

ZESTAWIENIE STALI ZBROJENIOWEJ

Sygnatura projektu: COS GIŻYCKO

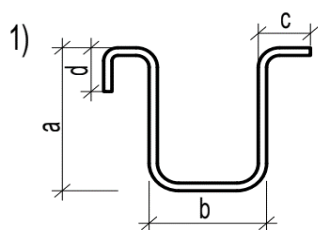
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0

Numer rysunku: PW-K-3002

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 $\varnothing > 20$


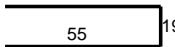
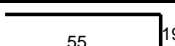
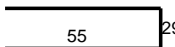
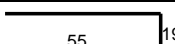
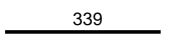
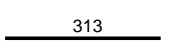
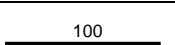
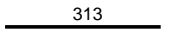
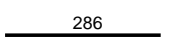
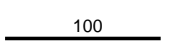
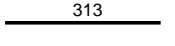
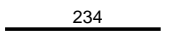
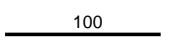
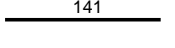
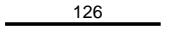
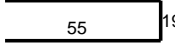
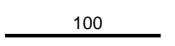




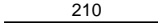
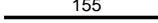
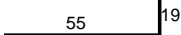
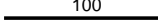
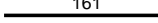
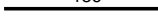
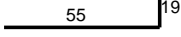
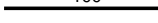



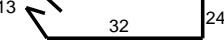
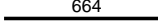
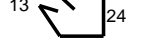
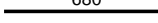
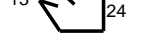
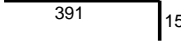
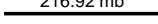
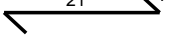

Minimalne średnice wewnętrzne zagięcia:
 dotyczy słupów - prętów głównych odginanych
 do płyty
 $R_g = 4 \times \varnothing$ dla $\varnothing < 20$
 $7 \times \varnothing$ dla $\varnothing > 20$


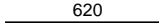

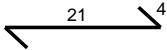

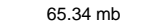
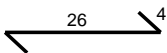
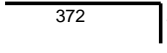
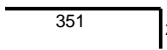
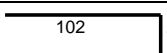
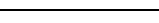
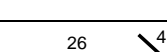
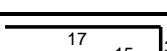
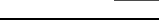
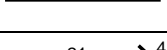


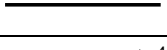


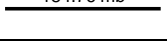
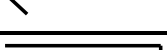
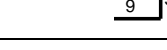
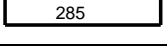





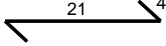

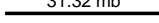
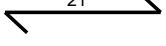
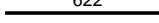
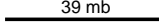
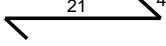
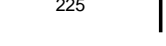



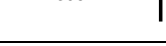


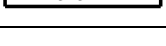
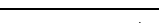
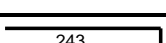
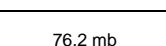
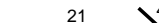


Minimalne średnice wewnętrzne zagięcia:
 $R_g = 4 \times \varnothing$ dla $\varnothing < 20$
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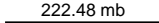
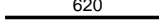
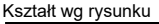
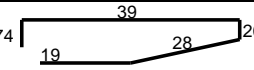
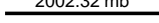
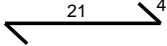
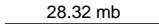
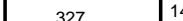
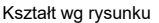
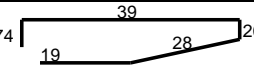
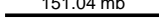
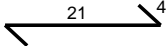

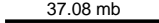
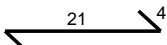
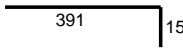
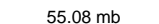
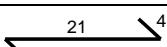
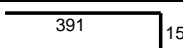
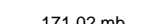
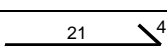

STOSOWAĆ NORMOWE PROMIENIE GIĘCIA PRĘTÓW / USE NORMAL BENDING REBARS RADIUS


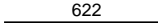
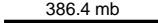
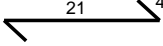
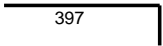

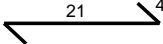
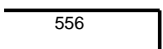
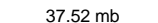
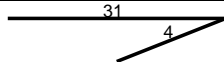
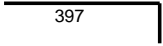
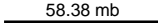
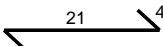

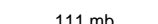
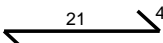
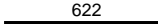
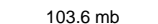
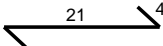
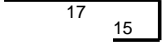
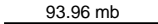
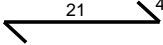

