P2001 - PL 6x110x120
Qty.:938 / Material: S355
Sc.:1:10

P2002 - PL 4x26x60
Qty.:764 / Material: S355
Sc.:1:10

P2003 - PL 8x90x205
Qty.:756 / Material: S355
Sc.:1:10

P2004 - PL 5x26x60
Qty.:748 / Material: S355
Sc.:1:10

P2005 - PL 10x52x202
Qty.:576 / Material: S355
Sc.:1:10

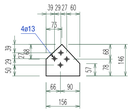
P2006 - PL 4x35x80
Qty.:456 / Material: S355
Sc.:1:10

P2007 - PL 6x52x202
Qty.:456 / Material: S355
Sc.:1:10

P2008 - PL 6x50x110
Qty.:401 / Material: S355
Sc.:1:10

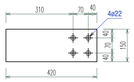
P2009 - PL 8x87x152
Qty.:368 / Material: S355
Sc.:1:10

P2010 - PL 6x146x156
Qty.:287 / Material: S355
Sc.:1:10



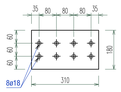
P2011 - PL 10x130x220
Qty.:237 / Material: S355
Sc.:1:10

P2012 - PL 10x150x420
Qty.:236 / Material: S355
Sc.:1:10

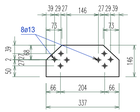


P2013 - PL 4x27x90
Qty.:236 / Material: S355
Sc.:1:10

P2014 - PL 15x180x310
Qty.:144 / Material: S355
Sc.:1:10



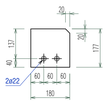
P2015 - PL 6x146x337
Qty.:142 / Material: S355
Sc.:1:10



P2016 - PL 10x60x105
Qty.:127 / Material: S355
Sc.:1:10

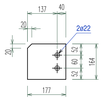
P2017 - PL 10x60x120
Qty.:127 / Material: S355
Sc.:1:10

P2018 - PL 10x177x180
Qty.:122 / Material: S355
Sc.:1:10

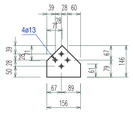


P2019 - PL 16x130x220
Qty.:118 / Material: S355
Sc.:1:10

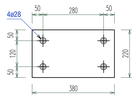
P2020 - PL 10x164x177
Qty.:95 / Material: S355
Sc.:1:10



P2021 - PL 6x146x156
Qty.:90 / Material: S355
Sc.:1:10



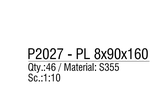
P2022 - PL 20x220x380
Qty.:72 / Material: S355
Sc.:1:10



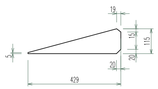
P2023 - PL 8x120x160
Qty.:71 / Material: S355
Sc.:1:10

P2024 - PL 10x110x448
Qty.:68 / Material: S355
Sc.:1:10

P2025 - PL 15x110x358
Qty.:68 / Material: S355
Sc.:1:10

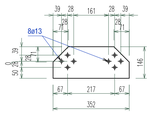


P2026 - PL 6x115x429
Qty.:68 / Material: S355
Sc.:1:10

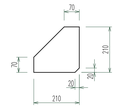


P2027 - PL 8x90x160
Qty.:46 / Material: S355
Sc.:1:10

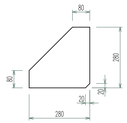
P2028 - PL 6x146x352
Qty.:41 / Material: S355
Sc.:1:10



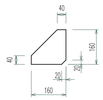
P2029 - PL 10x210x210
Qty.:39 / Material: S355
Sc.:1:10



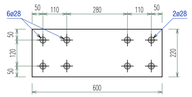
P2030 - PL 10x280x280
Qty.:39 / Material: S355
Sc.:1:10



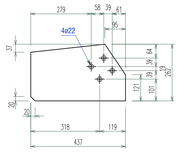
P2031 - PL 10x160x160
Qty.:37 / Material: S355
Sc.:1:10



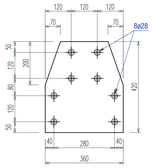
P2032 - PL 20x220x600
Qty.:28 / Material: S355
Sc.:1:10



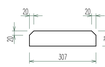
P2033 - PL 15x262x437
Qty.:26 / Material: S355
Sc.:1:10



