Lista desenelor de lucru ale setului principal

Pagina	Denumirea	Note
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3	Vederea axonometrica a structurii metalice cu module 2x25	
4	Vederea axonometrica a structurilor metalice fara module	
5	Planul pilotilor 2x12	
6	Planul pilotilor 2x25	
7	Vedere Laterala	
8	Vedere din spate 2x12/Structura metalica pentru invertor	
9	Vedere din spate 2x25	
10	Vedere a modulelor	
11	Lista completa a elementelor. Lista completa a elementelor de fixare	

Lista specificatiilor

Pagina	Denumirea	Note
1	Date generale. Lista desenelor de executie pentru setul principal. Lista specificatilor	
11	Lista completa a elementelor. Lista completa a elementelor de fixare	

Numele proiectului	Numarul Modulelor, buc.	Numarul Structurilor 2x12, buc	Numarul Structurilor 2x25, buc	Numarul invertoarelor buc.	Note
Grivita 2,1 MW	3349	13	61	6	

Date Generale

- PV modul dimensiune si greutate: 2382x1134x30mm, - 32,3 kg.
- PV modul: AIKO-G645-MCH72Dw.
- Tipul structurii: 2 P, portret.
- Unghiul: 25°.
- Garda minima la sol: 500 mm.
- Distanta dintre stalpi:
  De-a lungul structurii 3200 mm.
  Pe latimea structurii 2465 mm.
- Materialul elementelor de fixare:
  Structura - zincata.

PV modul - aluminum.

- Structurile metalice sunt realizate din otel zincat S350GD+Zn275.
- Conexiunile de montaj sunt realizate cu Surburi, Piulite Saibe, Grovere.
- In conexiunile de montaj cu suruburi se folosesc M8 DIN912, M12 si M16 conform DIN 933, clasa de precizie „B".
- La montarea suruburilor se prevad masuri impotriva slabirii lor prin intermediul groverelor conform DIN 7980.
- Fixarea modulelor fotovoltaice (PV) pe structurile portante se va realiza folosind clemele de aluminiu si suruburi M8 DIN 912.
- Cuplu de strangere M16 - 80 Nm.
- Cuplu de strangere M12 - 35 Nm.
- Cuplu de strangere M8 - 10 Nm.

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SIND.1800.006.06.CJ.01

Romania

Elaborat de Variant Agro SRL
Verificat de Ing. Apostol Zenir-Ioan-George
Data 05.11.2026

