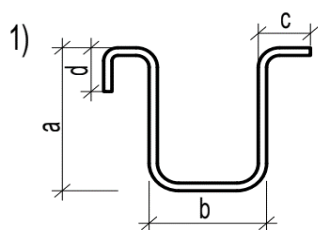


ZESTAWIENIE STALI ZBROJENIOWEJ

Sygnatura projektu:	COS GIŻYCKO
Tytuł rysunku:	Zbrojenie ścian i słupów poziom +2
Numer rysunku:	PW-K-3004
Typ stali:	B500SP

ZASADY INTERPRETACJI DŁUGOŚCI POSZCZEGÓLNYCH SEGMENTÓW PRĘTÓW ZBROJENIOWYCH

RULES OF INTERPRETATION LENGTH OF REBAR BENDING DIMENSIONS



Minimalne średnice wewnętrzne zagięcia:
 $R_g = 4 \times \varnothing$ dla $\varnothing < 20$
 $7 \times \varnothing$ dla $\varnothing > 20$


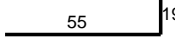
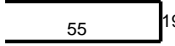
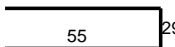
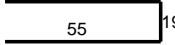
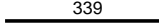
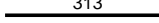
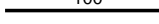
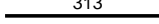
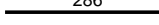

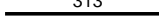




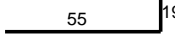





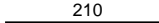
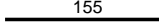
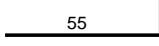
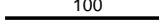
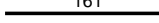
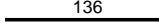
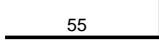
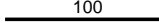
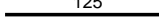
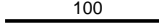

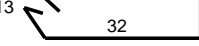
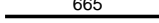
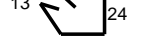
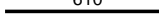
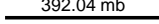
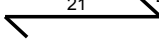

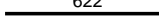
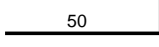

Minimalne średnice wewnętrzne zagięcia:
 dotyczy słupów - prętów głównych odginanych do płyty
 $R_g = 4 \times \varnothing$ dla $\varnothing < 20$
 $7 \times \varnothing$ dla $\varnothing > 20$


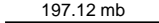
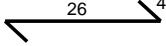
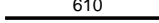

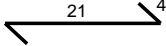
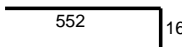
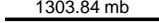
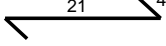
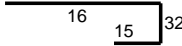
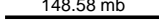
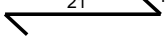
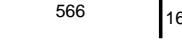
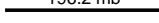
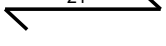

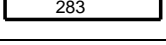
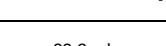
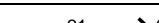
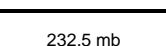
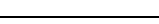
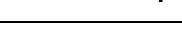




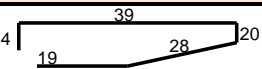
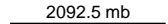
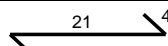
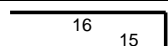
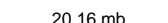
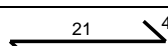
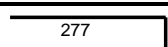
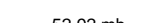
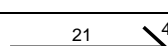
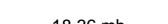
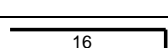
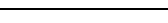
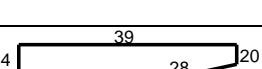

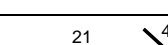

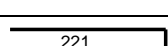
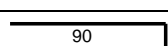
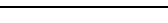
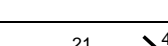
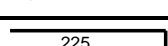
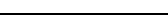
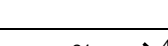

Minimalne średnice wewnętrzne zagięcia:
 $R_g = 4 \times \varnothing$ dla $\varnothing < 20$
 $7 \times \varnothing$ dla $\varnothing > 20$


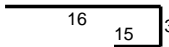
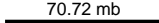
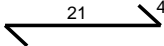
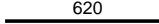
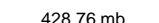
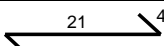
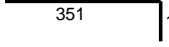
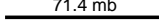
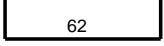
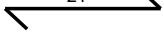
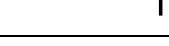

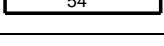
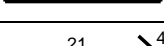
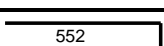
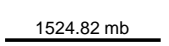
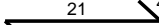
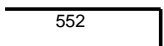
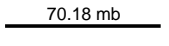
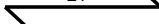


STOSOWAĆ NORMOWE PROMIENIE GIĘCIA PRĘTÓW / USE NORMAL BENDING REBARS RADIUS


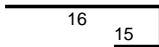
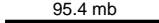
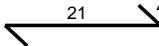
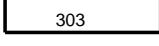
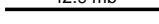
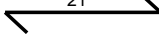
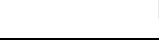


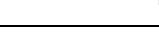
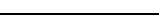
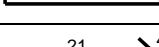
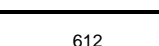

