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Capital social: 2.971.825 lei

Aprobat,
Reprezentant legal
Rățoi Viorel

Director proiect,
Cucoș Iulian

Nr. contract de finanțare: 260/ 17.06.2020 **Axa prioritară 1 - Cercetare, dezvoltare tehnologica si inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor** **Acțiunea 1.2.1 Stimularea cererii întreprinderilor pentru inovare prin proiecte de CDI derulate de întreprinderi individual sau în parteneriat cu institutele de CD și universități, în scopul inovării de procese și de produse în sectoarele economice care prezintă potențial de creștere**

Titlul proiectului: Instalație inovatoare pentru cimentare și operațiuni speciale la sondă destinată eficientizării extragerii resurselor energetice convenționale - INOCEM	**ID: -** **MySMIS: 120032**

RAPORT INTERMEDIAR A 2.1

Perioada 01 Septembrie 2022 - 16 Noiembrie 2022

Activitatea A2. Activitati de dezvoltare experimentală

Subactivitatea A2.1 Intocmirea documentatiei tehnice pentru ansamblul echipament

17 Martie 2022 - 16 Noiembrie 2022

Lider S.C. PETAL S.A. Husi

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Cuprins **pag.**

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A. OBIECTIVELE PROIECTULUI

Obiectivul general al proiectului constă în realizarea unui produs inovativ complex, destinat exploatării eficiente a resurselor energetice convenționale, având caracteristici funcționale semnificativ îmbunătățite prin schimbări esențiale ale specificațiilor tehnice și ale componentelor și materialelor și printr-un proces inovativ de realizare.

Integrată domeniului de specializare inteligentă *ENERGIE, MEDIU ŞI SCHIMBĂRI CLIMATICE, subdomeniul 3.1. Energie, respectiv 3.1.2. Resurse energetice convenționale, neconvenționale și regenerabile*, instalația destinată operației de cimentare și altor operațiuni speciale la sondele de petrol și gaze naturale, cu performanțe unice pentru producția unui asemenea echipament în România, ce asigură exploatarea superioară a acestor resurse convenționale de energie, cu păstrarea mediului ambient și care va contribui la creșterea calității și la diversificarea ofertei de produse moderne a liderului de proiect pe piața echipamentelor complexe destinate extracției de resurse de petrol și gaze.

Obiectivele specifice ale proiectului sunt:

1. Obținerea prin cercetare industrială de metode inovative pentru echipamentul de cimentare și operații speciale la sonde și stabilirea specificațiilor pentru subansambluri și echipamente;

2. Realizarea și testarea subansamblurilor inovative privind acționarea electrică în curent alternativ, antrenarea mecanică și componente de uzură ale pompelor;

3. Realizarea, pe baza documentației tehnice întocmite, a echipamentului pilot utilizabil comercial și testarea în medii reprezentative;

4. Investiții în vederea introducerii în producție a rezultatelor CD, prin achiziții de active corporale și necorporale;

5. Pregătirea fluxului de fabricație și a documentației de punere în fabricație;

6. Crearea a 4 noi locuri de muncă pe durata implementării proiectului, dintre care 2 femei.

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B. OBIECTIVELE SUBACTIVITĂȚII A 2.1

Subactivitatea A2.1 „Intocmirea documentației tehnice pentru ansamblul echipament" prevăzută a se desfășura între 17 martie 2021 – 16 Aprilie 2022, are ca obiectiv realizarea Proiectului Tehnic și Tehnologic pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă destinată eficientizării extragerii resurselor energetice convenționale.

Ansamblul echipament de cimentare și operații speciale la sonde cuprinde mai multe subansambluri , din care unele cu elemente inovatoare au fost proiectate, realizate și testate în activitățile anterioare ale proiectului. În această etapă, colectivele de cercetare și implementare proiect vor întocmi întreaga documentație tehnică pentru ansamblul proiect.

Aceasta va cuprinde:

- schema cinematică generală a echipamentului;
- desenul de ansamblu al echipamentului;
- tehnologia de montaj general;
- verificări și testări pe parcurs;
- documentația de verificare finală.

Vor fi indicate, de fiecare dată, prin fișa tehnologică a operației respective, tipul activității, scule și dispozitive necesare, calificare operator, mod de analiză a calității operației efectuate, cine supraveghează, măsuri de rezolvare a problemelor tehnologice ivite. Colectivele de cercetare analizează în final întreaga documentație și o avizează.

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C. REZUMATUL SUBACTIVITĂȚII A 2.1

Raportarea 01 Septembrie 2022 - 16 Noiembrie 2022

Raportarea de față conține rezultatele activităților desfășurate de colectivul de implementare al SC PETAL SA referitoare la realizarea Proiectului Tehnic și Tehnologic pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă destinată eficientizării extragerii resurselor energetice convenționale realizat de cercetătorii specialiști din PETAL SA.

Toate elementele ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă sunt proiectate pentru a realiza functiile de creare a presiunii inalte necesare operatiilor de cimentare si a celor speciale la sonde, cu asigurarea prepararii si pomparii pastei de ciment, pomparea fluidelor de separare si a noroiului de refulare la operatiile de fisurare.

In Anexa nr. 1 la prezentul Raport intermediar se prezintă **Proiectul Tehnic** pentru echipamente inovative (sistemul hidraulic generalizat) realizat de cercetătorii specialiști din PETAL SA.

In Anexa nr. 2 la prezentul Raport intermediar se prezintă **Proiectul Tehnologic** pentru echipamente inovative (sistemul hidraulic generalizat) realizat de cercetătorii specialiști din PETAL SA.

Anexa nr 3 prezintă Documentatia Tehnica electrica pentru Ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă

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D. DESCRIEREA ȘTIINȚIFICĂ ȘI TEHNICĂ A ACTIVITĂȚILOR DIN PERIOADA PENTRU CARE SE REALIZEAZĂ PREDAREA

01 septembrie 2022 - 16 Noiembrie 2022

Realizarea Proiectului Tehnic și Tehnologic, Documentatia Tehnica electrica pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă

Livrabilul predat conține descrierea științifică și tehnică a activităților desfășurate, astfel:

► Finalizarea realizării Proiectului Tehnologic pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă, colectivul de cercetare ale PETAL S.A. a finalizat toate desenele în format digital, verificate de specialiștii acestuia și puse în concordanță cu posibilitățile tehnologice existente.

► Pentru realizarea documentației tehnice colectivul de cercetare a definitivat, pe baza desenelor proiectate, necesitățile de materiale din punct de vedere cantitativ și al sortimentelor calitative și s-a finalizat lista acestora pentru documentația de licitație.

► Realizarea și testarea subansamblurilor inovative implică documentația tehnică reprezentată de desenele tehnice de execuție pentru toate subansamblurile mecanice și hidraulice și piesele componente ale acestora.

Sunt prezentate in continuare principalele desene ale ansamblul echipament Instalație inovatoare realizate de cercetătorii specialiști din PETAL SA.

In **Anexa nr. 1** prezintă Proiectul Tehnic pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă realizate de cercetătorii specialiști din PETAL SA. (pentru analiza tehnologică) – Desene de proiectare – 135 planșe

Anexa nr. 2 prezintă Proiectul Tehnologic pentru ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă realizat de PETAL SA – Desene tehnologice – 85 planșe

Anexa nr 3 prezintă Documentatia Tehnica electrica pentru Ansamblul echipament Instalație inovatoare pentru cimentare și operațiuni speciale la sondă

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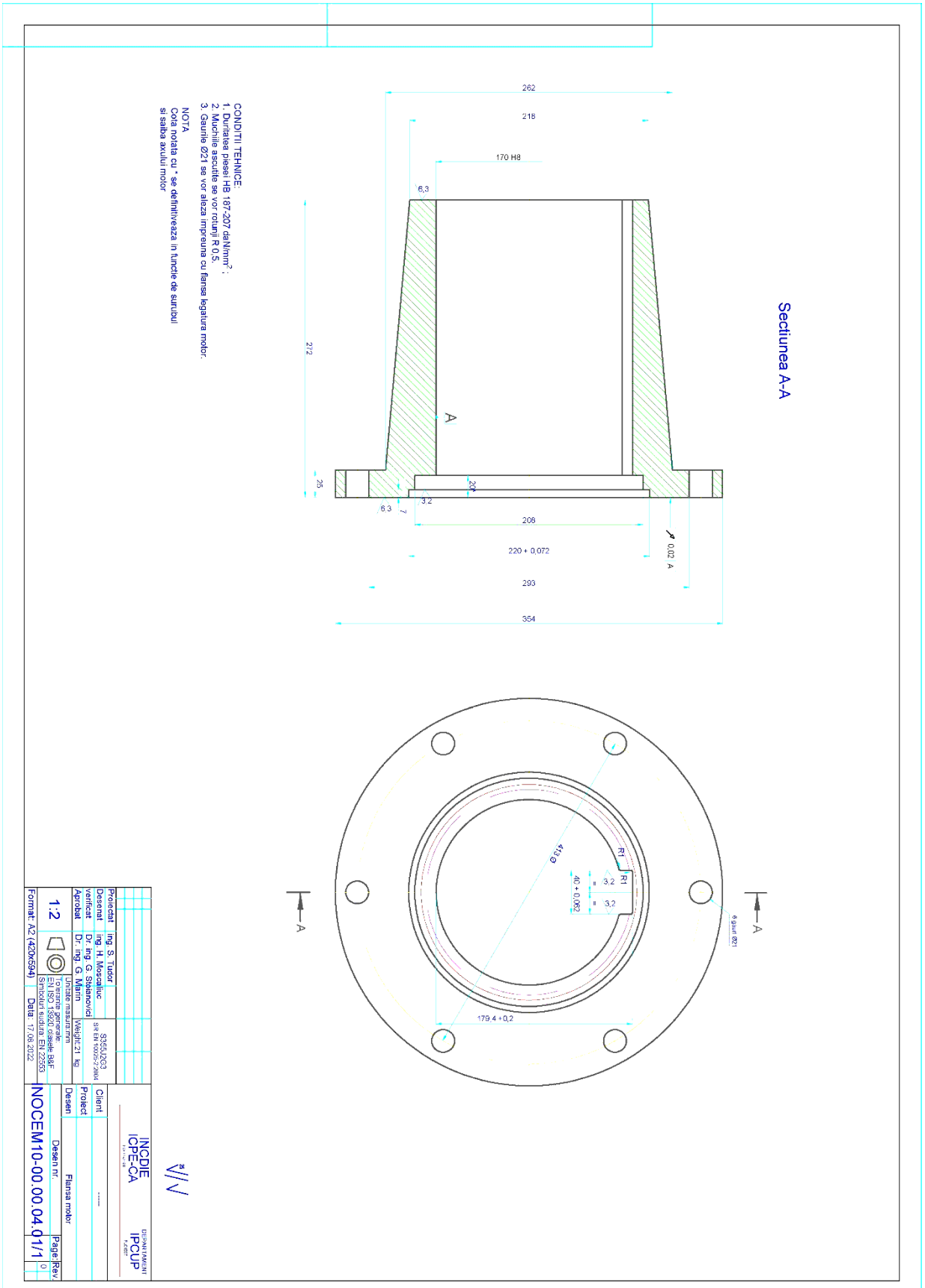

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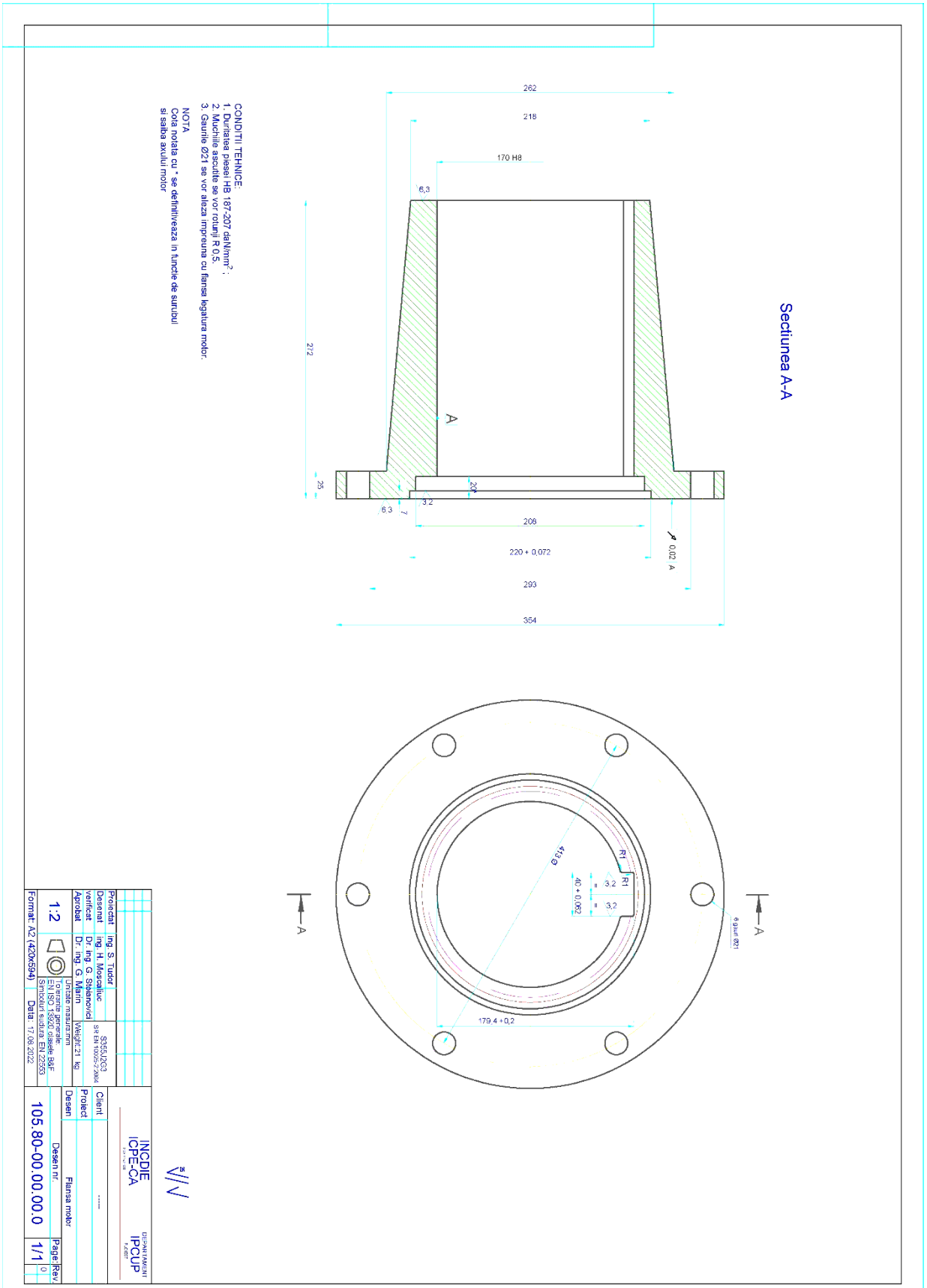

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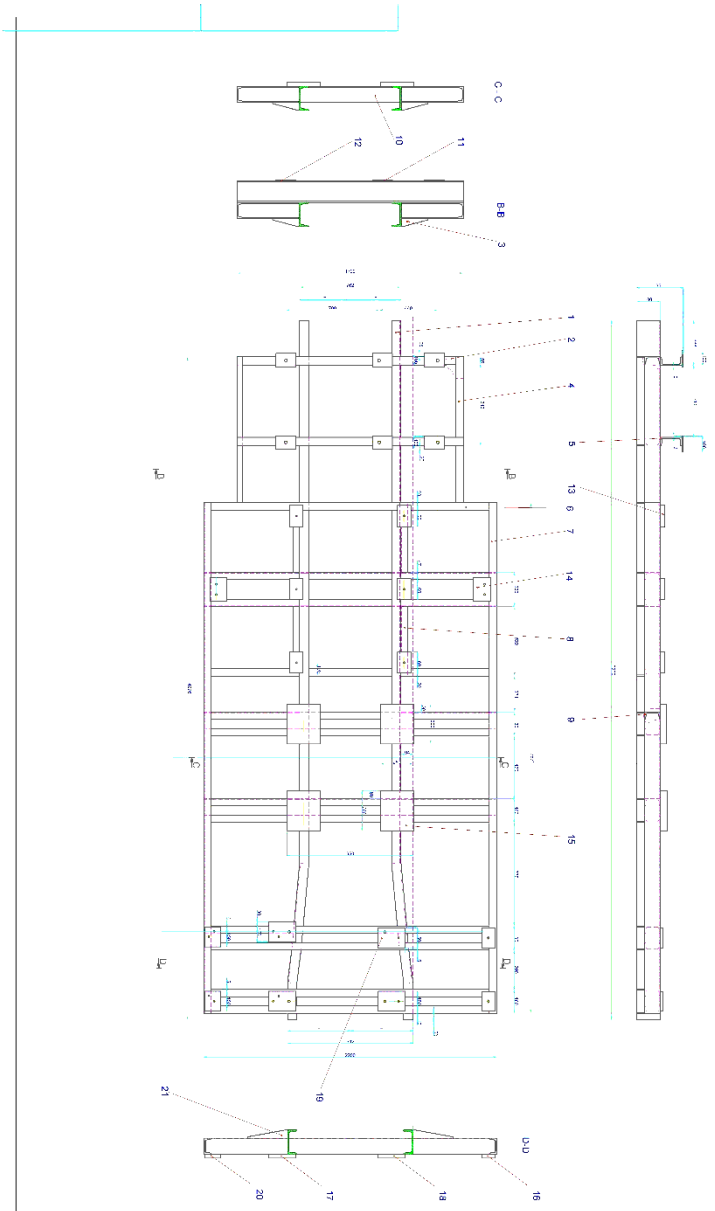

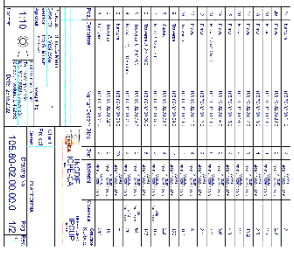

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2. Restul sudurilor vor fi cu completare la radacina.

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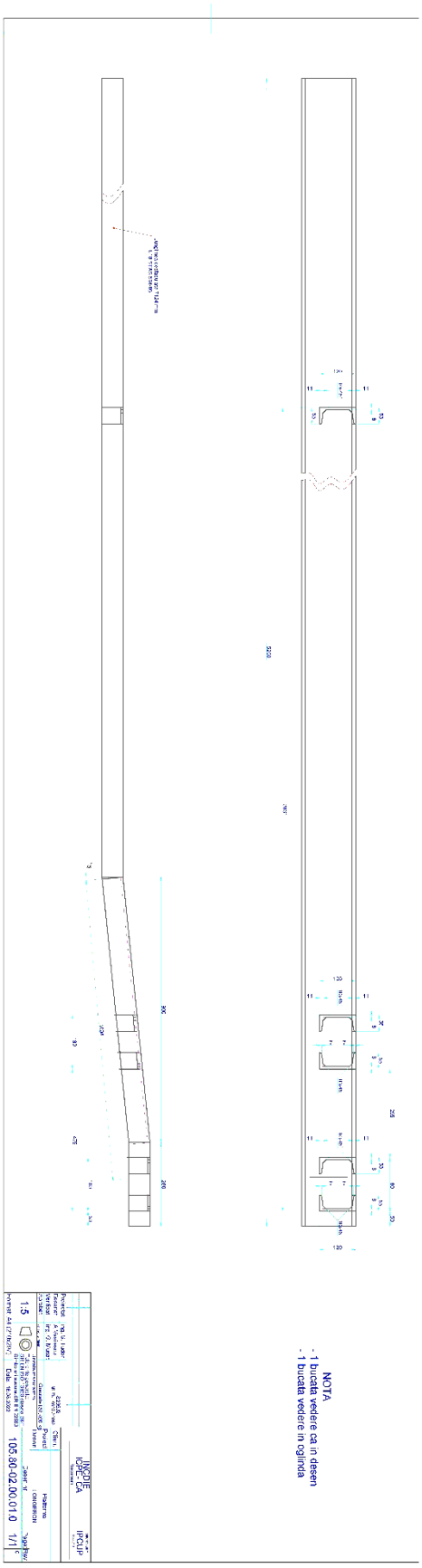

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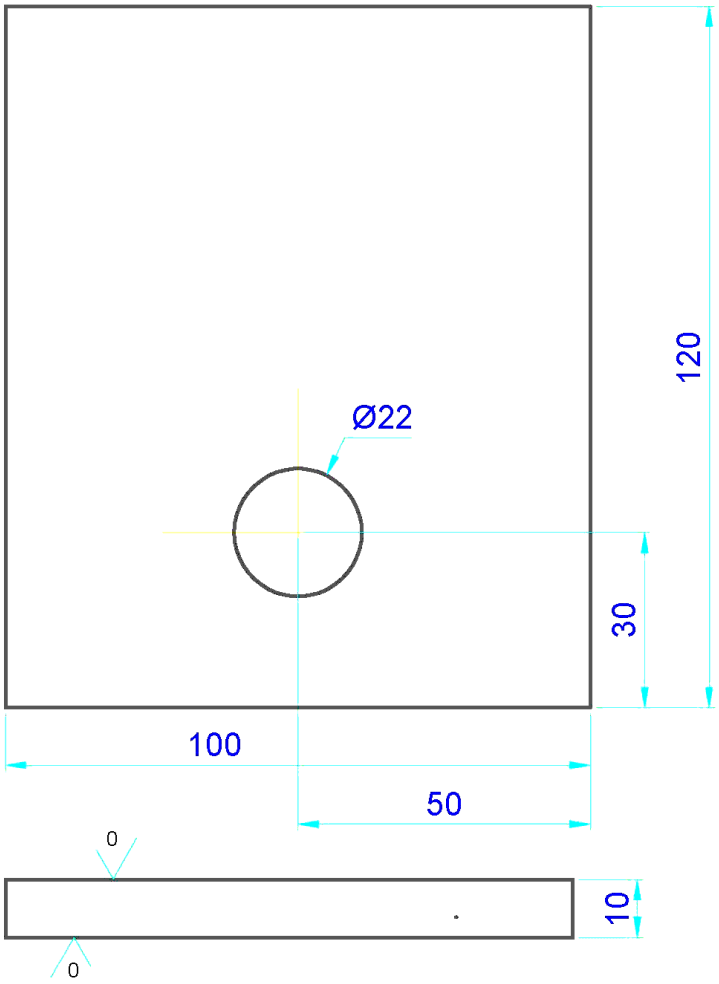

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Desenat	ing. H. Moscaliuc		Proiect	Platforma
Verificat	ing. G. Musat		Desen	PLACA
Aprobat	dr.ing.G.Marin	Greutate: 0.96 kg		
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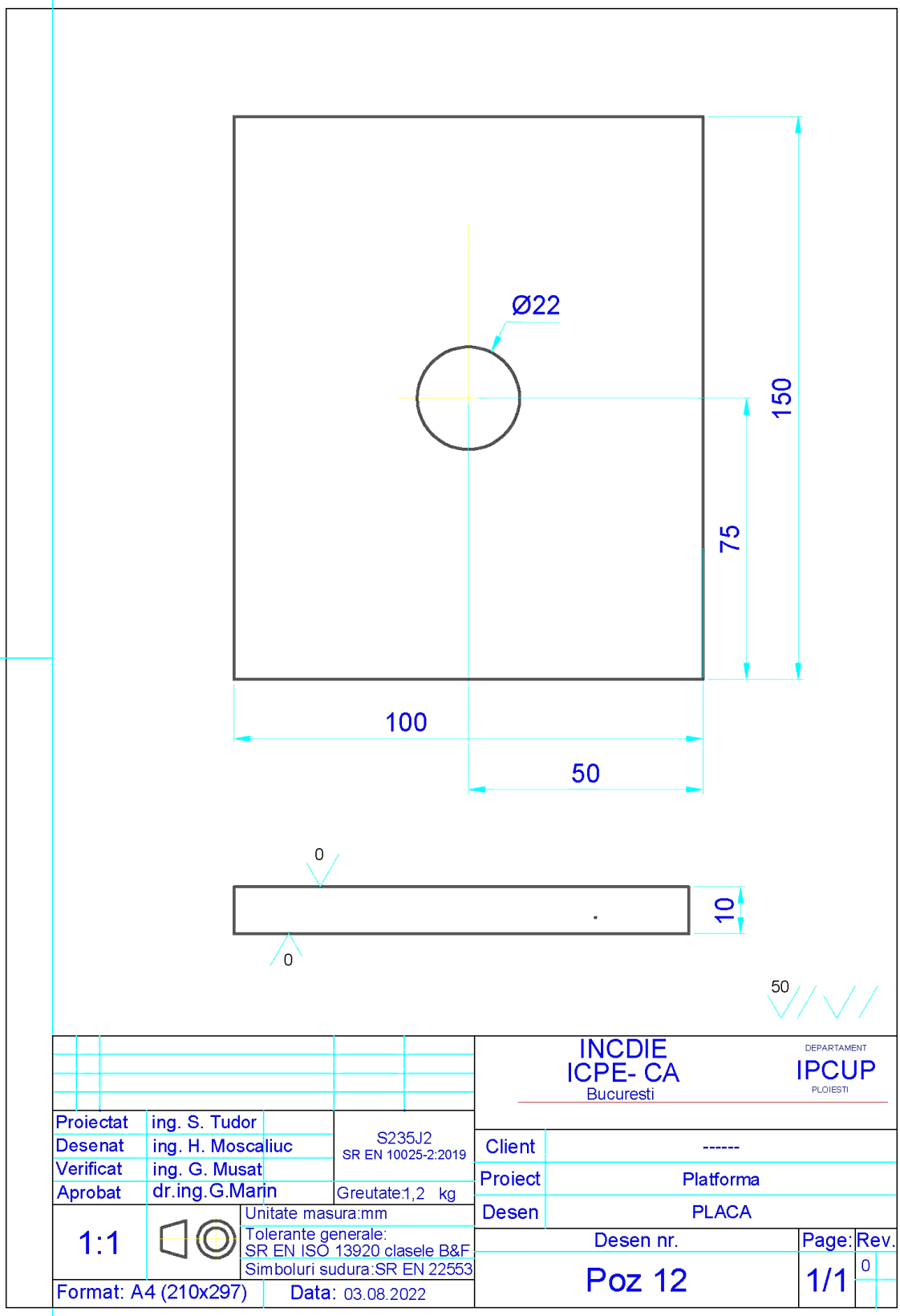

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Desenat	ing. H. Moscaliuc		Proiect	Platforma	
Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate:1,2 kg			
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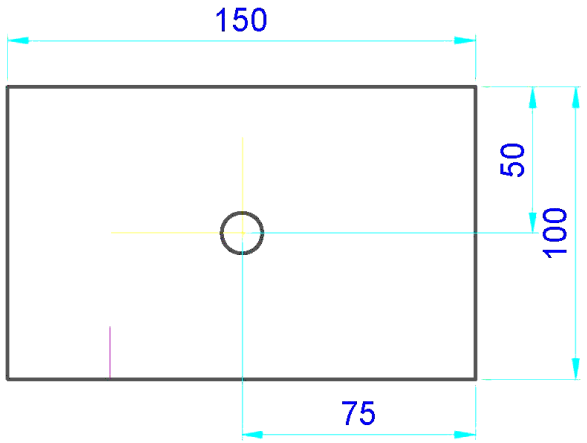

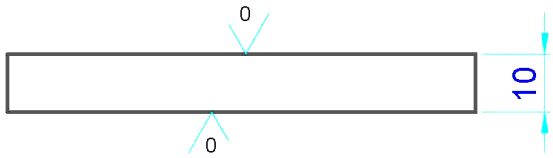

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Aprobat	dr.ing.G.Marin	Greutate:1,2 kg	Desen nr.	Page:	Rev.
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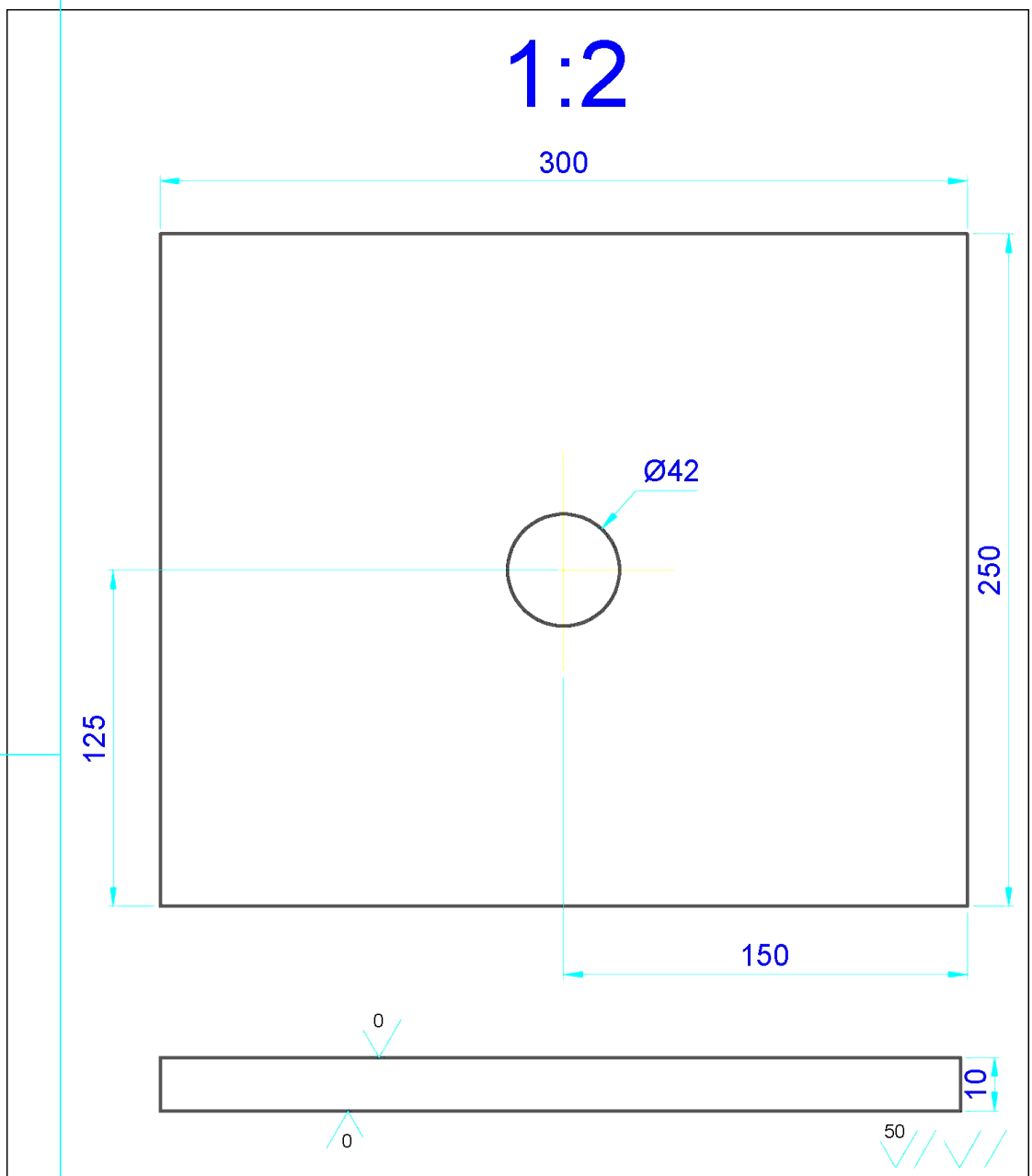