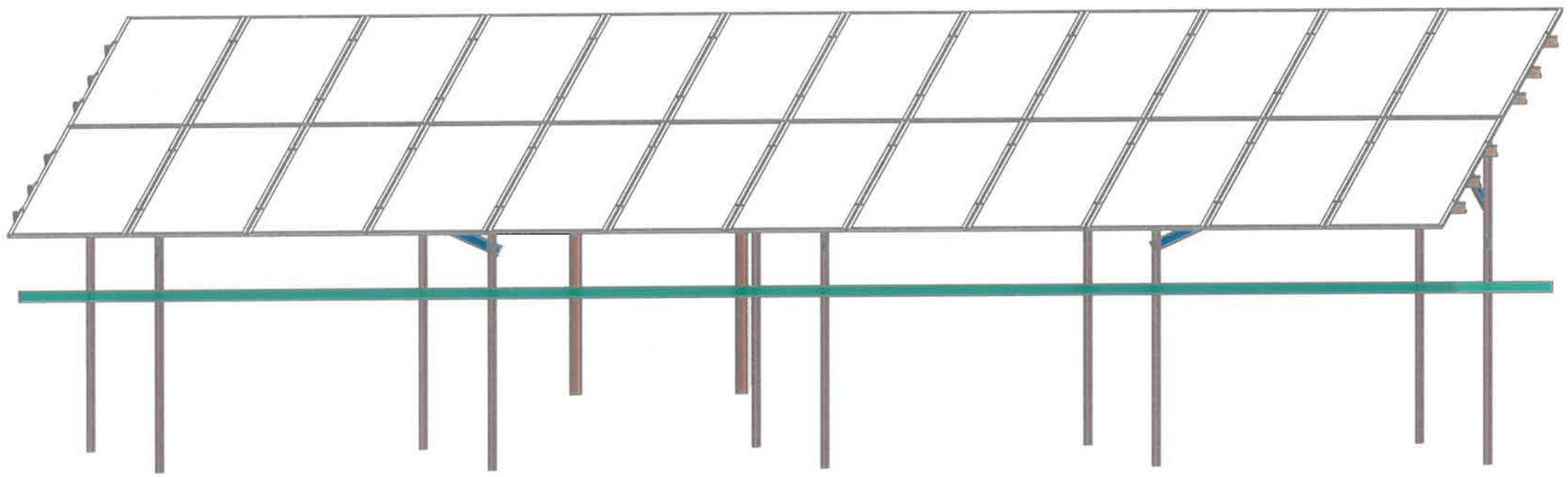
2x12/25-25 PC

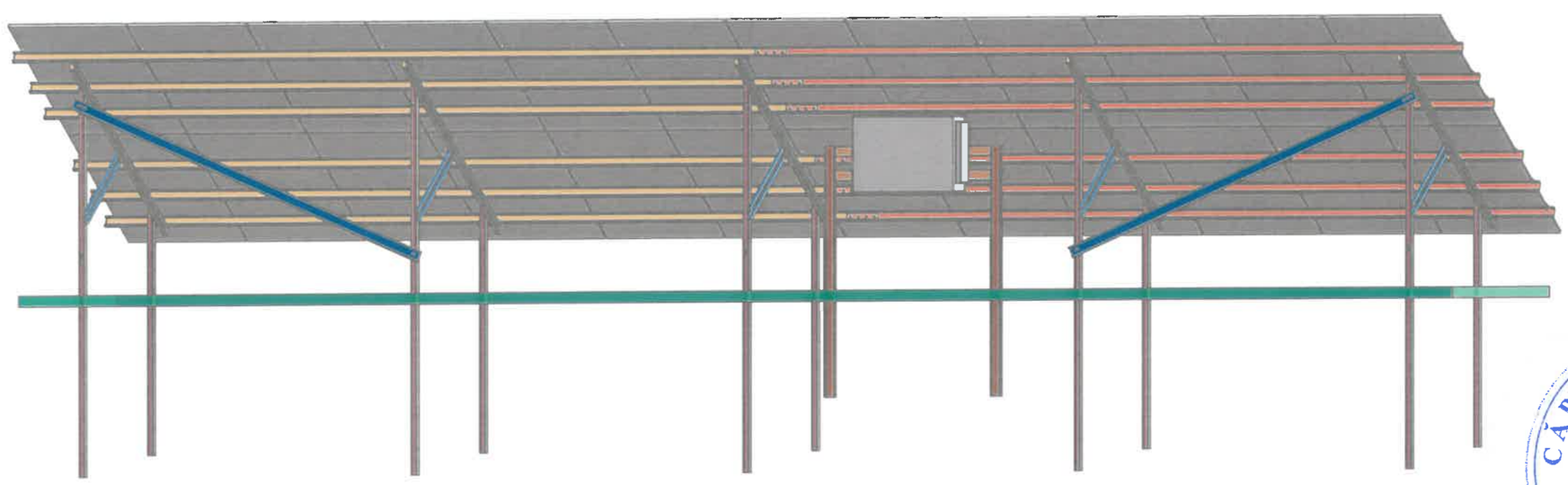
Pagina 1 | Pagini 11

VARIANT GROUP

A3

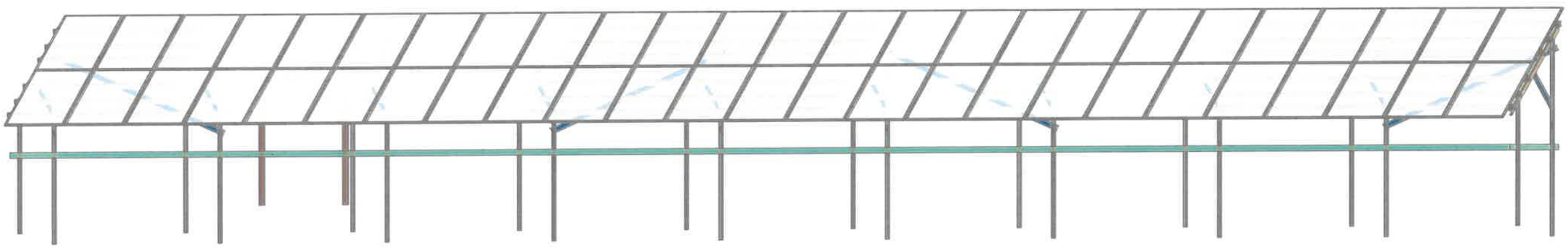
Vederea axonometrica a structurii metalice cu module 2x12