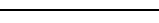
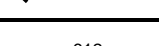
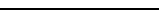
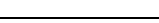

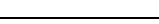

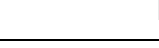

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3004				1 / 7	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S
1	2	3	4	5	6	7	8	9	10	11
szt. 15 Szczegół "n1"	57		-	10	129.0	60	900	1161.0	715.8	S= 715.8
szt. 11 Szczegół "n2"	57		-	10	129.0	30	330	425.7	262.5	S= 262.5
Szczegół "n3"	55		-	10	139.0	-	30	41.7	25.7	S= 49.6
	57		-	10	129.0	-	30	38.7	23.9	
szt. 3 Szczegół "o1"	5		-	16	339.0	4	12	40.7	64.2	S= 197.6
	6		-	16	313.0	8	24	75.1	118.6	
	59		-	10	100.0	8	24	24.0	14.8	
szt. 5 Szczegół "o2"	26		-	12	313.0	8	40	125.2	111.2	S= 186.6
	28		-	12	286.0	4	20	57.2	50.8	
	59		-	10	100.0	8	40	40.0	24.7	
szt. 4 Szczegół "o3"	26		-	12	313.0	8	32	100.2	88.9	S= 141.9
	37		-	12	234.0	4	16	37.4	33.2	
	59		-	10	100.0	8	32	32.0	19.7	
szt. 6 Szczegół "p1"	44		-	12	141.0	4	24	33.8	30.0	S= 142.6
	47		-	12	126.0	4	24	30.2	26.8	
	57		-	10	129.0	14	84	108.4	66.8	
	60		-	8	100.0	8	48	48.0	18.9	
PW-K-3004_SPEC								 SYNERGIA KONSTRUKCJE BUDOWLANE		


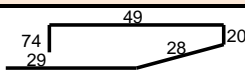
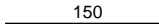
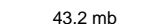
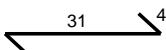

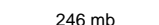
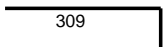
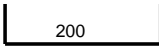
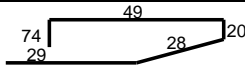
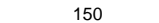
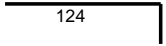
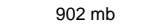
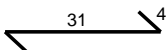
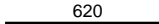

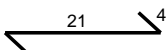

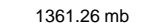
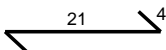
Sygnatura projektu COS GIŻYCKO											
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2											
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3004						2 / 7
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element	
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S	
1	2	3	4	5	6	7	8	9	10	11	
szt. 2 Szczegół "p2"	38		-	12	210.0	4	8	16.8	14.9	76.8 Σ=	
	42		-	12	155.0	4	8	12.4	11.0		
	57		-	10	129.0	28	56	72.2	44.5		
	60		-	8	100.0	8	16	16.0	6.3		
szt. 6 Szczegół "p3"	41		-	12	161.0	4	24	38.6	34.3	168.1 Σ=	
	45		-	12	136.0	4	24	32.6	29.0		
	57		-	10	129.0	18	108	139.3	85.9		
	60		-	8	100.0	8	48	48.0	18.9		
szt. 7 Szczegół "p4"	48		-	12	125.0	8	56	70.0	62.1	84.2 Σ=	
	60		-	8	100.0	8	56	56.0	22.1		
szt. 5 Słup "S1"	3		-	20	655.0	16	80	524.0	1292.3	1765.0 Σ=	
	56		-	10	142.0	108	540	766.8	472.8		
szt. 8 Słup "S2"	2		-	20	665.0	8	64	425.6	1049.6	1273.3 Σ=	
	58		-	10	126.0	36	288	362.9	223.7		
Ściana "Sc-2.1"	12		-	12	610.0	-	92	561.2	498.2	850.5 Σ=	
	52		-	12	392.0 mb	-	-	392.0	348.1		
	63		-	4.5	29.0	-	117	33.9	4.2		
Ściana "Sc-2.10"	8		-	12	624.0	-	22	137.3	121.9	266.6 Σ=	
	9		-	12	622.0	-	22	136.8	121.5		
	49		-	12	119.0	-	22	26.2	23.2		
PW-K-3004_SPEC											
											