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Desenat	ing. H. Moscaliuc		Proiect	Platforma
Verificat	ing. G. Musat		Desen	PLACA
Aprobat	dr.ing.G.Marin	Greutate: 5,30 kg		
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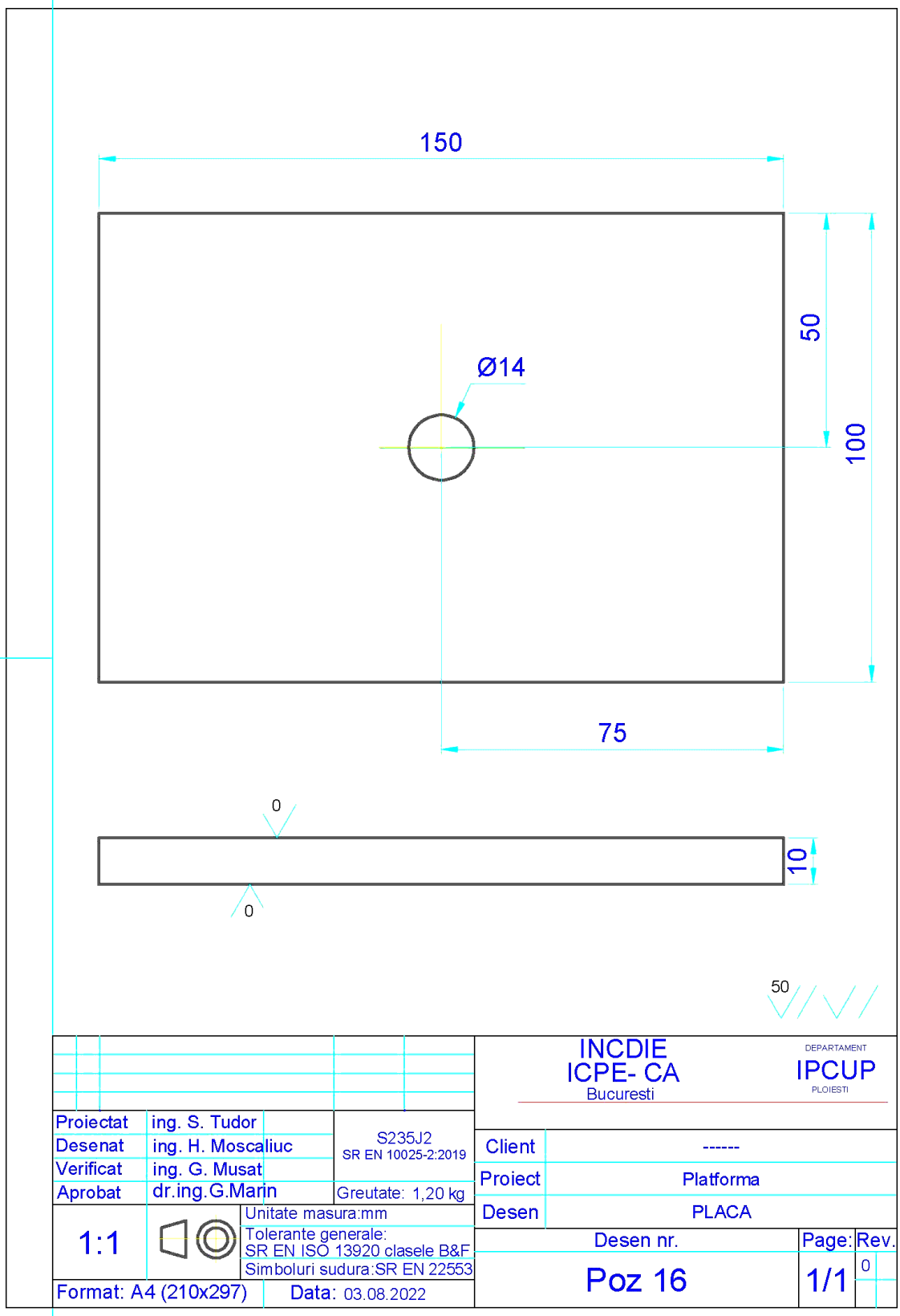

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Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate: 1,20 kg			
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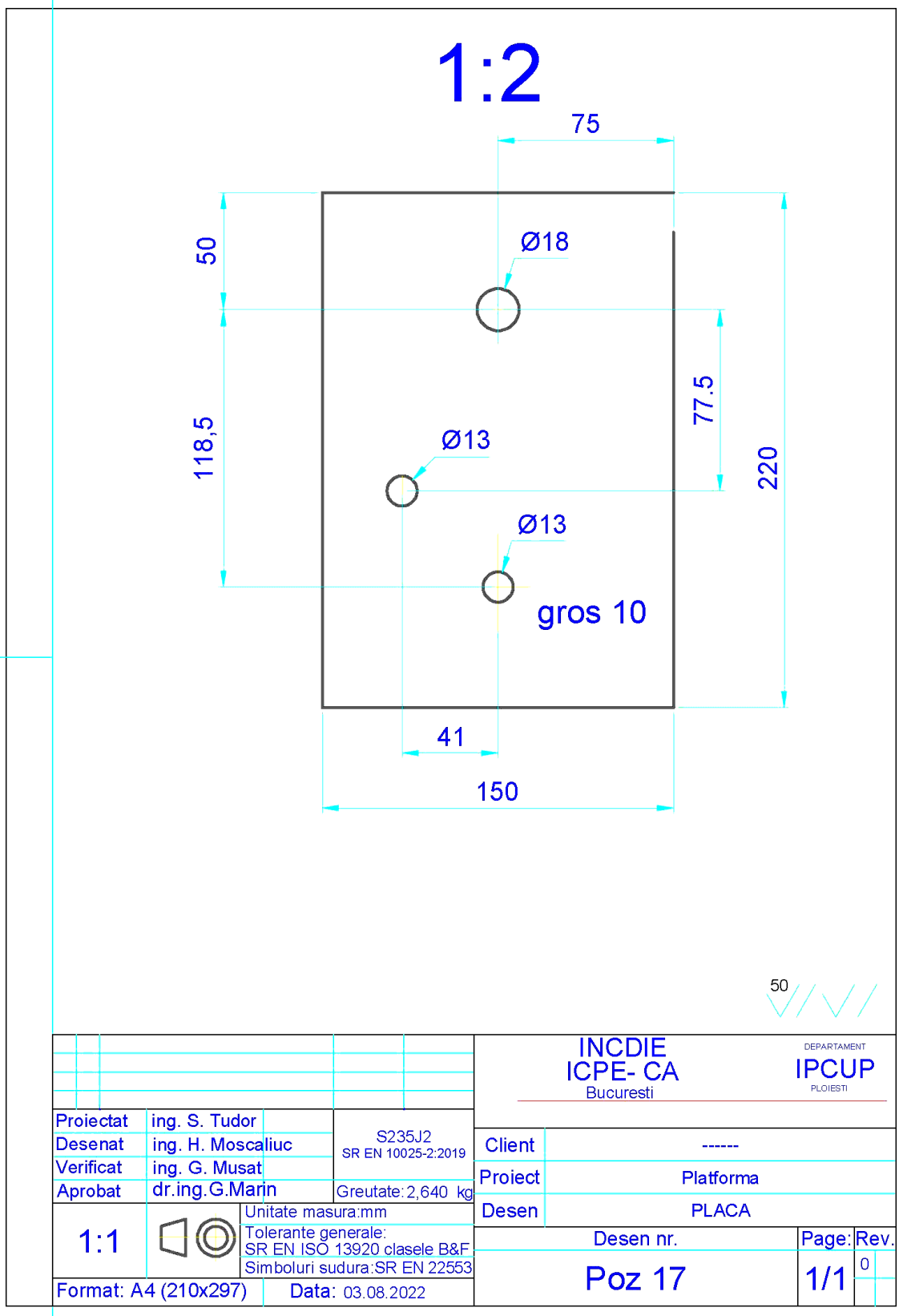

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Desenat	ing. H. Moscaliuc		Proiect	Platforma	
Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate: 2,640 kg			
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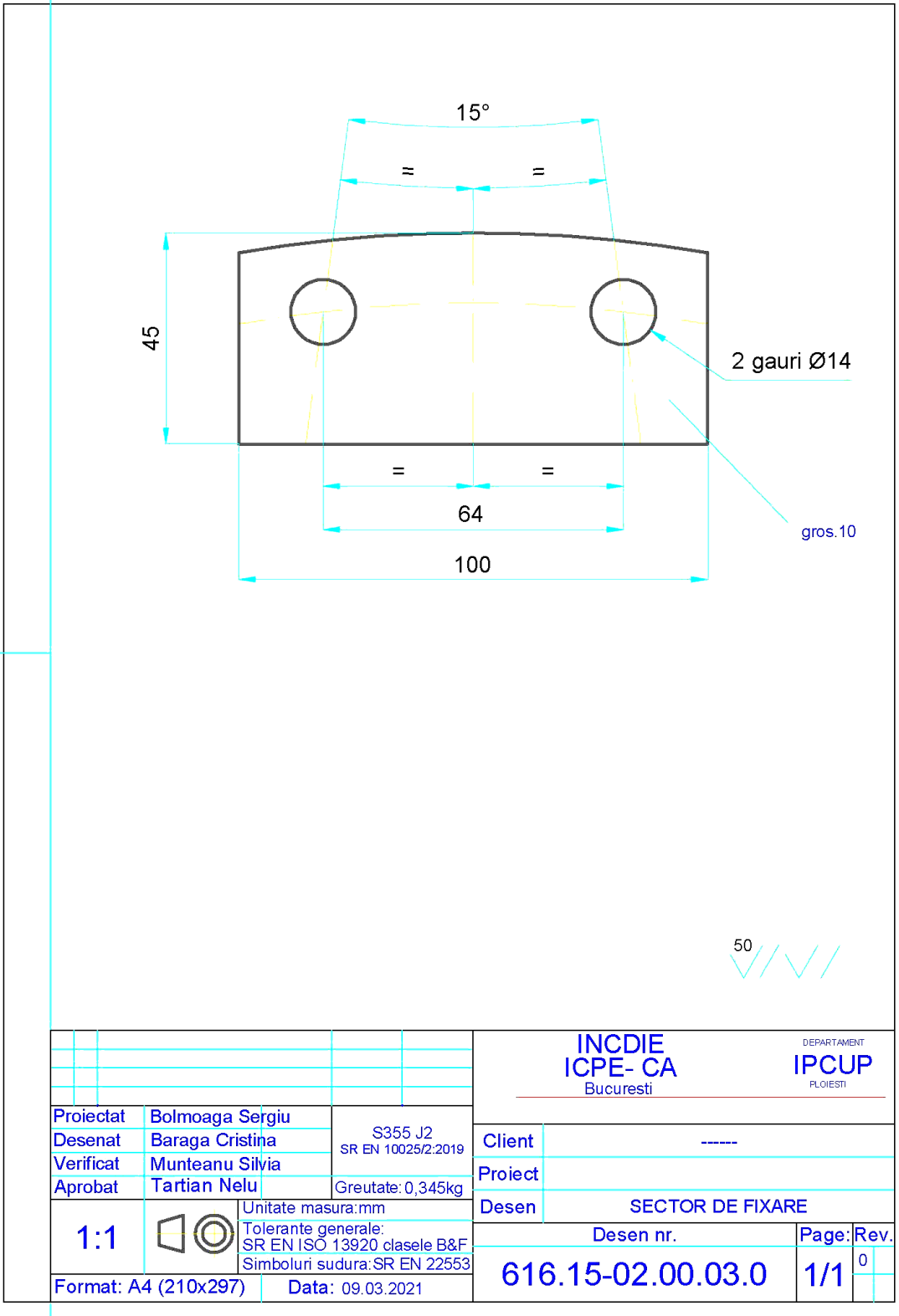

Proiectat	Bolmoaga Sergiu	S355 J2 SR EN 10025/2:2019	
Desenat	Baraga Cristina		
Verificat	Munteanu Silvia		
Aprobat	Tartian Nelu	Greutate: 0,345kg	
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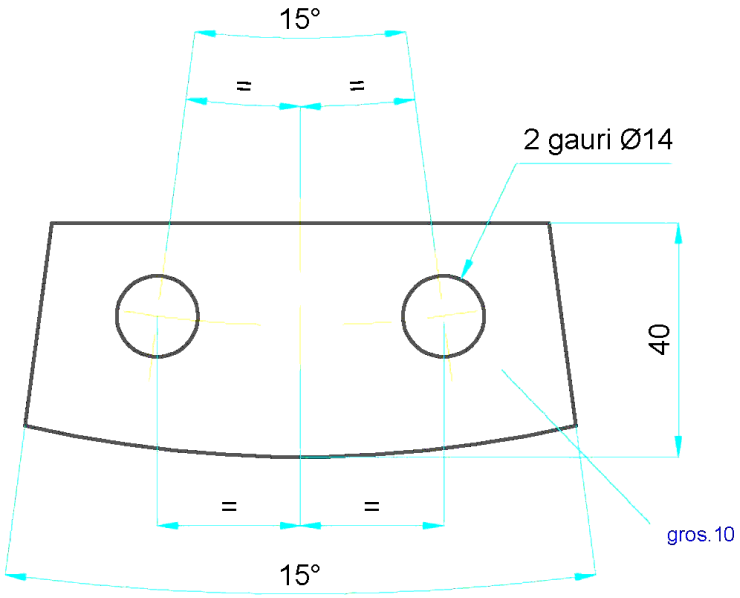

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			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Arhire Tiberiu	S355 J2 SR EN 10025/2:2019	Client	------
Desenat	Gheuca Cristina		Proiect	
Verificat	Munteanu Silvia		Desen	SECTOR DE FIXARE
Aprobat	Tartian Nelu	Greutate: 0,280kg	Desen nr.	Page: / Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	616.15-02.00.07.0	1/1 / 0
Format: A4 (210x297)		Data: 09.03.2021		

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ORC: J37/191/2003
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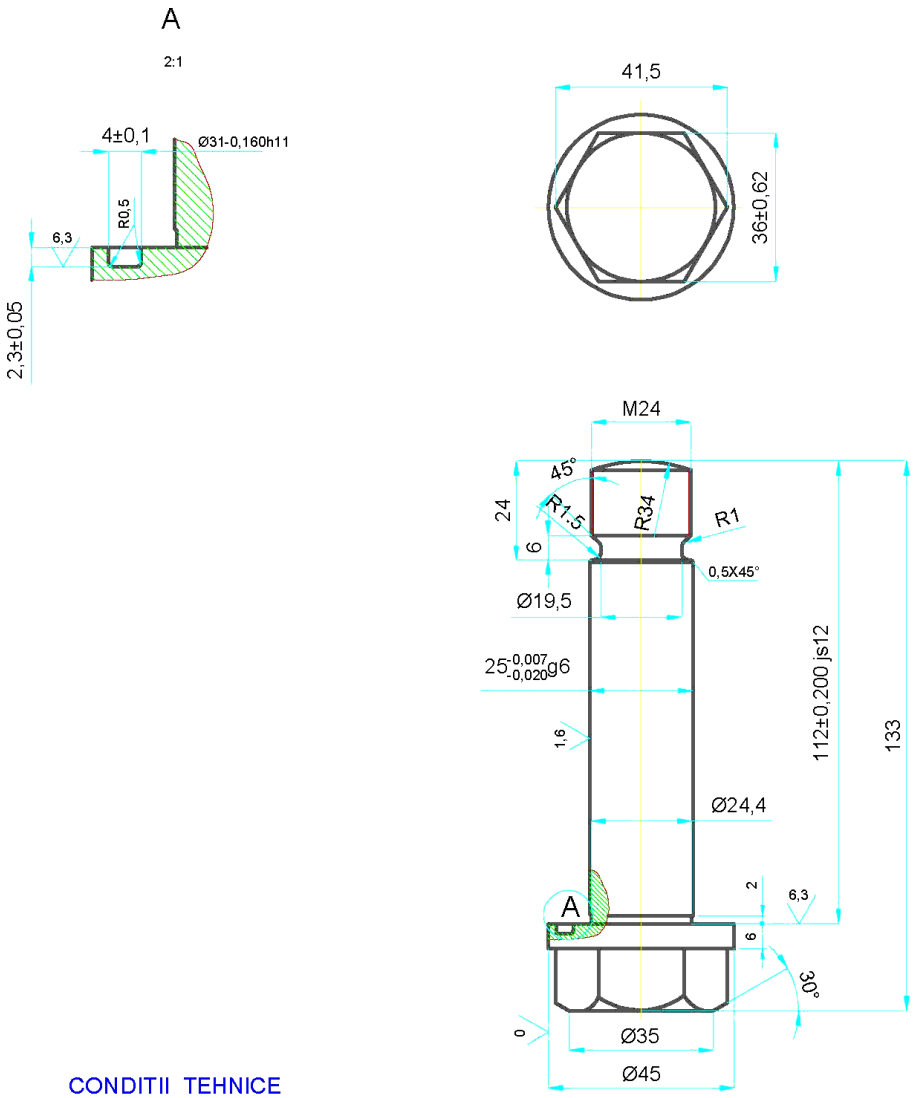
Capital social: 2.971.825 lei



CONDITII TEHNICE

Protejare:AE/OL/Cd 12FI SR EN ISO 2080:2009

25

			INCDIE ICPE-CA BUCUREȘTI	DEPARTAMENT IPCUP PLOIEȘTI	
Proiectat	Bolmoaga Sergiu	34 CrMo4 SR EN 10250/3:2002	Client	-----	
Desenat	Gheuca Cristina		Proiect	Pompa triplex cu plungere 3PP-400	
Verificat	Munteanu Silvia		Desen	surub de pasuire	
Aprobat	Arhire Tiberiu	Greutate: 0,657 kg	Desen nr.		Page: 1/1 Rev. 0
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	616.15-02.00.22.0		
Format: A3 (297x420)		Data: 03.02.2021			

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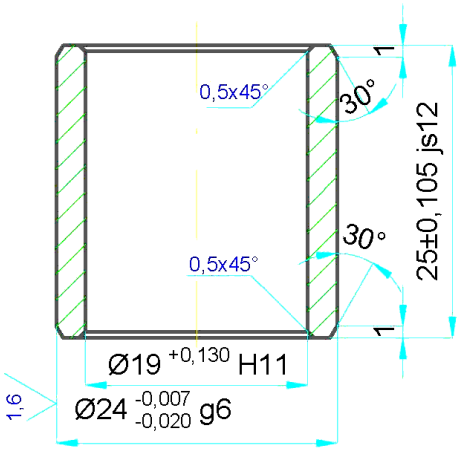
2:1



CONDITII TEHNICE

Imbunatatit la duritatea 280.....320 HB.

25

			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	Tartian Nelu	42CrMo4 SR EN 10250-3:2002	Client		
Desenat	Paiu Andreia		Proiect		
Verificat	Munteanu Silvia		Desen	BUCSA DE CENTRARE	
Aprobat	Cepisca C.	Greutate: 0,033 kg	Desen nr.	Page:	Rev.
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		616.15-02.24.07.0	1/1	0
Format: A4 (210x297)	Data: 27.01.2021				

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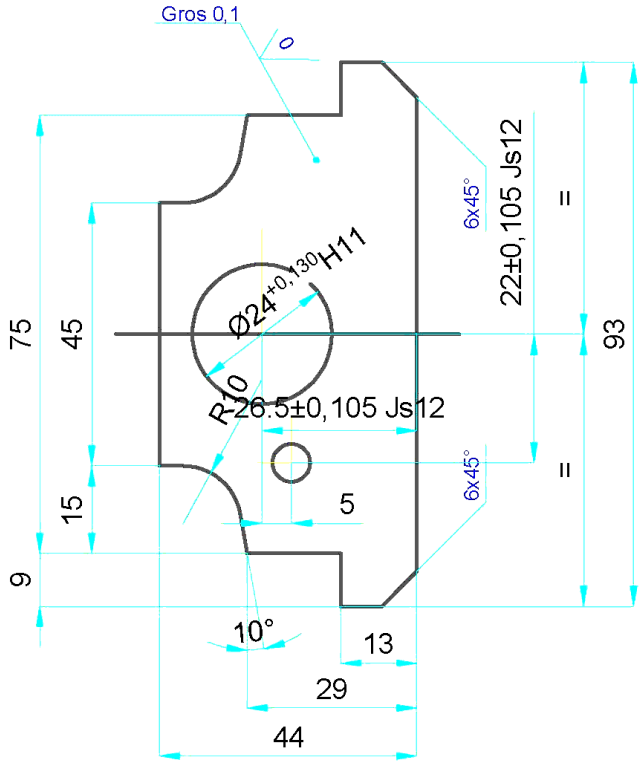

Banda TA 0,1 STAS 290/2-89

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			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Tartian Nelu	CuZn30(Am70) STAS 95-90	Client	
Desenat	Gheuca Cristina		Proiect	
Verificat	Baraga Constantin			
Aprobat	Arhire Tiberiu	Greutate: 0,003 kg	Desen	ADAOS
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Desen nr. 616.15-02.24.09.0	Page: 1/1 Rev. 0
Format: A4 (210x297)	Data: 27.01.2021			

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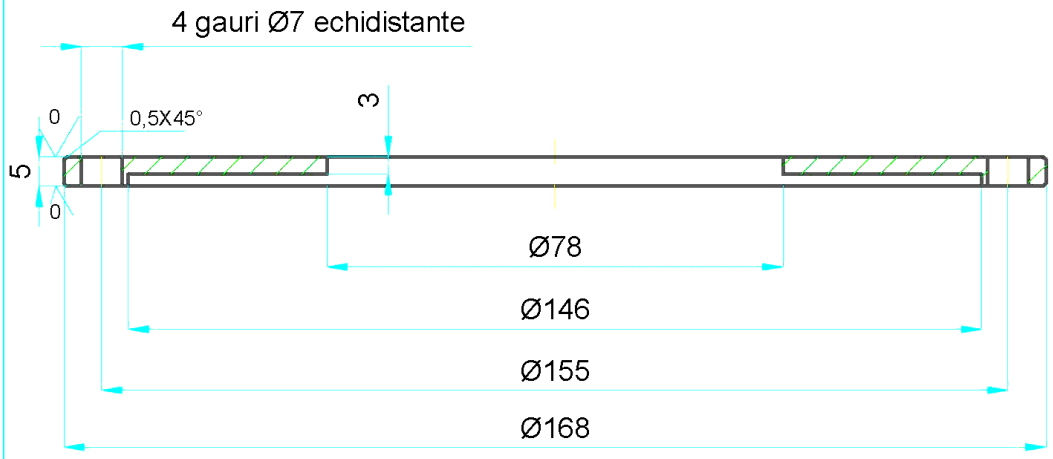

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			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	Arhire Tiberiu	S 355 J2 SR EN 10025/2:2019	Client	------	
Desenat	Paiu Andreia		Proiect		
Verificat	Baraga Constantin		Desen	INEL DE FIXARE	
Aprobat	Cepisca C.	Greutate: 0,520kg	Desen nr.		Page: Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	616.15-02.00.31.0		1/1 0
Format: A4 (210x297)		Data: 01.02.2021			

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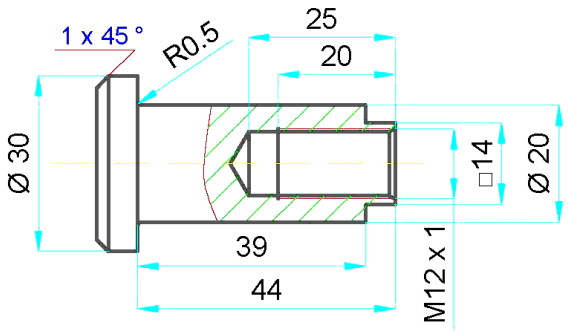

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			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	Arhire Tiberiu	C 45 E SR EN 10250/2:2002	Client	------	
Desenat	Daisa A.M.		Proiect		
Verificat	Munteanu Silvia				
Aprobat	Cepisca C.	Greutate: 0,120 kg	Desen	Bolt	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr.	Page:	Rev.
Format: A4 (210x297)		Data: 4.02.2021	616.15-02.35.02.0	1/1	0

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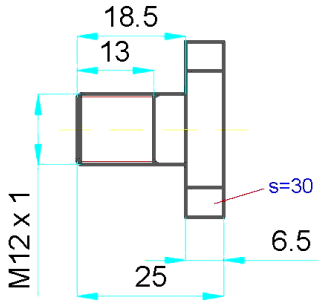

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			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	C25E SR EN 10250/2:2002	Client	------
Desenat	Baraga Cristina		Proiect	
Verificat	Balan Maria		Desen	Surub special
Aprobat	Arhire Tiberiu	Greutate: 0,033kg		
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr. 616.15-02.35.05.0	Page: 1/1 Rev. 0
Format: A4 (210x297)		Data: 4.02.2021		

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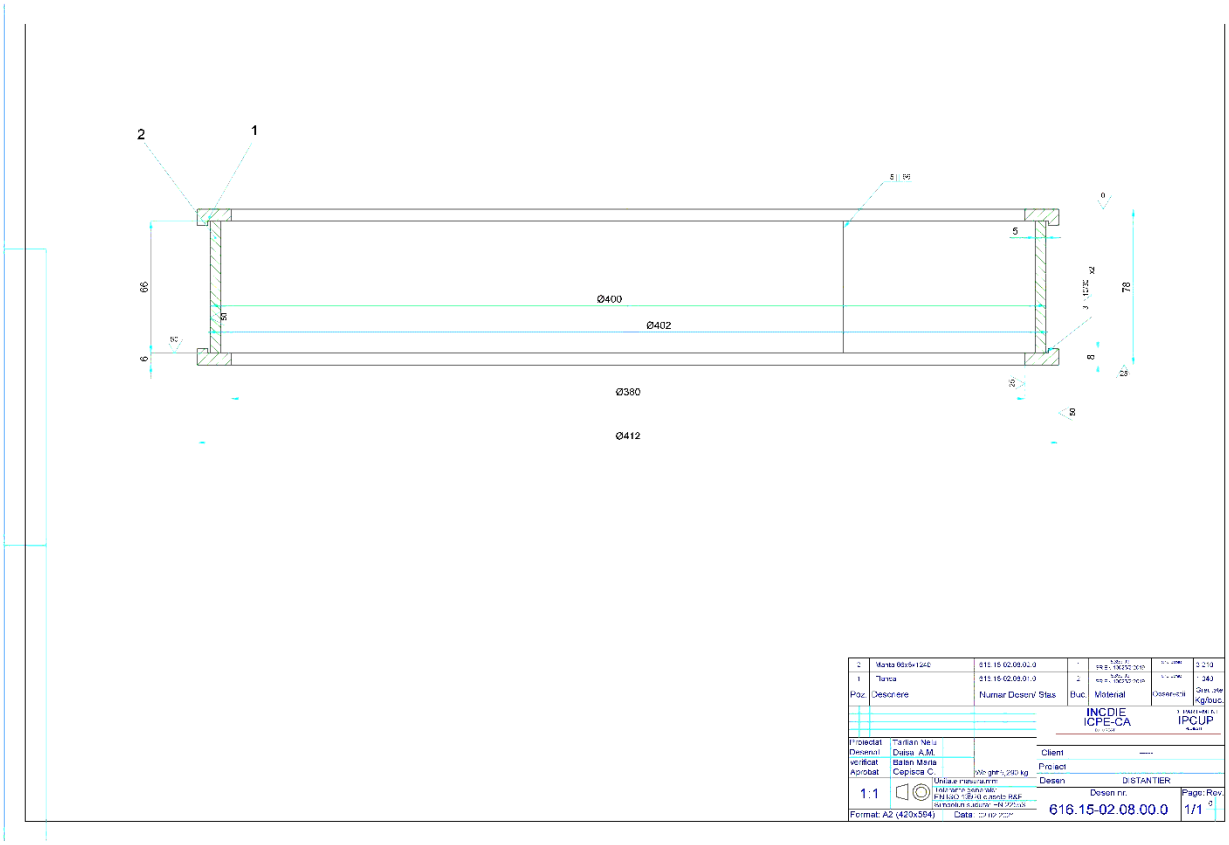

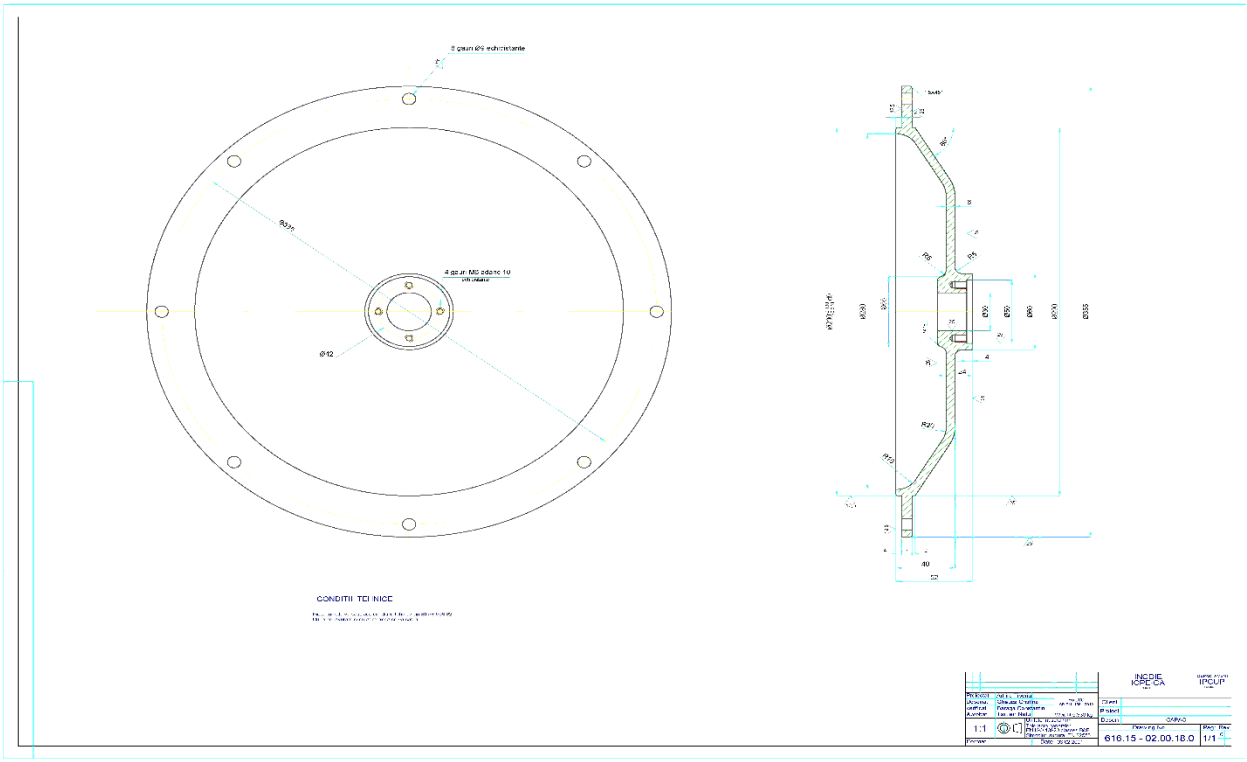

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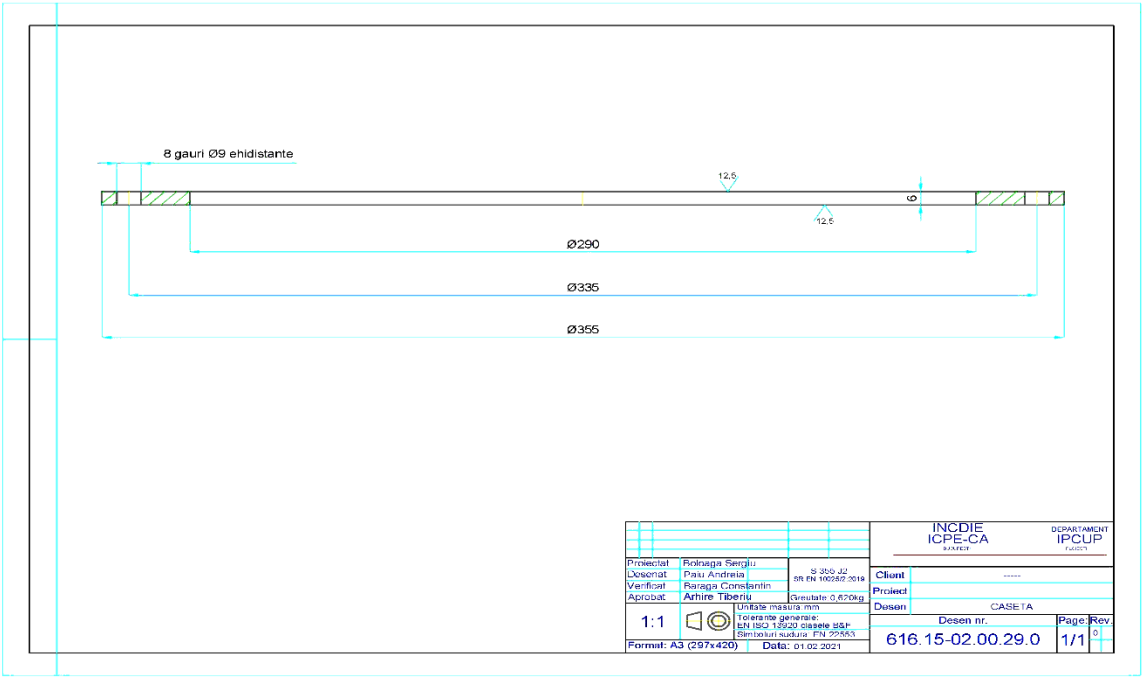

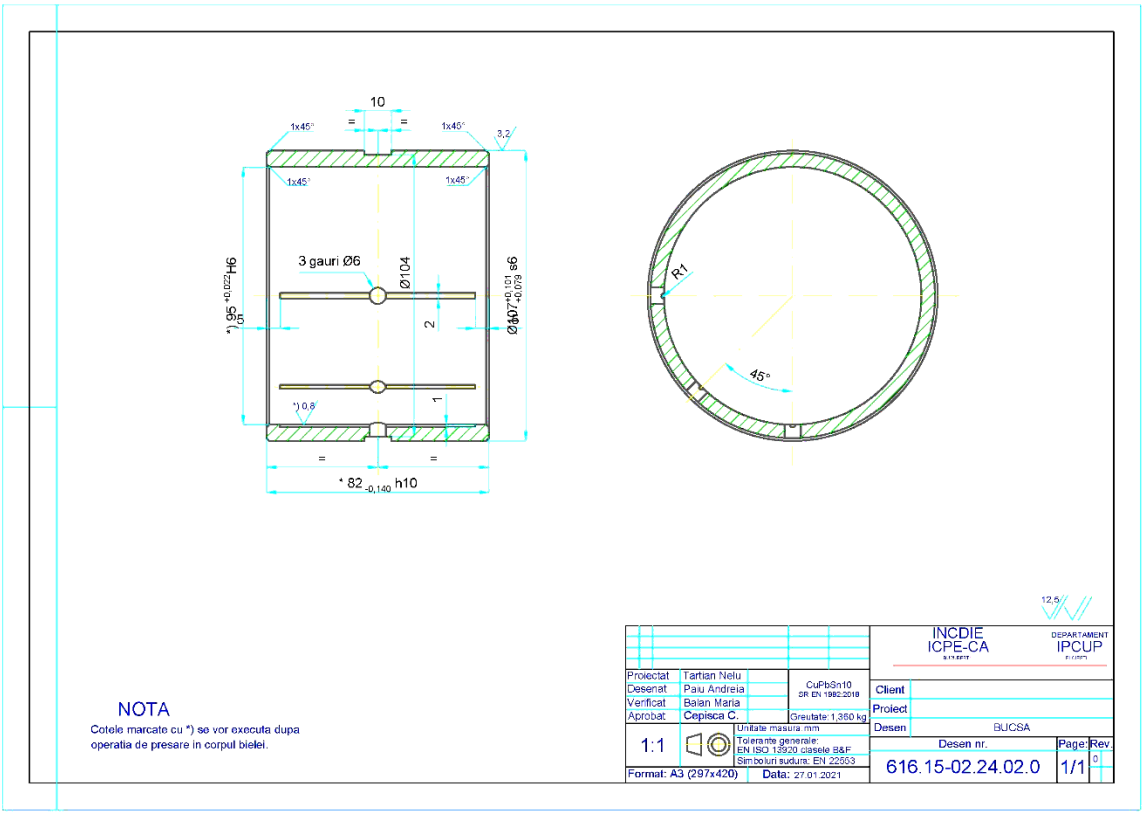

NOTA
Cotele marcate cu *) se vor executa dupa operatia de presare in corpul bielei.

