8	1.70	163.20	64.464
30	8	16	2.50	20.00	31.600
31	78	8	3.10	241.80	95.511
32	78	8	2.50	195.00	77.025
33	78	8	1.30	101.40	40.053
34	3	20	7.00	21.00	51.870
35	6	20	7.90	47.40	117.078
36	3	20	12.00	36.00	88.920
37	6	20	7.60	45.60	112.632
38	2	14	12.00	24.00	29.040
39	4	14	5.40	21.60	26.136
40	16	8	12.00	192.00	75.840
41	32	8	4.50	144.00	56.880
42	20	8	3.60	72.00	28.440
43	234	8	2.80	655.20	258.804

Całk. ilość stali

d(mm)	całk.dł	kg/m	masa(kg)
8	1940.44	0.395	766.474
10	3798.16	0.617	2343.465
12	373.20	0.888	331.402
14	236.80	1.210	286.528
16	20.00	1.580	31.600
20	247.80	2.470	612.066
28	807.60	4.830	3900.708

masa całk. (kg) 8272.243

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Rys nr : K-312
Data : 31.03.2008

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

Poz.	Nr	d	Długość	Verb	całk.dł	masa(kg)
12	20	28	12.00	M	240.00	1159.200

Całk. ilość stali

d(mm)	całk.dł	kg/m	masa(kg)
28	240.00	4.830	1159.200

masa całk. (kg) 1159.200

ZESTAWIENIE ELEMENTÓW ŁĄCZĄCYCH

Poz.	szt.	typ	Tekst	Materiał
12	20	M_28	Gewinde+Muffe EL-28-A12	Lenton

M = Mufa

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Dane projektu

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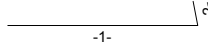
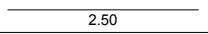
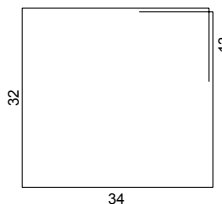
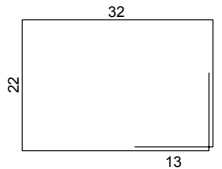
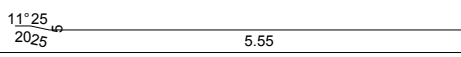
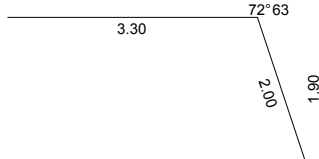
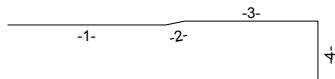
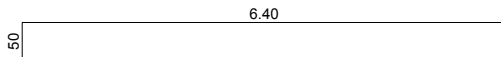
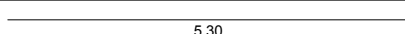
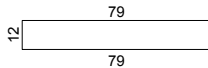
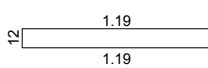
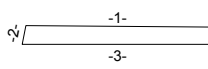
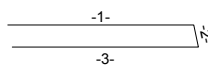
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	dbz ds	typ	forma gięcia	suma dl.	ciężar kg
1	20	28	12.00		A1		240.00	1159.200
2	8	28	8.00		C1		64.00	309.120
3	16	28	8.60		A1		137.60	664.608
4	8	28	4.90		C1		39.20	189.336
5	16	28	6.00		A1		96.00	463.680
6	16	28	5.00		A1		80.00	386.400
7	24	12	12.00		A1		288.00	255.744
8	12	12	3.00		A3		36.00	31.968
9	908	10	2.00		A3		1816.00	1120.472
10	908	10	1.90		A3		1725.20	1064.448
11	20	28	0.44		A1		8.80	42.504
13	20	28	1.50		A1		30.00	144.900
14	8	28	8.50		C1		68.00	328.440
15	8	28	5.50		C1		44.00	212.520
16	12	12	2.10		A1		25.20	22.378
17	12	12	2.00		A3		24.00	21.312
18	16	14	1.70		A2		27.20	32.912
19	4	8	1.56		B2		6.24	2.465