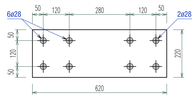
P2034 - PL 20x360x420
Qty.:24 / Material: S355
Sc.:1:10



P2035 - PL 6x70x307
Qty.:24 / Material: S355
Sc.:1:10



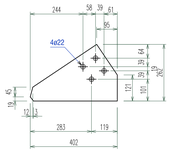
P2036 - PL 20x220x620
Qty.:23 / Material: S355
Sc.:1:10



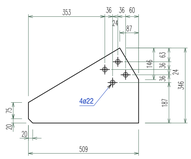
P2037 - PL 8x90x160
Qty.:23 / Material: S355
Sc.:1:10

P2038 - PL 4x40x90
Qty.:20 / Material: S355
Sc.:1:10

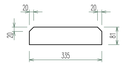
P2039 - PL 15x262x402
Qty.:16 / Material: S355
Sc.:1:10



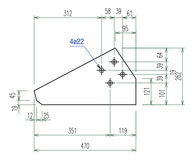
P2040 - PL 15x346x509
Qty.:16 / Material: S355
Sc.:1:10



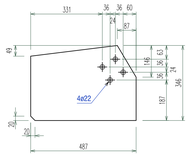
P2041 - PL 12x81x335
Qty.:15 / Material: S355
Sc.:1:10



P2042 - PL 15x262x470
Qty.:15 / Material: S355
Sc.:1:10

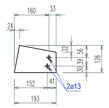


P2043 - PL 15x346x487
Qty.:15 / Material: S355
Sc.:1:10

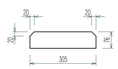


P2044 - PL 10x110x120
Qty.:12 / Material: S355
Sc.:1:10

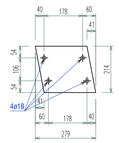
P2045 - PL 8x126x193
Qty.:9 / Material: S355
Sc.:1:10



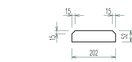
P2046 - PL 10x76x305
Qty.:8 / Material: S355
Sc.:1:10



P2047 - PL 12x214x279
Qty.:8 / Material: S355
Sc.:1:10

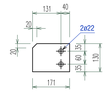


P2048 - PL 6x52x202
Qty.:8 / Material: S355
Sc.:1:10



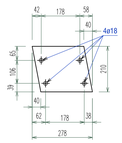
P2049 - PL 8x70x307
Qty.:8 / Material: S355
Sc.:1:10

P2050 - PL 10x130x171
Qty.:7 / Material: S355
Sc.:1:10

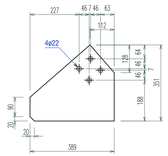


P2051 - PL 10x110x160
Qty.:6 / Material: S355
Sc.:1:10

P2052 - PL 12x210x278
Qty.:6 / Material: S355
Sc.:1:10

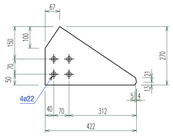


P2053 - PL 15x351x389
Qty.:6 / Material: S355
Sc.:1:10

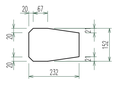


P2054 - PL 10x87x152
Qty.:5 / Material: S355
Sc.:1:10

P2055 - PL 15x270x422
Qty.:5 / Material: S355
Sc.:1:10



P2056 - PL 10x152x232
Qty.:4 / Material: S355
Sc.:1:10

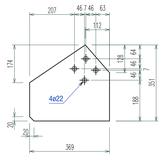


P2057 - PL 12x160x1143
Qty.:4 / Material: S355
Sc.:1:10

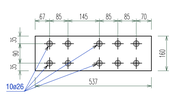
P2058 - PL 12x160x664
Qty.:4 / Material: S355
Sc.:1:10

P2059 - PL 15x110x220
Qty.:4 / Material: S355
Sc.:1:10

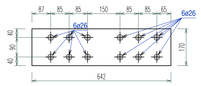
P2060 - PL 15x351x369
Qty.:4 / Material: S355
Sc.:1:10



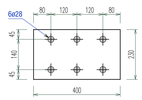
P2061 - PL 20x160x537
Qty.:4 / Material: S355
Sc.:1:10



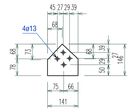
P2062 - PL 20x170x642
Qty.:4 / Material: S355
Sc.:1:10