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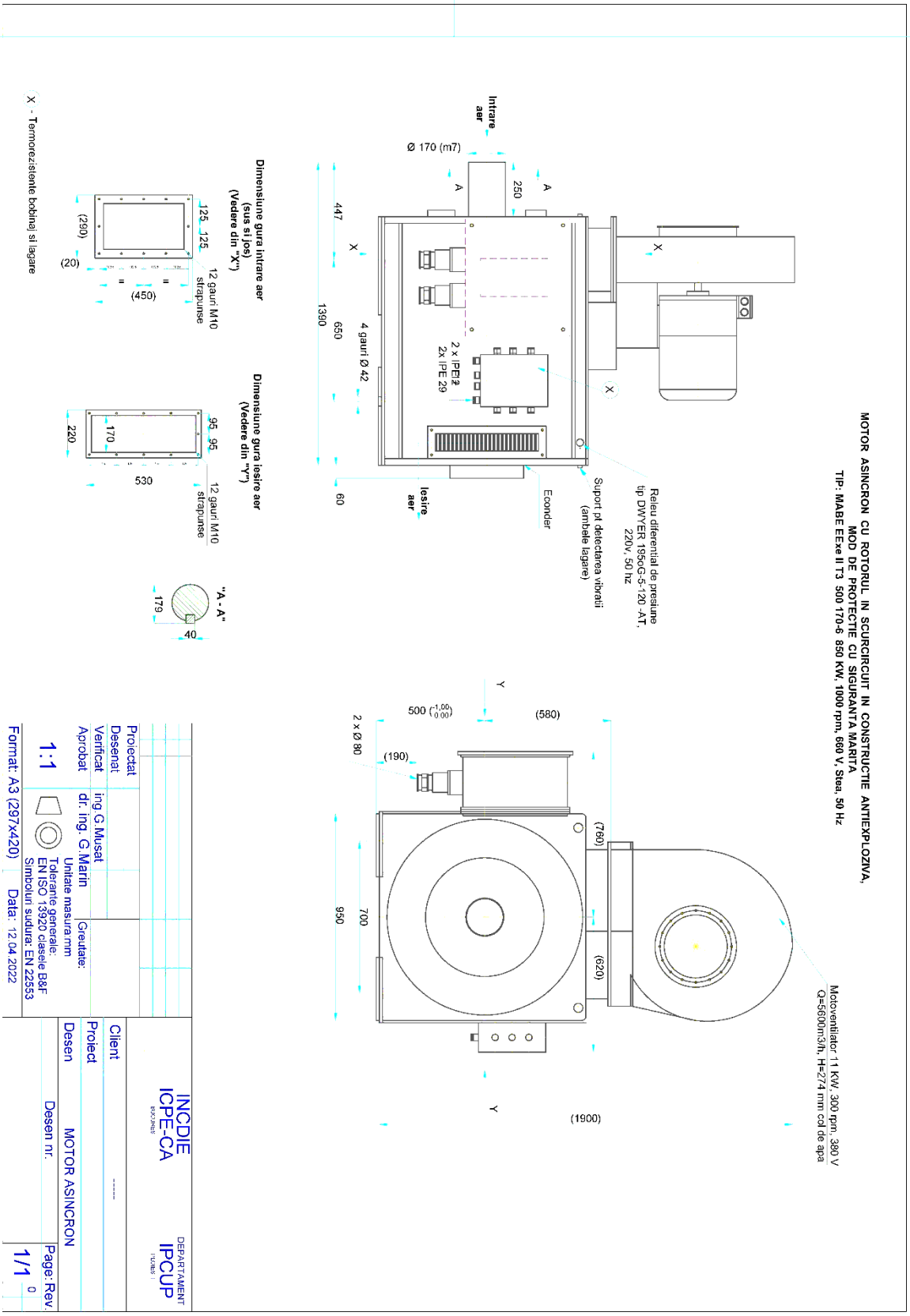

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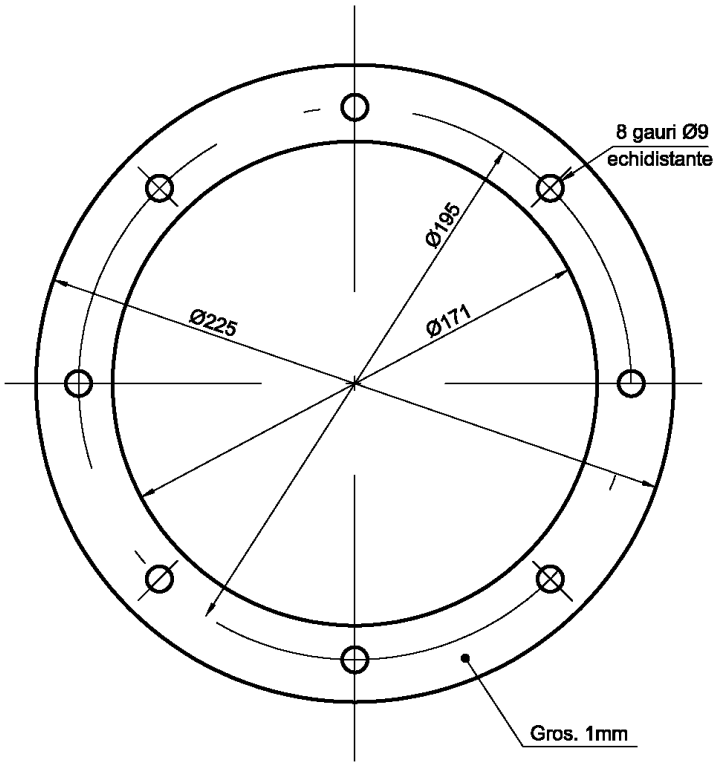

Proiectat	ing. S. Tudor		carton dur tip A STAS 3053 - 86	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,014kg	
1:2		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

Client	------			
Proiect	Pompa triplex cu plungere 3PP - 700			
Desen	GARNITURA			
Desen nr.		Page:	Rev.	
616.15 - 04.00.05.0		1/1	0	

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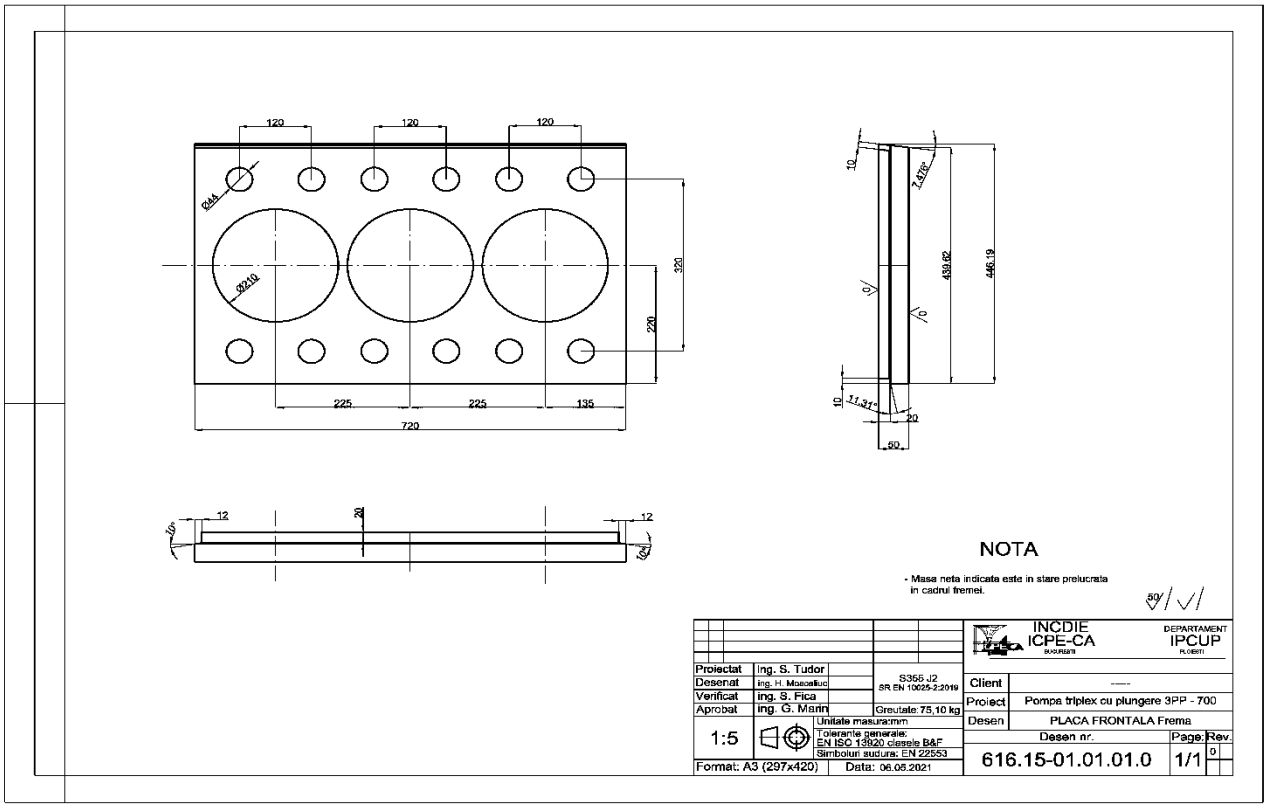

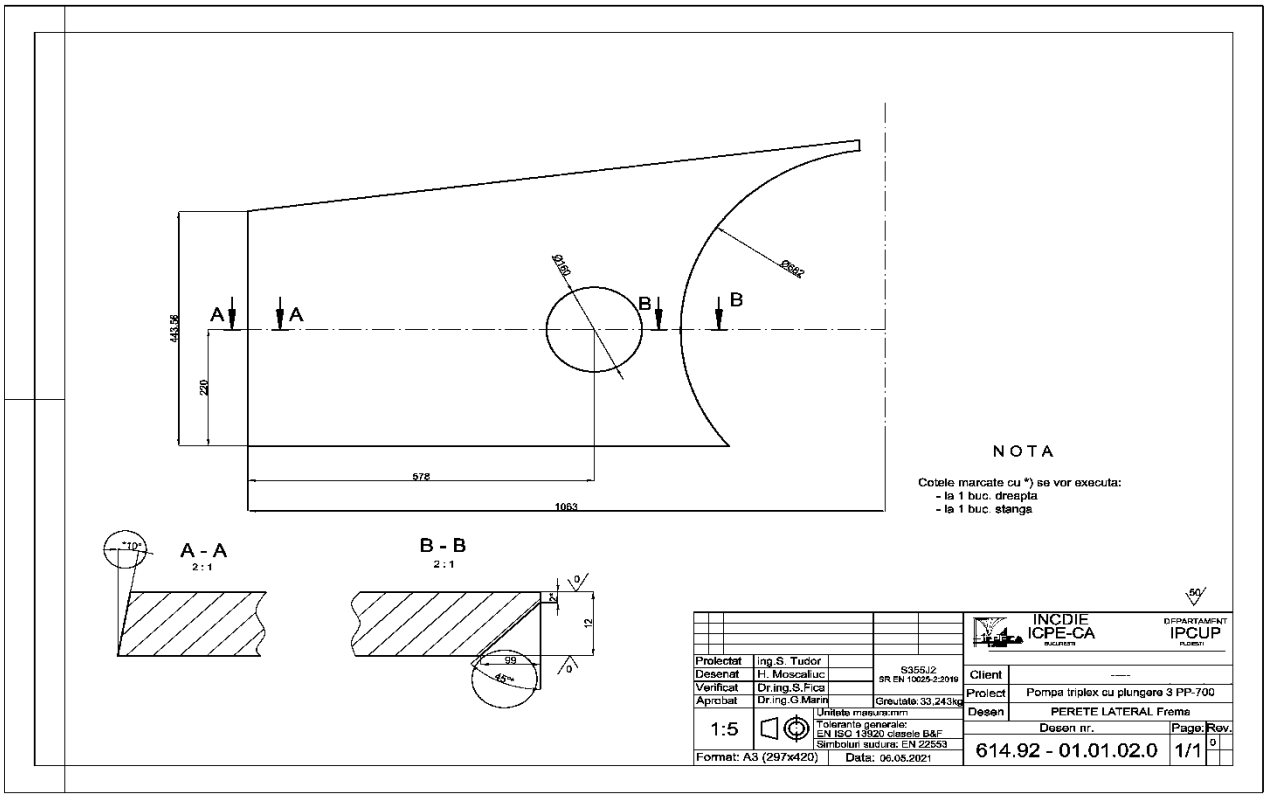

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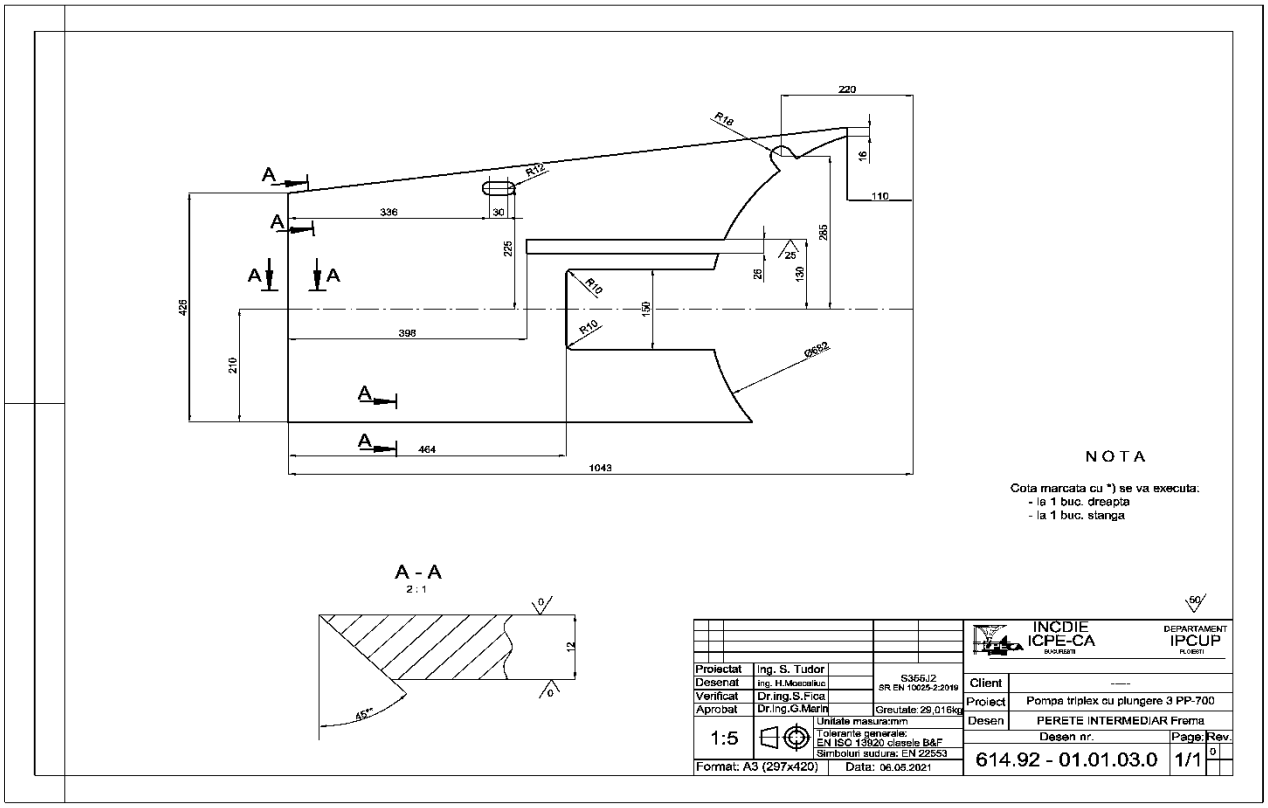

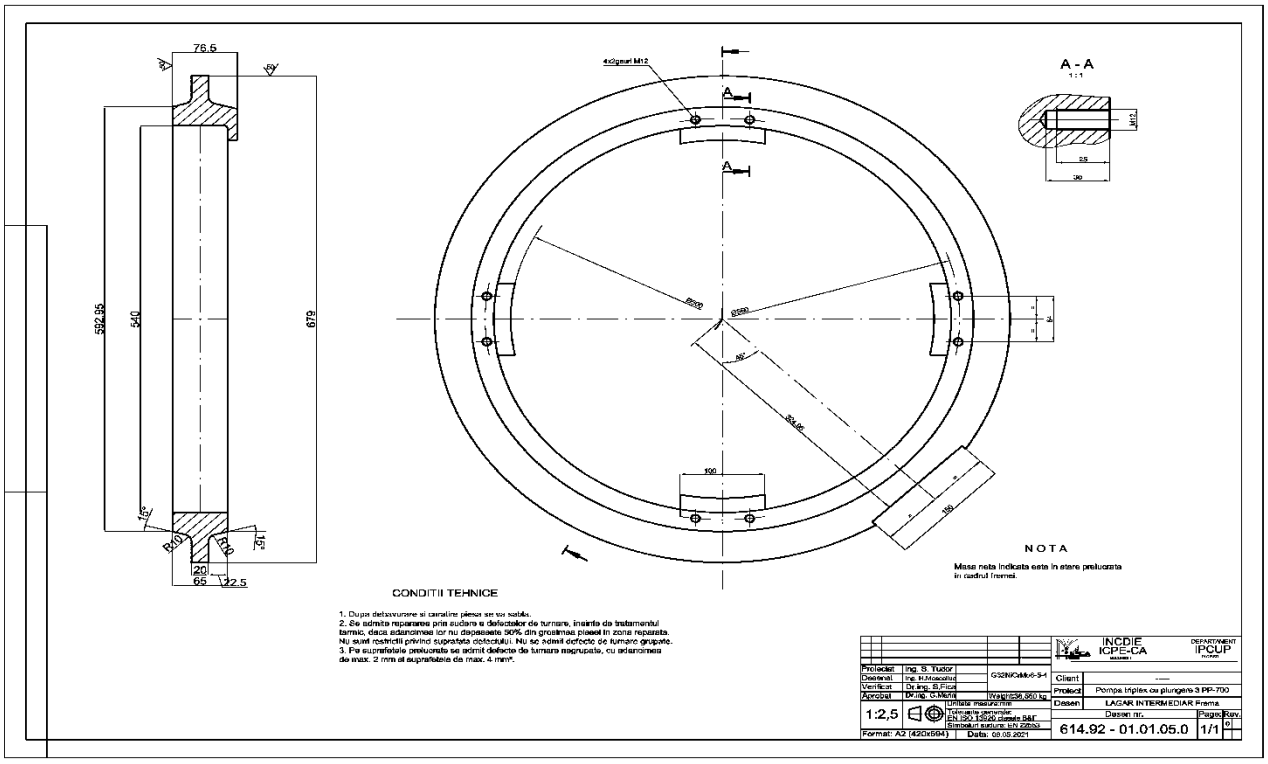

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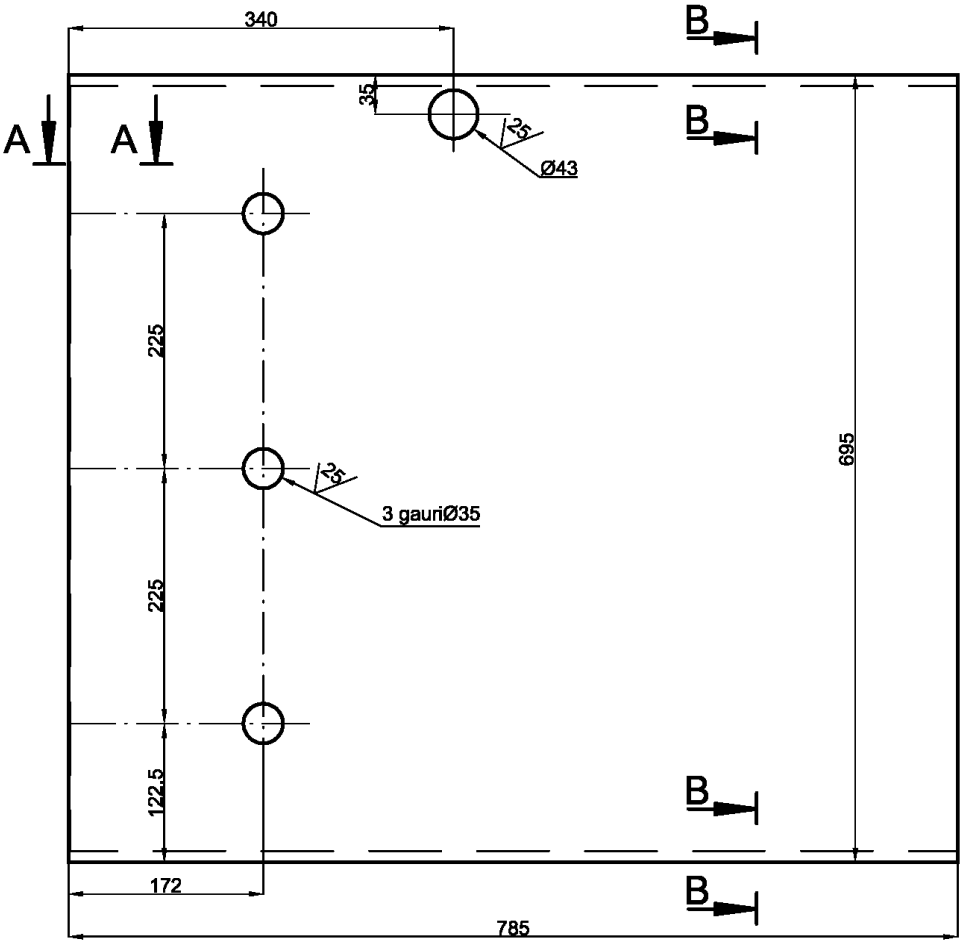

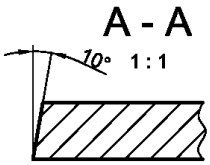

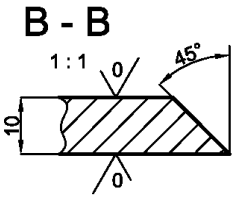

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Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Desenat	Fl. Radu			Client	-----
Verificat	Dr.ing. S.Fica			Proiect	Pompa triplex cu plungere 3 PP-700
Aprobat	Dr.ing. G.Marin		Greutate: 42,487kg	Desen	PERETE INFERIOR
1:5	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553			Desen nr.	Page: / Rev.
Format: A4 (210x297)	Data: 06.05.2021			614.92 - 01.01.09.0	1/1 / 0

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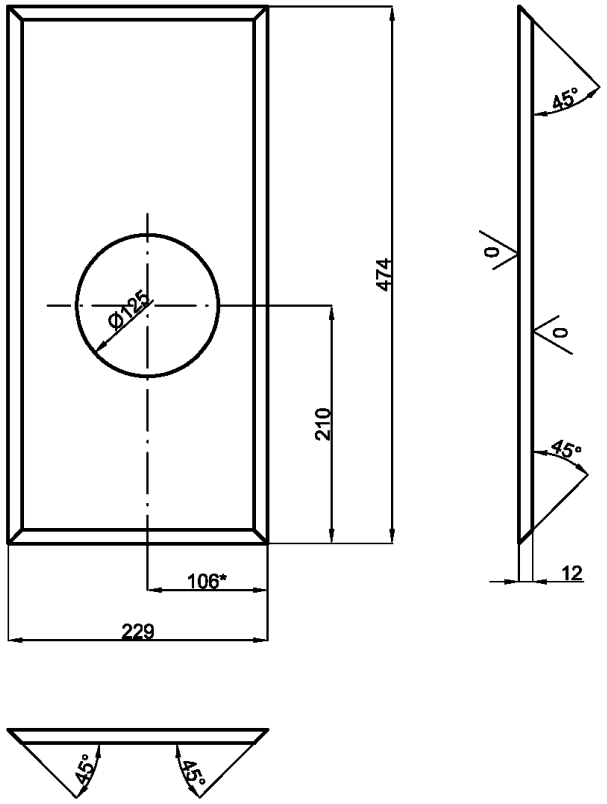

NOTA

Cota marcata cu *) se va executa:
- la 1 buc. dreapta
- la 1 buc. stanga

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Proiectat	ing. S. Tudor		S 355 J2 SR EN 10025-2:2019	INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Desenat	Fl. Radu			Client	-----
Verificat	Dr.ing. S. Fica			Proiect	Pompa triplex cu plungere 3 PP-700
Aprobat	Dr.ing. G.Marin		Greutate: 8,842 kg	Desen	PLACA
1:5	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553			Desen nr.	Page: / Rev.
Format: A4 (210x297)	Data: 06.05.2021			614.92 - 01.01.10.0	1/1 / 0

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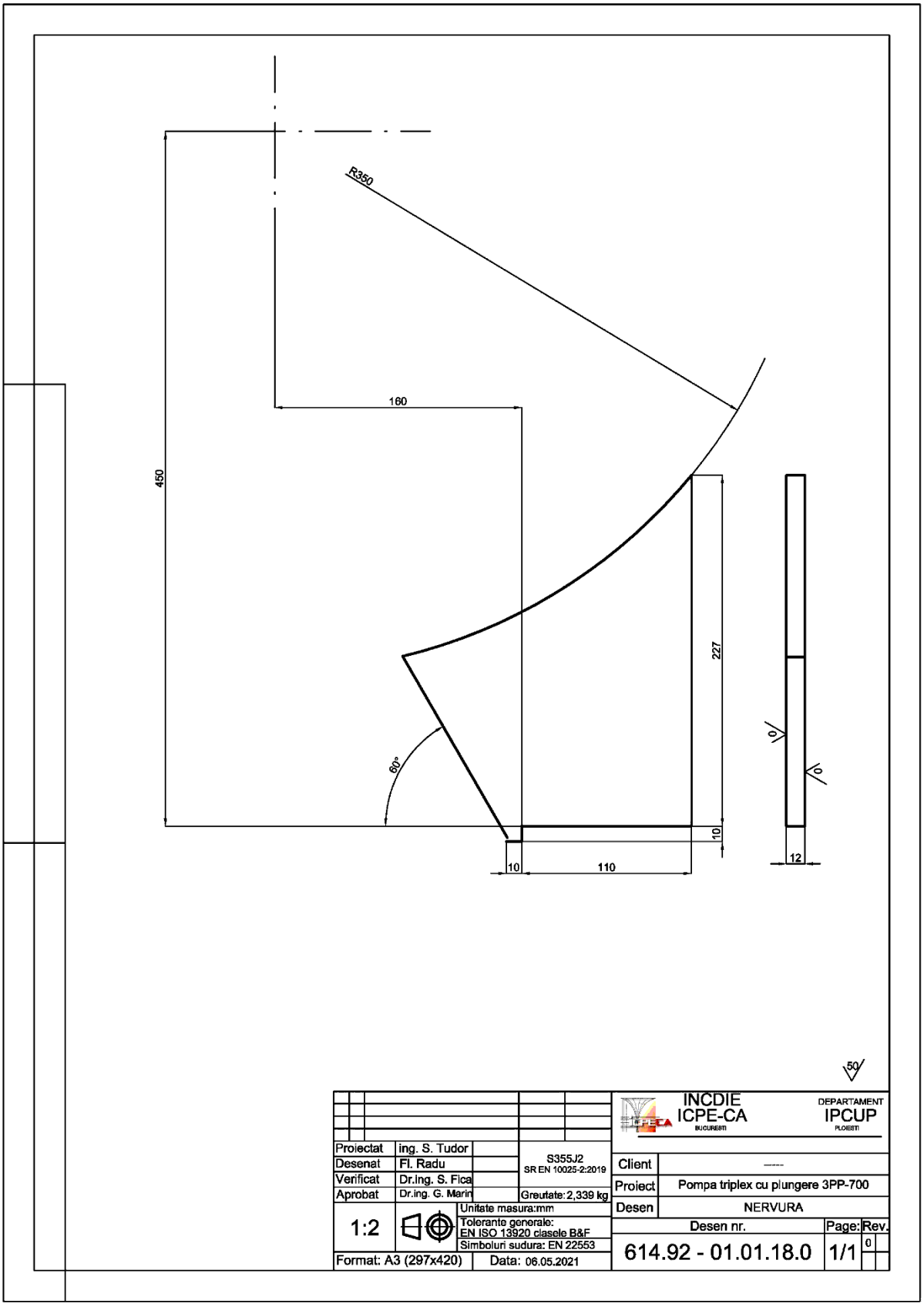