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3002				1 / 8	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [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. 14 Szczegół "n1"	57		-	10	129.0	60	840	1083.6	668.1	S= 668.1
szt. 12 Szczegół "n2"	57		-	10	129.0	30	360	464.4	286.3	S= 286.3
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"	6		-	16	339.0	4	12	40.7	64.2	S= 197.6
	7		-	16	313.0	8	24	75.1	118.6	
	59		-	10	100.0	8	24	24.0	14.8	
szt. 6 Szczegół "o2"	30		-	12	313.0	8	48	150.2	133.4	S= 223.9
	31		-	12	286.0	4	24	68.6	60.9	
	59		-	10	100.0	8	48	48.0	29.6	
szt. 4 Szczegół "o3"	30		-	12	313.0	8	32	100.2	88.9	S= 141.9
	40		-	12	234.0	4	16	37.4	33.2	
	59		-	10	100.0	8	32	32.0	19.7	
szt. 8 Szczegół "p1"	47		-	12	141.0	4	32	45.1	40.1	S= 190.2
	50		-	12	126.0	4	32	40.3	35.8	
	57		-	10	129.0	14	112	144.5	89.1	
	60		-	8	100.0	8	64	64.0	25.3	
PW-K-3002_SPEC									 SYNERGIA KONSTRUKCJE BUDOWLANE	


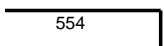
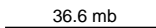
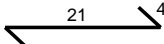
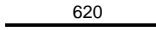
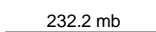
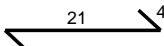
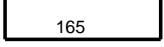
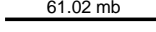
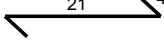
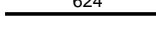
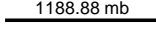
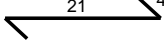
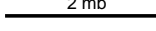
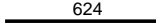
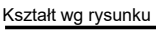
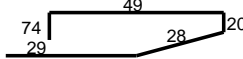
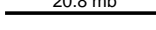
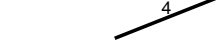
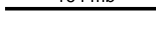
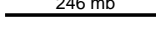
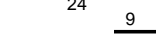
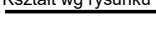
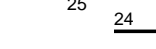

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3002				2 / 8	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [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. 3 Szczegół "p2"	41		-	12	210.0	4	12	25.2	22.4	115.2 Σ=
	46		-	12	155.0	4	12	18.6	16.5	
	57		-	10	129.0	28	84	108.4	66.8	
	60		-	8	100.0	8	24	24.0	9.5	
szt. 5 Szczegół "p3"	45		-	12	161.0	4	20	32.2	28.6	140.1 Σ=
	48		-	12	136.0	4	20	27.2	24.1	
	57		-	10	129.0	18	90	116.1	71.6	
	60		-	8	100.0	8	40	40.0	15.8	
szt. 8 Szczegół "p4"	51		-	12	125.0	8	64	80.0	71.0	96.3 Σ=
	60		-	8	100.0	8	64	64.0	25.3	
szt. 5 Słup "S1"	3		-	20	666.0	16	80	532.8	1314.0	1813.0 Σ=
	56		-	10	142.0	114	570	809.4	499.0	
szt. 4 Słup "S2"	4		-	20	664.0	8	32	212.5	524.0	635.9 Σ=
	58		-	10	126.0	36	144	181.4	111.9	
szt. 10 Słup "S3"	2		-	20	680.0	8	80	544.0	1341.6	1621.2 Σ=
	58		-	10	126.0	36	360	453.6	279.7	
Ściana "Sc-0.1"	19		-	12	406.0	-	82	332.9	295.6	490.3 Σ=
	54		-	12	216.9 mb	-	-	216.9	192.6	
	64		-	4.5	29.0	-	60	17.4	2.2	
PW-K-3002_SPEC										
										


