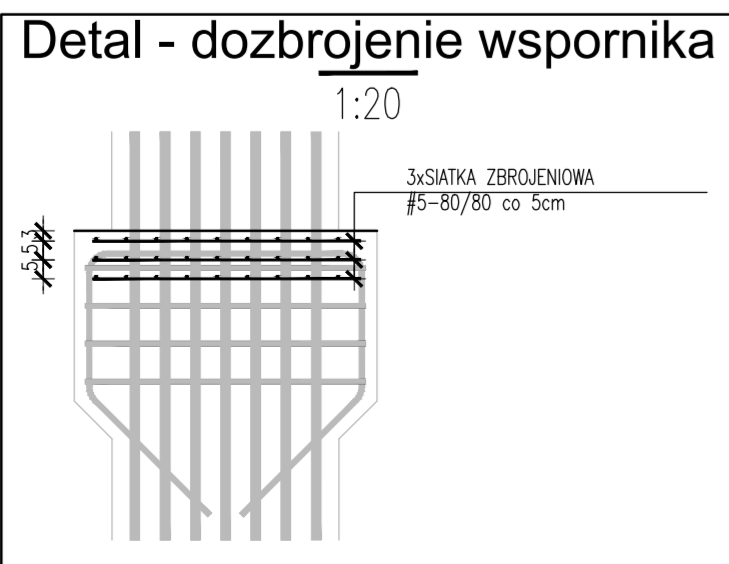


## 1:50



Stal strojevnica / Reinforcement						
Nr prelo bars No	Istoty Quality	Stal Steel B500C	Dugoplet Length	Kazalnik prelo Shape of bar		
		A1	mm			
400	4	16	5,07	150	12	545
401	10	16	6,67	100	12	545
402	3	16	1,68	25	20	
403	5	16	1,68	45	20	
404	12	6	1,68	30	20	
405	12	6	1,60	kazalnik prelo z rybnikom shape according to drawing		
PODSUMOWANIE ZESTAWIENIA / STEEL SPECIFICATION SUMMARY						
Seznam/Order	Stal/Steel	Dugoplet/Length	Waga/Weight	Clas/Mass	[kg]	
6	B500C	41,76	0,272	9,3		
16	B500C	99,82	1,578	157,5		
Masa/Mass	A=1	0	kg			
Masa/mass	B500C	166,6	kg			
Masa/mass	total mass	166,6	kg			

Stal zbrojnice / Reinforcement					
Nr. preloja No. preloja	Izost. količina Reinf. quantity	ØBOPOL ØBOPOL	A-I A-I	Diagon. Length	Kazalo preloja Shape of bar
		mm	mm		
300	4	25	5,64		
301	14	25	6,67		
302	2	25	1,48		
303	20	8	1,60		koristi se prema 1. prikazane forme according to drawing
304	20	8	1,93		

POSOBOMENI ZASTAVENI / SPEC. SPECIFICATION SUMMARY				
Seoski/Diovi Section/Div	Stal. Diagon. Length	Diagon. Length mm	ØBOPOL ØBOPOL	ØBOPOL ØBOPOL
8	B5050P	70,60	1,395	27,9
25	B5050P	118,90	3,853	458,2
Masa/Masa A-I=	0	0	kg	
Masa/Masa B5050P	486	kg		
Masa celovita/celovita masa	486	kg		

Stat strojovina / Reinforcement						
N/ preta for / broj	Iste Quantity	Stat strojovina / Reinforcement		Dugina Length	Kastati preta Shape	
		mm	mm		mm	mm
201	9	25	3,50			
202	4	14	2,30	izvodi opadne + ravnostni stepovi according to drawing		
203	9	25	5,07		150 - 170	505 - 525
204	9	25	3,50			170 - 180
205	7	25	3,38			
206	7	25	2,49		69 - 70	40
207	14	8	2,26	izvodi opadne + ravnostni stepovi according to drawing		
208	14	8	2,73		74 - 75	50