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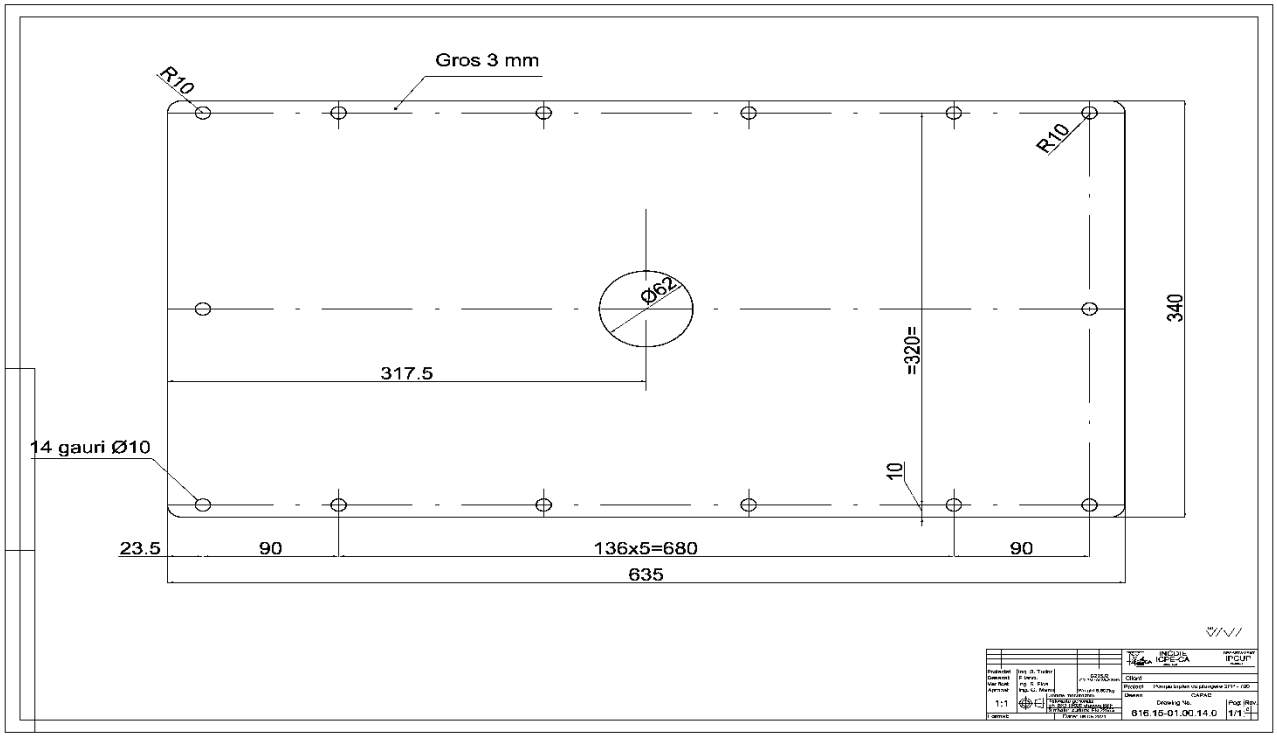

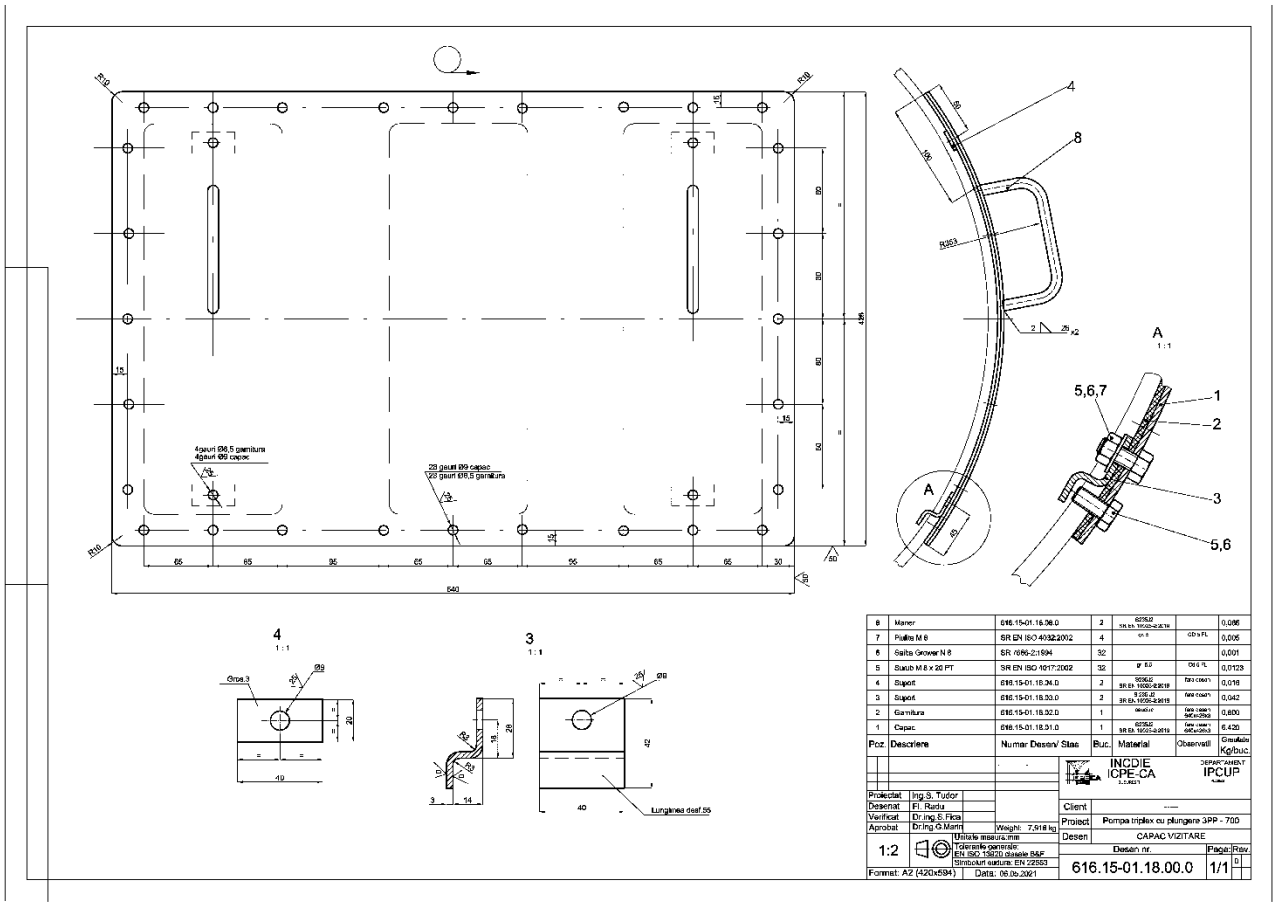

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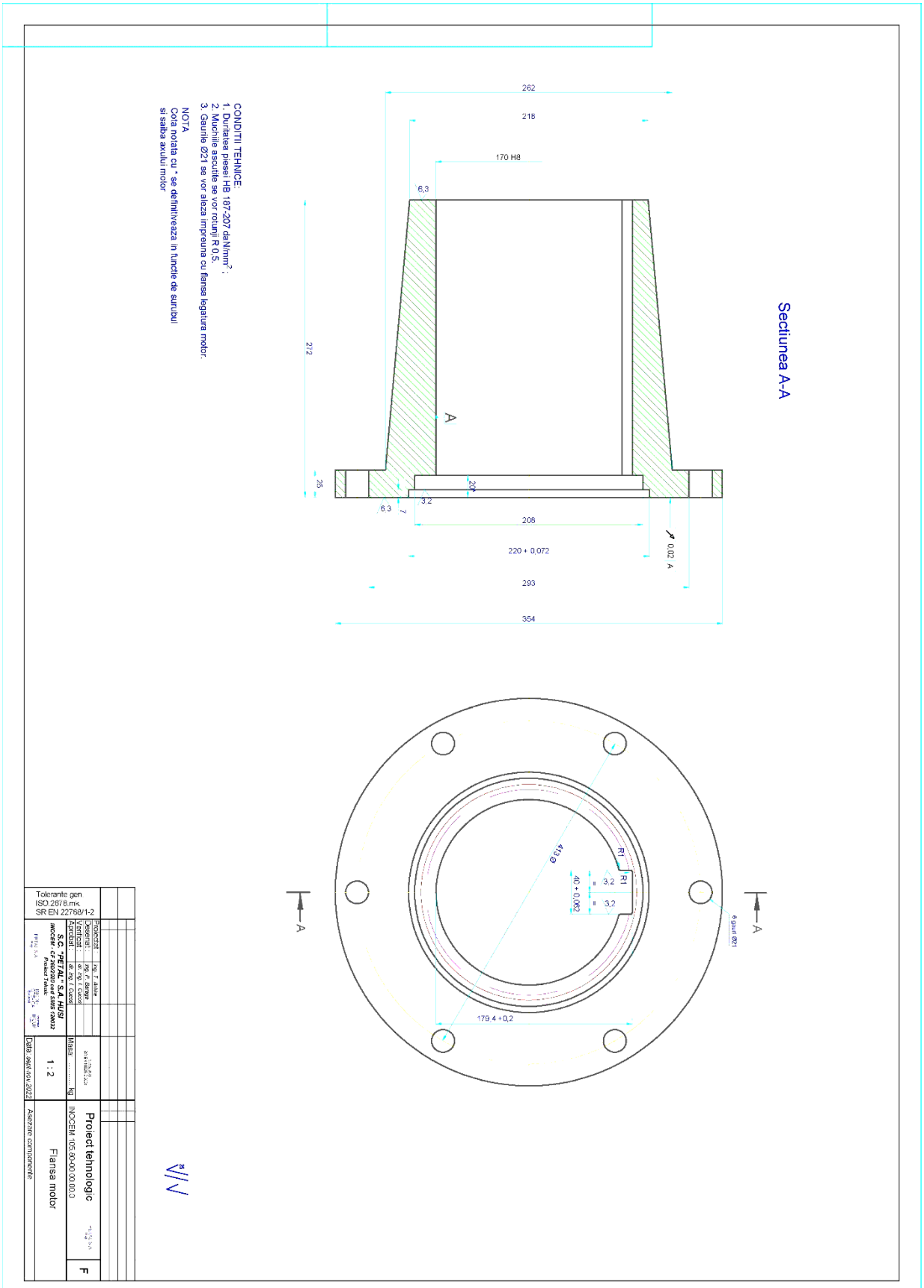

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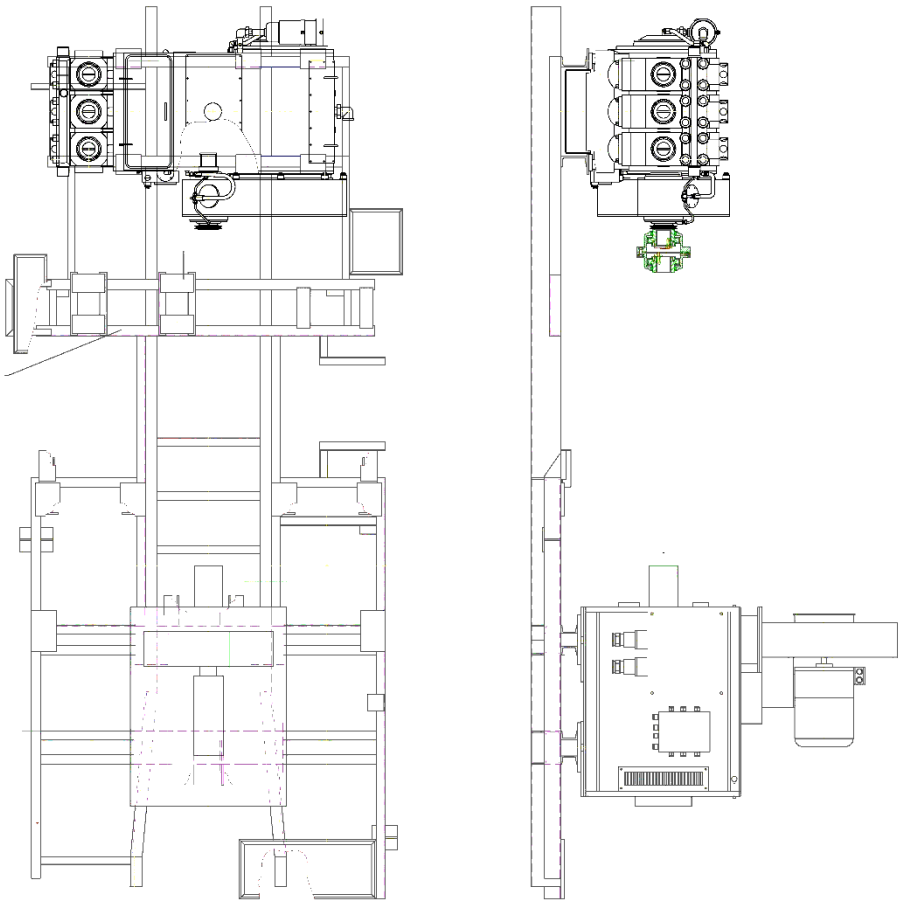

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2			
S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos		
Data: sept-nov.2022	1 : 1	Masa: .....kg	
INOCEM -Ansamblu Instalatie	Asezare componente instalatie	INOCEM	Proiect tehnologic
			F

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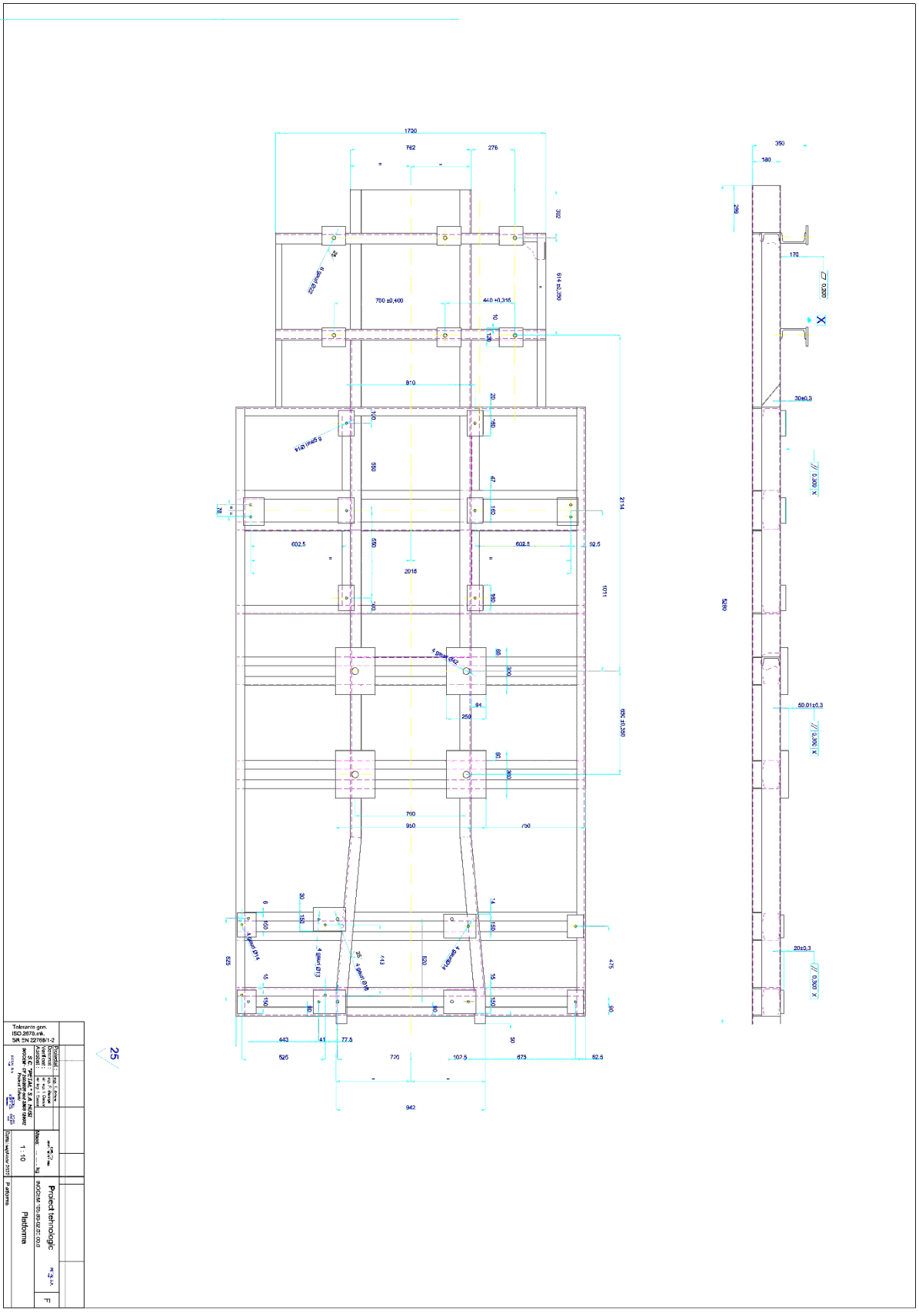

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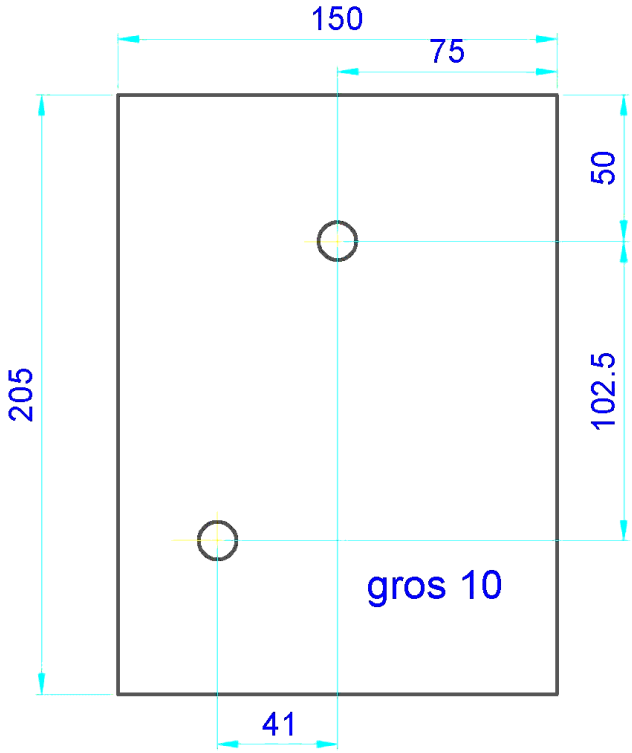
1:2



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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S355J2 SR EN 10025-2 2019 Masa: 2,460 kg	Proiect tehnologic PETAL S.A. Huși INOCEM 105.80-00.00.00.0	F
	S.C. "PETAL" S.A. HUSI **INOCEM - CF 260/2020 cod SMIS 120032** **Proiect Tehnic** PETAL S.A. Huși INCDIE ICPE- CA Bucuresti IPCUP	1 : 1 Data: sept-nov.2022	Placa Poz 19 Platforma	

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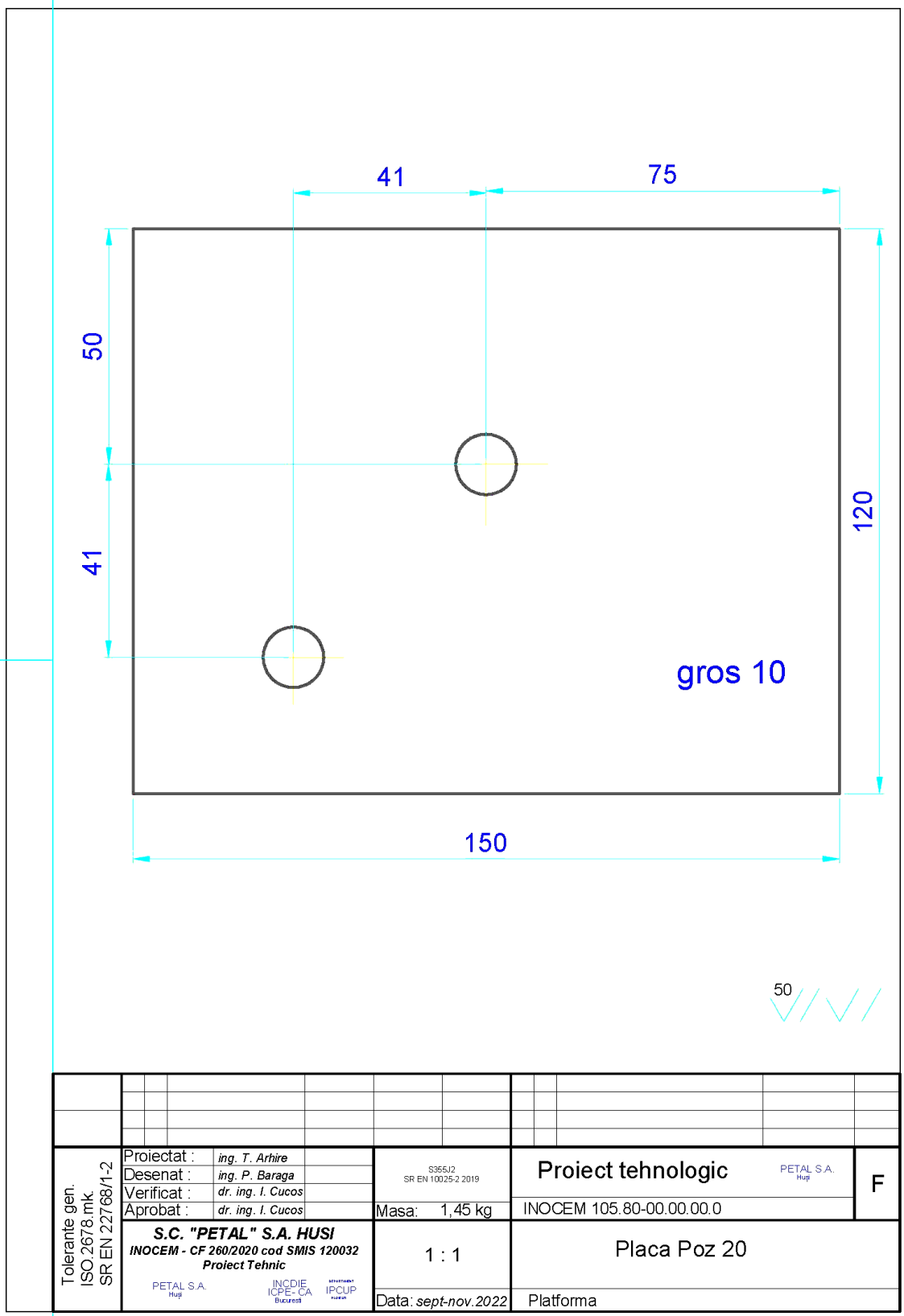

Toleranțe gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S355J2 SR EN 10025-2 2019 Masa: 1,45 kg	Proiect tehnologic — PETAL S.A. Huși — F INOCEM 105.80-00.00.00.0
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA București — IPCUP	1 : 1 Data: *sept-nov.2022*	Placa Poz 20 Platforma

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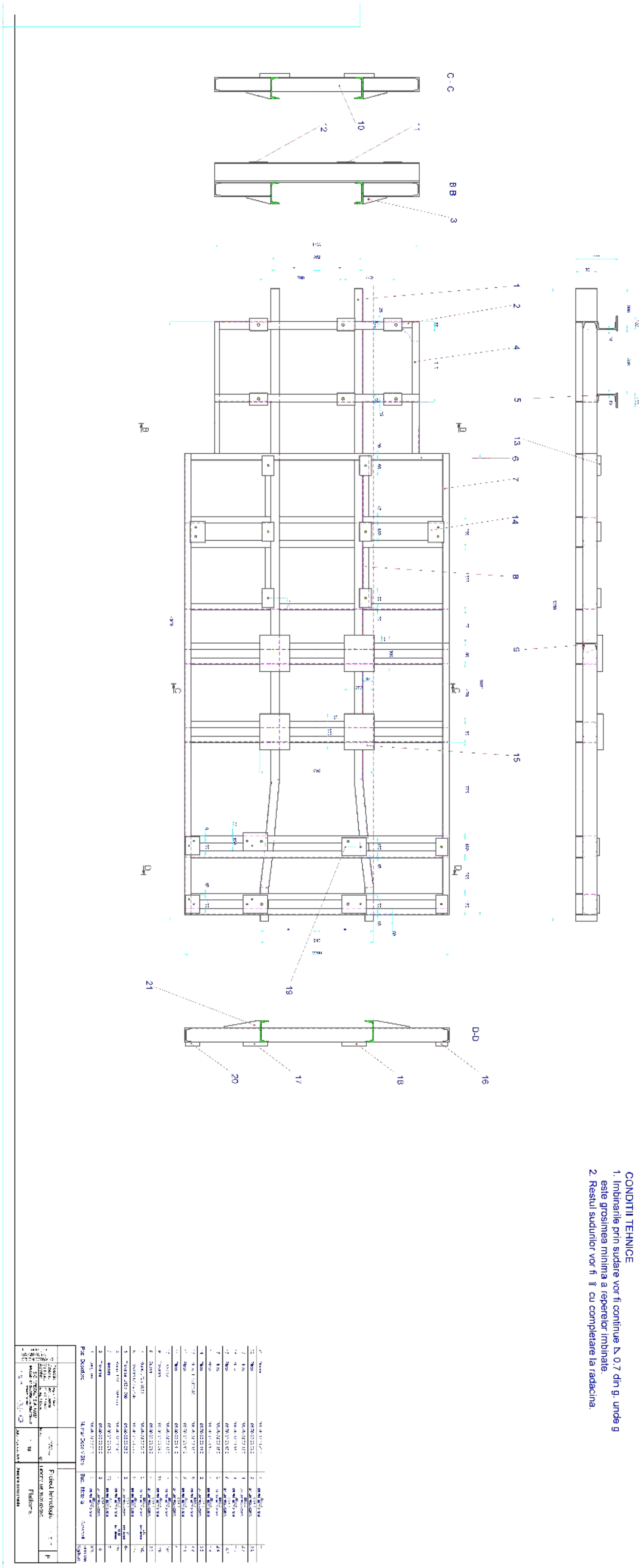

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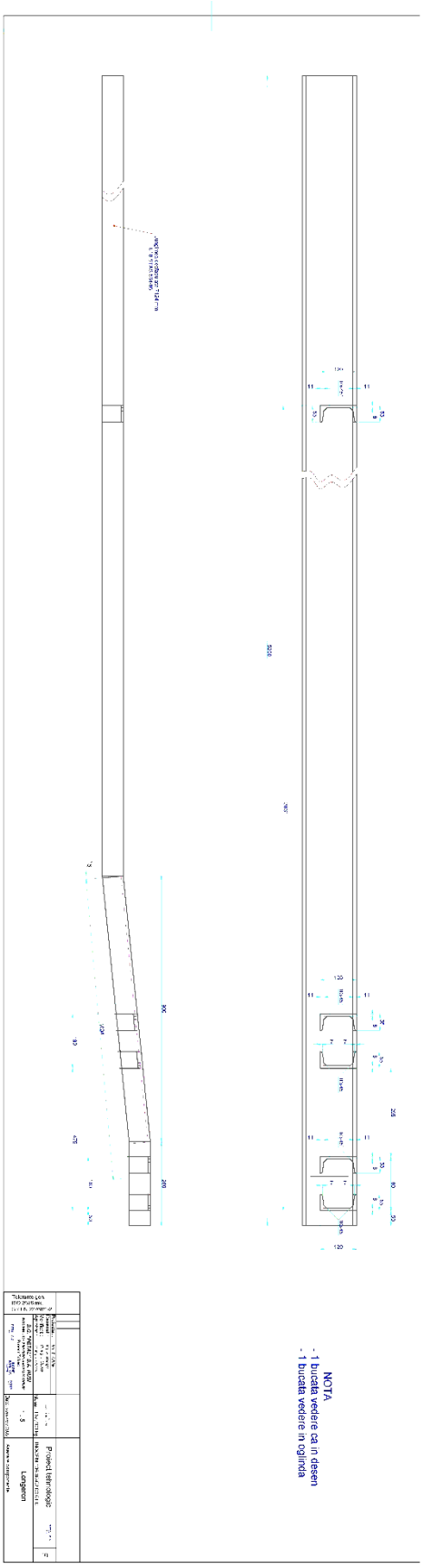

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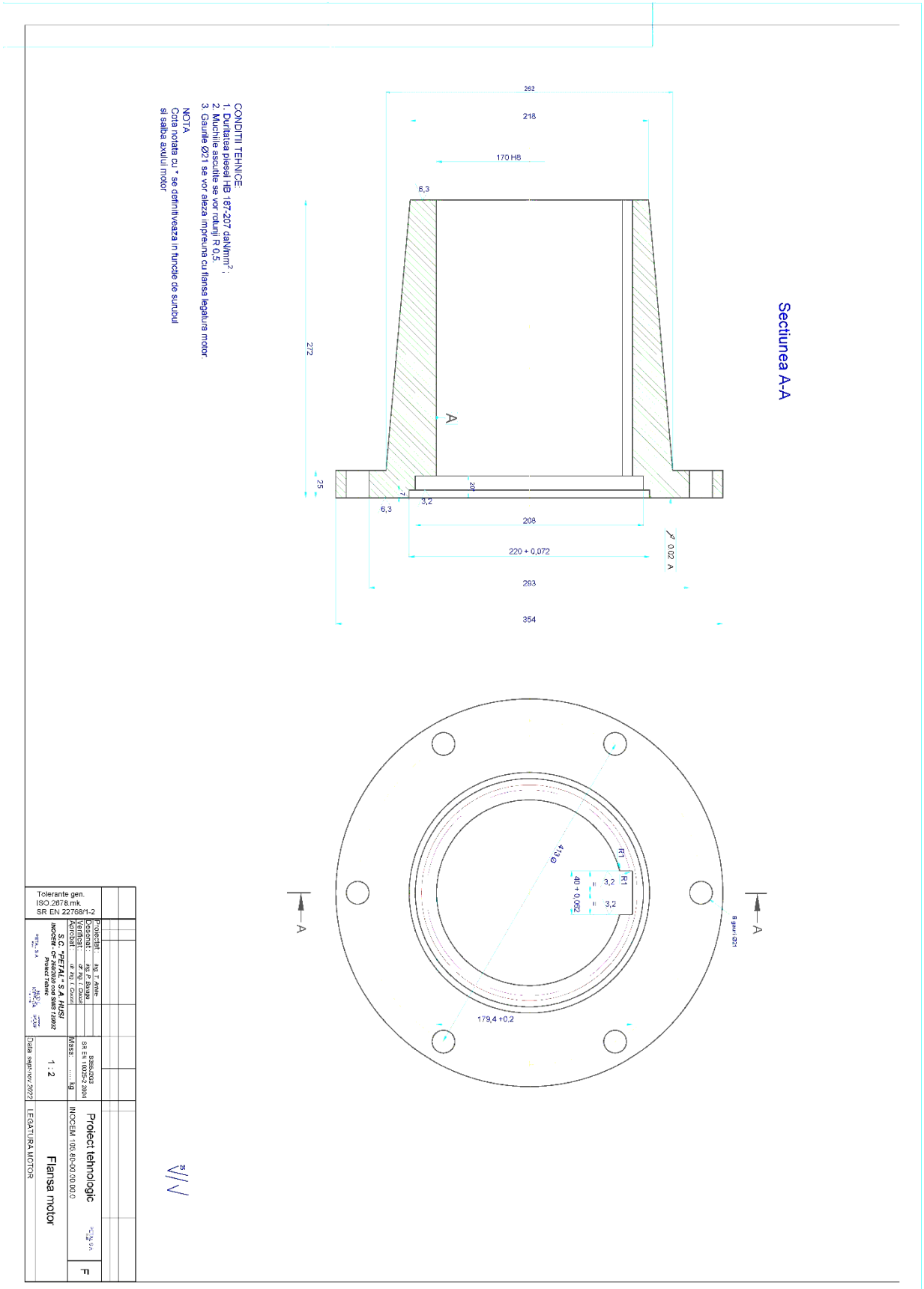