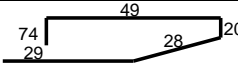
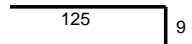
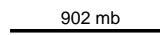
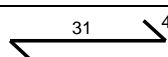
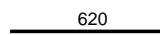
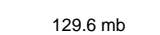
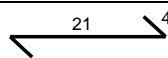
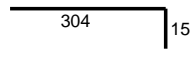
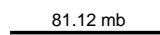
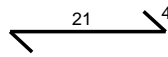
Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3002				3 / 8	
Nazwa elementu	nr pręta "i"	kształt pręta [cm]	średnica pręta [mm]	średnica pręta [mm]	długość pręta [cm]	Ilość "n _i " [szt.]		"n _i x l _i " [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-0.10"	12		-	12	620.0	-	722	4476.4	3974.2	7036.1 S=
	54		-	12	3406.8 mb	-	-	3406.8	3024.6	
	64		-	4.5	29.0	-	1030	298.7	37.3	
Ściana "Sc-0.11"	13		-	12	610.0	-	18	109.8	97.5	157.0 S=
	54		-	12	65.3 mb	-	-	65.3	58.0	
	63		-	4.5	34.0	-	36	12.2	1.5	
Ściana "Sc-0.12"	20		-	12	387.0	-	15	58.1	51.5	179.2 S=
	21		-	12	373.0	-	15	56.0	49.7	
	52		-	12	116.0	-	15	17.4	15.4	
	54		-	12	69.3 mb	-	-	69.3	61.5	
	63		-	4.5	34.0	-	25	8.5	1.1	
Ściana "Sc-0.13"	23		-	12	358.0	-	58	207.6	184.3	322.4 S=
	54		-	12	153.7 mb	-	-	153.7	136.5	
	64		-	4.5	29.0	-	45	13.1	1.6	
Ściana "Sc-0.14"	12		-	12	620.0	-	200	1240.0	1100.9	1925.2 S=
	54		-	12	916.2 mb	-	-	916.2	813.4	
	64		-	4.5	29.0	-	300	87.0	10.9	
Ściana "Sc-0.15"	9		-	12	626.0	-	44	275.4	244.5	411.8 S=
	54		-	12	184.8 mb	-	-	184.8	164.0	
	64		-	4.5	29.0	-	90	26.1	3.3	
Ściana "Sc-0.16"	26		-	12	334.0	-	15	50.1	44.5	102.0 S=
	27		-	12	321.0	-	15	48.2	42.7	
	53		-	12	111.0	-	15	16.7	14.8	
PW-K-3002_SPEC										

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:			PW-K-3002				4 / 8	
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-0.16"	54		-	12	69.3 mb	-	-	69.3	61.5	62.2 S=
	64		-	4.5	29.0	-	20	5.8	0.7	
Ściana "Sc-0.17"	16		-	12	415.0	-	14	58.1	51.6	80.0 S=
	54		-	12	31.3 mb	-	-	31.3	27.8	
	64		-	4.5	29.0	-	18	5.2	0.7	
Ściana "Sc-0.18"	11		-	12	622.0	-	12	74.6	66.3	102.0 S=
	54		-	12	39.0 mb	-	-	39.0	34.6	
	64		-	4.5	29.0	-	30	8.7	1.1	
Ściana "Sc-0.19"	39		-	12	240.0	-	62	148.8	132.1	200.3 S=
	54		-	12	75.7 mb	-	-	75.7	67.2	
	64		-	4.5	29.0	-	27	7.8	1.0	
Ściana "Sc-0.2"	5		-	20	282.3 mb	-	-	282.3	696.1	4791.8 S=
	28		-	12	321.0	-	860	2760.6	2450.9	
	54		-	12	1834.8 mb	-	-	1834.8	1629.0	
	64		-	4.5	29.0	-	436	126.4	15.8	
Ściana "Sc-0.20"	25		-	12	349.0	-	36	125.6	111.5	180.9 S=
	54		-	12	77.1 mb	-	-	77.1	68.5	
	64		-	4.5	29.0	-	24	7.0	0.9	
Ściana "Sc-0.21"	38		-	12	258.0	-	50	129.0	114.5	183.0 S=
	54		-	12	76.2 mb	-	-	76.2	67.7	
	64		-	4.5	29.0	-	24	7.0	0.9	
PW-K-3002_SPEC									 SYNERGIA KONSTRUKCJE BUDOWLANE	