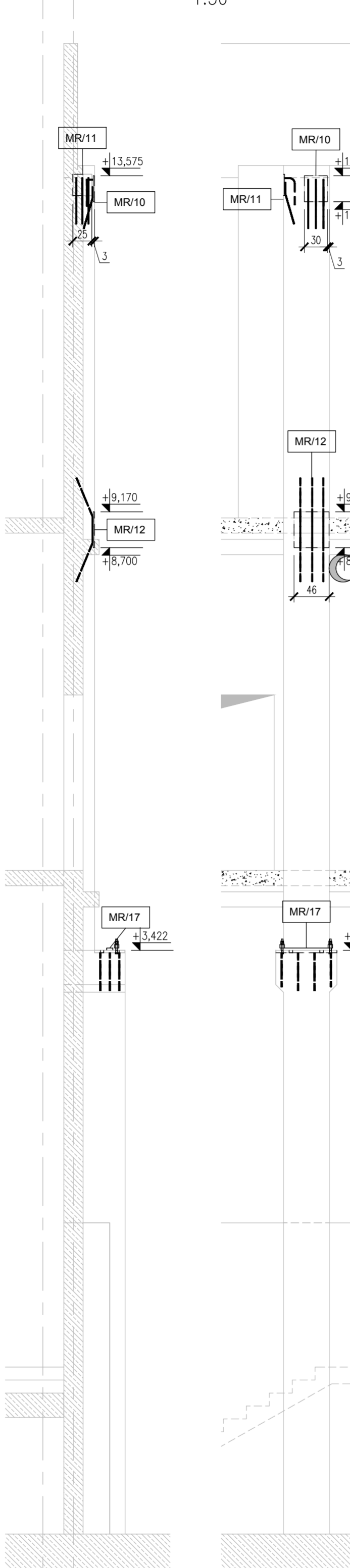
POSGUŠNINE ZASTAVLJAJE / STEP SPECIFICATION SUMMARY				
Stepno/Dravina / Step/Dravina	Dugina/Length	mm	mm	Factor/Steps
8 B50P50	69,86	0,395	27,6	
14 B50P50	9,20	1,208	11,1	
25 B50P50	145,22	3,853	559,6	
Mean/Prosječno	598,3			
Mean calculated/Prosječno izračunato	598,3			

Stal brzojnovi / Reinforcement						
Nr. prilo No	broj Quantity	Širina B500P mm	Debljina A-1 mm	Dugačina Length mm	Katodni Kath. prelo shape of bar	
100	4	25	5	5,88	150 158 420	100
101	3	25	5	5,58	150 158 380	100
102	14	8	3	3,18	16 32	10
103	28	8	0,44			

POSUŠOVANJE ZESTAVENIA / STEEL SPECIFICATION SUMMARY					
Širina/Dezina Width/Depth	Stal/Steel	Dugačina/Length	Masa/Weight kg/m	Dezina/Depth	Masa/Weight kg/m
25	B500P	56,84	0,395	22,4	
25	B500P	40,26	3,853	155,1	
Masa/Steel	A-1	0	kg		
Masa/Steel	B500P	177,6	kg		
Masa celokupna/Total mass		177,6	kg		

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Wkleić za pomocą tynkownicy  
min. 10cm  
np. Hilti RE 500

103 Ø8 -30

Ścianki okienne  
Stalpa

102 Ø8 -30

100 4 Ø25  
w 100 wkłóc  
w płycie fundamentowej

101 3 Ø25  
oprzęta na  
płycie

Stronny dół  
Stronny górny

The technical drawing shows a square column cross-section with a side length of 60 cm. The concrete cover thickness is 80 mm. Reinforcement includes longitudinal bars (2x20 mm) and transverse stirrups (2x16 mm). A detailed view of the corner lap joint shows a lap length of 71 cm, with 16 cm of lap extending outside the column face and 55 cm inside. The lap is staggered by 30 cm between adjacent bars.