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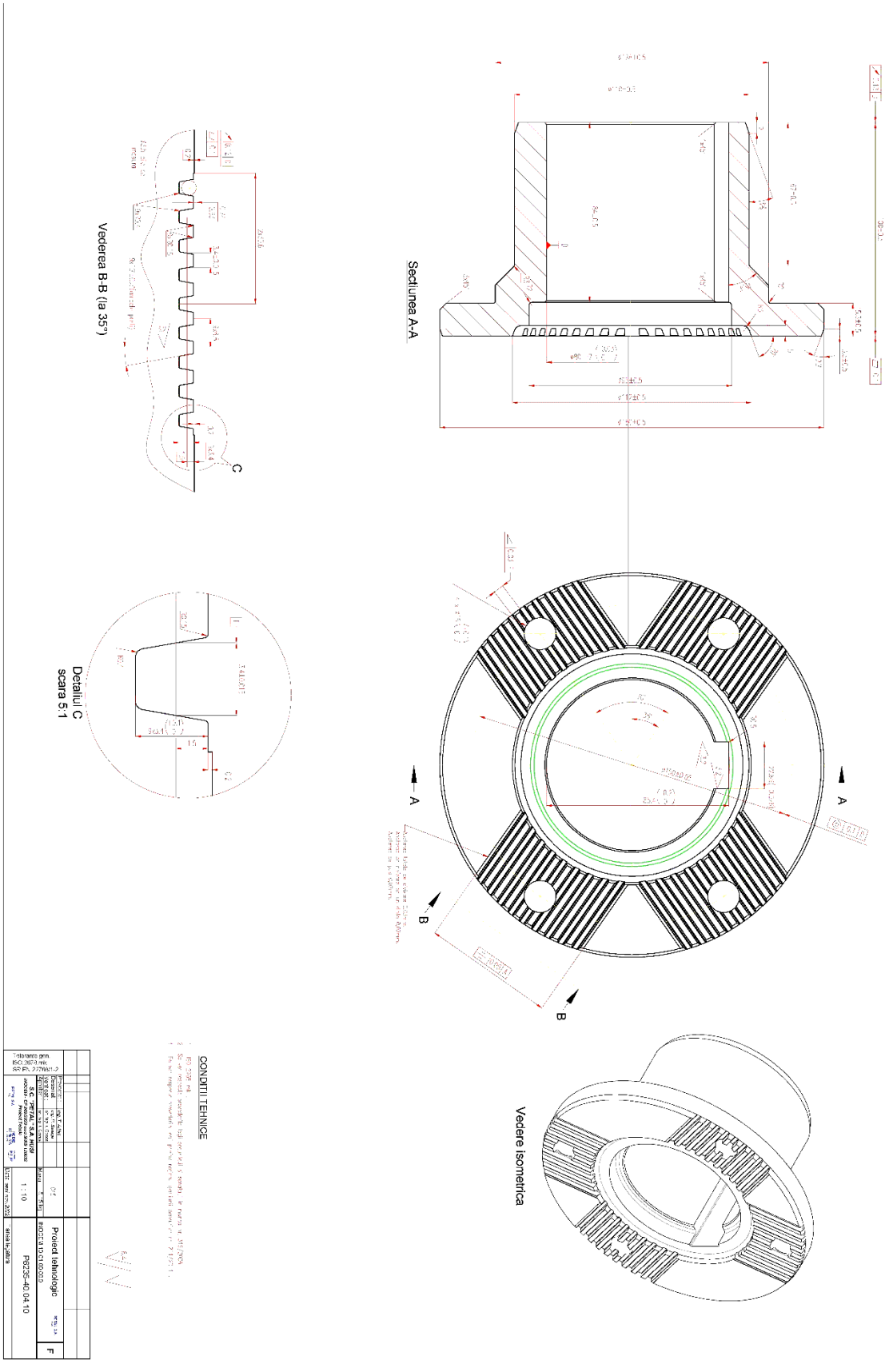

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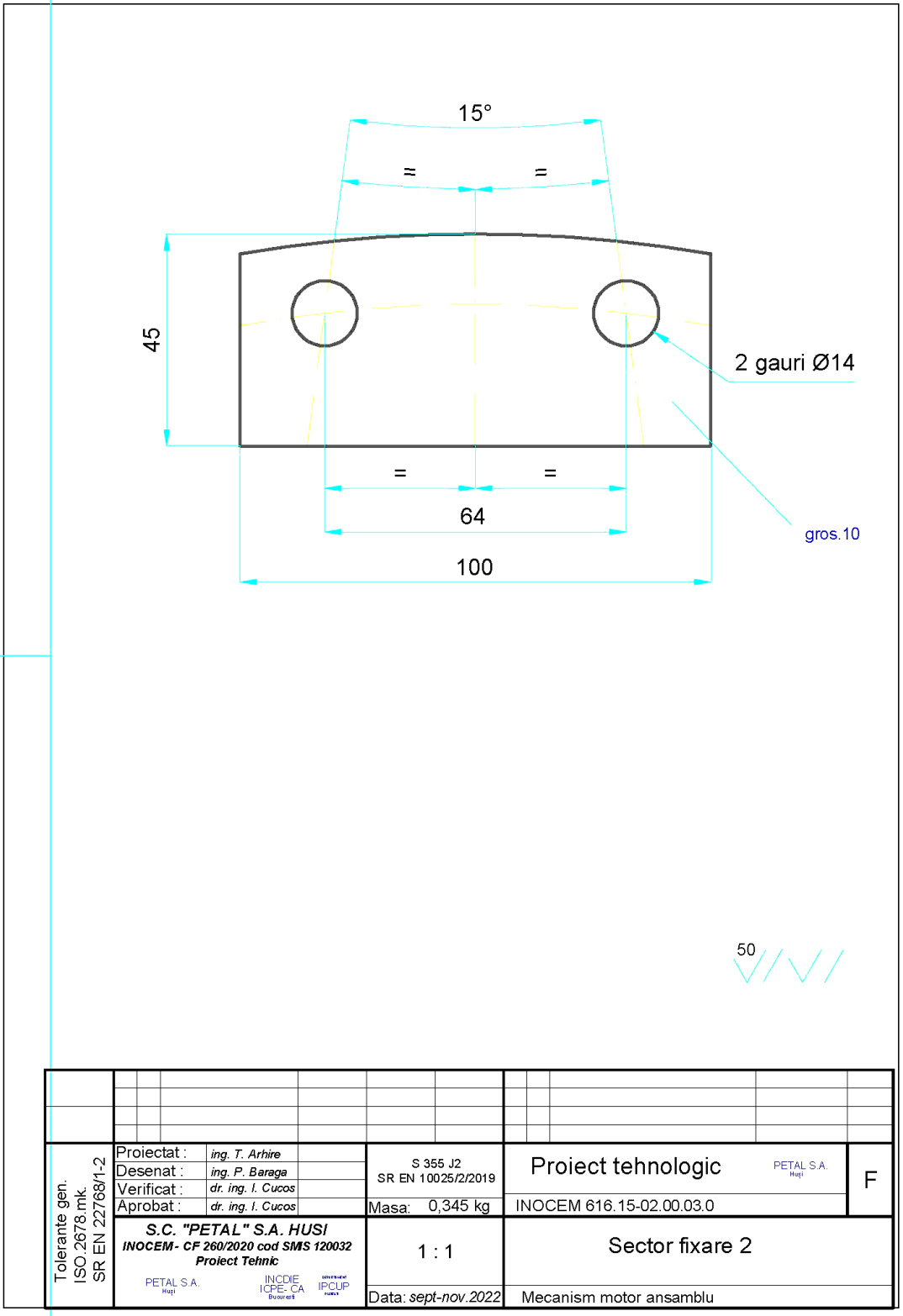

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	S 355 J2 SR EN 10025/2/2019 Masa: 0,345 kg	Proiect tehnologic — PETAL S.A. Huși INOCEM 616.15-02.00.03.0	F
	S.C. "PETAL" S.A. HUSI ***INOCEM- CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA București — IPCUP	1 : 1 Data: *sept-nov.2022*	Sector fixare 2 Mecanism motor ansamblu	

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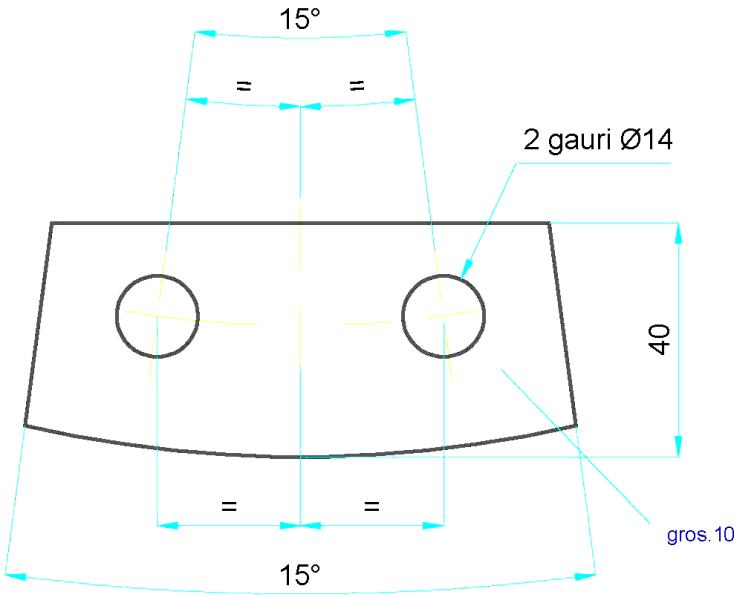

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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S 355 J2 SR EN 10025/2/2019 Masa: 0,280 kg	Proiect tehnologic PETAL S.A. Huși INOCEM 616.15-00.00.07.0	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși INCDIE ICPE- CA Bucuresti IPCUP	1 : 1 Data: *sept-nov.2022*	Sector de fixare Mecanism motor ansamblu	

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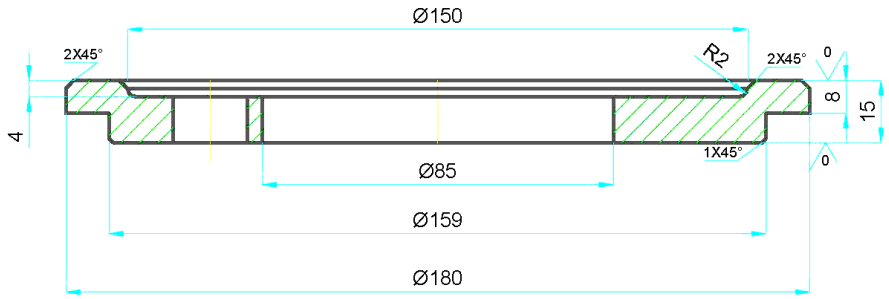

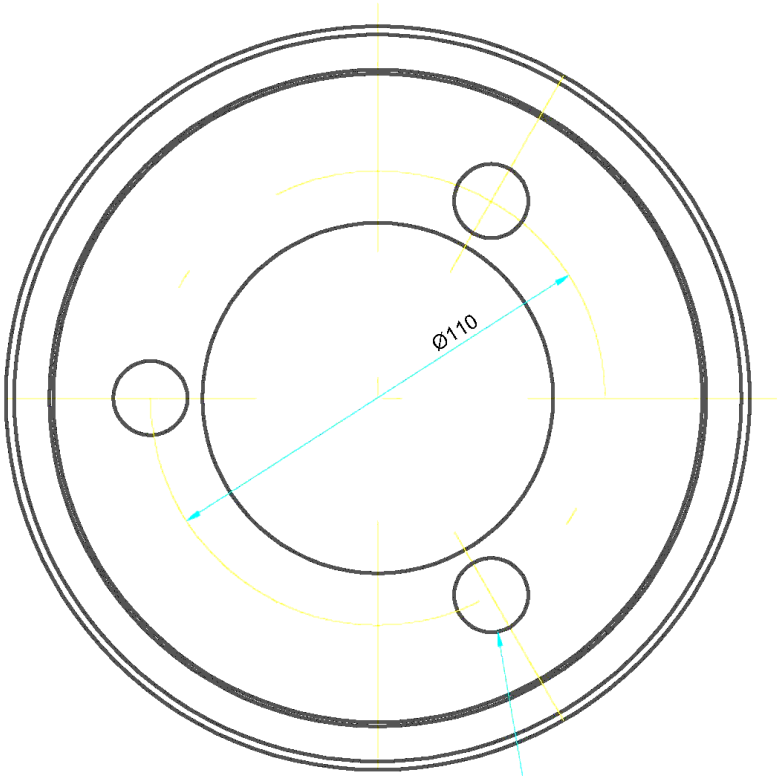

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Toleranțe gen. ISO 2678:mk, SR EN 22768/1-2	Proiectat: ing. T. Arhire Desenat: ing. P. Baraga Verificat: dr. ing. I. Cucos Aprobat: dr. ing. I. Cucos	S 355 J2 SR EN 10025/2/2019 Masa: 1,460 kg	Proiect tehnologic INOCEM 616.15-02.00.11.0	F
	S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic PETAL S.A. INCDIE ICPE- CA IPCUP	1 : 1 Data: sept-nov. 2022	Capac Mecanism motor ansamblu	

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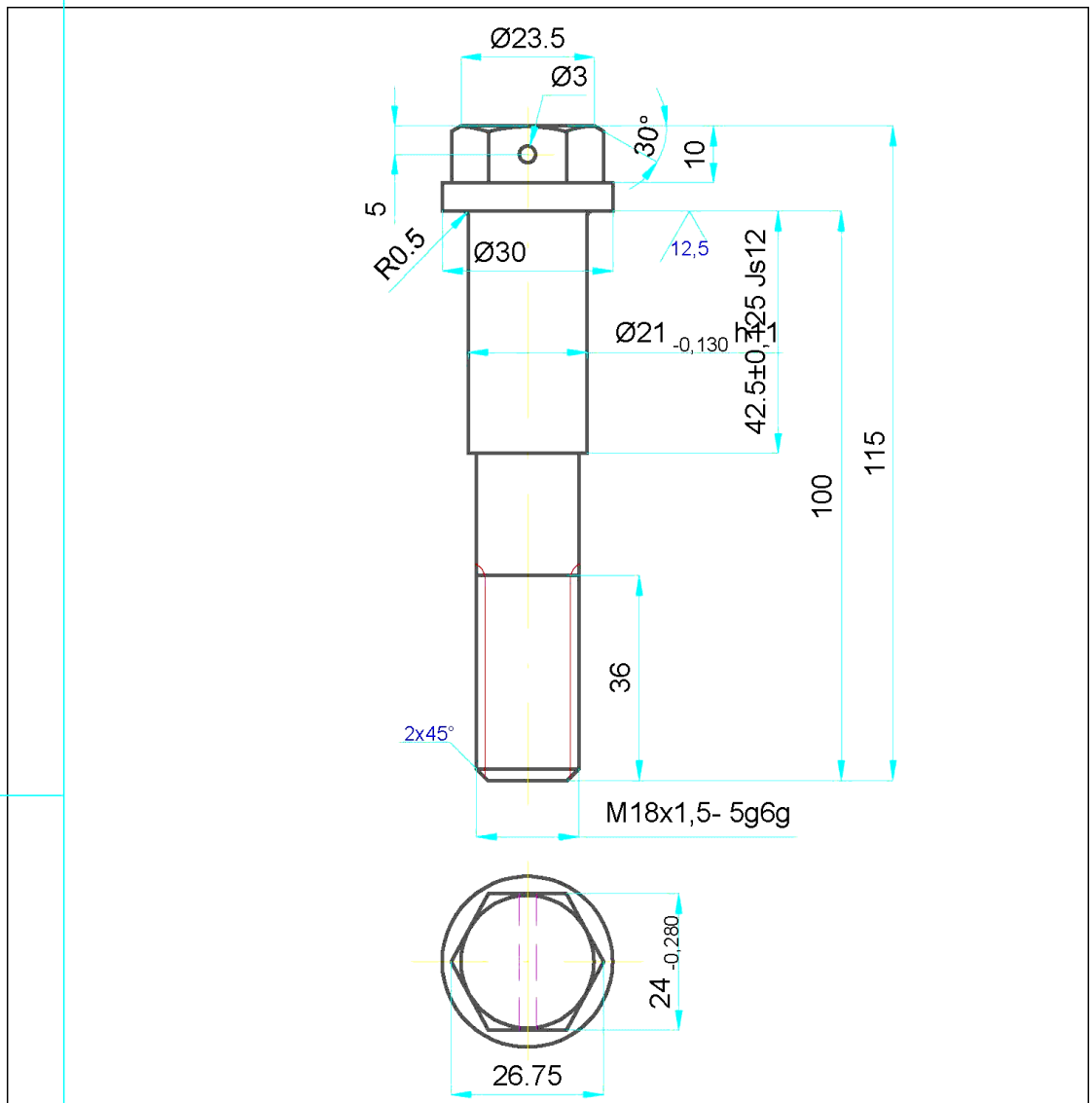

CONDITII TEHNICE

- Imbunatatit la duritatea 280.....320 HB.
- Protectie; AE/OL/CdFL- SR EN ISO 2082:2018

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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	42CrMo4 SR EN 10250/3/2002 Masa: 0,269 kg	Proiect tehnologic — PETAL S.A. Huși — F INOCEM 616.15-02.24.08.0
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — IPCUP	1 : 1 Data: *sept-nov.2022*	Surub M18x1,5 Mecanism motor ansamblu

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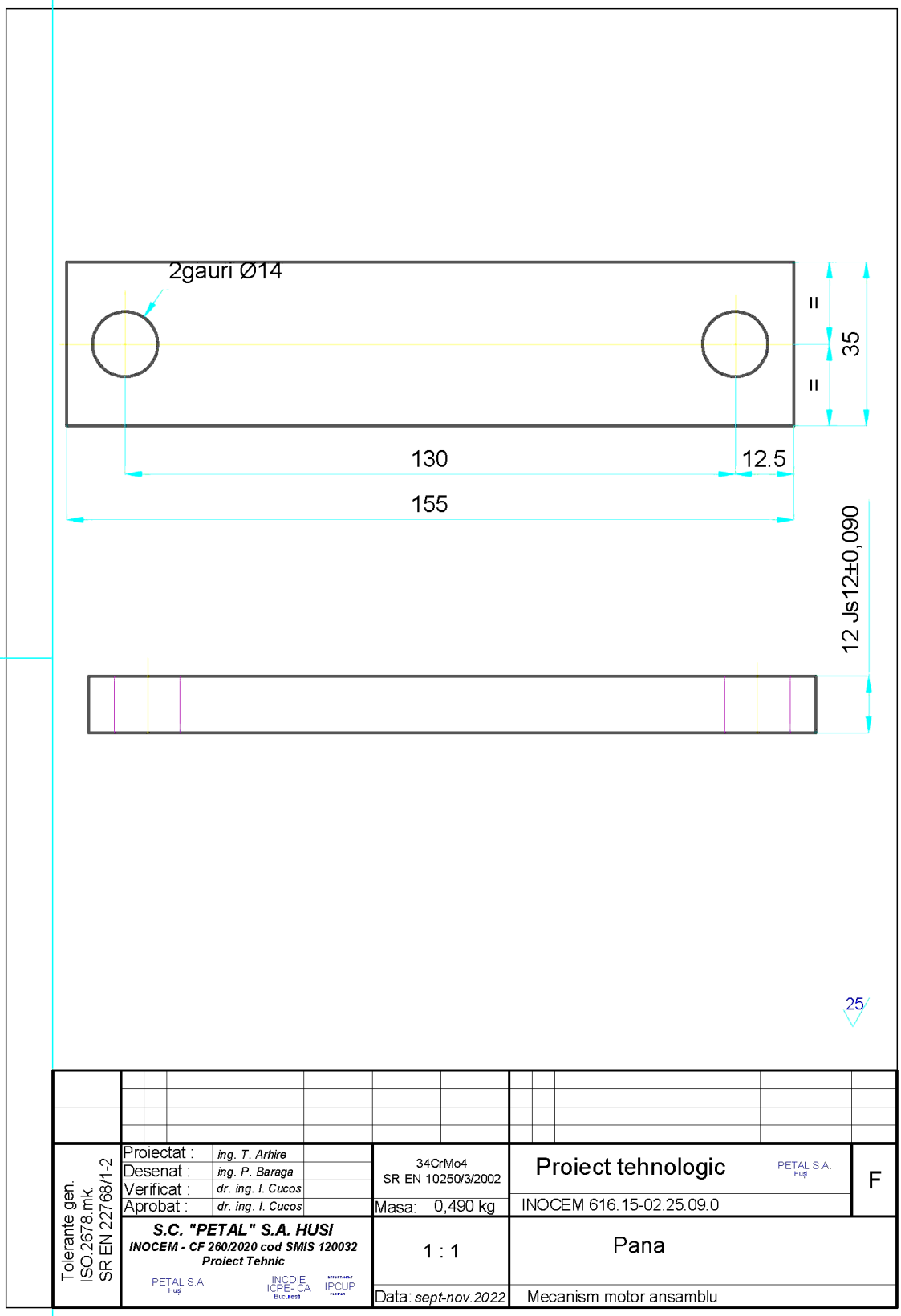

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	34CrMo4 SR EN 10250/3/2002 Masa: 0,490 kg	Proiect tehnologic — PETAL S.A. Huși — F INOCEM 616.15-02.25.09.0
	S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic PETAL S.A. Huși — INCDIE ICPE- CA București — IPCUP	1 : 1 Data: sept-nov.2022	Pana Mecanism motor ansamblu

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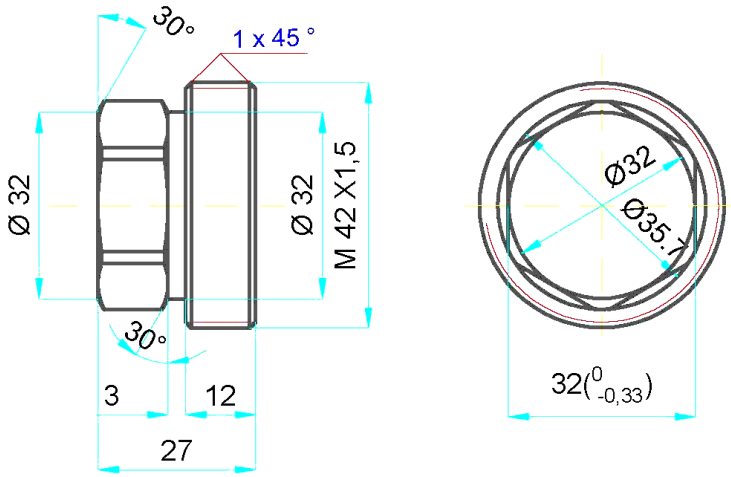

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Toleranțe gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	C45E SR EN 10250/2/2002 Masa: 0,215 kg	Proiect tehnologic PETAL S.A. Huși	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — IPCUP	1 : 1 Data: *sept-nov.2022*	INOCEM 616.15-00.00.07.0 Dop filetat Mecanism motor ansamblu	

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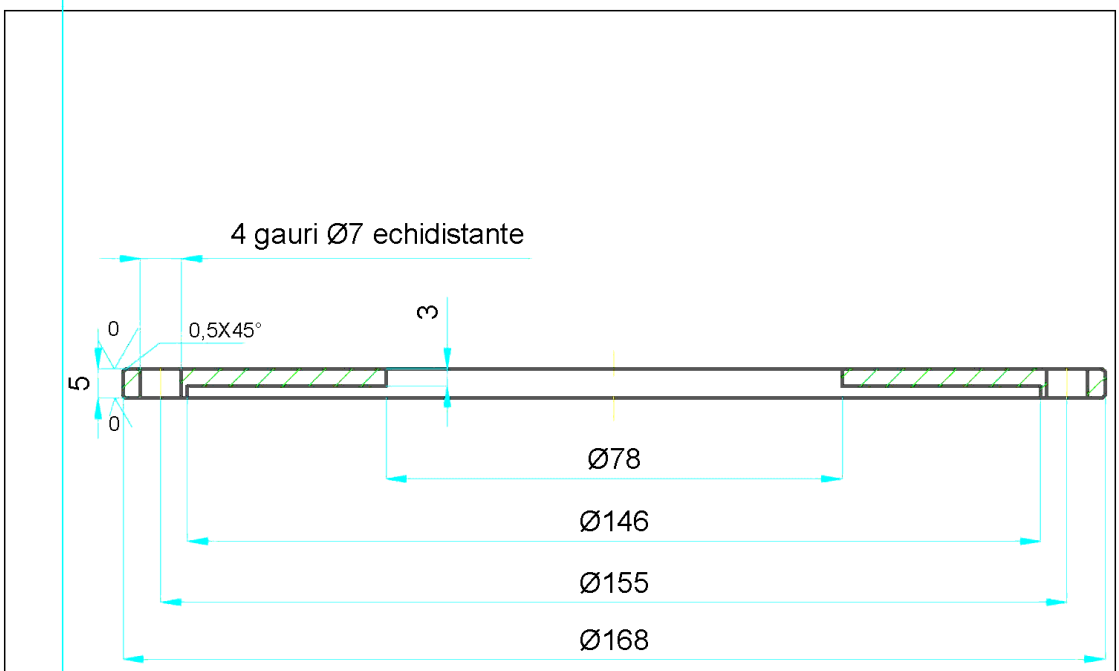

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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S 355 J2 SR EN 10025/2/2019 Masa: 0,520 kg	Proiect tehnologic — PETAL S.A. Huși INOCEM 616.15-02.00.31.0	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — IPCUP	1 : 1 Data: *sept-nov.2022*	Inel de fixare Mecanism motor ansamblu	

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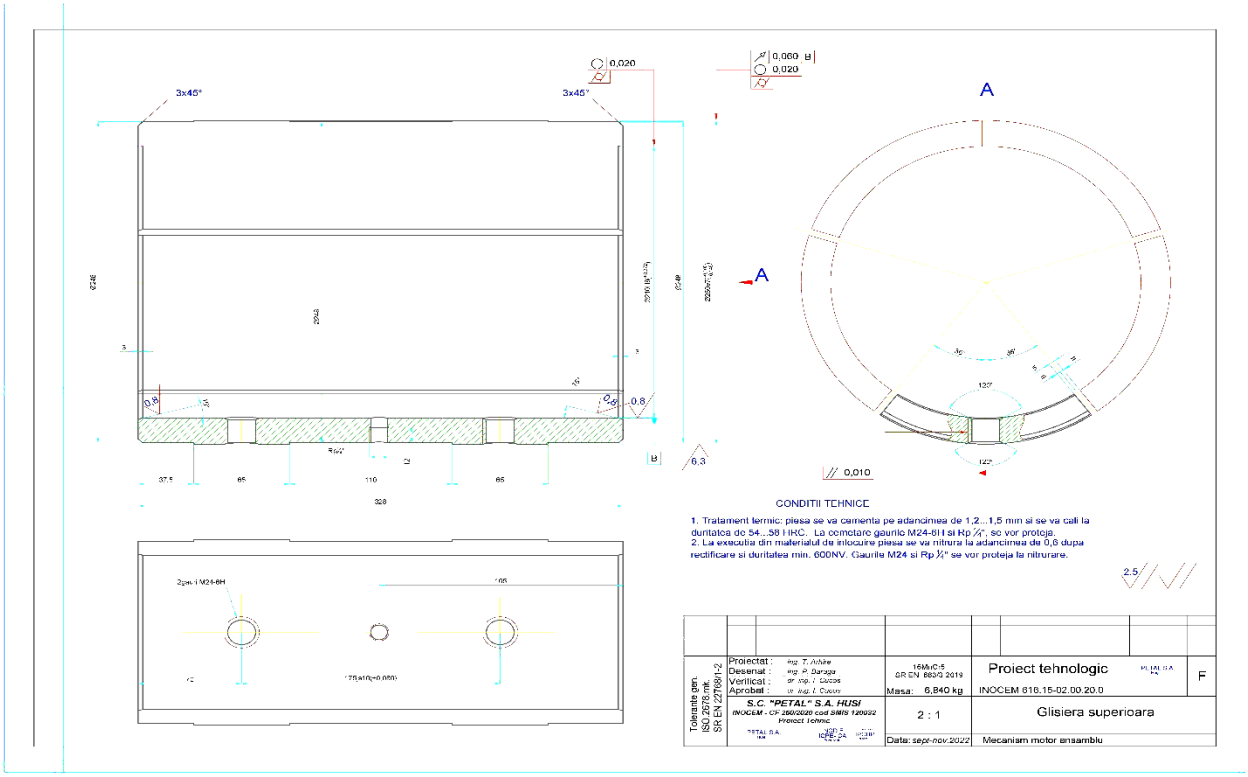

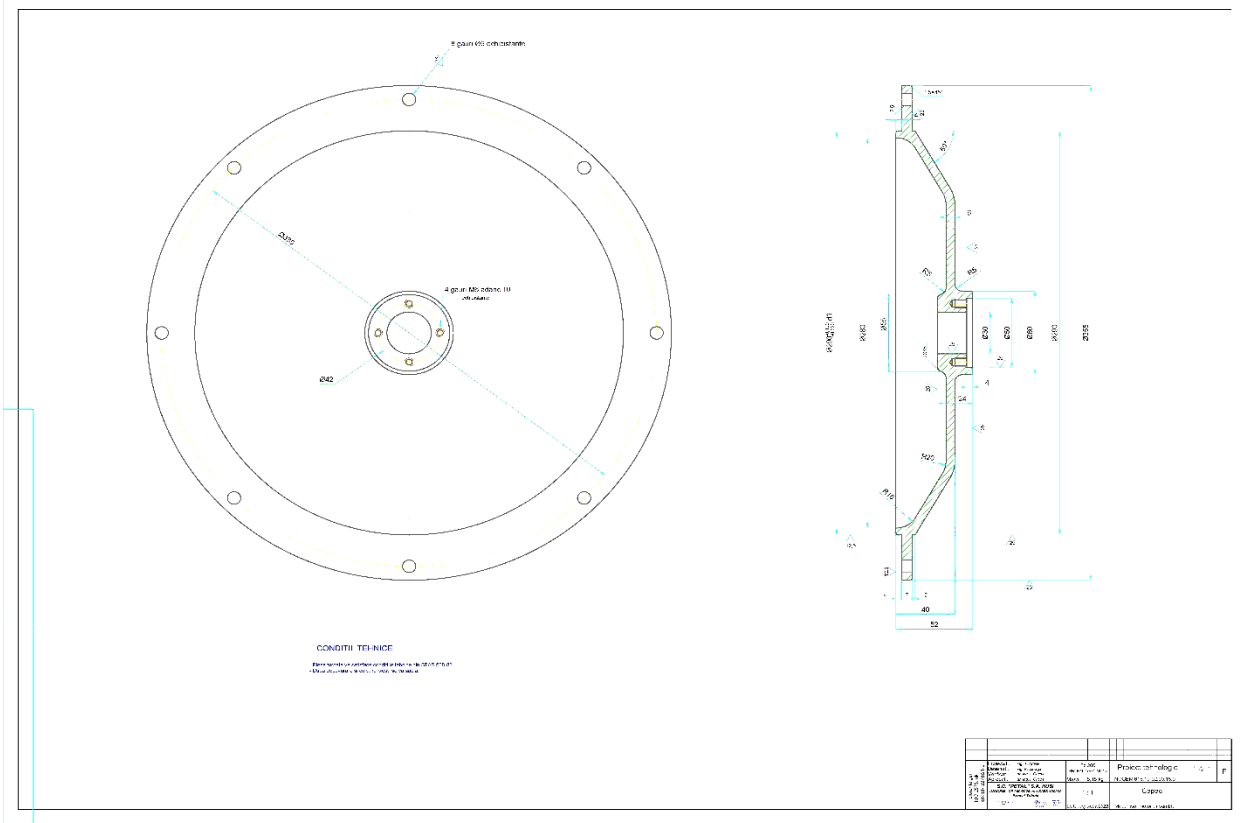

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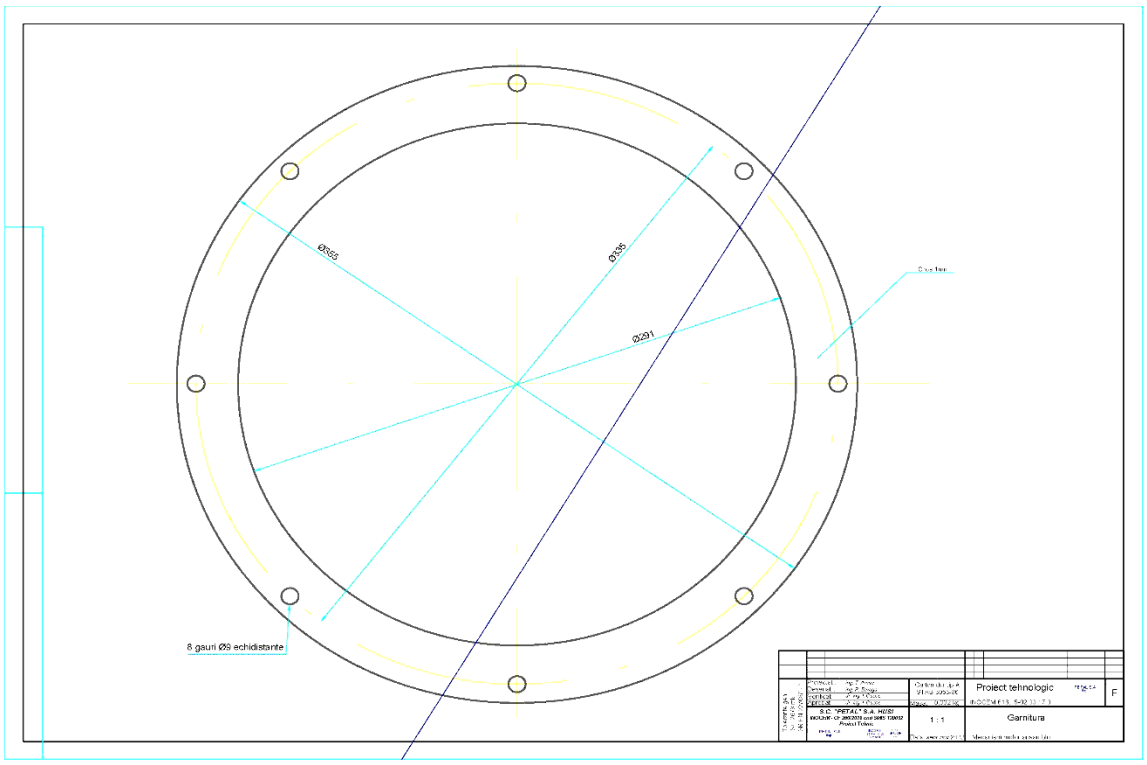