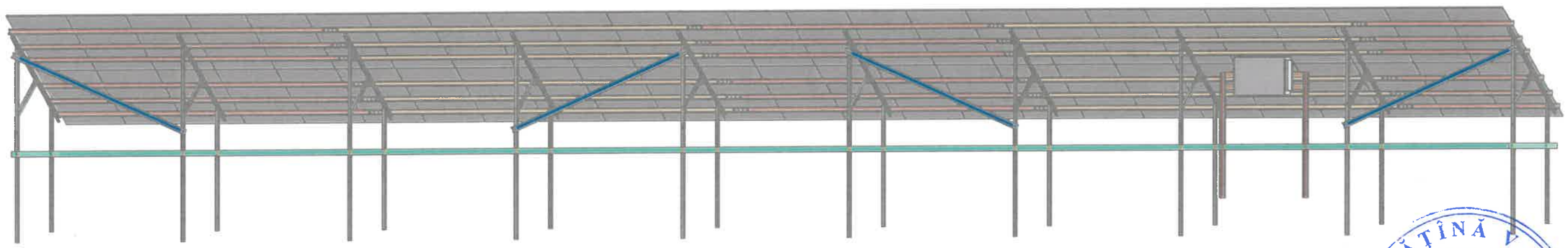




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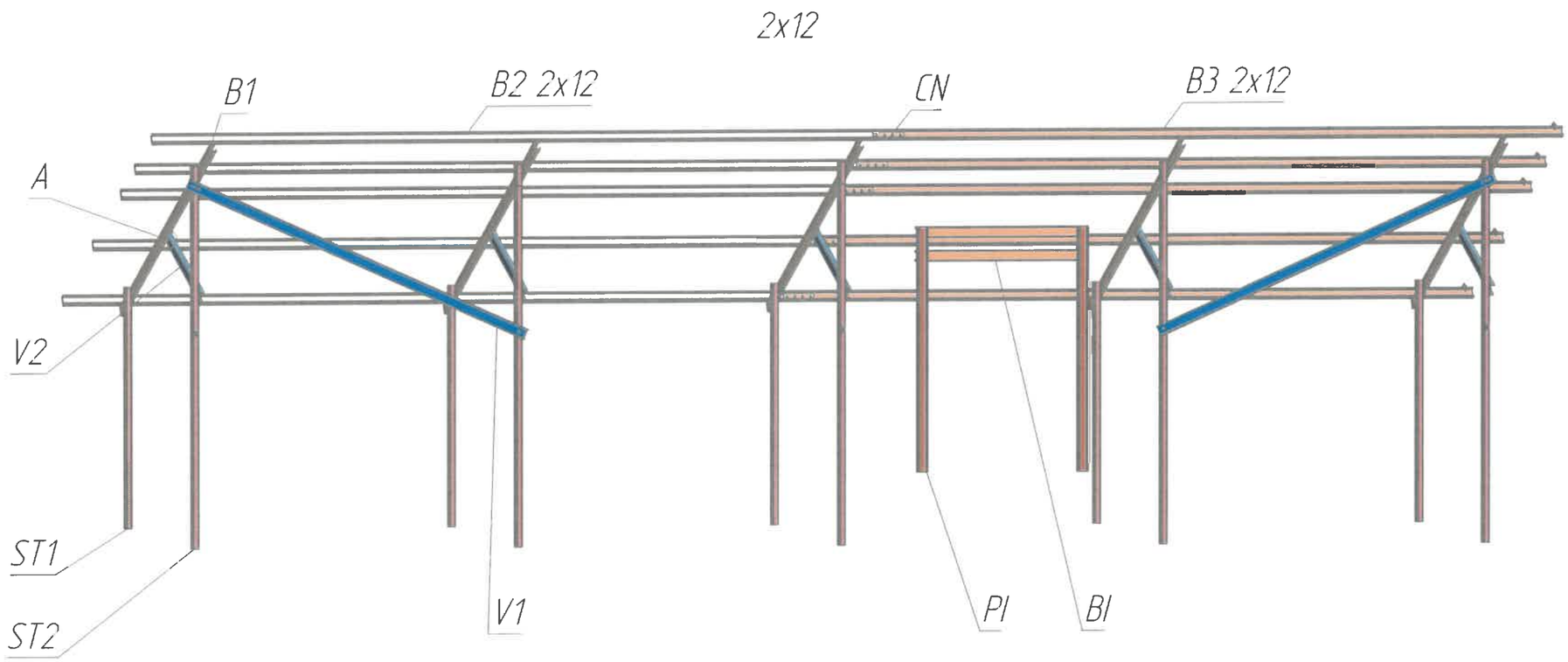
Vederea axonometrica a structurii metalice cu module 2x25

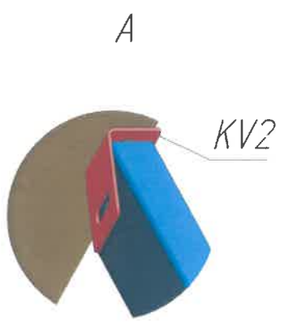


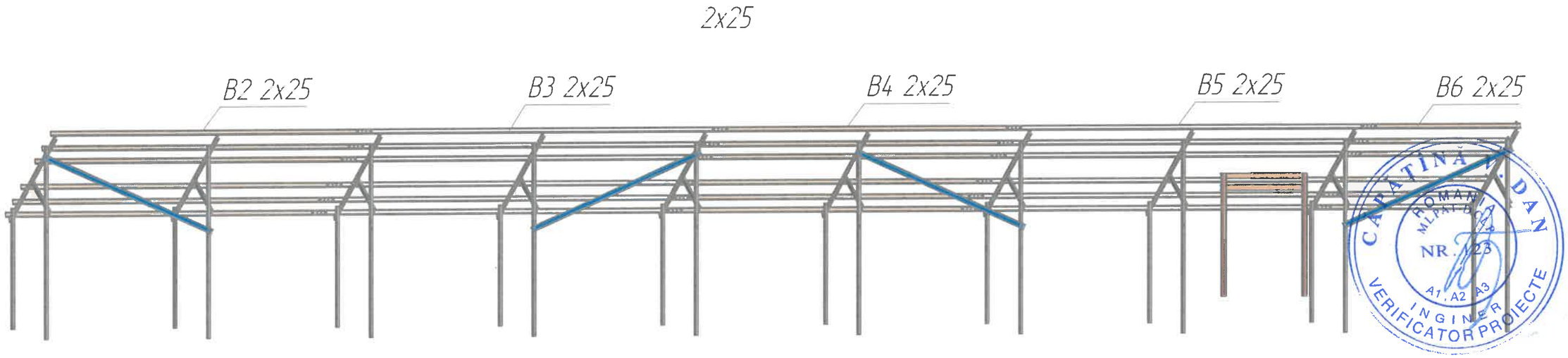


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Vederea axonometrica a structurilor metalice fara module