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3004				3 / 7	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S
1	2	3	4	5	6	7	8	9	10	11
Ściana "Sc-2.10"	52		-	12	197.1 mb	-	-	197.1	175.0	S= 177.3
	62		-	4.5	34.0	-	54	18.4	2.3	
Ściana "Sc-2.11"	12		-	12	610.0	-	100	610.0	541.6	S= 929.2
	52		-	12	431.5 mb	-	-	431.5	383.1	
	63		-	4.5	29.0	-	126	36.5	4.6	
Ściana "Sc-2.12"	14		-	12	568.0	-	302	1715.4	1522.9	S= 2698.2
	52		-	12	1303.8 mb	-	-	1303.8	1157.6	
	63		-	4.5	29.0	-	490	142.1	17.7	
Ściana "Sc-2.13"	20		-	12	357.0	-	58	207.1	183.8	S= 317.9
	52		-	12	148.6 mb	-	-	148.6	131.9	
	63		-	4.5	29.0	-	60	17.4	2.2	
Ściana "Sc-2.14"	13		-	12	582.0	-	48	279.4	248.0	S= 425.5
	52		-	12	196.2 mb	-	-	196.2	174.2	
	63		-	4.5	29.0	-	90	26.1	3.3	
Ściana "Sc-2.15"	23		-	12	332.0	-	15	49.8	44.2	S= 163.9
	24		-	12	319.0	-	15	47.9	42.5	
	50		-	12	112.0	-	15	16.8	14.9	
	52		-	12	69.3 mb	-	-	69.3	61.5	
	63		-	4.5	29.0	-	20	5.8	0.7	
Ściana "Sc-2.16"	7		-	16	232.5 mb	-	-	232.5	367.0	S= 3337.8
	15		-	12	568.0	-	476	2703.7	2400.4	
	32	<u>Kształt wg rysunku</u>	-	12	270.0	-	238	642.6	570.5	
PW-K-3004_SPEC										

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3004			4 / 7		
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S
1	2	3	4	5	6	7	8	9	10	11
Ściana "Sc-2.16"	40		-	12	181.1	-	238	431.0	382.7	2256.1 S=
	52		-	12	2092.5 mb	-	-	2092.5	1857.8	
	63		-	4.5	29.0	-	434	125.9	15.7	
Ściana "Sc-2.17"	21		-	12	354.0	-	8	28.3	25.1	43.5 S=
	52		-	12	20.2 mb	-	-	20.2	17.9	
	63		-	4.5	29.0	-	12	3.5	0.4	
Ściana "Sc-2.18"	27		-	12	294.0	-	30	88.2	78.3	126.3 S=
	52		-	12	52.9 mb	-	-	52.9	47.0	
	63		-	4.5	29.0	-	28	8.1	1.0	
Ściana "Sc-2.19"	7		-	16	18.4 mb	-	-	18.4	29.0	267.6 S=
	19		-	12	357.0	-	21	75.0	66.6	
	31		-	12	270.0	-	21	56.7	50.3	
	40		-	12	181.1	-	21	38.0	33.8	
	52		-	12	97.9 mb	-	-	97.9	86.9	
	63		-	4.5	29.0	-	28	8.1	1.0	
Ściana "Sc-2.2"	4		-	20	487.8 mb	-	-	487.8	1202.9	4879.7 S=
	36		-	12	236.0	-	744	1755.8	1558.9	
	51		-	12	105.0	-	744	781.2	693.6	
	52		-	12	1585.2 mb	-	-	1585.2	1407.4	
	63		-	4.5	29.0	-	470	136.3	17.0	
Ściana "Sc-2.20"	35		-	12	240.0	-	30	72.0	63.9	93.7 S=
	52		-	12	32.9 mb	-	-	32.9	29.2	
	63		-	4.5	29.0	-	15	4.4	0.5	
PW-K-3004_SPEC										

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024 SPECYFIKACJA DO RYSUNKU NR: PW-K-3004 5 / 7										
Nazwa elementu	nr pręta "I"	kształt pręta [cm]	średnica pręta [mm] B500SP	średnica pręta [mm] B500SP	długość pręta [cm] l _i	Ilość "n _i " [szt.] na 1 el. na Σ el.		"n _i x l _i " [m] L	Ciężar [kg] wg n _i	Ciężar na element S
1	2	3	4	5	6	7	8	9	10	11
Ściana "Sc-2.21"	20		-	12	357.0	-	30	107.1	95.1	S= 159.0
	52		-	12	70.7 mb	-	-	70.7	62.8	
	63		-	4.5	29.0	-	30	8.7	1.1	
Ściana "Sc-2.22"	10		-	12	620.0	-	104	644.8	572.5	S= 958.3
	52		-	12	428.8 mb	-	-	428.8	380.7	
	63		-	4.5	29.0	-	144	41.8	5.2	
Ściana "Sc-2.23"	18		-	12	366.0	-	30	109.8	97.5	S= 185.6
	52		-	12	71.4 mb	-	-	71.4	63.4	
	54		-	12	90.0	-	30	27.0	24.0	
	63		-	4.5	29.0	-	20	5.8	0.7	
Ściana "Sc-2.24"	29		-	12	283.0	-	64	181.1	160.8	S= 399.7
	52		-	12	151.5 mb	-	-	151.5	134.5	
	53		-	12	92.0	-	64	58.9	52.3	
	54		-	12	90.0	-	64	57.6	51.1	
	63		-	4.5	29.0	-	27	7.8	1.0	
Ściana "Sc-2.25"	14		-	12	568.0	-	350	1988.0	1765.0	S= 3139.0
	52		-	12	1524.8 mb	-	-	1524.8	1353.8	
	63		-	4.5	29.0	-	560	162.4	20.3	
Ściana "Sc-2.26"	14		-	12	568.0	-	16	90.9	80.7	S= 144.1
	52		-	12	70.2 mb	-	-	70.2	62.3	
	63		-	4.5	29.0	-	30	8.7	1.1	
PW-K-3004_SPEC										