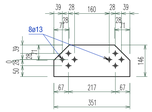
P2063 - PL 20x230x400
Qty.:4 / Material: S355
Sc.:1:10



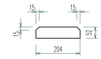
P2064 - PL 6x141x146
Qty.:4 / Material: S355
Sc.:1:10



P2065 - PL 6x146x351
Qty.:4 / Material: S355
Sc.:1:10

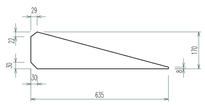


P2066 - PL 6x52x204
Qty.:4 / Material: S355
Sc.:1:10



P2067 - PL 6x64x250
Qty.:4 / Material: S355
Sc.:1:10

P2068 - PL 8x170x635
Qty.:4 / Material: S355
Sc.:1:10

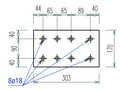


P2069 - PL 8x246x1114
Qty.:4 / Material: S355
Sc.:1:10

P2070 - PL 8x52x204
Qty.:4 / Material: S355
Sc.:1:10

P2071 - PL 10x70x74
Qty.:3 / Material: S355
Sc.:1:10

P2072 - PL 15x170x303
Qty.:3 / Material: S355
Sc.:1:10



Mark	Quantity	Description	Length	Grade	Part weight	Total weight
P2001	938	PL 6x110x120	120	S355	0.6	583.2
P2002	764	PL 4x26x60	60	S355	0	37.4
P2003	756	PL 8x90x205	205	S355	1.2	875.9
P2004	748	PL 5x26x60	60	S355	0.1	45.8
P2005	576	PL 10x52x202	202	S355	0.8	468
P2006	456	PL 4x35x80	80	S355	0.1	40.1
P2007	456	PL 6x52x202	202	S355	0.5	216.8
P2008	401	PL 6x50x110	110	S355	0.3	103.9
P2009	368	PL 8x87x152	152	S355	0.8	296.4
P2010	287	PL 6x146x156	156	S355	0.8	223.4
P2011	237	PL 10x130x220	220	S355	2.2	532.1
P2012	236	PL 10x150x420	420	S355	4.9	1167.1
P2013	236	PL 4x27x90	90	S355	0.1	18
P2014	144	PL 15x180x310	310	S355	6.6	946.1
P2015	142	PL 6x146x337	337	S355	2.1	294.5
P2016	127	PL 10x60x105	105	S355	0.4	53.1
P2017	127	PL 10x60x120	120	S355	0.4	53.1
P2018	122	PL 10x177x180	180	S355	2.5	303.2
P2019	118	PL 16x130x220	220	S355	3.6	423.9
P2020	95	PL 10x164x177	177	S355	2.3	215
P2021	90	PL 6x146x156	156	S355	0.8	70.3
P2022	72	PL 20x220x380	380	S355	13.1	945
P2023	71	PL 8x120x160	160	S355	1.2	85.6
P2024	68	PL 10x110x448	448	S355	3.9	263.1
P2025	68	PL 15x110x358	358	S355	4.6	315.1
P2026	68	PL 6x115x429	429	S355	1.2	84.7
P2027	46	PL 8x90x160	160	S355	0.9	41.6
P2028	41	PL 6x146x352	352	S355	2.2	89.3
P2029	39	PL 10x210x210	210	S355	2.7	104.4
P2030	39	PL 10x280x280	280	S355	4.6	178.2
P2031	37	PL 10x160x160	160	S355	1.4	52.9
P2032	28	PL 20x220x600	600	S355	20.7	580.3
P2033	26	PL 15x262x437	437	S355	11.9	309.7
P2034	24	PL 20x360x420	420	S355	21.5	517
P2035	24	PL 6x70x307	307	S355	1	23.8
P2036	23	PL 20x220x620	620	S355	21.4	492.5
P2037	23	PL 8x90x160	160	S355	0.9	20.8
P2038	20	PL 4x40x90	90	S355	0.1	2.3
P2039	16	PL 15x262x402	402	S355	7.8	125.3
P2040	16	PL 15x346x509	509	S355	13.7	219.6
P2041	15	PL 12x81x335	335	S355	2.5	37.7
P2042	15	PL 15x262x470	470	S355	9.2	138.6
P2043	15	PL 15x346x487	487	S355	17.9	268.7
P2044	12	PL 10x110x120	120	S355	1	12.4
P2045	9	PL 8x126x193	193	S355	1.3	11.3
P2046	8	PL 10x76x305	305	S355	1.8	14.4
P2047	8	PL 12x214x279	279	S355	4.8	38.4
P2048	8	PL 6x52x202	202	S355	0.5	3.9
P2049	8	PL 8x70x307	307	S355	1.3	10.6
P2050	7	PL 10x130x171	171	S355	1.7	12.1
P2051	6	PL 10x110x160	160	S355	1.4	8.3
P2052	6	PL 12x210x278	278	S355	4.7	28.3
P2053	6	PL 15x351x389	389	S355	11.3	67.6
P2054	5	PL 10x87x152	152	S355	1	5
P2055	5	PL 15x270x422	422	S355	8	40.1
P2056	4	PL 10x152x232	232	S355	2.5	10
P2057	4	PL 12x160x1143	1143	S355	17.2	68.9
P2058	4	PL 12x160x664	664	S355	10	40
P2059	4	PL 15x110x220	220	S355	2.8	11.4
P2060	4	PL 15x351x369	369	S355	11.7	47
P2061	4	PL 20x160x537	537	S355	13.5	53.9
P2062	4	PL 20x170x642	642	S355	17.1	68.5
P2063	4	PL 20x230x400	400	S355	14.4	57.8
P2064	4	PL 6x141x146	146	S355	0.7	2.9
P2065	4	PL 6x146x351	351	S355	2.2	8.7
P2066	4	PL 6x52x204	204	S355	0.5	2
P2067	4	PL 6x64x250	250	S355	0.7	3
P2068	4	PL 8x170x635	635	S355	3.6	14.6
P2069	4	PL 8x246x1114	1114	S355	9	35.9
P2070	4	PL 8x52x204	204	S355	0.7	2.6
P2071	3	PL 10x70x74	74	S355	0.3	0.9
P2072	3	PL 15x170x303	303	S355	6.1	18.2
	8372				Combined Total	**12562.2**