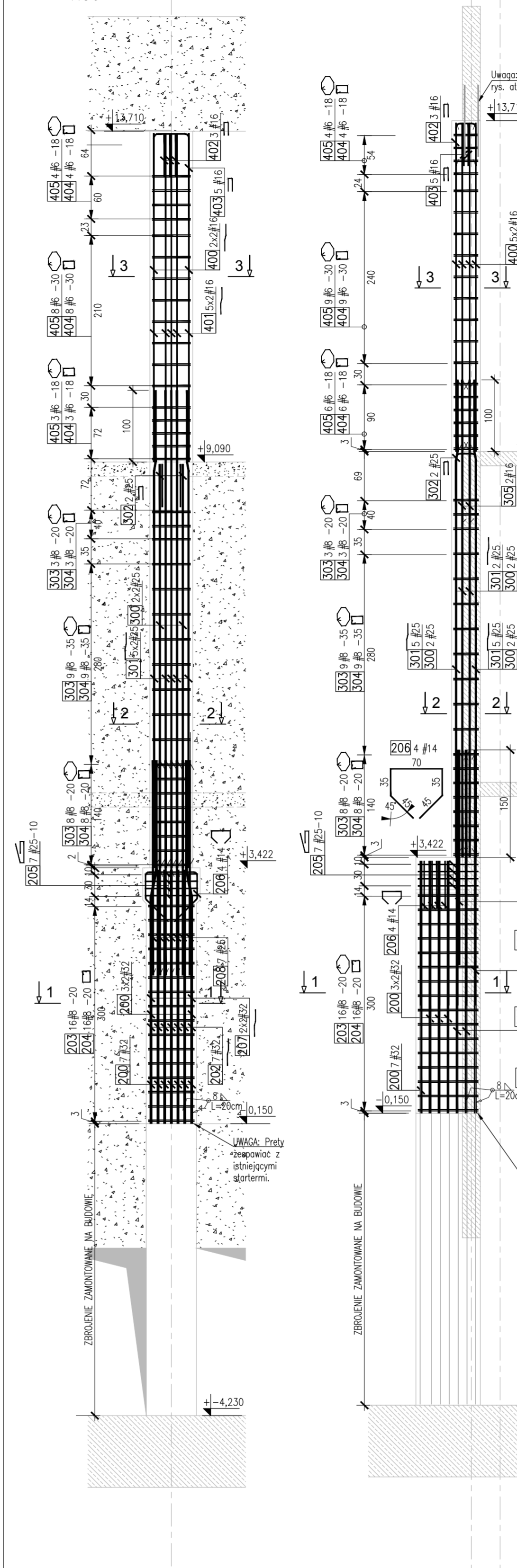
Technical drawing of a roof plan (Dachplan) for a building. The drawing includes the following elements:

- Section Line:** A vertical section line labeled "B2" at the top and "3-3" at the bottom right, with a scale of "1:20".
- Roof Structure:** A central octagonal structure with a hatched pattern, surrounded by a rectangular area with a dashed border. The octagon has side lengths of 10, 17, 20, 20, 17, 10, 17, and 10.
- Dimensions:**
  - Overall width: 41
  - Overall depth: 60
  - Roof slope: 20°
  - Roof pitch: 1:20
- Material Specifications:**
  - 300 2 R25
  - 300 1 R25
  - 300 1 R25
  - 300 2 R25
  - 300 1 R25
  - 300 2 R25
- Other Labels:**
  - 300 1 R25
  - 300 2 R25
  - 300 1 R25
  - 300 2 R25
  - 300 1 R25
  - 300 2 R25

Technical drawing of a square column cross-section. The drawing includes the following details:

- Section Label:** 4-4
- Scale:** 1:20
- Column Dimensions:** 400 mm x 400 mm.
- Reinforcement:** 400 #5/2 #16 (top and bottom), 400 #6 - 20/35 (left and right), 400 #6 - 18/30 (top and bottom), 400 #6 - 16/30 (left and right).
- Dimensions:** 41 mm (total width), 60 mm (core width), 40 mm (core height), 28 mm (core width), 15 mm (core height), 20 mm (core width), 17 mm (core height), 10 mm (core width), 17 mm (core height), 20 mm (core width), 17 mm (core height).
- Notes:** 400 #5/2 #16, 400 #6 - 20/35, 400 #6 - 18/30, 400 #6 - 16/30.

