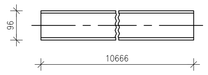
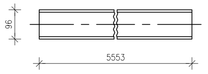
DŹWIGAR KRATOWY
ELEMENTY
1:10

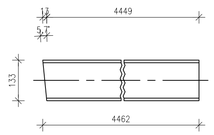


Poz. 12 Widok z przodu (S1:10)
HE 100 A (5 x)

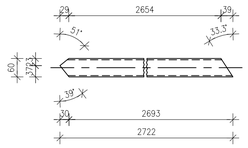


Poz. 13 Widok z przodu (S1:10)
HE 100 A (10 x)

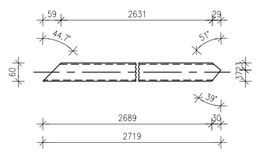
Poz. 14 Widok z przodu (S1:10)
HE 140 A (10 x)



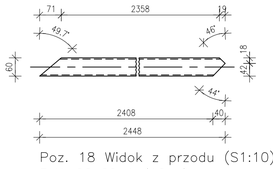
Poz. 15 Widok z przodu (S1:10)
HE 140 A (10 x)



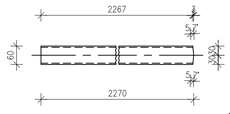
Poz. 16 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



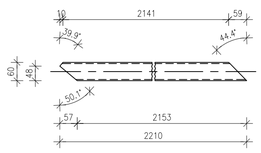
Poz. 17 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



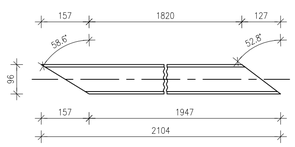
Poz. 18 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



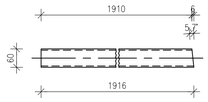
Poz. 19 Widok z przodu (S1:10)
RKA 60x60x4 (5 x)



Poz. 20 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)

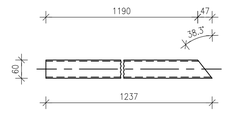


Poz. 21 Widok z przodu (S1:10)
HE 100 A (10 x)

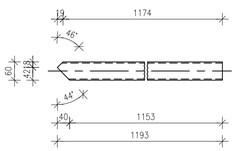


Poz. 22 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)

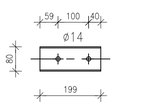
Poz. 23 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



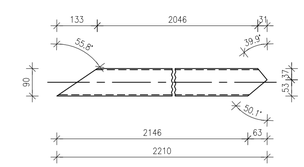
Poz. 24 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



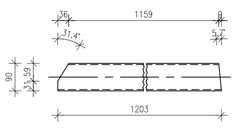
Poz. 25 Widok z przodu (S1:10)
RKA 60x60x4 (10 x)



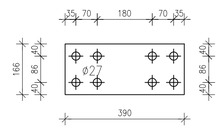
Poz. 26 Widok z przodu (S1:10)
C 80/40x4 (80 x)



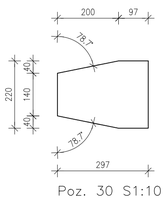
Poz. 27 Widok z przodu (S1:10)
RKB 90x90x4 (10 x)



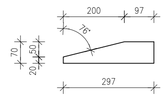
Poz. 28 Widok z przodu (S1:10)
RKB 90x90x4 (10 x)



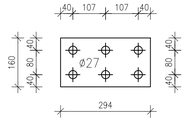
Poz. 29 S1:10
Bl. 390x166x24 (20 x)



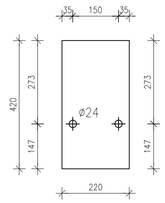
Poz. 30 S1:10
Bl. 297x220x20 (10 x)



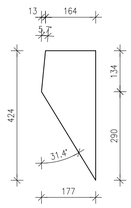
Poz. 31 S1:10
Bl. 297x70x12 (10 x)



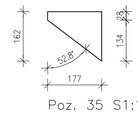
Poz. 32 S1:10
Bl. 294x160x24 (20 x)