NOTE CONFECTIE METALICA

1. Condițiile tehnice de calitate vor respecta prevederile SR EN 1090-2; Executarea structurilor din oțel și aluminiu. Partea 2: Cerințe tehnice pentru structuri de oțel. Clasa de execuție a structurii metalice este **EXC 3**
2. Toleranțe la execuția în uzina a elementelor cu dimensiuni:
   < 5.00m - 0.50mm / > 5.00m - 1.00mm
3. Nivelul de acceptare pentru îmbinările sudate este "B" pentru cordoanele de sudura în adancime sil "C" pentru cordoanele de sudura în relief, în conformitate cu normativul C150-1999.
4. Dacă nu se specifică altfel în desen sudurile se vor executa în relief cu grosimea egala cu $0.7x_{min}$, unde t_{min} reprezinta grosimea minima a elementelor care se sudeaza, pe toata lungimea de contact a acestora.
5. Placile de capat se vor suda cu sudura în adancime in K cu patrundere totala sau cu sudura în V sii resudarea radacinii.
6. In atelierul de confectii montaj se va face colligatorlu preasamblarea tronsoanelor si se vor verifica dimensiunile ansamblului. Orice nepotivire de date sau de cote va fi semnalata proiectantului. Constructorul este direct raspunzator pentru asigurarea stabilitatii structurii pe durata montajului acestea.
7. Toate cotele sunt date în mm, cu excepția cotelor de nivel care sunt date m.
8. Protectia anticoroziva a structurii metalice: ct. GP 121/1-2013. Clasa de corozivitate: **C2 - slaba**
   Pentru structuri deschise amplasate la exterior expuse precipitatiilor se recomanda zincarea termica. In cazul structurilor zincate termic, in elementele inchise se prevad colligatorlu gauri de zincare.