## 1:50



		Stat zbiranje / Reinforcement					
Nr prilo Bar's n	Isotc Quality	Stat Steel Ø2020P mm	A-I mm	Diapause Length mm	Kazalo prilo Shape of bar		
402	14	16		4,60			
402	3	16		1,48		28	60
403	5	16		1,68		48	60
404	19	6		1,60		34	38
405	19	6		1,60			

Kazalo opozna z razpisno  
specifikacijo po prilozi

POSODUMOVNE ZASTAVITVE / SPECIFICATION SUMMARY						
Seznam izena	Stat/Steel	Diapause/Length	mm	mm	mm	mm
6	8500SP	60,80	0,222	15,5	121,9	121,9
6	8500SP	77,24	1,578			

Mass/Mass: A-I 0 kg  
Mass/Mass: Ø2020P 135,4 kg  
Mass/Mass: Ø2020P 135,4 kg

Steel properties / Reinforcement					
No. prepro Bar's nr	Rein. Quantity	Steel SS500P A-1	Duploac Length	Karstall prepro Shape or Size	
		mm	mm	mm	
300	6	25	5,64		
301	12	25	6,67	20	100 x 105
302	2	25	1,48	20	60 x 65
303	20	8	1,60	karstall standard 2 random shape according to drawing	
304	20	8	1,93	34	50
305	2	16	2,00		

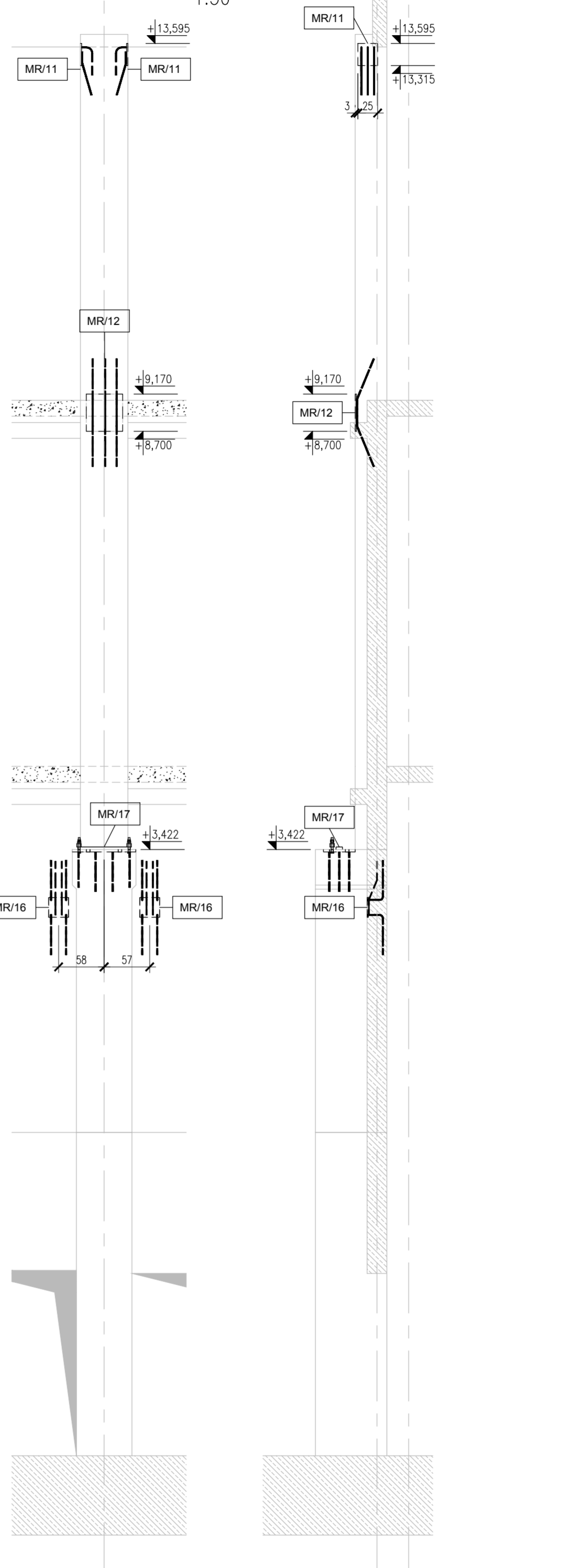
PODROBNIOWE ZESTAWIENIE / STEEL SPECIFICATION SUMMARY					
Reinforcement	Steel Size	Duploac Length	Quantity (m)	Capex (USD)	
6 SS500P	25	5,64	33,78	273	
12 SS500P	25	6,67	16,02	131	
2 SS500P	25	1,48	2,96	23	
20 SS500P	8	1,60	32,64	265	
20 SS500P	8	1,93	38,63	312	
2 SS500P	A-1	0 kg			
Mass/Steel/Volume	SS500P	484,4 kg			
Mass concrete/Total mass		484,4 kg			