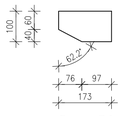
Poz. 33 S1:10
Bl. 420x220x20 (10 x)



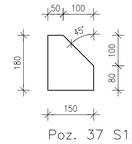
Poz. 34 S1:10
Bl. 424x177x20 (10 x)



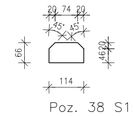
Poz. 35 S1:10
Bl. 177x162x20 (10 x)



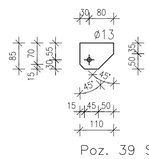
Poz. 36 S1:10
Bl. 173x100x20 (20 x)



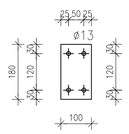
Poz. 37 S1:10
Bl. 180x150x12 (40 x)



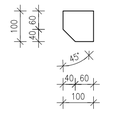
Poz. 38 S1:10
Bl. 114x66x8 (320 x)



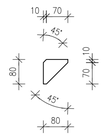
Poz. 39 S1:10
Bl. 110x85x12 (140 x)



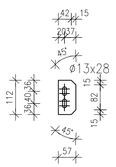
Poz. 40 S1:10
Bl. 180x100x12 (20 x)



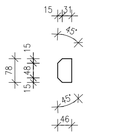
Poz. 41 S1:10
Bl. 100x100x20 (20 x)



Poz. 42 S1:10
Bl. 80x80x12 (40 x)



Poz. 43 S1:10
Bl. 112x57x12 (20 x)



Poz. 44 S1:10
Bl. 78x46x8 (200 x)

ILOŚĆ	NR POZ.	NAZWA	DŁUGOŚĆ	MASA	MAT.
5	12	HE 100 A	10665.64	178.12	S355
10	13	HE 100 A	5552.67	92.73	S355
10	14	HE 140 A	8245.99	203.68	S355
10	15	HE 140 A	4462.23	110.22	S355
10	16	RKA 60x60x4	2722.39	18.84	S355
10	17	RKA 60x60x4	2718.58	18.81	S355
10	18	RKA 60x60x4	2448.03	16.94	S355
5	19	RKA 60x60x4	2270.30	15.71	S355
10	20	RKA 60x60x4	2209.68	15.29	S355
10	21	HE 100 A	2104.11	35.14	S355
10	22	RKA 60x60x4	1916.19	13.26	S355
10	23	RKA 60x60x4	1559.05	10.79	S355
10	24	RKA 60x60x4	1237.45	8.56	S355
10	25	RKA 60x60x4	1192.99	8.26	S355
80	26	C 80/40x4	199.00	0.90	S355
10	27	RKB 90x90x4	2209.76	23.38	S355
10	28	RKB 90x90x4	1203.41	12.73	S355
20	29	Bl. 390x166x24	390.00	12.22	S355
10	30	Bl. 297x220x20	297.00	10.28	S355
10	31	Bl. 297x70x12	297.00	1.98	S355
20	32	Bl. 294x160x24	294.00	8.88	S355
10	33	Bl. 420x220x20	220.00	14.53	S355
10	34	Bl. 424x177x20	177.44	12.13	S355
10	35	Bl. 177x162x20	177.00	4.71	S355
20	36	Bl. 173x100x20	173.00	2.72	S355
40	37	Bl. 180x150x12	150.00	2.55	S355
320	38	Bl. 114x66x8	114.00	0.47	S355
140	39	Bl. 110x85x12	110.24	0.88	S355
20	40	Bl. 180x100x12	100.00	1.70	S355
20	41	Bl. 100x100x20	100.00	1.57	S355
40	42	Bl. 80x80x12	80.06	0.60	S355
20	43	Bl. 112x57x12	57.25	0.61	S355
200	44	Bl. 78x46x8	46.00	0.23	S355
140		M24 x 110 PN 82101	110.00	0.00	8.8
40		M12 x 55 PN 82101	55.00	0.00	8.8
		MASA CAŁKOWITA ELEMENTÓW: 8364 kg			