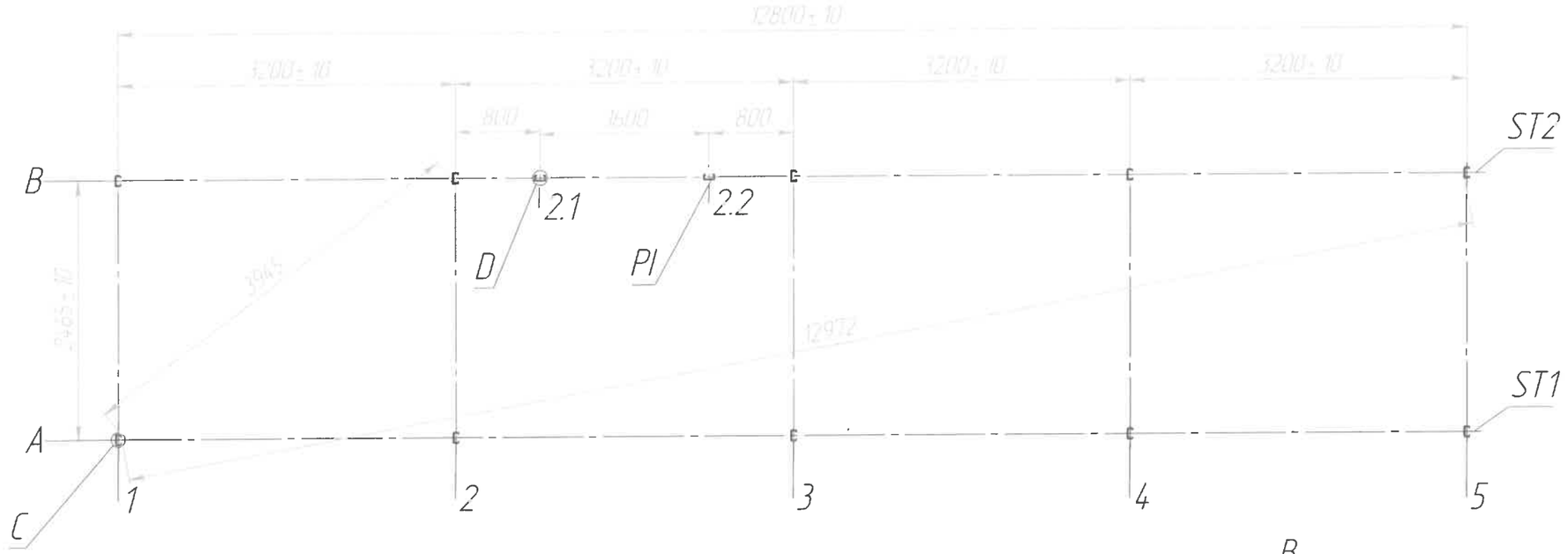




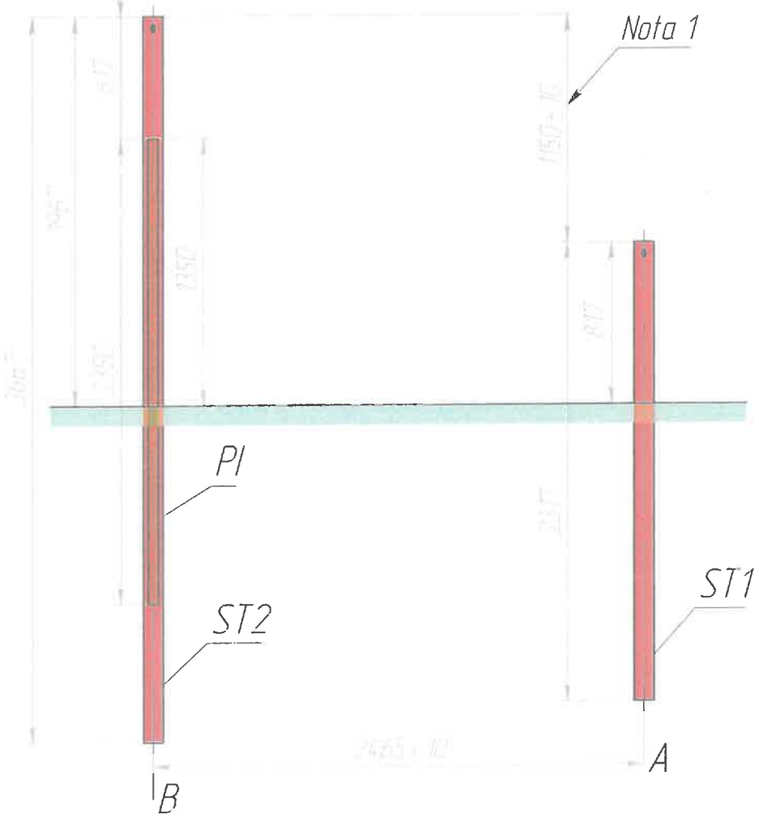


Planul Pilotilor 2x12

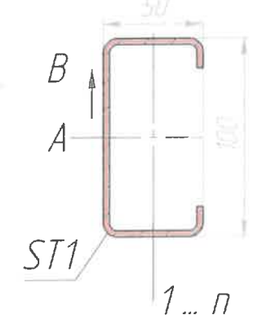
A-A 2x12



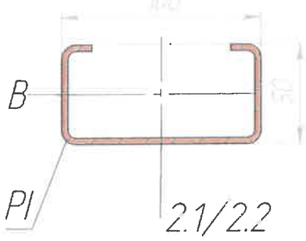
B-B



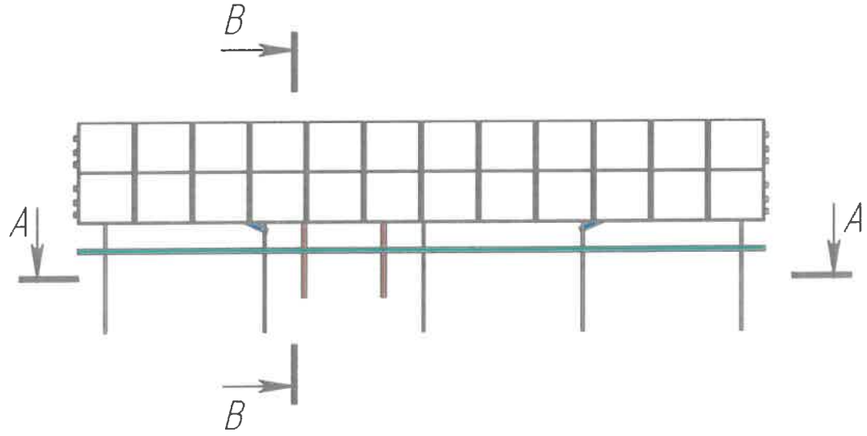
C



D



B

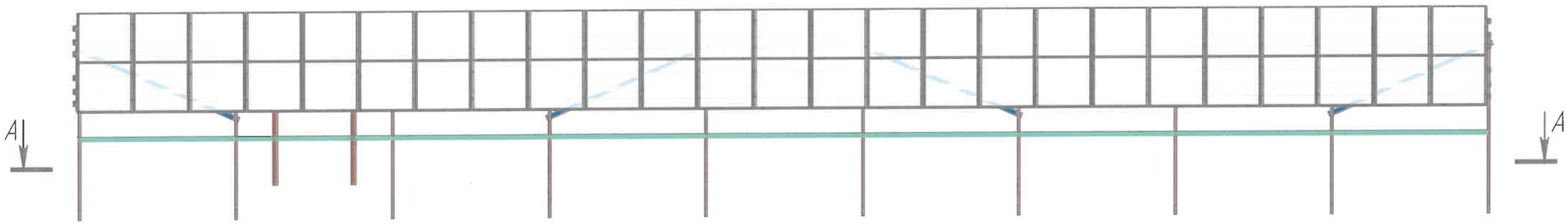


1. Distanta intre stalpi ST1 si ST2 pe lungimea axei (vezi Nota 1) trebuie sa fie de 1150 mm.
2. Varful Pilotilor "ST" de-a lungul axelor indicatoare trebuie sa se afle pe o linie dreapta orizontala.
3. Inclinarea pilotilor fata de axa verticala poate fi pana la 2° in orice directie.