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:		PW-K-3004						
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S
1	2	3	4	5	6	7	8	9	10	11
Ściana "Sc-2.27"	21		-	12	354.0	-	36	127.4	113.1	199.1 S=
	52		-	12	95.4 mb	-	-	95.4	84.7	
	63		-	4.5	29.0	-	36	10.4	1.3	
Ściana "Sc-2.28"	22		-	12	339.0	-	20	67.8	60.2	98.7 S=
	52		-	12	42.9 mb	-	-	42.9	38.1	
	63		-	4.5	29.0	-	12	3.5	0.4	
Ściana "Sc-2.29"	17		-	12	388.0	-	16	62.1	55.1	86.1 S=
	52		-	12	34.2 mb	-	-	34.2	30.4	
	63		-	4.5	29.0	-	18	5.2	0.7	
Ściana "Sc-2.3"	18		-	12	366.0	-	74	270.8	240.5	466.2 S=
	52		-	12	185.9 mb	-	-	185.9	165.1	
	54		-	12	90.0	-	74	66.6	59.1	
	63		-	4.5	29.0	-	44	12.8	1.6	
Ściana "Sc-2.4"	11		-	12	612.0	-	50	306.0	271.7	456.9 S=
	52		-	12	205.7 mb	-	-	205.7	182.7	
	63		-	4.5	29.0	-	72	20.9	2.6	
Ściana "Sc-2.5"	11		-	12	612.0	-	260	1591.2	1412.7	2446.5 S=
	52		-	12	1152.4 mb	-	-	1152.4	1023.1	
	63		-	4.5	29.0	-	297	86.1	10.8	
Ściana "Sc-2.6"	7		-	16	4.8 mb	-	-	4.8	7.6	97.7 S=
	11		-	12	612.0	-	7	42.8	38.0	
	16		-	12	568.0	-	7	39.8	35.3	
	30	<u>Kształt wg rysunku</u>	-	12	270.0	-	7	18.9	16.8	
PW-K-3004_SPEC										

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poziom +2										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3004				7 / 7	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [m]	Ciężar [kg]	Ciężar na element
			B500SP	B500SP	l _i	na 1 el.	na Σ el.	L	wg n _i	S
1	2	3	4	5	6	7	8	9	10	11
Ściana "Sc-2.6"	39		-	12	201.1	-	7	14.1	12.5	61.5 Σ=
	43		-	12	150.0	-	7	10.5	9.3	
	52		-	12	43.2 mb	-	-	43.2	38.4	
	61		-	4.5	39.0	-	27	10.5	1.3	
Ściana "Sc-2.7"	1		-	25	164.0 mb	-	-	164.0	632.0	4749.9 Σ=
	7		-	16	246.0 mb	-	-	246.0	388.3	
	25		-	12	318.0	-	249	791.8	703.0	
	33	Kształt wg rysunku	-	12	270.0	-	249	672.3	596.9	
	34		-	12	250.0	-	249	622.5	552.7	
	39		-	12	201.1	-	249	500.7	444.6	
	43		-	12	150.0	-	249	373.5	331.6	
	46		-	12	133.0	-	249	331.2	294.0	
	52		-	12	902.0 mb	-	-	902.0	800.8	
	61		-	4.5	39.0	-	126	49.1	6.1	
Ściana "Sc-2.8"	10		-	12	620.0	-	126	781.2	693.6	1218.3 Σ=
	52		-	12	584.1 mb	-	-	584.1	518.5	
	63		-	4.5	29.0	-	170	49.3	6.2	
Ściana "Sc-2.9"	10		-	12	620.0	-	290	1798.0	1596.3	2819.0 Σ=
	52		-	12	1361.3 mb	-	-	1361.3	1208.5	
	63		-	4.5	29.0	-	390	113.1	14.1	
PW-K-3004_SPEC										