Stat zbirjenja / Reinforcement					
Nr prota for bar	Qty Quantity	Stat Steel Steel	Diagonal Length m	Diagonal Length m	Karstelt plate mm
200	13	32	3,52		
202	7	32	5,04	150 13 342	
203	16	8	2,69		isotakt graphite / random shoe according to drawing
204	16	8	1,93	34 20	
205	7	25	3,60		
206	4	14	2,30		isotakt graphite / random shoe according to drawing
207	4	32	5,09	150 9 342	
208	7	25	3,00		

POZICIONIRNO ZESTAVLJENJE / STEEL SPECIFICATION SUMMARY					
Smekajo Steel	Stat Steel	Diagonal Length	Diagonal Length	Diagonal Length	Capit Weight (kg)
8	B500SP	72,48	3,95	28,5	
14	B500SP	46,20	3,963	11,1	
25	B500SP	46,20	3,963	7,0	
32	B500SP	101,36	6,313	439,9	
Mass/Steel	8	0 kg			
Mass/Steel	B500SP	851,7 kg			
Mass/overall total	Mass	851,7 kg			

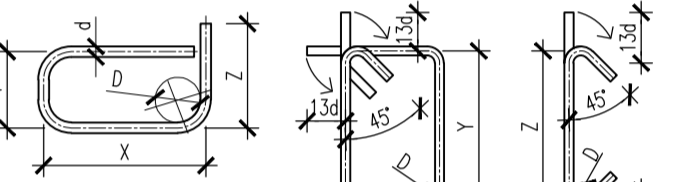
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1.50

BETON C30/37 W4  
OTULINA GÓRNA – 3,5cm  
OTULINA BOCZNA – 3,5cm  
OTULINA DOLNA – 3,5cm  
ø6-B500A, ø8-ø32-B500SP

Nominalna wartość otulin ( $G_{0\text{nom}}$ ) przyjęta do obliczeń wynosi  $G_{0\text{nom}} = G_{\text{min}} + \Delta c$ , gdzie:  
 $G_{\text{min}}$  – wg tabeli  
 $\Delta c$  – 5mm