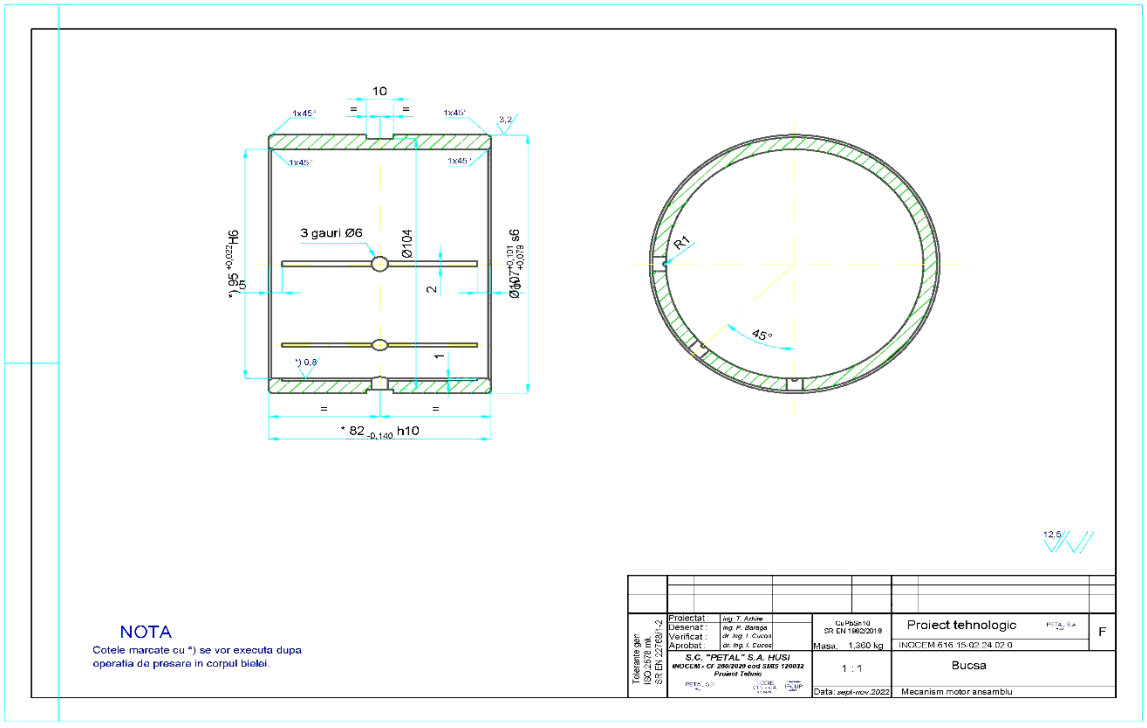

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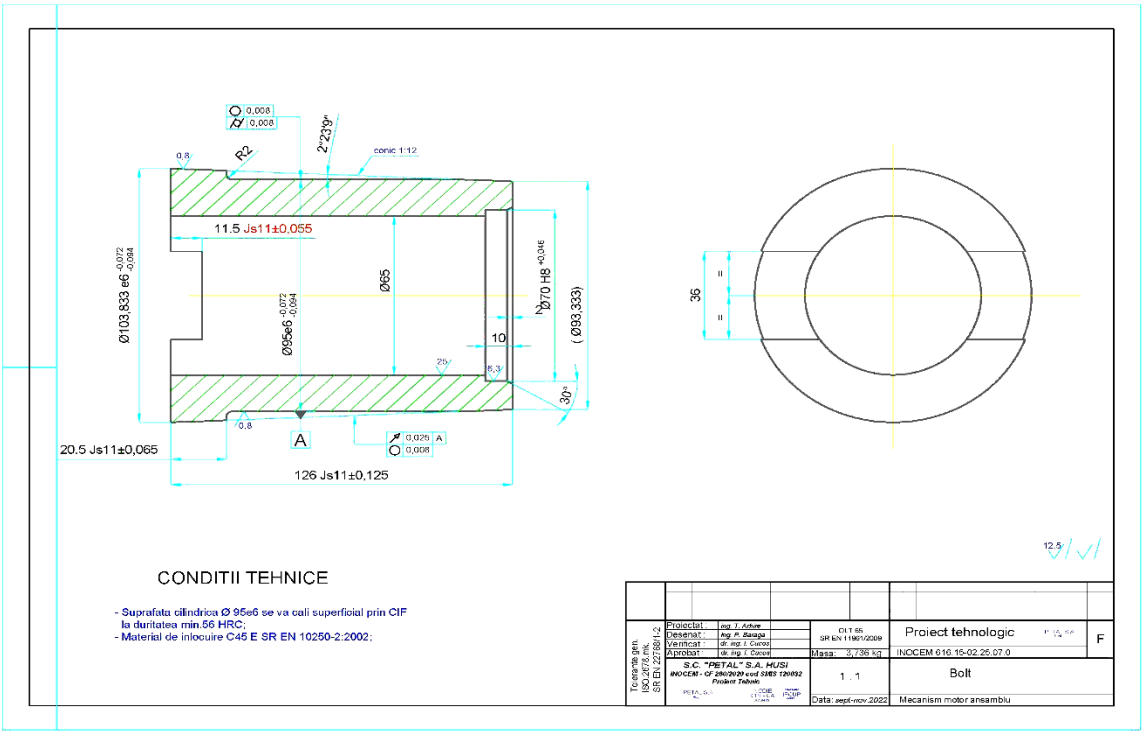

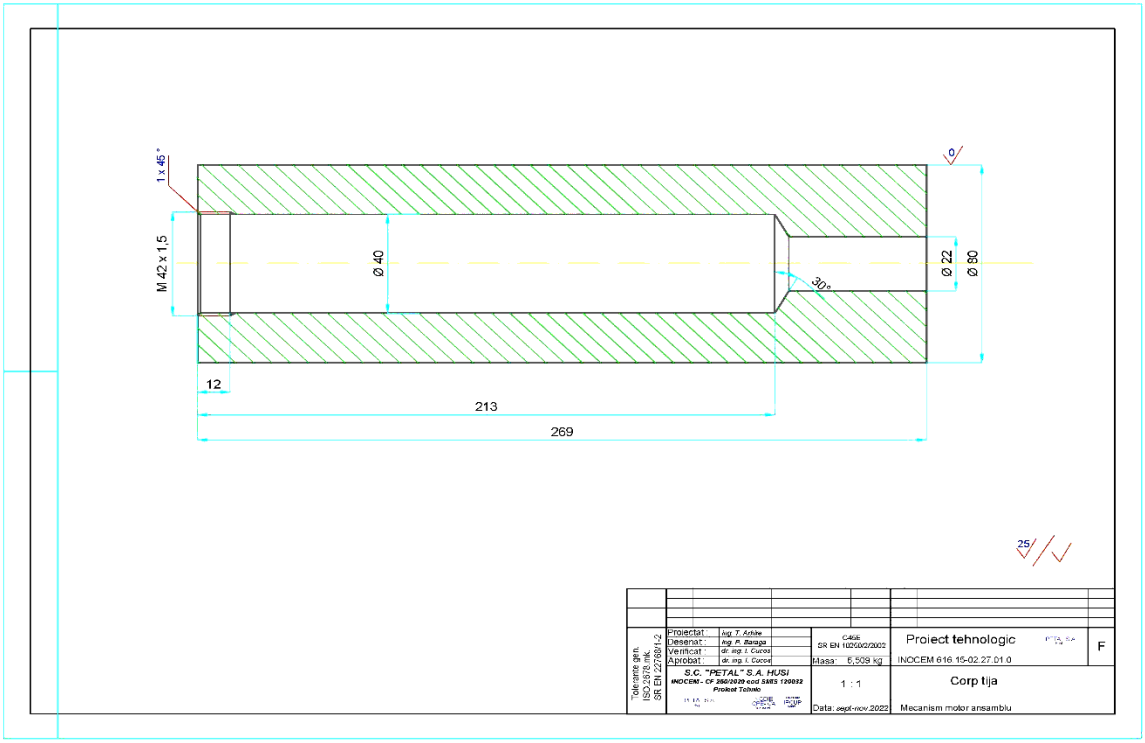

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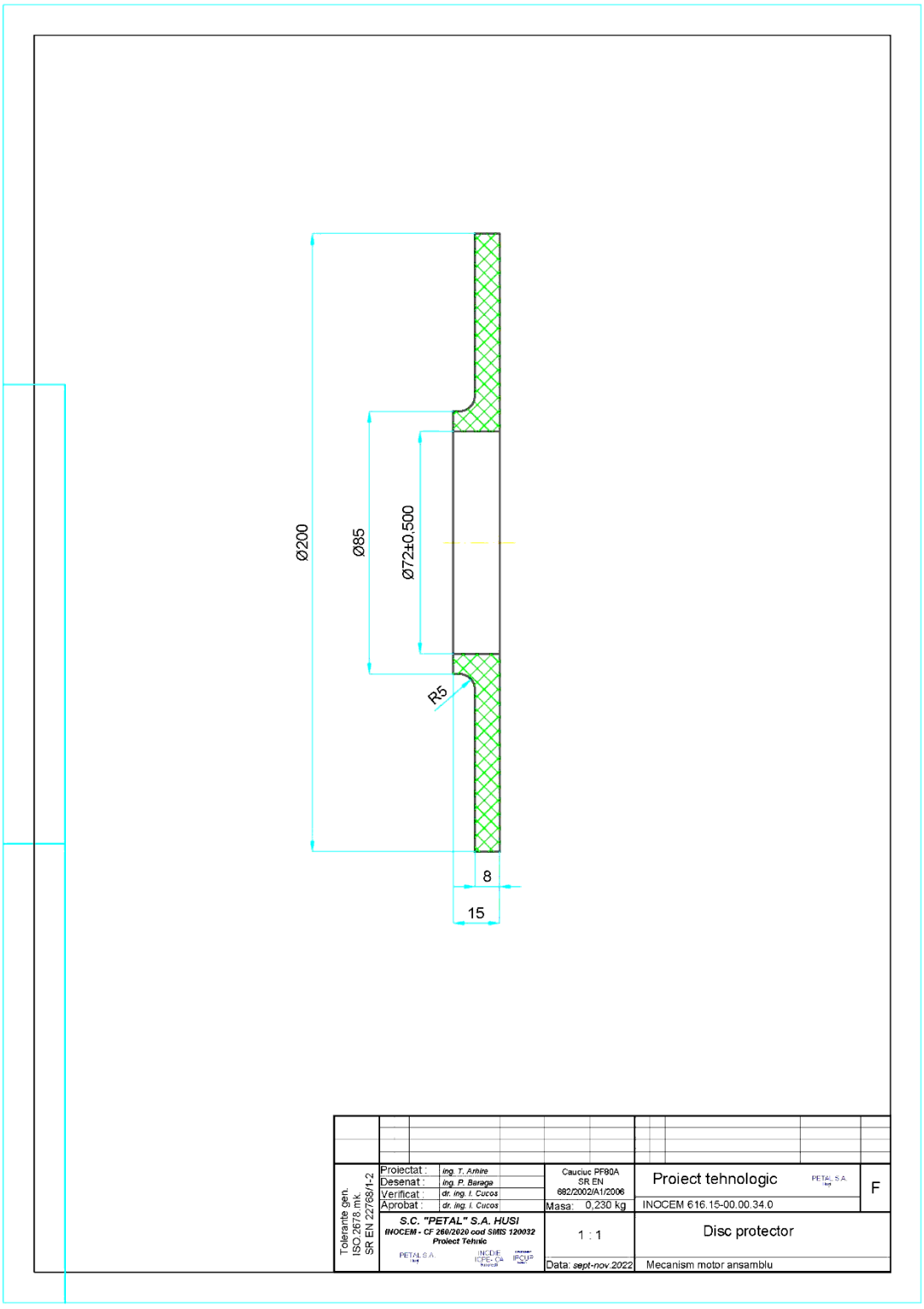

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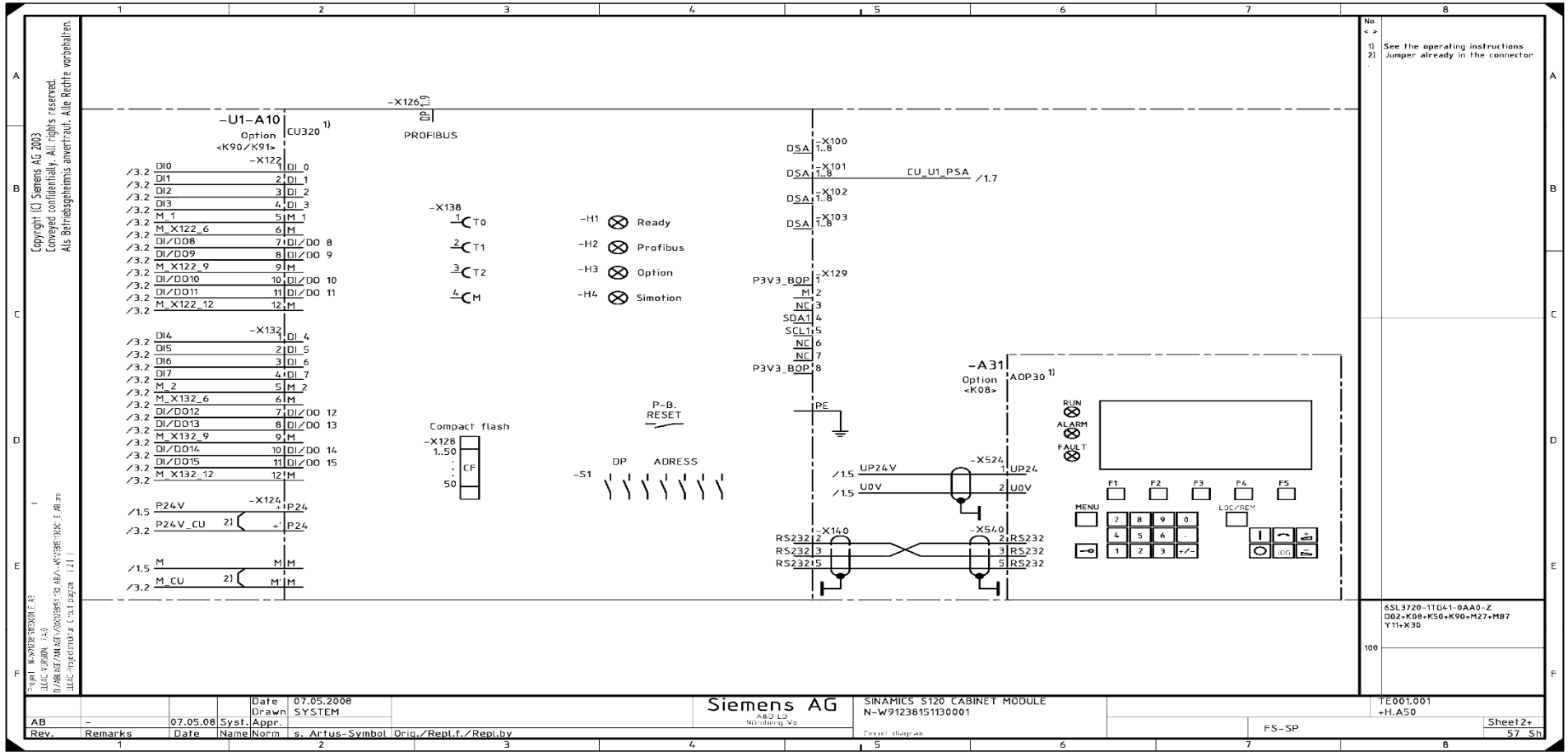

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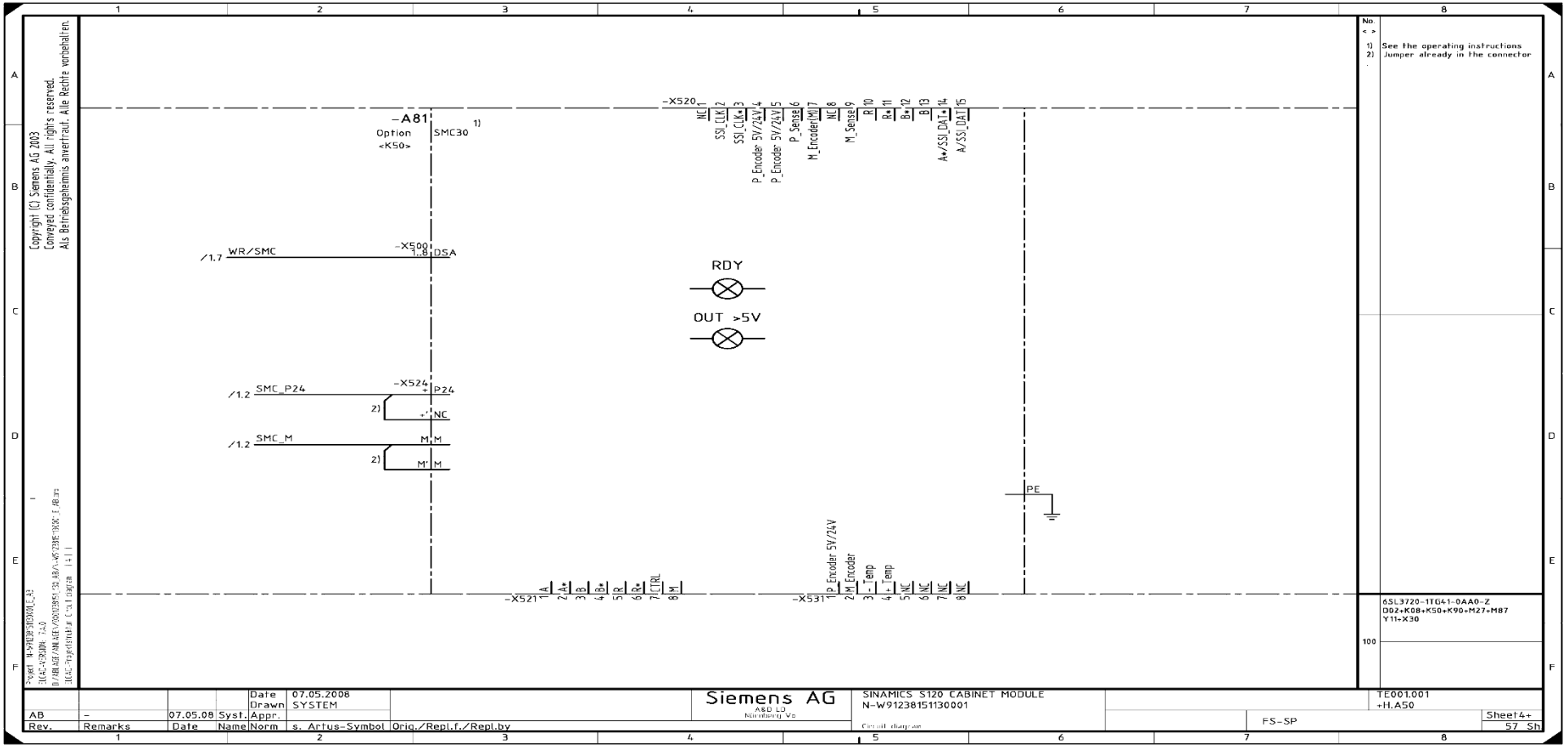

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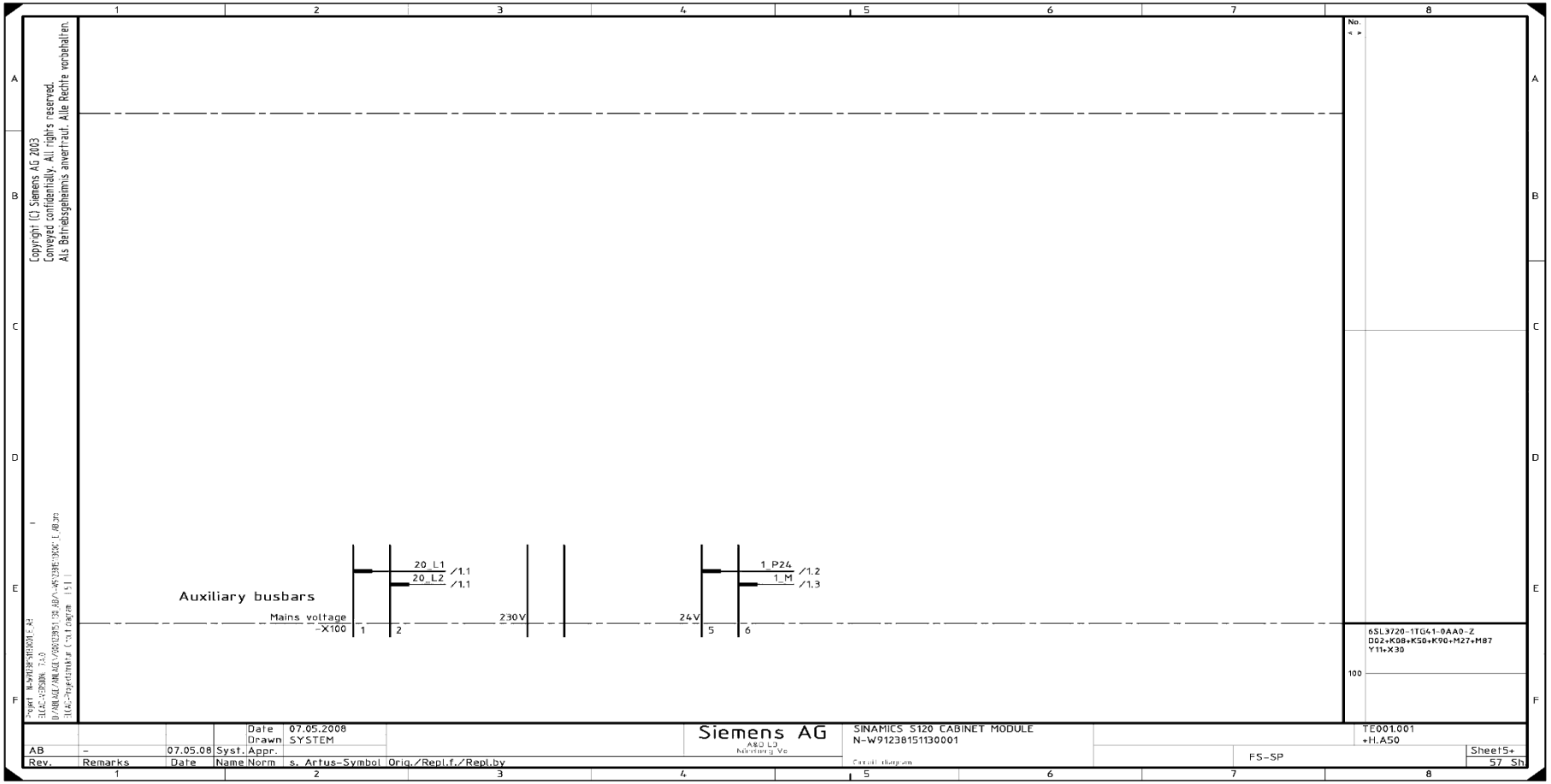

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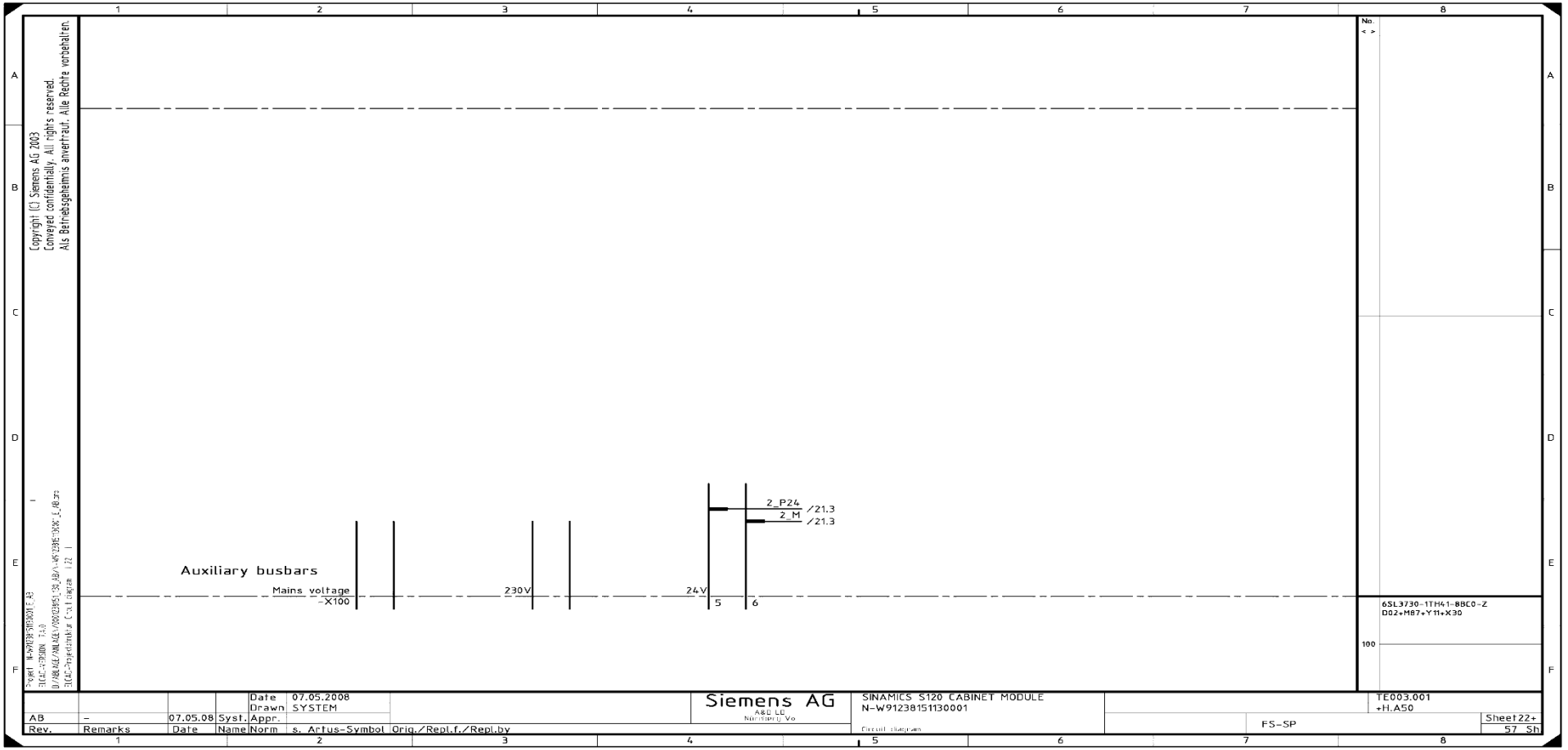

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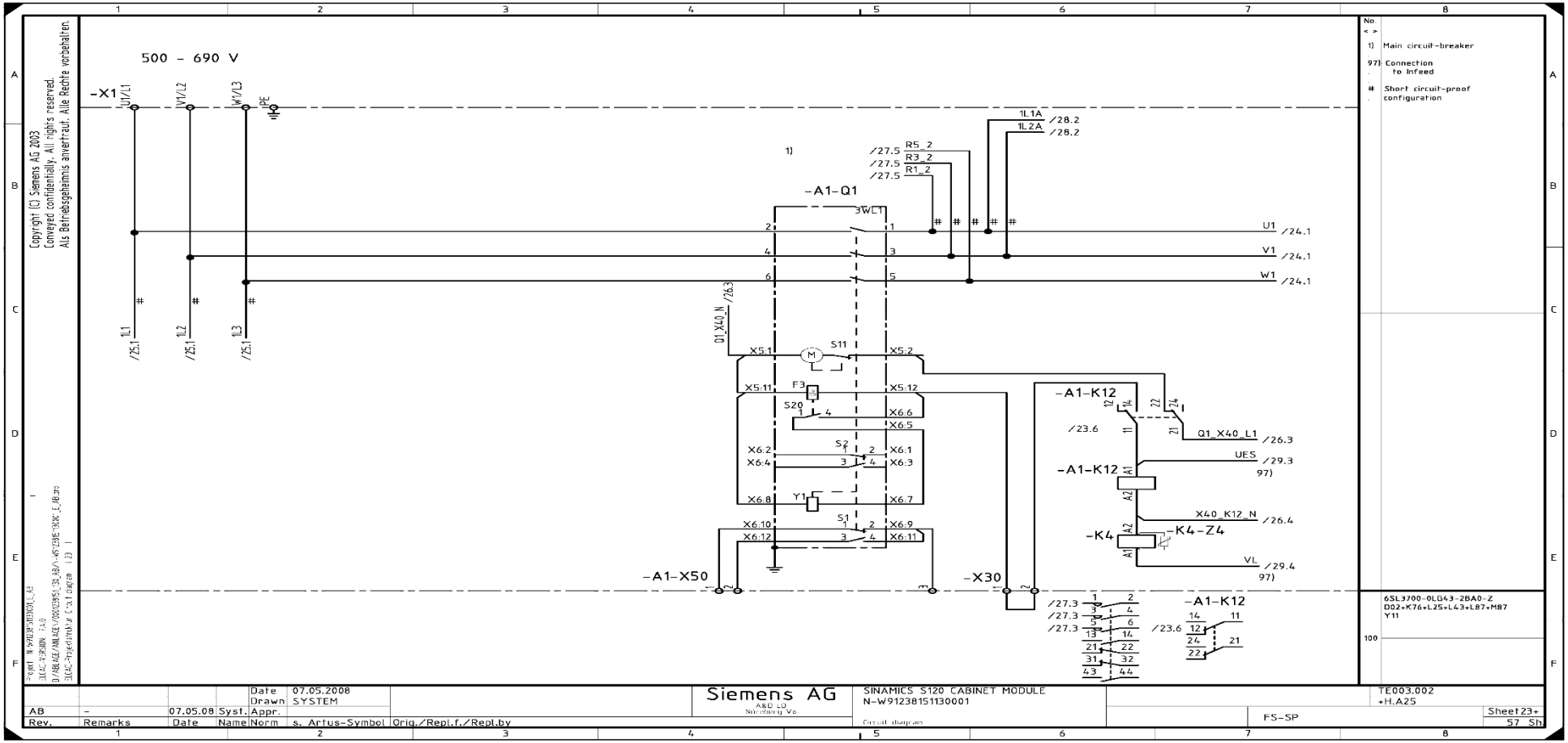