MATERIALE CONFECTIE METALICA / *STEEL STRUCTURE MATERIALS:*

ELEMENT:	MATERIAL:	STANDARD:
OTEL LAMINAT STRUCTURA METALICA *Structural steel*	**S355J0 (H) / S235JR (H)** - *laminate* **S350GD** - *profile cu perete subtire*	SR EN 10025, SR EN 10210, SR EN 10219 SR EN 10162
ORGANE DE ASAMBLARE *Bolting assemblies*	**GR.10.9** -*cartiel filetate* **GR.10.9** -*complet filetate*	SREN 14399 EN ISO 4017
SURUBURI DE ANCORAJ *Anchor bolts*	**S355;gr.5.8** -*carcase suruburi* **gr.5.8** -*ancoraj chimic*	

MOMENTE DE STRAGERE PENTRU ORGANELE DE ASAMBLARE

Nr. crt.	Diametrul nominal	Grupa	MOMENT FINAL DE STRANGERE (Nm)	50%-70% DIN MOMENTUL FINAL DE STRANGERE (Nm)	Nr. crt.	Diametrul nominal	Grupa	MOMENT FINAL DE STRANGERE (Nm)	50%-70% DIN MOMENTUL FINAL DE STRANGERE (Nm)
1	M12	10.9	100	50-70	5	M24	10.9	800	400-560
2	M16	10.9	250	125-175	6	M27	10.9	1250	625-875
3	M20	10.9	450	225-315	7	M30	10.9	1650	825-1155
4	M22	10.9	450	312-437					

LEGENDA DENUMIRI PROFILE SI TABLE / PROFILES & PLATES NAMES:

RHS, Tv.	- Teava patrata/rectangulara (Square/rectangular hollow section)
RO, Tv.Ø, RHSØ	- Teava rotunda (Circular hollow section)
FL	- Platbanda (Flat bar)
L, LNP	- Cornier (Angle profile)
U, UNP, UPE	- Profil U (Channel profile)
I, IPE, IPN	- Profil I (I profile)
HEA, HEB	- Profil I cu talpi late (Wide flanges I profile)
C, Z	- Profil C sau Z format la rece (Cold-rolled C or Z profile)
TG, PL	- Table groasa (Thick plate)
RD	- Bara din otel rotund (Round bar)

INCADRARI ALE INVESTITIEI

CATEGORIA DE IMPORTANTA *"GP 412-1996/97"*	C
CLASA DE IMPORTANTA *"NP 068-2002"*	II
GRAD DE REZISTENTA LA FOC *"GP 017-1999"*	II

PROIECTANT GENERAL /
PROEXPERT DESIGN
Adresa: str. Bălănci nr.1 corp B, etajul 1 ,ant. 113, loc. Suceava Jud. Suceava, cod postal 720229, România
Telefon/fax: +(040-230) 521 - 210 / +(40-230-246) 574/ 530-620
email/web: proexpert_design@yahoo.com; www.proexpertdesign.ro
cod fiscal: RO18386290/J33/2350/2005; ORC Suceava

PROIECTANT STRUCTURA	ALCO INGINERIE str. Dr. Mihalie, nr.1, Com. Salcea, jud. Suceava tel. 0744 580 201, e-mail: alcoingineria@yahoo.com	CUI DOCUMENTAIE DE SPECIALITATE ALCO 128
RESPONSABILITATI:		
SEF PROIECT	arh. M. Ulianovschi	
PROIECTAT	ing. Coca Alexandru	
DESENAT	ing. Coca Alexandru	
VERIFICAT		
VERIFICARE M.D.L.P.A.		
VERIFICATOR: ing. Ion Grigore	SCHEMA L DE VERIFICARE: A2	

PROIECT
EXTINDEREA PE VERTICALA (MANSARDARE) SI DOTARE A CLADIRII SCOLII GIMNAZIALE MIRON COSTIN SI ADAPTAREA SISTEMULUI DE EDUCATIE LA EVOLUTIA TEHNOLOGICA

AMPLASAMENT strada Pasăr nr. 10, mun. Suceava, Jud. Suceava	BENEFICIAR **PRIMARIA MUNICIPIULUI SUCEAVA** B-dul 1 Mai, Nr. 10, Mun. Suceava, Jud. Suceava

FAZA: **P.T.**

SPECIALITATEA STRUCTURA

TITLU PLANSA
DETALII DEBITARE PIESE P2001-P2072

SCARA DE REDACTARE	DATA INTOCMIRII	NR. PLANSA
1:10	10/2023	**RM-207**

REVIZIA		DATA	