Wymiary prętów (X, Y, Z) – podano w osiach

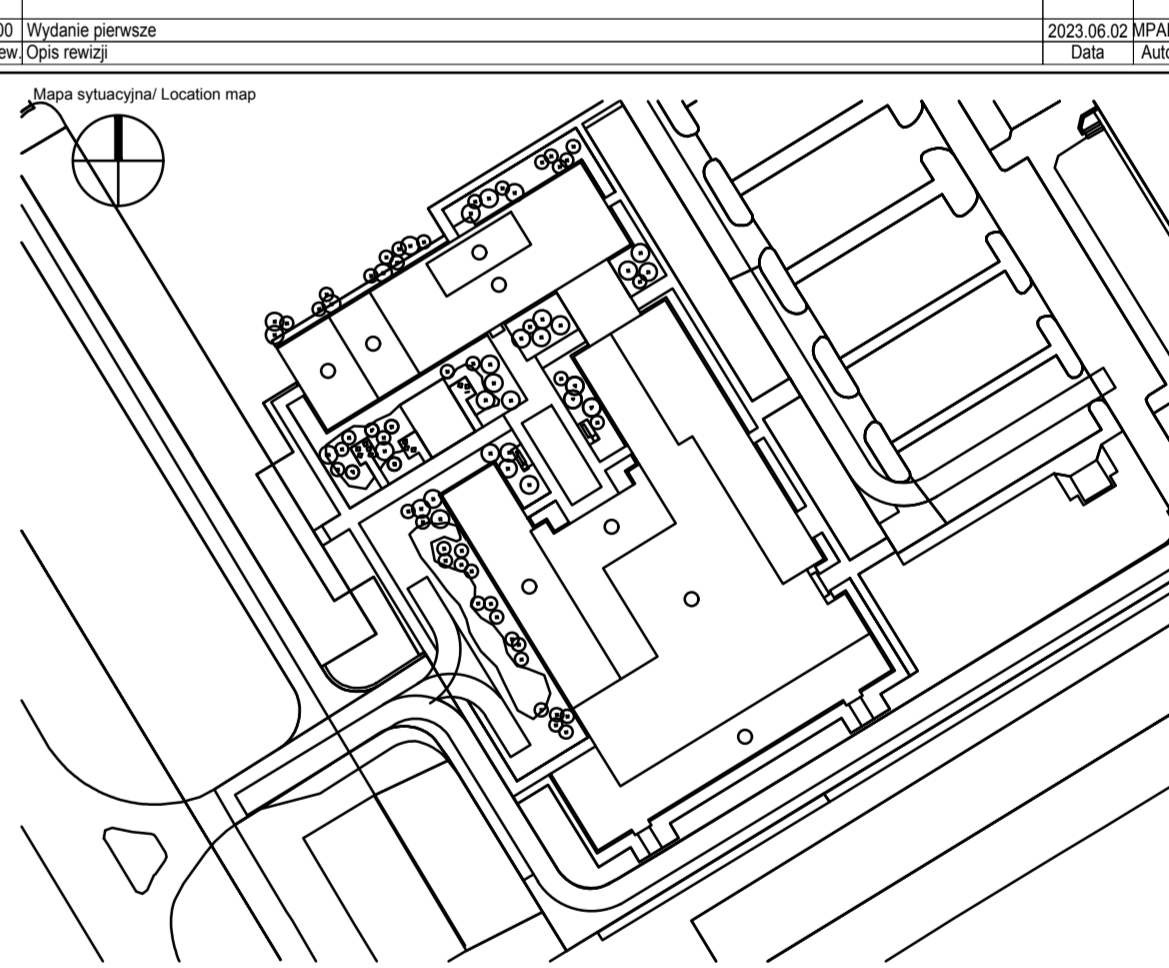
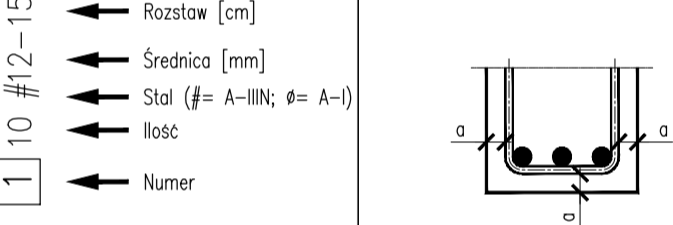


Minimalna średnica gęcia

Stal	d < 20	d ≥ 20
A-I	D = 2,5d	D = 5d
A-III	D = 4d	D = 7d

Długość strzemiem i szpilek pokazana w zestawieniu uwzględnia zapas na każdy hak = 13d (d – średnica).

OTULINA – DO LICA ZBROJEN



Generalny Projektant / Specjalista <b>jak architekt   pszczyzny &amp; rut</b> JSK Architekti Sp. z o.o. ul. Żurkiewicza 1/Wigury 18 02-092 Warszawa tel. 0048 22 660 30 00 e-mail: jak@jsk-waw.pl		Tytuł i zakres Projektu / Project name <b> Budowa Obiektu Laboratoryjnego – Dydaktycznego wraz z zaplecziem technicznym, infrastrukturą i twarząjącą, przeliczając          ciagiennymi komunikacji i zagospodarowaniem terenu na          potrzeby Innowacyjnego Centrum Nauk Zwykniowych – ICNŻ</b>	
Inwestor / Investor <b> Szkoła Główna Gospodarstwa Wiejskiego          w Warszawie</b> ul. Nowoursynowska 166 02-787 Warszawa		Adres projektu / Project Address ul. Nowoursynowska 166 02-787 Warszawa	
Polowykonawca / Subcontractor <b> FORT POLSKA Sp. z o.o.</b> ul. Nowoursynowska 9 85-840 Bydgoszcz tel. 52 361 46 46 e-mail: poczta@fort.pl		Projektant / Designed by <b> mgr inż. Paweł Lachowicz</b> Upr. bud. nr. ABIT/I-1731/2/2000	
		Projektant / Designed by <b> mgr inż. Sebastian Kulikowski</b> Upr. bud. nr. KUP/07B/P00K/14	
Data projektu / Project phase <b> PROJEKT PRZETARGOWY</b>		Data projektu / Project phase <b> KONSTRUKCJA</b>	
		Data projektu / Project phase <b> 12/06/2024</b>	

ZBROJENIE SŁUPÓW CC-A-26; CC-A-27

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