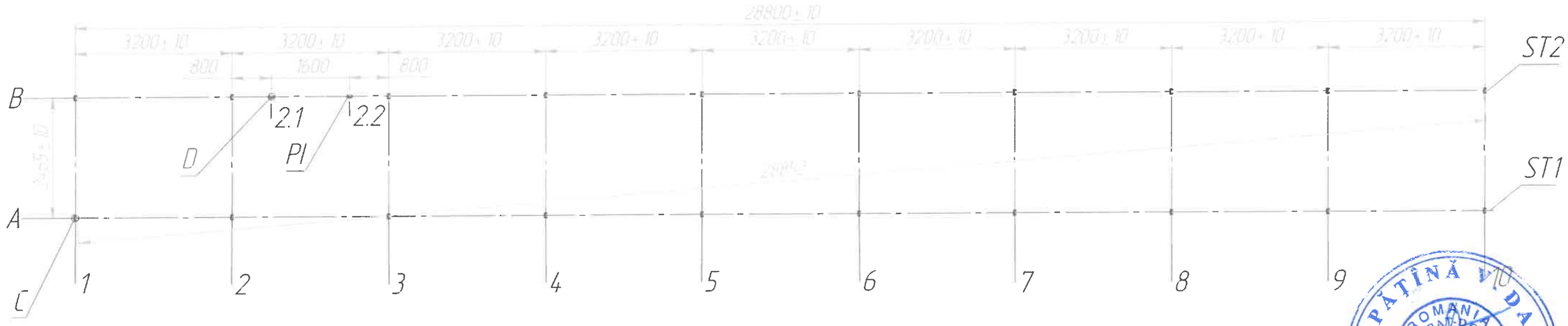
Capacitatea portanta a pilotilor acceptati in specificatie trebuie confirmata prin teste.