Sygnatura projektu COS GIŻYCKO										
Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
1.11.2024		SPECYFIKACJA DO RYSUNKU NR:		PW-K-3002					5 / 8	
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-0.22"	8		-	16	222.5 mb	-	-	222.5	351.1	5584.4 Σ=
	12		-	12	620.0	-	458	2839.6	2521.0	
	34		-	12	270.0	-	229	618.3	548.9	
	44		-	12	181.1	-	229	414.7	368.2	
	54		-	12	2002.3 mb	-	-	2002.3	1777.7	
	64		-	4.5	29.0	-	480	139.2	17.4	
Ściana "Sc-0.23"	8		-	16	28.3 mb	-	-	28.3	44.7	510.1 Σ=
	24		-	12	355.0	-	64	227.2	201.7	
	35		-	12	270.0	-	32	86.4	76.7	
	44		-	12	181.1	-	32	58.0	51.5	
	54		-	12	151.0 mb	-	-	151.0	134.1	
	64		-	4.5	29.0	-	40	11.6	1.4	
Ściana "Sc-0.24"	18		-	12	409.0	-	14	57.3	50.8	84.4 Σ=
	54		-	12	37.1 mb	-	-	37.1	32.9	
	64		-	4.5	29.0	-	18	5.2	0.7	
Ściana "Sc-0.25"	19		-	12	406.0	-	24	97.4	86.5	136.1 Σ=
	54		-	12	55.1 mb	-	-	55.1	48.9	
	64		-	4.5	29.0	-	20	5.8	0.7	
Ściana "Sc-0.26"	19		-	12	406.0	-	64	259.8	230.7	384.3 Σ=
	54		-	12	171.0 mb	-	-	171.0	151.8	
	64		-	4.5	29.0	-	50	14.5	1.8	
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Tytuł rysunku: Zbrojenie ścian i słupów poz. 0										
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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-0.27"	11		-	12	622.0	-	88	547.4	486.0	832.9 S=
	54		-	12	386.4 mb	-	-	386.4	343.1	
	64		-	4.5	29.0	-	108	31.3	3.9	
Ściana "Sc-0.28"	17		-	12	412.0	-	18	74.2	65.8	114.2 S=
	54		-	12	53.8 mb	-	-	53.8	47.7	
	64		-	4.5	29.0	-	18	5.2	0.7	
Ściana "Sc-0.29"	14		-	12	580.0	-	10	58.0	51.5	86.4 S=
	54		-	12	37.5 mb	-	-	37.5	33.3	
	62		-	4.5	35.0	-	36	12.6	1.6	
Ściana "Sc-0.3"	17		-	12	412.0	-	20	82.4	73.2	125.9 S=
	54		-	12	58.4 mb	-	-	58.4	51.8	
	64		-	4.5	29.0	-	24	7.0	0.9	
Ściana "Sc-0.30"	12		-	12	620.0	-	24	148.8	132.1	232.1 S=
	54		-	12	111.0 mb	-	-	111.0	98.5	
	64		-	4.5	29.0	-	40	11.6	1.4	
Ściana "Sc-0.31"	11		-	12	622.0	-	24	149.3	132.5	225.8 S=
	54		-	12	103.6 mb	-	-	103.6	92.0	
	64		-	4.5	29.0	-	36	10.4	1.3	
Ściana "Sc-0.32"	22		-	12	364.0	-	36	131.0	116.3	200.8 S=
	54		-	12	94.0 mb	-	-	94.0	83.4	
	64		-	4.5	29.0	-	30	8.7	1.1	
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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-0.33"	15		-	12	571.0	-	12	68.5	60.8	94.3 S=	
	54		-	12	36.6 mb	-	-	36.6	32.5		
	64		-	4.5	29.0	-	27	7.8	1.0		
Ściana "Sc-0.34"	12		-	12	620.0	-	50	310.0	275.2	484.3 S=	
	54		-	12	232.2 mb	-	-	232.2	206.2		
	64		-	4.5	29.0	-	80	23.2	2.9		
Ściana "Sc-0.4"	43		-	12	195.0	-	46	89.7	79.6	134.3 S=	
	54		-	12	61.0 mb	-	-	61.0	54.2		
	64		-	4.5	29.0	-	14	4.1	0.5		
Ściana "Sc-0.5"	10		-	12	624.0	-	260	1622.4	1440.4	2506.6 S=	
	54		-	12	1188.9 mb	-	-	1188.9	1055.5		
	64		-	4.5	29.0	-	297	86.1	10.8		
Ściana "Sc-0.6"	8		-	16	2.0 mb	-	-	2.0	3.2	69.0 S=	
	10		-	12	624.0	-	6	37.4	33.2		
	33		-	12	270.0	-	3	8.1	7.2		
	42		-	12	201.1	-	3	6.0	5.4		
	54		-	12	20.8 mb	-	-	20.8	18.5		
	62		-	4.5	35.0	-	36	12.6	1.6		
Ściana "Sc-0.7"	1		-	25	164.0 mb	-	-	164.0	632.0	2817.5 S=	
	8		-	16	246.0 mb	-	-	246.0	388.3		
	32		-	12	284.0	-	249	707.2	627.8		
	36		-	12	270.0	-	249	672.3	596.9		
	37		-	12	259.0	-	249	644.9	572.6		
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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-0.7"	42		-	12	201.1	-	249	500.7	444.6	1547.7 Σ=
	49		-	12	134.0	-	249	333.7	296.2	
	54		-	12	902.0 mb	-	-	902.0	800.8	
	61		-	4.5	39.0	-	126	49.1	6.1	
Ściana "Sc-0.8"	12		-	12	620.0	-	30	186.0	165.1	282.0 Σ=
	54		-	12	129.6 mb	-	-	129.6	115.1	
	64		-	4.5	29.0	-	50	14.5	1.8	
Ściana "Sc-0.9"	29		-	12	319.0	-	40	127.6	113.3	186.2 Σ=
	54		-	12	81.1 mb	-	-	81.1	72.0	
	64		-	4.5	29.0	-	24	7.0	0.9	
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