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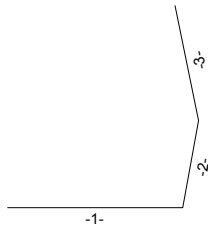
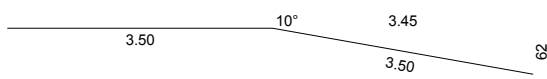

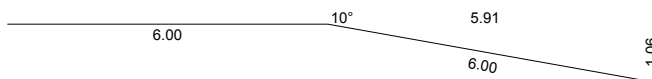
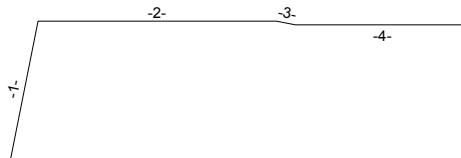
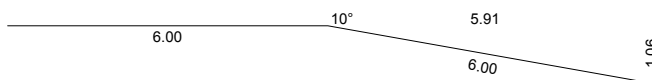
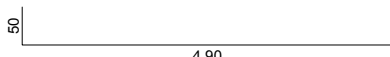
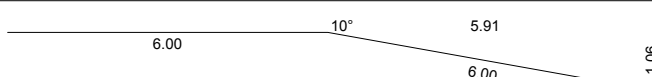
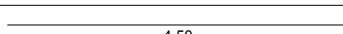
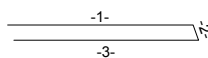
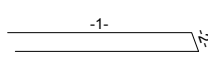
WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg																									
20	32	14	2.15		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>1.90</td><td>0.00</td><td>1.90</td><td>102</td></tr><tr><td>2</td><td>-0.05</td><td>0.25</td><td>0.25</td><td></td></tr></tbody></table>	Nr	dx	dy	l	>°	1	1.90	0.00	1.90	102	2	-0.05	0.25	0.25		68.80	83.248										
Nr	dx	dy	l	>°																													
1	1.90	0.00	1.90	102																													
2	-0.05	0.25	0.25																														
21	16	14	2.50		A1		40.00	48.400																									
22	88	10	1.58		B2	 kąt 0 stopni	139.04	85.788																									
23	88	10	1.34		B2	 kąt 0 stopni	117.92	72.757																									
24	6	20	6.00		C2		36.00	88.920																									
25	6	20	5.30		C1		31.80	78.546																									
26	6	20	5.00		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>1.75</td><td>0.00</td><td>1.75</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	1.75	0.00	1.75	-90	4	0.00	-0.90	0.90		30.00	74.100
Nr	dx	dy	l	>°																													
1	2.10	0.00	2.10	11																													
2	0.25	0.05	0.25	-11																													
3	1.75	0.00	1.75	-90																													
4	0.00	-0.90	0.90																														
27	8	14	6.90		A2		55.20	66.792																									
28	32	8	5.30		A1		169.60	66.992																									
29	96	8	1.70		A3		163.20	64.464																									
30	8	16	2.50		A3		20.00	31.600																									
31	78	8	3.10		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>-1.44</td><td>0.02</td><td>1.44</td><td>80</td></tr><tr><td>2</td><td>-0.03</td><td>-0.16</td><td>0.16</td><td>101</td></tr><tr><td>3</td><td>1.50</td><td>0.00</td><td>1.50</td><td></td></tr></tbody></table>	Nr	dx	dy	l	>°	1	-1.44	0.02	1.44	80	2	-0.03	-0.16	0.16	101	3	1.50	0.00	1.50		241.80	95.511					
Nr	dx	dy	l	>°																													
1	-1.44	0.02	1.44	80																													
2	-0.03	-0.16	0.16	101																													
3	1.50	0.00	1.50																														
32	78	8	2.50		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>1.18</td><td>-0.00</td><td>1.18</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>-1.18</td><td>-0.00</td><td>1.18</td><td></td></tr></tbody></table>	Nr	dx	dy	l	>°	1	1.18	-0.00	1.18	-79	2	0.03	-0.14	0.14	-101	3	-1.18	-0.00	1.18		195.00	77.025					
Nr	dx	dy	l	>°																													
1	1.18	-0.00	1.18	-79																													
2	0.03	-0.14	0.14	-101																													
3	-1.18	-0.00	1.18																														