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Planul Pilotilor 2x25



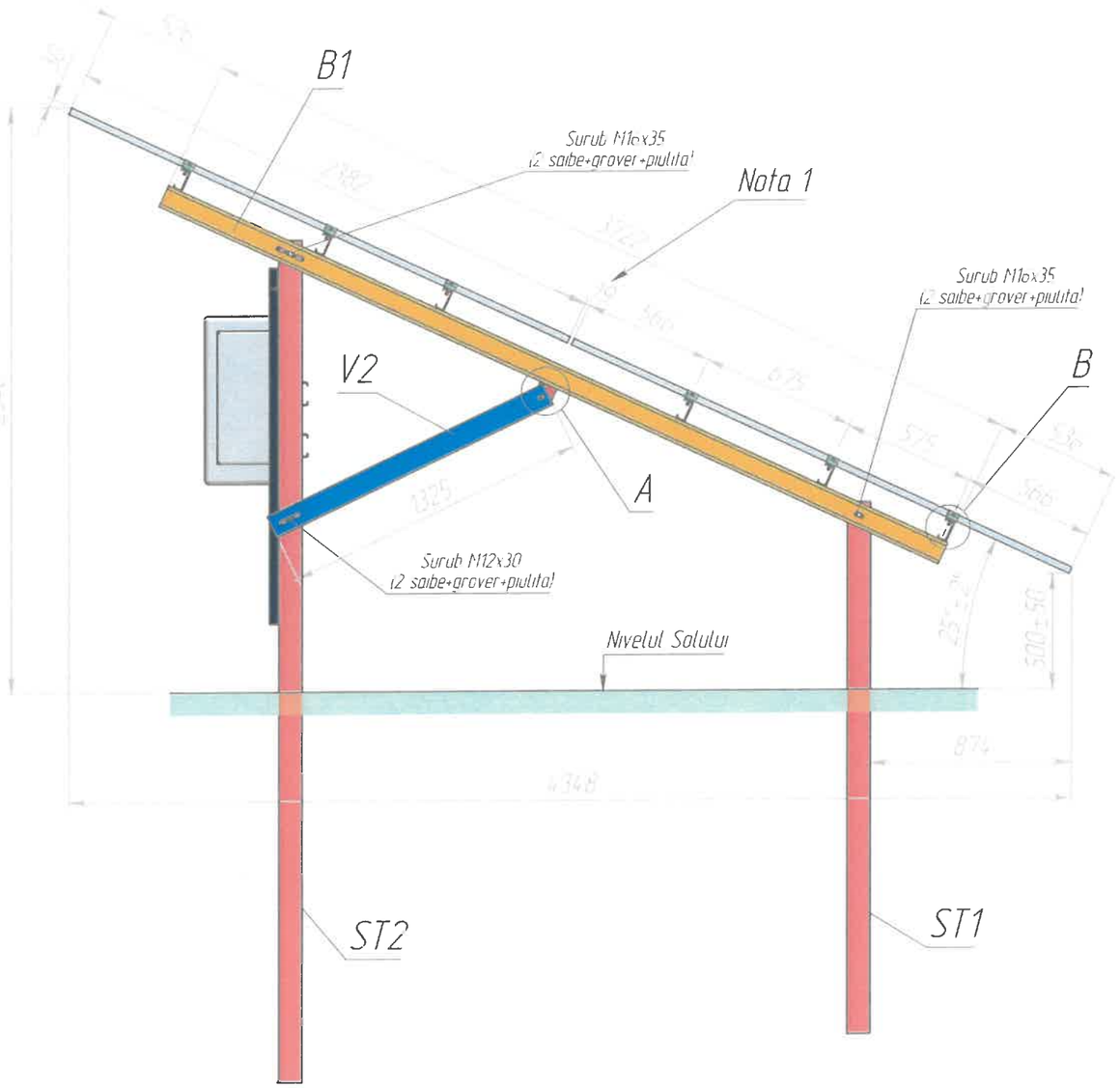
A-A 2x25

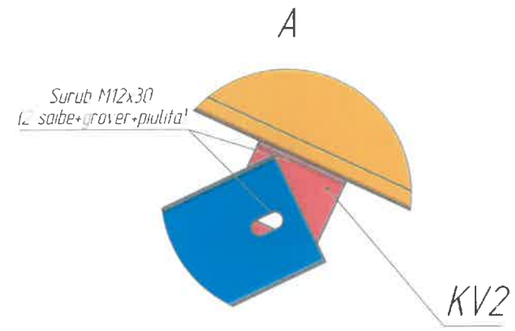


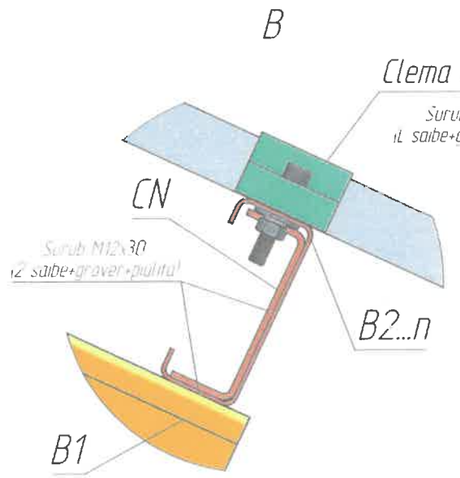
CĂPĂȚÎNĂ VIO DAN
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Pentru mai multe informatii, consultati pag. 5.

Vedere Laterala



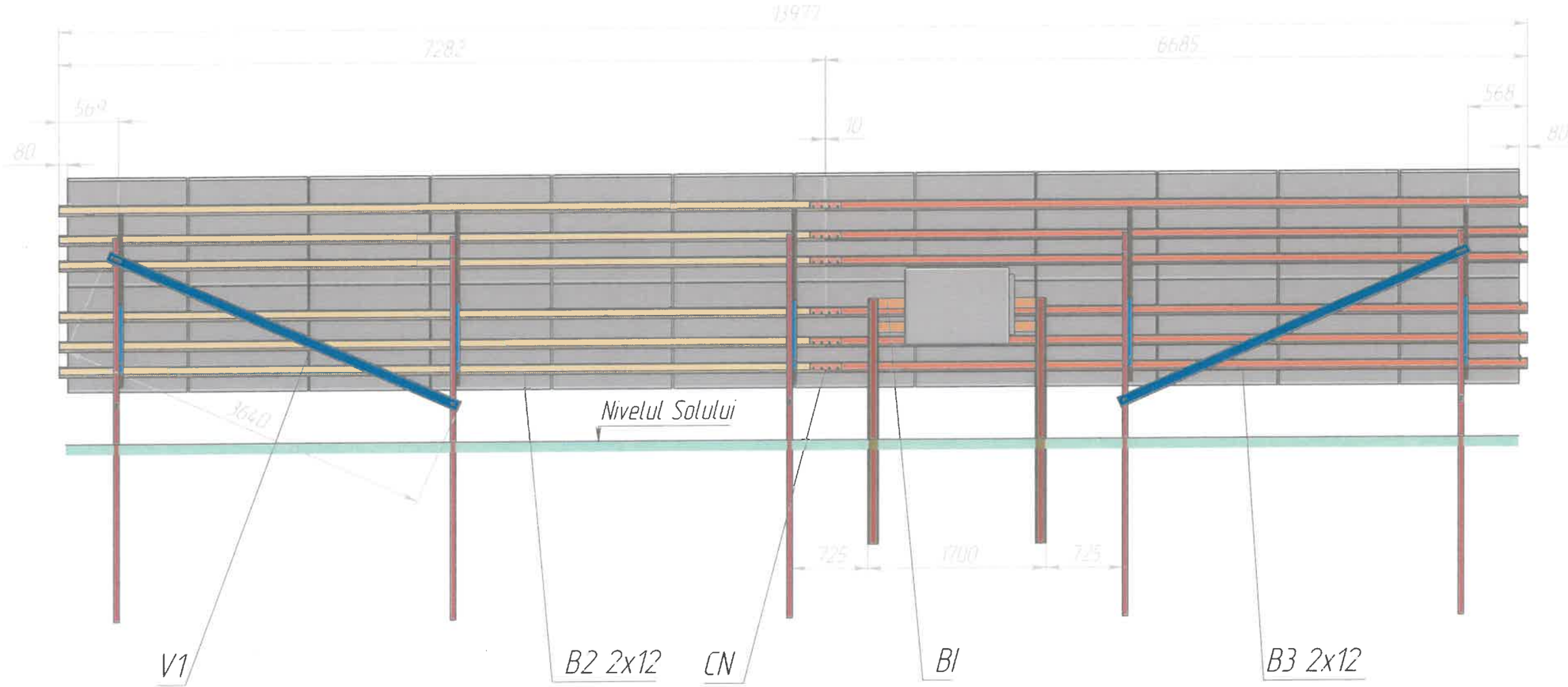


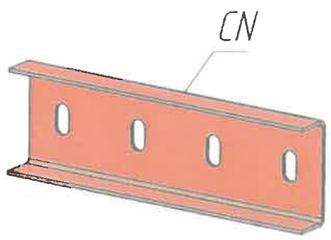


1. Respectati dimensiunea la montarea modulelor.
2. Cuplu de strangere M8 - 10 Nm.
3. Cuplu de strangere M12 - 35 Nm.
4. Cuplu de strangere M16 - 80 Nm.