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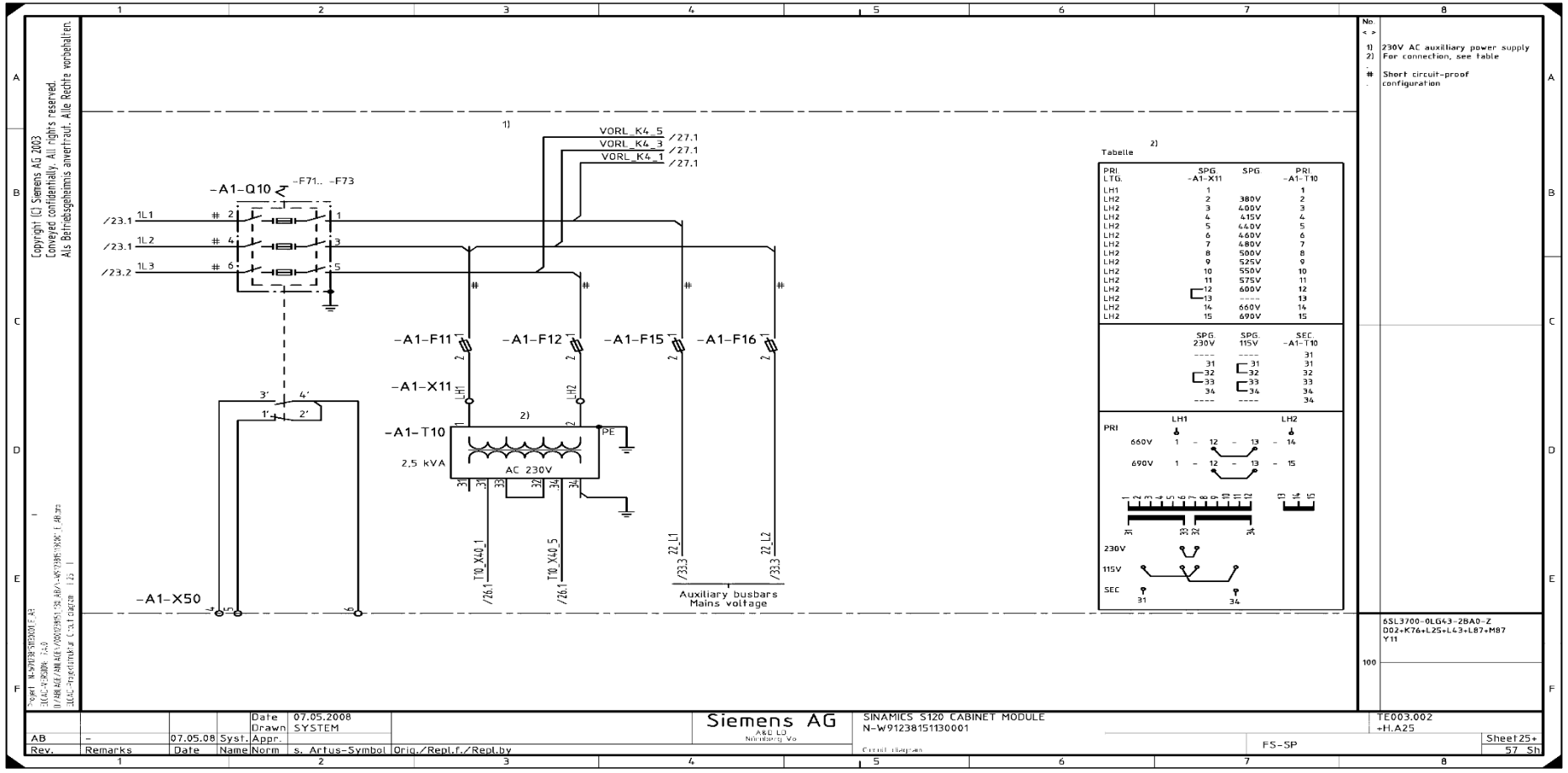

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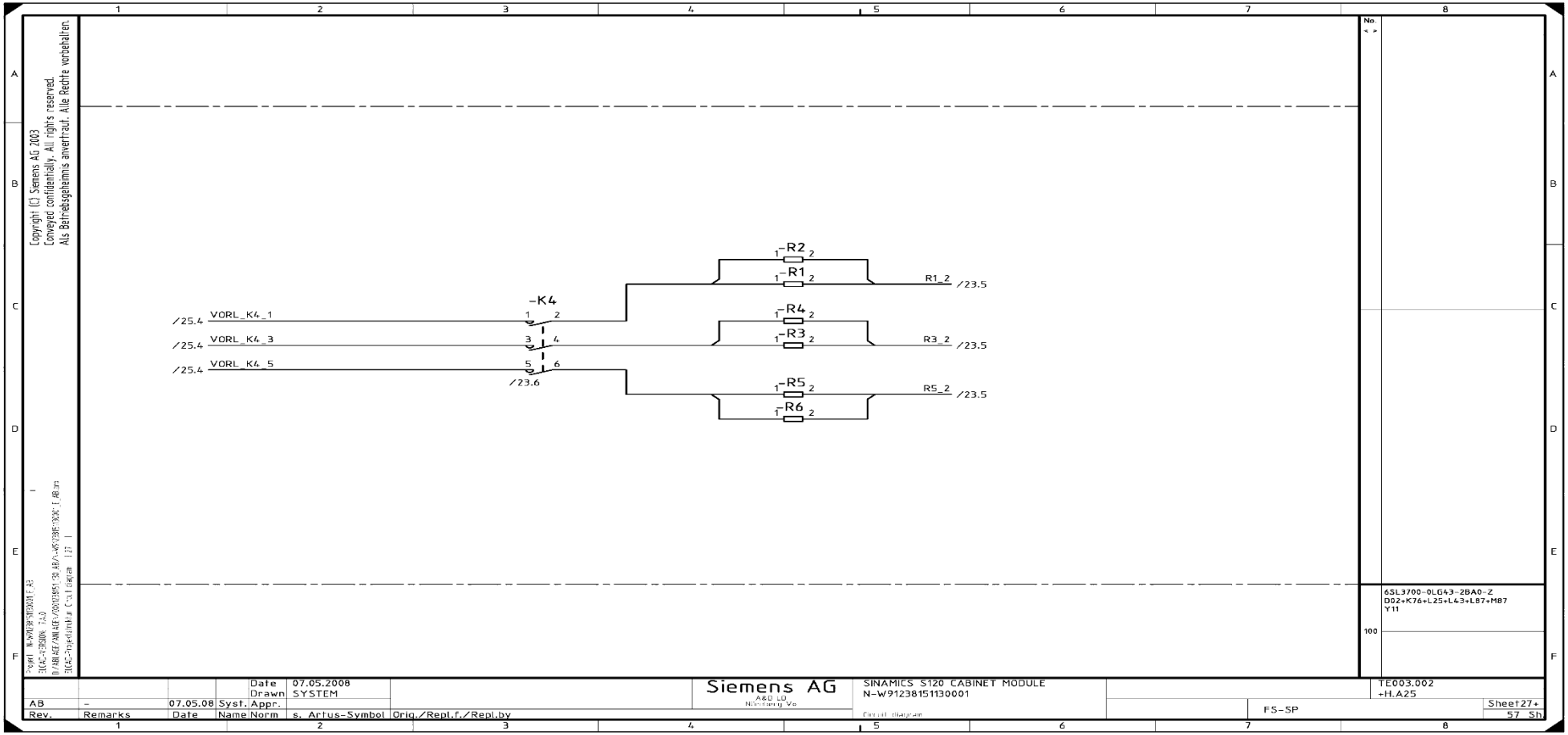

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PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
123	r302[0]	M	Motor code number of motor with DRIVE-CLiQ	0			2		
124	r303[0]	M	Motor status word from motor with DRIVE-CLiQ	0H			2		
125	p304[0]	M	Rated motor voltage	660	Vrms	Commissioning (P10=1,3)	1	0	20000
126	p305[0]	M	Rated motor current	905.00	Arms	Commissioning (P10=1,3)	1	0	10000
127	p307[0]	M	Rated motor power	750.00	kW	Commissioning (P10=1,3)	1	-100000	100000
128	p308[0]	M	Rated motor power factor	0.870		Commissioning (P10=1,3)	1	0	1
129	p310[0]	M	Rated motor frequency	50.00	Hz	Commissioning (P10=1,3)	1	0	3000
130	p311[0]	M	Rated motor speed	995.0	RPM	Commissioning (P10=1,3)	1	0	210000
131	r313[0]	M	Motor pole pair number, actual (or calculated)	3			2		
132	p314[0]	M	Motor pole pair number	0		Commissioning (P10=1,3)	2	0	127
133	p320[0]	M	Motor rated magnetization current/short-circuit current	294.769	Arms	Operation	3	0	5000
134	p322[0]	M	Maximum motor speed	0.0	RPM	Commissioning (P10=1,3)	2	0	210000
135	r330[0]	M	Rated motor slip	0.250	Hz		3		
136	r331[0]	M	Motor magnetizing current/short-circuit current actual	294.769	Arms		3		
137	r332[0]	M	Rated motor power factor	0.870			3		
138	r333[0]	M	Rated motor torque	7197.96	Nm		3		
139	p335[0]	M	Motor cooling type	[1] Forced cooling		Ready to run	1		
140	r336[0]	M	Rated motor frequency actual	50.00	Hz		3		
141	r337[0]	M	Rated motor EMF	576.29	Vrms		3		
142	r339[0]	M	Rated motor voltage	660.00	Vrms		3		
143	p340[0]	D	Automatic calculation of motor/control parameters	[0] No calculation		Ready to run	2		
144	p341[0]	M	Motor moment of inertia	40.245037	kgm²	Operation	3	0	100000

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145	p342[0]	M	Ratio between the total and motor moment of inertia	3.780		Operation	3	1	10000
146	p344[0]	M	Motor weight	5100.0	kg	Ready to run	3	0	50000
147	r345[0]	M	Nominal motor starting time	1.943	s		3		
148	p346[0]	M	Motor excitation build-up time	3.000	s	Operation	3	0	20
149	p347[0]	M	Motor de-excitation time	4.036	s	Operation	3	0	20
150	p349		System of units, motor equivalent circuit diagram data	[1] System of units, physical		Commissioning (P10,3)	1		
151	p350[0]	M	Motor stator resistance, cold	0.00765	Ohm	Operation	2	0	2000
152	p352[0]	M	Cable resistance	0.00203	Ohm	Operation	3	0	120
153	p353[0]	M	Motor series inductance	0.000	mH	Operation	2	0	1E+06
154	p354[0]	M	Motor rotor resistance cold / damping resistance d axis	0.00292	Ohm	Operation	3	0	300
155	p356[0]	M	Motor stator leakage inductance	0.16171	mH	Operation	3	0	1000
156	p358[0]	M	Motor rotor leakage inductance / damping inductance, d axis	0.16899	mH	Operation	3	0	1000
157	p360[0]	M	Motor magnetizing inductance/magn. inductance, d axis saturated	3.75462	mH	Operation	3	0	10000
158	p362[0]	M	Saturation characteristic flux 1	53.8	%	Operation	3	10	300
159	p363[0]	M	Saturation characteristic flux 2	86.9	%	Operation	3	10	300
160	p364[0]	M	Saturation characteristic flux 3	116.3	%	Operation	3	10	300
161	p365[0]	M	Saturation characteristic flux 4	131.8	%	Operation	3	10	300
162	p366[0]	M	Saturation characteristic I_mag 1	49.8	%	Operation	3	5	800
163	p367[0]	M	Saturation characteristic I_mag 2	83.4	%	Operation	3	5	800
164	p368[0]	M	Saturation characteristic I_mag 3	135.4	%	Operation	3	5	800
165	p369[0]	M	Saturation characteristic I_mag 4	215.5	%	Operation	3	5	800
166	p391[0]	M	Current controller adaptation, starting point KP	0.00	Arms	Operation	3	0	6000
167	p392[0]	M	Current controller adaptation, starting point KP adapted	0.00	Arms	Operation	3	0	6000
168	p393[0]	M	Current controller adaptation P gain scaling	100.00	%	Operation	3	0	1000
169	r395[0]	M	Stator resistance, actual	0.00967	Ohm		3		

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
191	p428[0]	E	Encoder SSI monoflop time	30	µs	Commissioning (P10,4)	3	0	65535
192	p429[0]	E	Encoder SSI configuration	0H		Commissioning (P10,4)	3		
193	p430[0]	E	Sensor Module configuration	E0080000H		Commissioning (P10,4)	3		
194	p431[0]	E	Angular commutation offset	0.00	°	Commissioning (P10,4)	3	-180	180
195	p432[0]	E	Gearbox factor, encoder revolutions	1		Commissioning (P10,4)	3	1	10000
196	p433[0]	E	Gearbox factor, motor/load revolutions	1		Commissioning (P10,4)	3	1	10000
197	p434[0]	E	Encoder SSI error bit	0		Commissioning (P10,4)	3	0	65535
198	p435[0]	E	Encoder SSI alarm bit	0		Commissioning (P10,4)	3	0	65535
199	p436[0]	E	Encoder SSI parity bit	0		Commissioning (P10,4)	3	0	65535
200	p440[0]	E	Copy encoder serial number	[0] No action		Commissioning (P10,4)	3		
201	p446[0]	E	Encoder SSI number of bits before the absolute value	0		Commissioning (P10,4)	3	0	65535
202	p447[0]	E	Encoder SSI number of bits absolute value	25		Commissioning (P10,4)	3	0	65535
203	p448[0]	E	Encoder SSI number of bits after the absolute value	0		Commissioning (P10,4)	3	0	65535
204	p449[0]	E	Encoder SSI number of bits, filler bits	1		Commissioning (P10,4)	3	0	65535
205	r451[0]		Commutation angle factor, Encoder 1	3			3		
206	r455[0]		Encoder configuration recognized, Encoder 1	100000H			3		
207	r456[0]		Encoder configuration supported, Encoder 1	70B20FH			3		
208	r458[0]		Sensor Module properties, Encoder 1	8710D24H			3		
209	r460[0]		Encoder serial number part 1, Encoder 1	0H			3		
210	r461[0]		Encoder serial number part 2, Encoder 1	0H			3		
211	r462[0]		Encoder serial number part 3, Encoder 1	0H			3		
212	r463[0]		Encoder serial number part 4, Encoder 1	0H			3		
213	r464[0]		Encoder serial number part 5, Encoder 1	0H			3		
214	r465[0]		Encoder 1 identification number/serial number				3		

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
215	r466[0]		Encoder 2 identification number/serial number				3		
216	r467[0]		Encoder 3 identification number/serial number				3		
217	r477[0]		CO: Measuring gearbox, position difference, Encoder 1	0			1		
218	r479[0]		CO: Diagnostics encoder position actual value Gn_XIST1, Encoder 1	0			3		
219	p480[0]		CI: Signal source for encoder control word Gn_STW, Encoder 1	0		Ready to run	3		
220	r481[0]		CO: Encoder status word Gn_ZSW, Encoder 1	4000H			3		
221	r482[0]		CO: Encoder actual position value Gn_XACT1, Encoder 1	0			3		
222	r483[0]		CO: Encoder actual position value Gn_XACT2, Encoder 1	0			3		
223	r484[0]		CO: Redundant coarse encoder position + CRC Gn_XIST1, Encoder 1	0H			3		
224	r485[0]		CO: Measuring gearbox, encoder raw value incremental, Encoder 1	0			1		
225	r486[0]		CO: Measuring gearbox, encoder raw value absolute, Encoder 1	0			1		
226	r487[0]		Diagnostic encoder control word Gn_STW, Encoder 1	0H			3		
227	p488[0]		Measuring probe 1 input terminal, Encoder 1	[0] No meas probe		Operation	3		
228	p489[0]		Measuring probe 2 input terminal, Encoder 1	[0] No meas probe		Operation	3		
229	p491		Motor encoder fault response ENCODER	[0] Encoder fault results in OFF2		Ready to run	3		
230	p492		Square-wave encoder, maximum speed difference per sampling cycle	23.2	RPM	Operation	3	0	210000
231	p495[0]		Equivalent zero mark, input terminal, Encoder 1	[0] No equivalent zero mark (evaluation of the encoder zero mark)		Operation	3		
232	p500		Technology application	[0] Standard drive (VECTOR)		Ready to run	2		
233	p505		Selecting the system of units	[1] System of units SI		Commissioning (P10,5)	1		
234	p570		Inhibit list: Number of effective values	0		Operation	2	0	50
235	p571[0]		Inhibit list, motor/closed-loop control parameter calculation	[0] No parameter		Operation	2		
236	p572[0]	D	Activate inhibit list	[0] No		Operation	2		
237	p573		Inhibit automatic reference value calculation	[1] Yes		Operation	2		
238	p578[0]	D	Calculate parameters that are dependent on the technology/units	[0] No calculation		Ready to run	2		

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239	p600[0]	M	Motor temperature sensor for monitoring	[0] No sensor		Operation	2		
240	p601[0]	M	Motor temperature sensor type	[2] KTY84		Operation	2		
241	p603		CI: Motor temperature signal source	0		Ready to run	2		
242	p604[0]	M	Motor overtemperature alarm threshold	130.0	°C	Operation	2	0	200
243	p605[0]	M	Motor overtemperature fault threshold	145.0	°C	Operation	2	0	200
244	p606[0]	M	Motor overtemperature timer	0.000	s	Operation	2	0	600
245	p607[0]	M	Temperature sensor fault timer	0.100	s	Operation	2	0	600
246	p610[0]	M	Motor overtemperature response	[1] Alarm with reduction of I_max and fault		Ready to run	2		
247	p616[0]	M	Motor overtemperature alarm threshold 1	130.0	°C	Operation	2	0	200
248	p620[0]	M	Thermal adaptation, stator and rotor resistance	[1] Resistances adapted to the temperatures of the thermal model		Operation	2		
249	p621[0]	M	Temperature identification after restart	[0] No temperature identification		Ready to run	2		
250	p622[0]	M	Motor excitation time for temp_ident after powering-up again	1.345	s	Operation	3	0	20
251	p625[0]	M	Motor ambient temperature	20	°C	Operation	3	-40	80
252	p626[0]	M	Motor overtemperature, stator core	50	K	Operation	3	20	200
253	p627[0]	M	Motor overtemperature, stator winding	80	K	Operation	3	20	200
254	p628[0]	M	Rotor winding overtemperature	100	K	Operation	3	20	200
255	p640[0]	D	Current limit	1357.50	Arms	Operation	2	0	10000
256	p643[0]	M	Overvoltage protection for synchronous motors	[0] No measure		Commissioning (P10,3)	3		
257	p650[0]	M	Actual motor operating hours	0	h	Ready to run	3	0	4294967295
258	p651[0]	M	Motor operating hours maintenance interval	0	h	Ready to run	3	0	99999
259	p700[0]	C	Macro Binector Input (BI)	0		Ready to run	1	0	999999
260	p806		BI: Inhibit master control	0		Ready to run	3		
261	r807		BO: Master control active	0H			2		
262	p809[0]		Copy Command Data Set CDS, Source Command Data Set	0		Ready to run	2	0	15
263	p810		BI: Command Data Set selection CDS bit 0	Input_output_component_1 : r4022.2		Ready to run	3		
264	p811		BI: Command data set selection CDS bit 1	0		Ready to run	3		
265	p819[0]		Copy Drive Data Set DDS, Source drive data set	0		Commissioning (P10,15)	2	0	31
266	p820[0]	C	BI: Drive data set selection DDS bit 0	0		Ready to run	3		

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	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
345	p1041[0]	C	BI: Motorized potentiometer manual/automatic	0		Ready to run	3		
346	p1042[0]	C	CI: Motorized potentiometer automatic setpoint	0		Ready to run	3		
347	p1043[0]	C	BI: Motorized potentiometer accept setpoint	0		Ready to run	3		
348	p1044[0]	C	CI: Motorized potentiometer setting value	0		Ready to run	3		
349	r1045		CO: Mot. potentiometer speed setp. in front of ramp-fct. gen.	0.000	RPM		3		
350	p1047[0]	D	Motorized potentiometer ramp-up time	10.000	s	Operation	2	0	1000
351	p1048[0]	D	Motorized potentiometer ramp-down time	10.000	s	Operation	2	0	1000
352	r1050		CO: Motor. potentiometer setpoint after the ramp-function generator	0.000	RPM		3		
353	p1055[0]	C	BI: Jog bit 0	0		Ready to run	3		
354	p1056[0]	C	BI: Jog bit 1	0		Ready to run	3		
355	p1058[0]	D	Jog 1 speed setpoint	0.000	RPM	Ready to run	2	-210000	210000
356	p1059[0]	D	Jog 2 speed setpoint	0.000	RPM	Ready to run	2	-210000	210000
357	p1063[0]	D	Speed limit setpoint channel	210000.000	RPM	Operation	1	0	210000
358	p1070[0]	C	CI: Main setpoint	Input_output_component_1 : r4055[0]		Ready to run	3		
359	p1071[0]	C	CI: Main setpoint scaling	100%		Ready to run	3		
360	r1073		CO: Main setpoint effective	0.000	RPM		3		
361	p1075[0]	C	CI: Suppl setpoint	VECTOR_02 : r1050		Ready to run	3		
362	p1076[0]	C	CI: Supplementary setpoint scaling	100%		Ready to run	3		
363	r1077		CO: Supplementary setpoint effective	0.000	RPM		3		
364	r1078		CO: Total setpoint effective	0.000	RPM		3		
365	p1080[0]	D	Minimum speed	0.000	RPM	Ready to run	1	0	19500
366	p1082[0]	D	Maximum speed	1000.000	RPM	Ready to run	1	0	210000
367	p1083[0]	D	CO: Speed limit in positive direction of rotation	210000.000	RPM	Operation	2	0	210000
368	r1084		Speed limit positive effective	1000.000	RPM		3		

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369	p1085[0]	C	CI: Speed limit in positive direction of rotation	VECTOR_02 : p1083		Ready to run	3		
370	p1086[0]	D	CO: Speed limit negative direction of rotation	-210000.000	RPM	Operation	2	-210000	0
371	r1087		Speed limit negative effective	-1000.000	RPM		3		
372	p1088[0]	C	CI: Speed limit negative direction of rotation	VECTOR_02 : p1086		Ready to run	3		
373	p1091[0]	D	Skip speed 1	0.000	RPM	Operation	3	0	210000
374	p1092[0]	D	Skip speed 2	0.000	RPM	Operation	3	0	210000
375	p1093[0]	D	Skip speed 3	0.000	RPM	Operation	3	0	210000
376	p1094[0]	D	Skip speed 4	0.000	RPM	Operation	3	0	210000
377	p1101[0]	D	Skip speed bandwidth	0.000	RPM	Operation	3	0	210000
378	p1110[0]	C	BI: Inhibit negative direction	0		Ready to run	3		
379	p1111[0]	C	BI: Inhibit positive direction	0		Ready to run	3		
380	r1112		CO: Speed setpoint after minimum limiting	0.000	RPM		3		
381	p1113[0]	C	BI: Direction reversal	VECTOR_02 : r2090.11		Ready to run	3		
382	r1114		CO: Setpoint after the direction of rotation limit	0.000	RPM		3		
383	p1115		Ramp-function generator selection	[0] Single ramp-function generator		Ready to run	3		
384	r1119		CO: Ramp-function generator setpoint at the input	0.000	RPM		3		
385	p1120[0]	D	Ramp-function generator ramp-up time	5.000	s	Operation	1	0	999999
386	p1121[0]	D	Ramp-function generator ramp-down time	5.000	s	Operation	1	0	999999
387	p1122[0]	C	BI: Bypass ramp-function generator	0		Operation	3		
388	p1130[0]	D	Ramp-function generator initial rounding-off time	0.000	s	Operation	2	0	30
389	p1131[0]	D	Ramp-function generator final rounding-off time	0.000	s	Operation	2	0	30
390	p1134[0]	D	Ramp-function generator rounding-off type	[0] Cont. smoothing		Operation	2		
391	p1135[0]	D	OFF3 ramp-down time	3.000	s	Operation	2	0	600
392	p1136[0]	D	OFF3 initial rounding-off time	0.000	s	Operation	2	0	30
393	p1137[0]	D	OFF3 final rounding-off time	0.000	s	Operation	2	0	30
394	p1140[0]	C	BI: Enables the ramp-function generator	VECTOR_02 : r2090.4		Ready to run	3		

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395	p1141[0]	C	BI: Start ramp-function generator	VECTOR_02 : r2090.5		Ready to run	3		
396	p1142[0]	C	BI: Enable speed setpoint	VECTOR_02 : r2090.6		Ready to run	3		
397	p1143[0]	C	BI: Ramp-function generator, accept setting value	0		Ready to run	3		
398	p1144[0]	C	CI: Ramp-function generator setting value	0		Operation	3		
399	p1145[0]	D	Ramp-function generator tracking intensity.	1.1		Operation	3	0	50
400	p1148[0]	D	Ramp-function gen., tolerance for ramp-up and ramp-down active	19.80	RPM	Operation	3	0	1000
401	r1149		CO: Ramp-function generator, acceleration	0.00	1/s²		3		
402	r1150		CO: Ramp-function generator speed setpoint at the output	0.000	RPM		3		
403	p1151[0]	D	Ramp-function generator configuration	0H		Operation	2		
404	p1155[0]	C	CI: Speed controller speed setpoint 1	0		Ready to run	3		
405	p1160[0]	C	CI: Speed controller speed setpoint 2	0		Ready to run	3		
406	r1169		CO: Speed controller, speed setpoints 1 and 2	0.000	RPM		3		
407	r1170		CO: Speed controller, setpoint sum	0.000	RPM		3		
408	p1189[0]	D	Speed setpoint configuration	3H		Operation	2		
409	r1197		Fixed speed setpoint, actual number	0			3		
410	r1198		CO/BO: Control word setpoint channel	0H			3		
411	r1199		CO/BO: Ramp-function generator status word	0H			3		
412	p1200[0]	D	FlyRest oper mode	[0] Flying restart inactive		Operation	2		
413	p1203[0]	D	Flying restart search rate factor	100	%	Operation	3	10	400
414	p1208[0]		BI: AR modification infeed, Infeed fault	0		Operation	3		
415	p1210		Automatic restart, mode	[0] Disables automatic restart		Operation	2		
416	p1211		Automatic restart, start attempts	3		Operation	3	0	10
417	p1212		Automatic restart, delay time start attempts	1.0	s	Operation	3	0.1	600
418	p1213		Automatic restart, monitoring time line supply return	0.0	s	Operation	3	0	1999
419	r1214		CO/BO: Automatic restart, status	0H			3		
420	p1215		Motor holding brake configuration	[0] No motor holding brake being used		Operation	2		
421	p1216		Motor holding brake, opening time	100	ms	Operation	2	0	10000
422	p1217		Motor holding brake closing time	100	ms	Operation	2	0	10000

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PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
448	p1257[0]	D	Vdc_min controller speed threshold	50.0	RPM	Operation	3	0	210000
449	r1258		CO: Vdc controller output	0.0	Arms		3		
450	p1272		Simulation mode	[0] Off		Ready to run	3		
451	p1278		Brake control, diagnostics evaluation	[0] Brake control with diagnostics evaluation		Operation	2		
452	p1280[0]	D	Vdc controller or Vdc monitoring configuration (V/f)	[1] Enables Vdc_max controller		Operation	3		
453	r1282		Vdc_max controller switch-in level (V/f)	1116	V		3		
454	p1283[0]	D	Vdc_max controller dynamic factor (V/f)	200	%	Operation	3	1	10000
455	p1285[0]	D	Vdc_min controller switch-in level (kinetic buffering) (V/f)	76	%	Operation	3	65	150
456	r1286		Vdc_min controller switch-in level (kinetic buffering) (V/f)	703	V		3		
457	p1287[0]	D	Vdc_min controller dynamic factor (kinetic buffering) (V/f)	200	%	Operation	3	1	10000
458	p1289[0]	D	Vdc_max controller speed threshold (V/f)	7.0	RPM	Operation	3	0	210000
459	p1290[0]	D	Vdc controller proportional gain (V/f)	16.64		Operation	3	0	100
460	p1291[0]	D	Vdc controller integral time (V/f)	40	ms	Operation	3	0	10000
461	p1292[0]	D	Vdc controller rate time (V/f)	166	ms	Operation	3	0	1000
462	p1293[0]	D	Vdc controller output limit (V/f)	1.3	Hz	Operation	3	0	600
463	p1294		Vdc_max controller automatic detection ON signal level (V/f)	[1] Automatic detection enabled		Operation	3		
464	p1295[0]	D	Vdc_min controller time threshold (V/f)	0.000	s	Operation	3	0	10000
465	p1296[0]	D	Vdc_min controller response (kinetic buffering) (V/f	[0] Buffer Vdc until undervoltage, n<p1297 -> F07405		Operation	3		
466	p1297[0]	D	Vdc_min controller speed threshold (V/f)	50.0	RPM	Operation	3	0	210000
467	r1298		CO: Vdc controller output (V/f)	0.0	RPM		3		
468	p1300[0]	D	Open-loop/closed-loop control operating mode	[20] Speed control (sensorless)		Ready to run	2		
469	p1310[0]	D	Voltage boost permanent	50.0	%	Operation	2	0	250
470	p1311[0]	D	Voltage boost at acceleration	0.0	%	Operation	2	0	250
471	p1320[0]	D	V/f control programmable characteristic frequency 1	0.00	Hz	Operation	3	0	3000
472	p1321[0]	D	V/f control programmable characteristic voltage 1	0.0	Vrms	Operation	3	0	10000

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
602	p1658[0]	D	Current setpoint filter 1 denominator natural frequency	1999.0	Hz	Operation	3	0.5	16000
603	p1659[0]	D	Current setpoint filter 1 denominator damping	0.700		Operation	3	0.001	10
604	p1660[0]	D	Current setpoint filter 1 numerator natural frequency	1999.0	Hz	Operation	3	0.5	16000
605	p1661[0]	D	Current setpoint filter 1 numerator damping	0.700		Operation	3	0	10
606	p1662[0]	D	Current setpoint filter 2 type	[1] Low pass: PT2		Operation	3		
607	p1663[0]	D	Current setpoint filter 2 denominator natural frequency	1999.0	Hz	Operation	3	0.5	16000
608	p1664[0]	D	Current setpoint filter 2 denominator damping	0.700		Operation	3	0.001	10
609	p1665[0]	D	Current setpoint filter 2 numerator natural frequency	1999.0	Hz	Operation	3	0.5	16000
610	p1666[0]	D	Current setpoint filter 2 numerator damping	0.700		Operation	3	0	10
611	p1699		Filter data acceptance	0		Operation	3	0	1
612	p1715[0]	D	Current controller P gain	0.240		Operation	3	0	100000
613	p1717[0]	D	Current controller integral-action time	6.40	ms	Operation	3	0	1000
614	r1728		De-coupling voltage, in-line axis	0	Vrms		3		
615	r1729		De-coupling voltage, quadrature axis	0	Vrms		3		
616	r1732		CO: Direct-axis voltage setpoint	0.0	Vrms		3		
617	r1733		CO: Quadrature-axis voltage setpoint	0.0	Vrms		3		
618	p1740[0]	D	Gain resonance damping for sensorless closed loop control	0.025		Operation	3	0	10
619	p1744[0]	D	Motor model speed threshold stall detection	40.00	RPM	Operation	3	0	210000
620	p1745[0]	D	Motor model error threshold stall detection	60.0	%	Operation	3	0	1000
621	p1750[0]	D	Motor model configuration	0H		Operation	3		
622	r1751		Motor model status	E00DH			3		
623	p1752[0]	D	Motor model changeover speed operation with encoder	200.0	RPM	Operation	3	0	210000
624	p1753[0]	D	Motor model changeover speed hysteresis operation with encoder	25.0	%	Operation	3	0	90
625	p1755[0]	D	Motor model changeover speed sensorless operation	66.7	RPM	Operation	3	0	210000