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WYKAZ FORM GIĘCIA PRĘTÓW ZBROJ. Klasa stali: 500S

Poz.	szt.	d	długość	dbr ds	typ	forma gięcia	suma dł.	ciężar kg																									
33	78	8	1.30		X1	<div><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>0.60</td><td>-0.00</td><td>0.60</td><td>80</td></tr><tr><td>2</td><td>0.05</td><td>0.30</td><td>0.30</td><td>21</td></tr><tr><td>3</td><td>-0.08</td><td>0.39</td><td>0.40</td><td></td></tr></tbody></table></div>	Nr	dx	dy	l	>°	1	0.60	-0.00	0.60	80	2	0.05	0.30	0.30	21	3	-0.08	0.39	0.40		101.40	40.053					
Nr	dx	dy	l	>°																													
1	0.60	-0.00	0.60	80																													
2	0.05	0.30	0.30	21																													
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34	3	20	7.00		C1	<div></div>	21.00	51.870																									
35	6	20	7.90		C2	<div></div>	47.40	117.078																									
36	3	20	12.00		C1	<div></div>	36.00	88.920																									
37	6	20	7.60		X1	<div><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>0.37</td><td>1.86</td><td>1.90</td><td>-79</td></tr><tr><td>2</td><td>3.15</td><td>0.00</td><td>3.15</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></tbody></table></div>	Nr	dx	dy	l	>°	1	0.37	1.86	1.90	-79	2	3.15	0.00	3.15	-11	3	0.25	-0.05	0.25	11	4	2.30	0.00	2.30		45.60	112.632
Nr	dx	dy	l	>°																													
1	0.37	1.86	1.90	-79																													
2	3.15	0.00	3.15	-11																													
3	0.25	-0.05	0.25	11																													
4	2.30	0.00	2.30																														
38	2	14	12.00		C1	<div></div>	24.00	29.040																									
39	4	14	5.40		A2	<div></div>	21.60	26.136																									
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42	20	8	3.60		X1	<div><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>1.73</td><td>-0.00</td><td>1.73</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>-1.72</td><td>0.00</td><td>1.72</td><td></td></tr></tbody></table></div>	Nr	dx	dy	l	>°	1	1.73	-0.00	1.73	-71	2	0.05	-0.14	0.15	-109	3	-1.72	0.00	1.72		72.00	28.440					
Nr	dx	dy	l	>°																													
1	1.73	-0.00	1.73	-71																													
2	0.05	-0.14	0.15	-109																													
3	-1.72	0.00	1.72																														
43	234	8	2.80		X1	<div><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>1.33</td><td>-0.00</td><td>1.33</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>-1.32</td><td>-0.00</td><td>1.32</td><td></td></tr></tbody></table></div>	Nr	dx	dy	l	>°	1	1.33	-0.00	1.33	-71	2	0.05	-0.14	0.15	-109	3	-1.32	-0.00	1.32		655.20	258.804					
Nr	dx	dy	l	>°																													
1	1.33	-0.00	1.33	-71																													
2	0.05	-0.14	0.15	-109																													
3	-1.32	-0.00	1.32																														

masa całkow. (kg) 8272.242

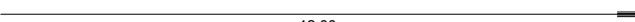
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Dane projektu

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Element : Podciąg w poziomie P3
Inwestor : Uniwersytet Gdański, 80-952 Gdańsk ul. Jana Bażyńskiego 1A
Rys nr : K-312
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
12	20	28	12.00		A1	 12.00 Elementy łączące koniec : M_28 Gewinde+Muffe EL-28-A12 Lenton	k 240.00	1159.200

masa całk. (kg) 1159.200