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Vedere din spate 2x12/Structura metalica pentru invertor



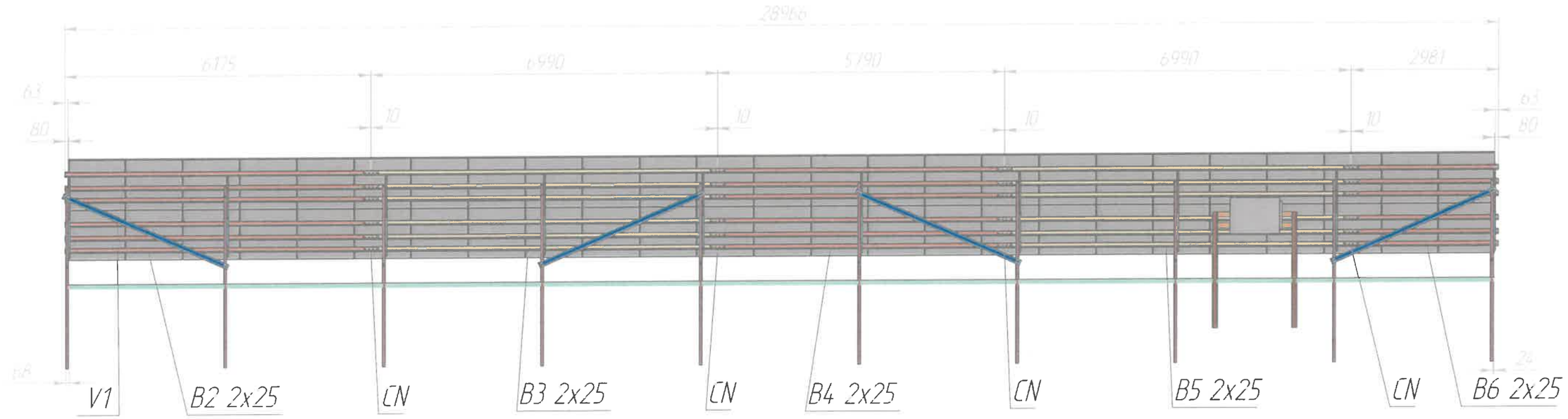


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Surub M12x30 (2 saibe+grover+piulita). Cuplu de strangere M12 – 35 Nm.

Vedere din spate 2x25

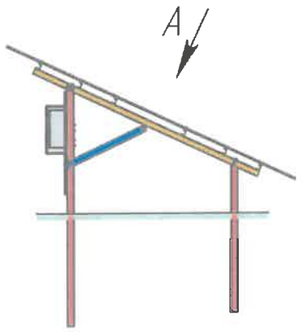
2x25



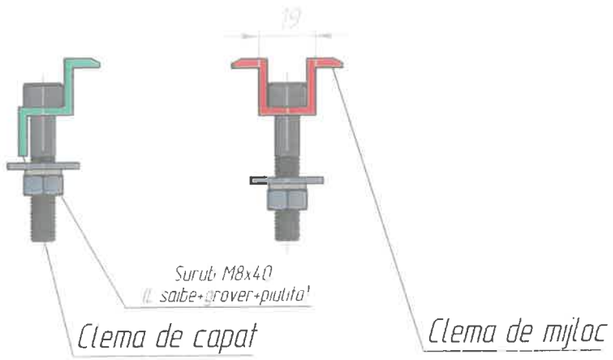
CĂPĂȚÎNĂ V. DAN
ROMANIA MLPAT-DCLP NR. 123
A2, A3
INGINER VERIFICATOR PROIECTE

Pentru mai multe informatii, consultati pag. 8.