SPOINY NIEOPISANE:

POSZCZEGÓLNE ELEMENTY ŁĄCZYĆ ZE SOBĄ ZA POMOCĄ SPOIN PACHWINOWO–OBWODOWYCH.
GRUBOŚCI SPOIN "a" STOSOWAĆ W ZALEŻNOŚCI OD RODZAJU ŁĄCZONYCH ELEMENTÓW:
– RURA Z RURĄ; a= GRUBOŚCI ŚCIANKI CIEŃSZEGO Z ŁĄCZONYCH ELEMENTÓW,
– BLACHA LUB KSZAŁTOWNIK WALCOWANY Z RURĄ; a= GRUBOŚCI ŚCIANKI RURY LECZ NIE WIĘCEJ NIŻ 0,7 GRUBOŚCI BLACHY LUB KSZTAŁTOWNIKA,
– POZOSTAŁE ELEMENTY; a= 0,7 GRUBOŚCI CIEŃSZEGO Z ŁĄCZONYCH ELEMENTÓW
W PRZYPADKU SPOIN CZOŁOWYCH STOSOWAĆ SPOINY O PEŁNYM PRZEKROJU

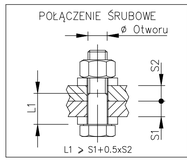
Standardowe grubości spoin pachwinowych do łączenia blach

grubość spoiny a	mniejsza grubość blachy s										
	2	3	4	5	6	8	10	12	15	20	25	30
dwustronna=0,35s	3					4	5	6	8	10	12	
jednostronna=0,70s	3	3	3	4	5	6	7	8	10	12	14	15

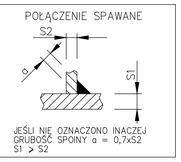
Otwory do śrub i momenty dokręcenia śrub wys. wytrzymałości

Ozn.	Śruba	Otwór Std.	Otwór Ocynk	Mom. dokręcenia 8.8 (Nm)	Mom. dokręcenia 10.9(Nm)	Ozn.	Śruba	Otwór Std.	Otwór Ocynk	Mom. dokręcenia 8.8 (Nm)	Mom. dokręcenia 10.9(Nm)
●	M10	ø12	ø12.5	—	—	✣	M20	ø22	ø22.5	407	575
◆	M12	ø14	ø14.5	83	120	✣	M22	ø24	ø25	597	747
■	M14	ø16	ø16.5	130	190	✣	M24	ø26	ø27	700	995
✣	M16	ø18	ø18.5	202	300	✣	M27	ø29	ø30	1110	1388
✣	M18	ø20	ø20.5	285	405	✣	M30	ø32	ø33	1388	1970

POŁĄCZENIE ŚRUBOWE



POŁĄCZENIE SPAWANE



DBS projekt Konrad Sdegier
ul. Wiejska 76 m. 11
15-352 Białystok
konradszlegier@gmail.com
+48 608 614 183

FAZA PROJEKTU	PROJEKT WYKONAWCZY			
NAZWA PROJEKTU	BUDYNEK PRODUKCYNO - MAGAZYNOWY			
ADRES INWESTYCJI	dz. nr ewid. 1578/134, ul. Fabryczna 7L, 16-020 Czarna Białostocka			
	IMIĘ I NAZWISKO	NR UPR.	NR EW. IZBY	PODPIS
AUTOR	*mgr inż. K. Szlegier*	*PDL/0003/ POOK/08*	*PDL/BO/ 0117/08*	
WSPÓŁPRACA	*mgr inż. R. Kostro*	—	—	
TYTUŁ RYSUNKU	**DŹWIGAR KRATOWY ELEMENTY**			
skala **1:10**	branża KONSTRUKCYJNA	data 10.05.2024	nr rys. **S-3**	

PROJEKT chroniony prawem autorskim – zgodnie z Ustawą o Prawie Autorskim i prawach pokrewnych Dz.U.24,poz.83 z dn.4.02.1994r. Powielanie całości lub fragmentów bez zgody autora projektu – ZABRONIONE.