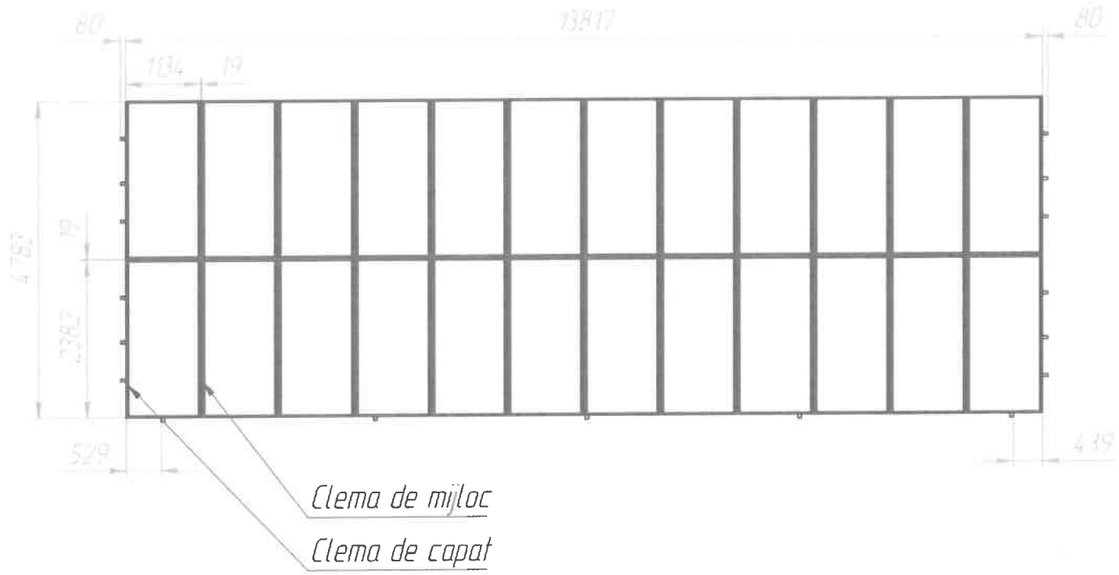
Vedere a modulelor



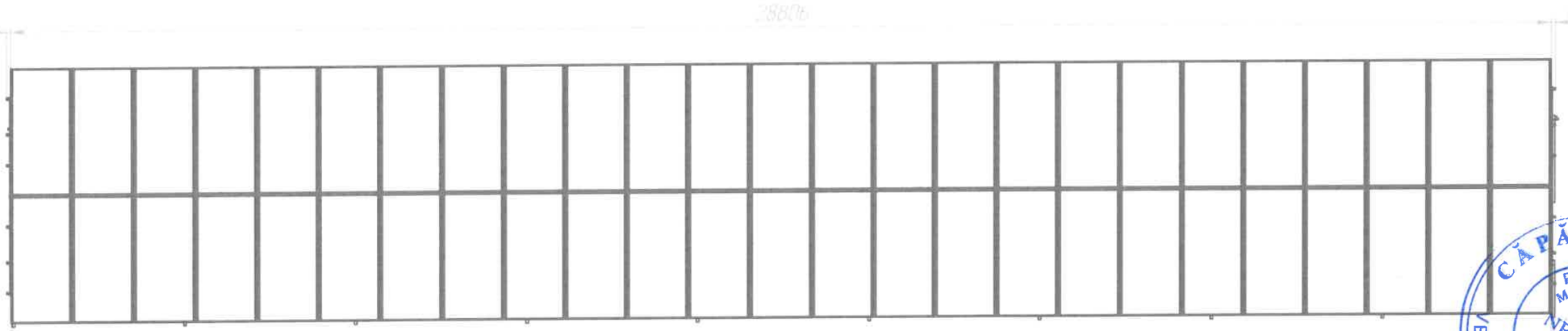
FEM support



A 2x12



A 2x25



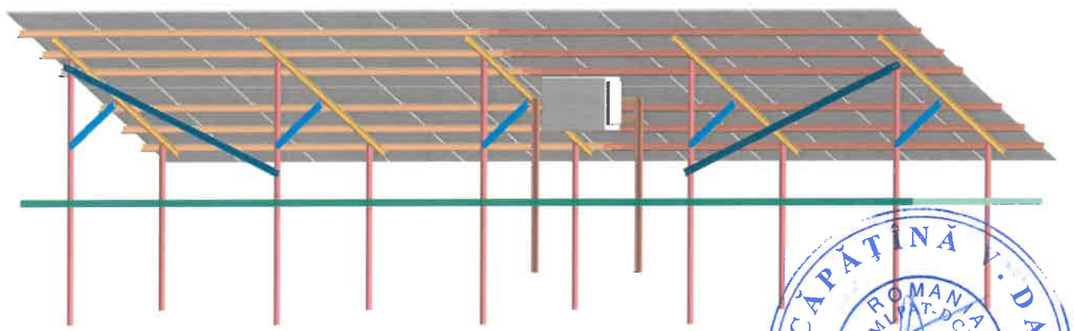
Cuplu de strangere M8 – 10 Nm.

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Lista completa a elementelor. Lista completa a elementelor de fixare

Lista a elementelor structurii						
Denumirea	Profilul	Lungimea	Cantitatea	Greutatea kg		Note
				unit	sum	
Structura Metalica 2x12						
ST1 G1.5 K05	C100x50x15x3	2317	5	11,69	58,45	
ST2 G1.7 K05	C100x50x15x3	3667	5	18,45	92,25	
B1-3722	C120x41x15x2	3722	5	12,07	60,35	
B2 2x12	C120x41x15x2	6685	6	21,46	128,76	
B3 2x12	C120x41x15x2	7282	6	23,37	140,22	
V1	U100x40x2	3640	2	10,09	20,18	
V2	U100x40x2	1325	5	3,66	18,30	
CN-100	C90x33x3	300	6	1,06	6,36	
KV2	L80x48x3	80	5	0,2	1,00	
	Total				525,9	
Structura Metalica 2x25						
ST1 G1.5 K05	C100x50x15x3	2317	10	11,69	116,90	
ST2 G1.7 K05	C100x50x15x3	3667	10	18,45	184,50	
B1-3722	C120x41x15x2	3722	10	12,07	120,70	
B2 2x25	C120x41x15x2	6175	6	19,81	118,86	
B3 2x25	C120x41x15x2	6990	6	22,43	134,58	
B4 2x25	C120x41x15x2	5790	6	18,57	111,42	
B5 2x25	C120x41x15x2	6990	6	22,43	134,58	
B6 2x25	C120x41x15x2	2981	6	9,55	57,30	
V1	U100x40x2	3640	4	10,09	40,36	
V2	U100x40x2	1325	10	3,66	36,60	
CN-100	C90x33x3	300	24	1,06	25,44	
KV2	L80x48x3	80	10	0,2	2,00	
	Total				1083,2	
Structura Metalica Inventatorului						
PI	C100x50x15x3	2350	2	11,9	23,7	
BI	C100x50x15x3	1700	2	8,54	17,08	
	Total				40,8	

Lista elementelor de fixare					
Denumirea	Standard	Cantitatea 2x12	Cantitatea 2x25	Cantitatea Inventatorului	Note
Cleme Laterale 30mm		12	12		
Cleme de mijloc 19mm		66	144		
Surub M8x40	DIN 912	78	156		
Surub M12x30	DIN 933	73	194	8	
Surub M16x35	DIN 933	10	20		
Piulita M8	DIN 934	78	156		
Piulita M12	DIN 934	73	194	8	
Piulita M16	DIN 934	10	20		
Saiba 8	DIN 9021	78	156		
Saiba 12	DIN 125	146	388	16	
Saiba 16	DIN 125	20	40		
Grover 8	DIN 127	78	156		
Grover 12	DIN 127	73	194	8	
Grover 16	DIN 127	10	20		



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