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PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
700	r2089[0]		CO: Send binector-connector converter status word, Status word 1	EB31H			3		
701	r2090		BO: IF1 PROFIBUS PZD1 receive bit-serial	406H			3		
702	r2091		BO: IF1 PROFIdrive PZD2 receive bit-serial	30D4H			3		
703	r2092		BO: IF1 PROFIdrive PZD3 receive bit-serial	0H			3		
704	r2093		BO: IF1 PROFIdrive PZD4 receive bit-serial	0H			3		
705	r2094		BO: Connector-binector converter binector output	0H			3		
706	r2095		BO: Connector-binector converter binector output	0H			3		
707	p2098[0]		Inverter connector-binector converter binector output	0H		Operation	3		
708	p2099[0]		CI: Connector-binector converter signal source	0		Operation	3		
709	p2100[0]		Setting the fault number for fault response	0		Operation	3	0	65535
710	p2101[0]		Setting the fault response	[0] NONE		Operation	3		
711	p2103[0]	C	BI: 1. Acknowledge faults	VECTOR_02 : r2090.7		Operation	3		
712	p2104[0]	C	BI: 2. Acknowledge faults	0		Operation	3		
713	p2105[0]	C	BI: 3. Acknowledge faults	0		Operation	3		
714	p2106[0]	C	BI: External fault 1	1		Operation	3		
715	p2107[0]	C	BI: External fault 2	1		Operation	3		
716	p2108[0]	C	BI: External fault 3	1		Operation	3		
717	r2109[0]		Fault time removed in milliseconds	0	ms		3		
718	r2110[0]		Alarm number	0			2		
719	p2111		Alarm counter	0		Operation	3	0	65535
720	p2112[0]	C	BI: External alarm 1	1		Operation	3		
721	p2116[0]	C	BI: External alarm 2	1		Operation	3		
722	p2117[0]	C	BI: External alarm 3	1		Operation	3		
723	p2118[0]		Sets the message number for message type.	0		Operation	3	0	65535
724	p2119[0]		Setting the message type	[1] Fault (F)		Operation	3		
725	r2121		Counter, alarm buffer changes	15			3		
726	r2122[0]		Alarm code	0			2		
727	r2123[0]		Alarm time received in milliseconds	0	ms		3		
728	r2124[0]		Alarm value	0			3		
729	r2125[0]		Alarm time removed in milliseconds	0	ms		3		
730	p2126[0]		Setting fault number for acknowledge mode	0		Operation	3	0	65535
731	p2127[0]		Sets acknowledgement mode	[1] Acknowledgement only using POWER ON		Operation	3		
732	p2128[0]		Selecting fault/alarm code for trigger	0		Operation	3	0	65535
733	r2129		CO/BO: Trigger word for faults and alarms	0H			3		
734	r2130[0]		Fault time received in days	0			3		

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
841	p3838[0]	D	Friction characteristic, value M8	0.00	Nm	Ready to run	2	-1E+06	1E+06
842	p3839[0]	D	Friction characteristic, value M9	0.00	Nm	Ready to run	2	-1E+06	1E+06
843	r3840		CO/BO: Friction characteristic, status word	101H			2		
844	r3841		CO: Friction characteristic output	0.00	Nm		2		
845	p3842		Friction characteristic activation	[0] Friction characteristic de-activated		Ready to run	2		
846	p3845		Friction characteristic record activation	[0] Friction characteristic record de-activated		Ready to run	2		
847	p3846[0]	D	Friction characteristic record ramp-up/ramp-down time	10.000	s	Ready to run	2	0	999999
848	p3847[0]	D	Friction characteristic record warm-up time	0.000	s	Ready to run	2	0	3600
849	p3900		Completion of quick commissioning	[0] No quick parameterization		Commissioning (P10=1)	1		
850	p3902[0]	P	Power unit EEPROM Vdc calibration	1018		Ready to run	3	0	4294967295
851	r3925[0]	D	Identification final display	DH			3		
852	r3927[0]	D	Motor data identification control word	60H			3		
853	r3928[0]	D	Rotating measurement configuration	1FH			3		
854	p3981		Faults, acknowledge drive object	0		Operation	2	0	1
855	p3985		Master control mode selection	[0] Change master control for STW1.0 = 0		Operation	3		
856	r3986		Parameter count	1456			3		
857	r3996		Parameter write inhibit status	0			1		
858	p4600[0]	E	Motor temperature sensor 1 sensor type	[0] No sensor available		Operation	2		
859	p4601[0]	E	Motor temperature sensor 2 sensor type	[0] No sensor available		Operation	2		
860	p4602[0]	E	Motor temperature sensor 3 sensor type	[0] No sensor available		Operation	2		
861	p4603[0]	E	Motor temperature sensor 4 sensor type	[0] No sensor available		Operation	2		
862	r4620[0]		Motor temperatures SME, SME temperature channel 1	-200	°C		3		
863	r8850[0]		CO: IF2 PZD receive word, PZD 1	0H			3		
864	p8851[0]		CI: IF2 PZD send word, PZD 1	0		Operation	3		
865	r8853[0]		IF2 diagnostics PZD send, PZD 1	0H			3		
866	r8860[0]		CO: IF2 PZD receive double word, PZD 1 + 2	0H			3		
867	p8861[0]		CI: IF2 PZD send double word, PZD 1 + 2	0		Operation	3		
868	r8863[0]		IF2 diagnostics PZD send double word, PZD 1 + 2	0H			3		

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	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
892	p9319		SI motion fine resolution G1_XIST1 (Motor Module)	11		Commissioning (P10,95)	3	2	18
893	p9320		SI motion spindle pitch (Motor Module)	10.0000	mm	Commissioning (P10,95)	3	0.1	8388
894	⊞ p9321[0]		SI motion gearbox encoder/load denominator (Motor Module), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
895	⊞ p9322[0]		SI motion gearbox encoder/load numerator (Motor Module), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
896	p9326		SI motion encoder assignment (Motor Module)	1		Commissioning (P10,95)	3	1	3
897	⊞ p9328[0]		SI Motion Sensor Module Node Identifier (Motor Module)	0H		Commissioning (P10,95)	3	0H	FFH
898	p9330		SI motion standstill tolerance (Motor Module)	1.000	mm	Commissioning (P10,95)	3	0	100
899	⊞ p9331[0]		SI motion SLS limit values (Motor Module), Limit value SLS1	2000.00	mm/min	Commissioning (P10,95)	3	0	1E+06
900	p9342		SI motion act val comparison tol (crosswise) (Motor Module)	0.1000	mm	Commissioning (P10,95)	3	0.001	360
901	p9346		SI motion SSM velocity limit (Motor Module)	20.00	mm/min	Commissioning (P10,95)	3	0	1E+06
902	p9348		SI motion SBR actual velocity tolerance (Motor Module)	300.00	mm/min	Commissioning (P10,95)	3	0	120000
903	p9349		SI motion slip velocity tolerance (Motor Module)	6.00	mm/min	Commissioning (P10,95)	3	0	6000
904	p9351		SI Motion SLS changeover delay time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
905	p9352		SI Motion transition time STOP C to SOS (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
906	p9353		SI Motion transition time STOP D to SOS (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
907	p9355		SI motion transition time STOP F to STOP B (Motor Module)	0.00	µs	Commissioning (P10,95)	3	0	6E+08
908	p9356		SI motion pulse cancelation delay time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
909	p9357		SI motion pulse cancelation test time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	1E+07

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
950	p9551		SI motion SLS (SG) changeover delay time (Control Unit)	100.00	ms	Commissioning (P10,95)	3	0	600000
951	p9552		SI motion transition time STOP C to SOS (SBH) (Control Unit)	100.00	ms	Commissioning (P10,95)	3	0	600000
952	p9553		SI motion transition time STOP D to SOS (SBH) (Control Unit)	100.00	ms	Commissioning (P10,95)	3	0	600000
953	p9555		SI motion transition time STOP F to STOP B (Control Unit)	0.00	ms	Commissioning (P10,95)	3	0	600000
954	p9556		SI motion pulse cancelation delay time (Control Unit)	100.00	ms	Commissioning (P10,95)	3	0	600000
955	p9557		SI motion pulse cancelation test time (Control Unit)	100.00	ms	Commissioning (P10,95)	3	0	10000
956	p9558		SI motion acceptance test mode time limit (Control Unit)	40000.00	ms	Commissioning (P10,95)	3	5000	100000
957	p9559		SI motion forced checking procedure timer (Control Unit)	8.00	h	Commissioning (P10,95)	3	0	9000
958	p9560		SI motion pulse cancelation shutdown velocity (Control Unit)	0.00	mm/min	Commissioning (P10,95)	3	0	6000
959	⊞ p9563[0]		SI motion SLS (SG)-specific stop response (Control Unit), Limit value SLS1	[2] STOP C		Commissioning (P10,95)	3		
960	p9570		SI motion acceptance test mode (Control Unit)	[0] [00 hex] De-select the acceptance test mode		Operation	3		
961	r9571		SI motion acceptance test status (Control Unit)	[0] [00 hex] Acc_mode inactive			3		
962	⊞ r9590[0]		SI motion version safety motion monitoring (Control Unit), Safety Version (major release)	2			3		
963	⊞ p9601		SI enable, functions integrated in the drive (Control Unit)	0H		Commissioning (P10,95)	3		
964	p9602		SI enable Safe Brake Control (Control Unit)	[0] Inhibit SBC		Commissioning (P10,95)	3		
965	p9610		SI PROFIsafe address (Control Unit)	0H		Commissioning (P10,95)	3	0H	FFFEH
966	⊞ p9620[0]		BI: SI signal source for STO (SH)/SBC/SS1 (Control Unit)	0		Commissioning (P10,95)	3		
967	p9650		SI SGE changeover tolerance time (Control Unit)	500.00	ms	Commissioning (P10,95)	3	0	2000
968	p9652		SI Safe Stop 1 delay time (Control Unit)	0.00	s	Commissioning (P10,95)	3	0	300
969	p9658		SI transition time STOP F to STOP A (Control Unit)	0.00	ms	Commissioning (P10,95)	3	0	30000
970	p9659		SI forced checking procedure timer	8.00	h	Commissioning (P10,95)	3	0	9000

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	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable	Access level	Minimum	Maximum
1019	p9850		SI SGE changeover tolerance time (Motor Module)	500000.00	µs	Commissioning (P10,95)	3	0	2E+06
1020	p9852		SI Safe Stop 1 delay time (Motor Module)	0.00	ms	Commissioning (P10,95)	3	0	300000
1021	p9858		SI transition time STOP F to STOP A (Control Unit)	0.00	µs	Commissioning (P10,95)	3	0	3E+07
1022	⊞ r9870[0]		SI version safety functions integrated in drive (Motor Module), Safety Version (major release)	2			3		
1023	⊞ r9871		SI common functions (Motor Module	DH			3		
1024	⊞ r9872		CO/BO: SI status list (Motor Module)	0H			2		
1025	r9880		SI monitoring clock cycle (Motor Module)	16.00	ms		3		
1026	⊞ r9881[0]		SI Motion Sensor Module Node Identifier second channel	30H			3		
1027	⊞ r9890[0]		SI version (Sensor Module), Safety Version (major release)	0			3		
1028	⊞ r9894[0]		SI crosswise comparison list (Motor Module)	1			3		
1029	r9895		SI diagnostics STOP F (Motor Module)	0			2		
1030	r9898		SI actual checksum SI parameters (Motor Module)	73DA52EDH			3		
1031	p9899		SI reference checksum SI parameters (Motor Module)	0H		Commissioning (P10,95)	3	0H	FFFFFFFFH

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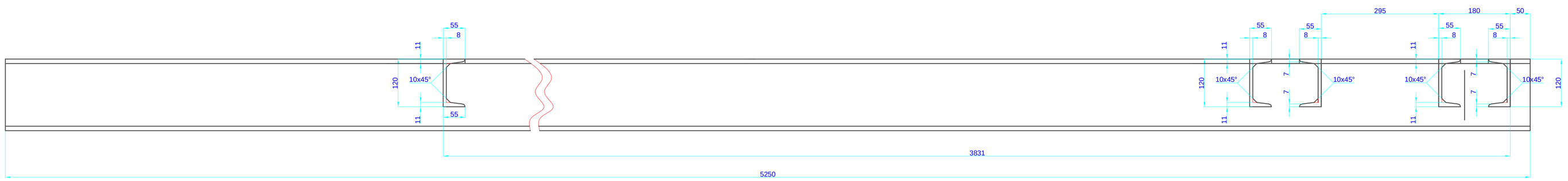
ANEXA 1

Proiectul Tehnic pentru

Ansamblul echipament Instalație inovatoare pentru cimentare
și operațiuni speciale la sondă



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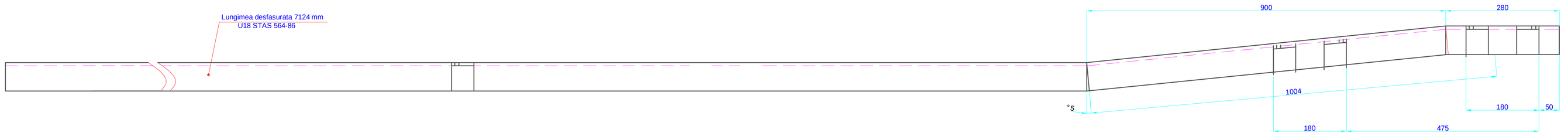

Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	
Desenat	A.Vasilescu		
Verificat	ing. G. Musat		
Aprobat	dr. ing. G. Marin	Greutate157,400 kg	
1:5		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	
Format: A4 (210x297)		Data: 16.08.2022	

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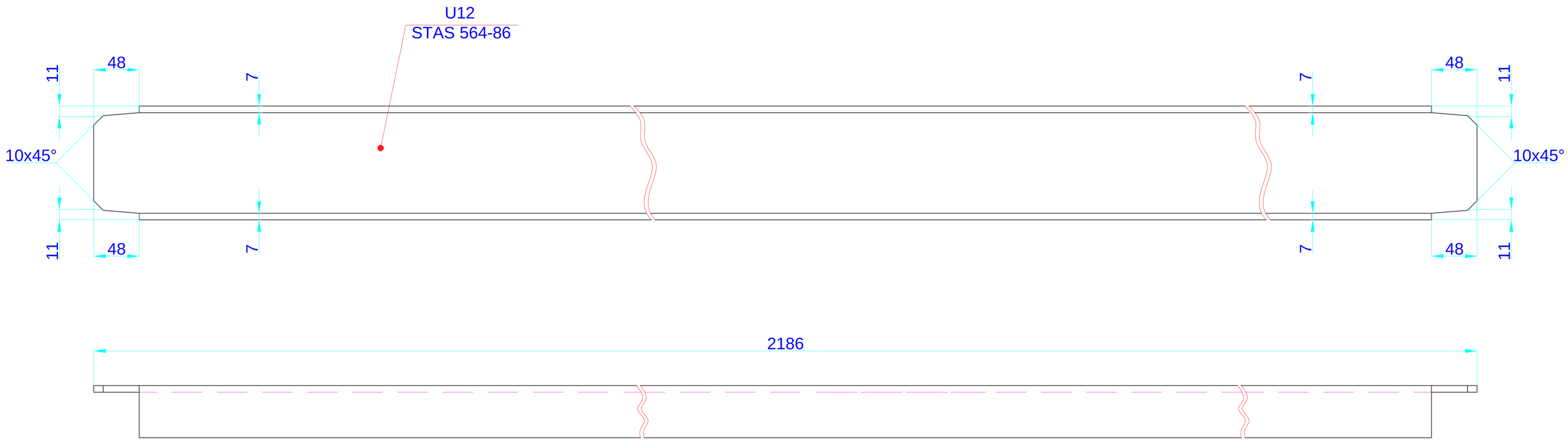
Client	
Proiect	Platforma
Desen	LONGERON

Desen nr.	Page	Rev.
105.80-02.00.01.0	1/1	0



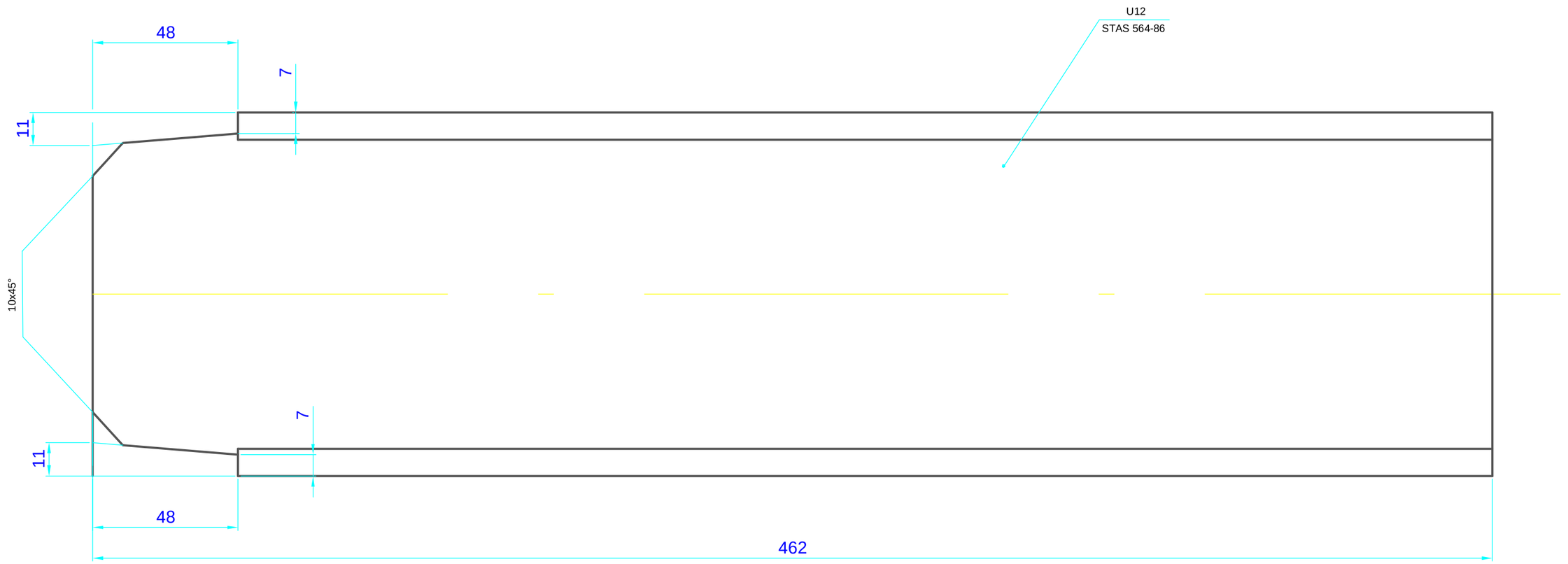
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	
Desenat	A.Vasilescu		
Verificat	ing. G. Musat		
Aprobat	dr.ing.G.Marin	Greutate: 26,650kg	
1:5		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 27.07.2022	

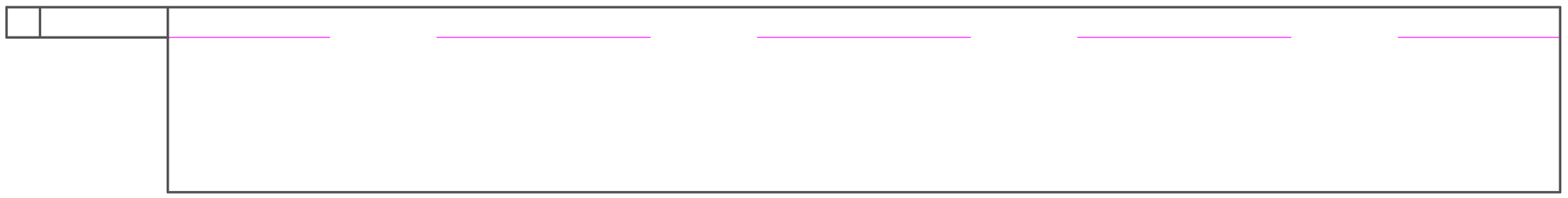
INCDIE ICPE-CA BUCURESTI

DEPARTAMENT IPCUP PLOIESTI

Client	
Proiect	Platforma
Desen	TRAVERSA

Desen nr.	Page:	Rev.
Poz 6	1/1	0

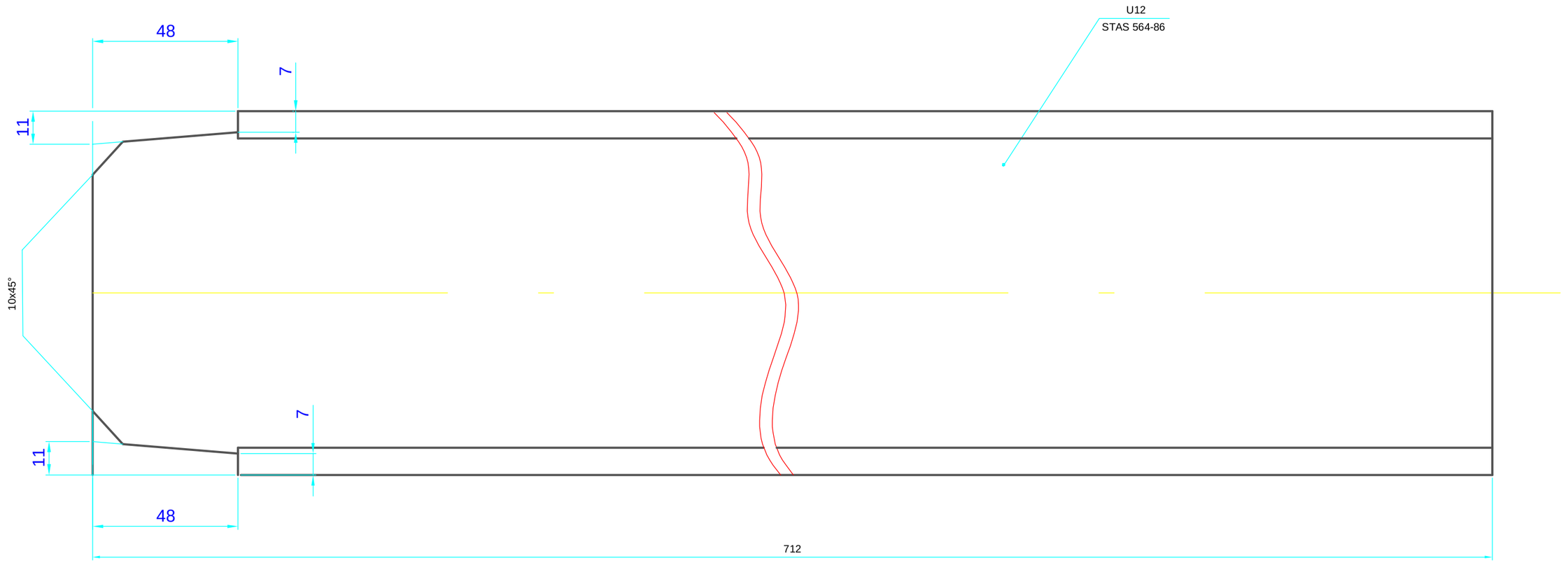


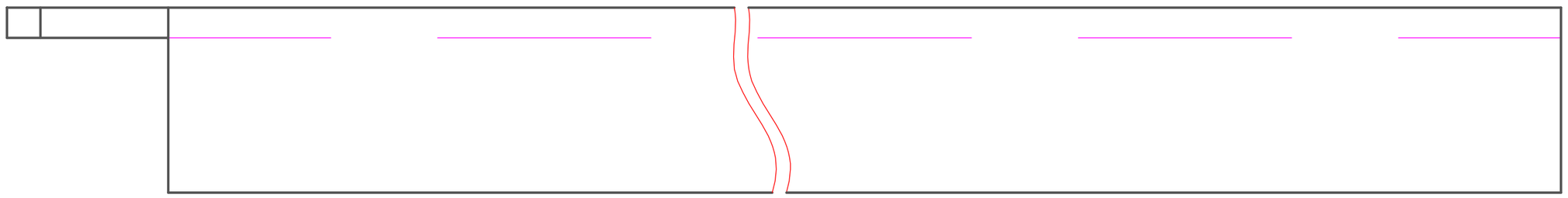


NOTA

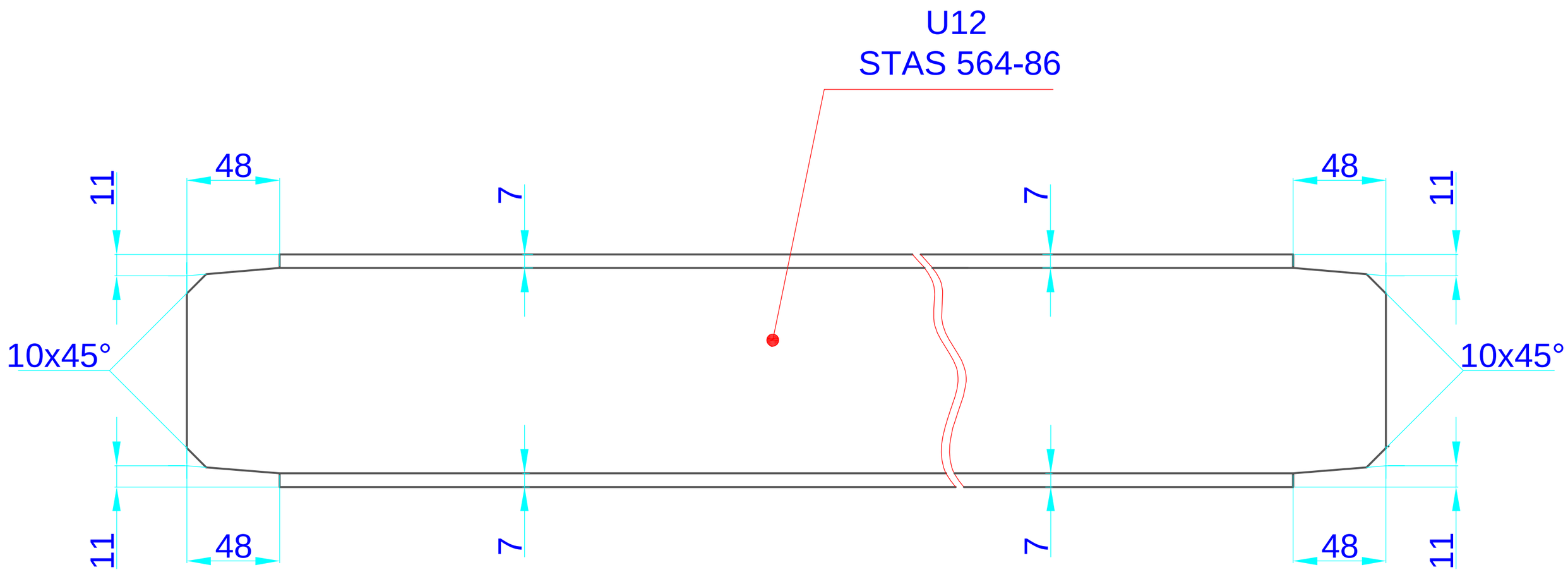
- 1 bucata vedere ca in desen
- 1 bucata vedere in oglinda

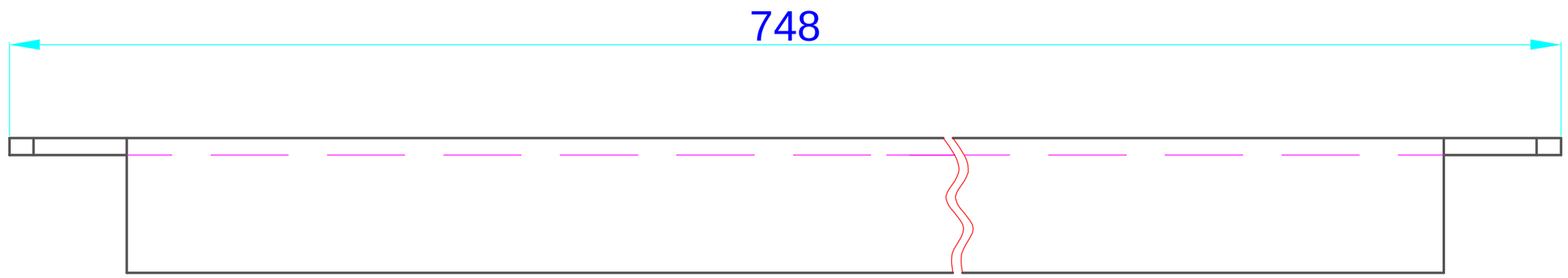
		INCDIE ICPE-CA BUCURESTI	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	
Desenat	F.Iancu		Proiect	Platforma
verificat	ing. G. Musat		Desen	TRAVERSA
Aprobat	dr.ing.G.Marin	Weight:9,000 kg	Drawing No.	Pag: Rev.
1:1	Unitate masura:mm Tolerante generale: EN ISO 13920 dasses B&F Simboluri sudura: EN 22553		Poz 2	1/1 0
Format:	Date: 16.08.2022			





			INCDIE ICPE-CA BUCURESTI / DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client
Desenat	F.Iancu		Proiect: Platforma
verificat	ing. G. Musat		Desen: TRAVERSA
Aprobat	dr.ing.G.Marin	Weight:9,000 kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 dasses B&F Simboluri sudura: EN 22553	Drawing No.: Poz 9 / Pag: 1/1 / Rev.: 0
Format:		Date: 27.07.2022	



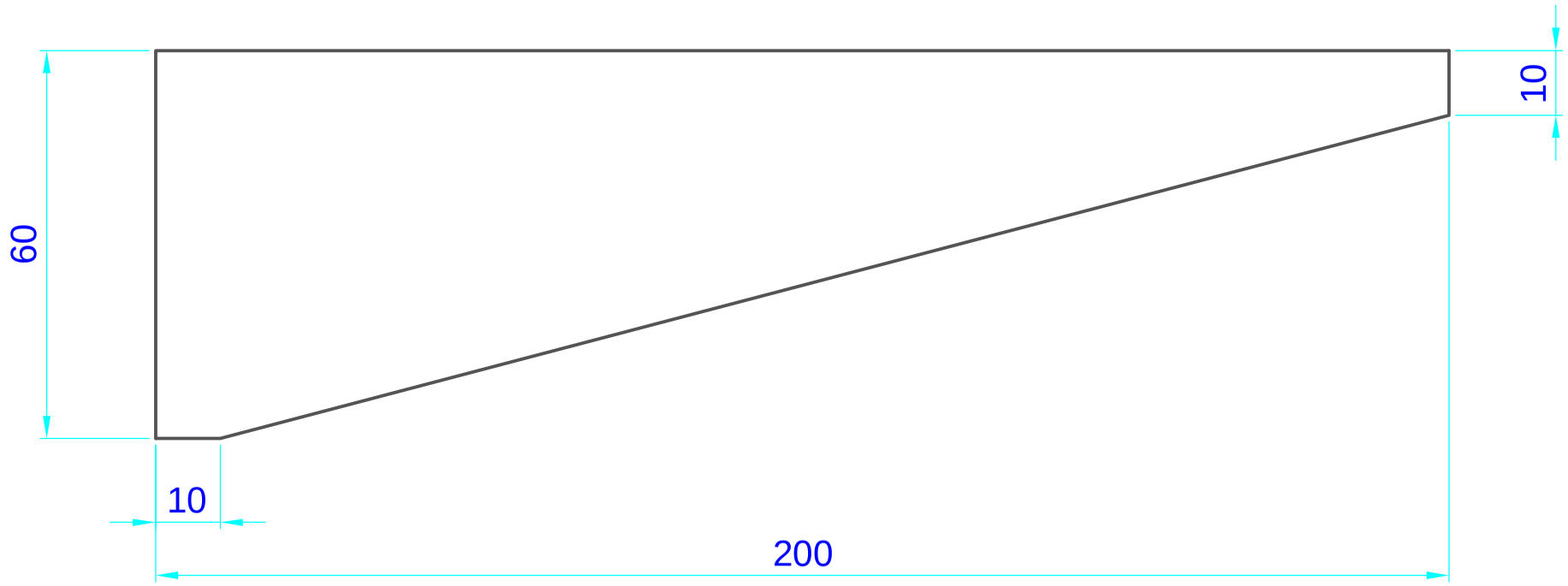


Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	
Desenat	A. Vasilescu		
Verificat	ing. G. Musat		
Aprobat	dr.ing.G.Marin	Greutate: 26,650 kg	
1:5		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 27.07.2022	

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Platforma
Desen	TRAVERSA

Desen nr.	Page:	Rev.
Poz 10	1/1	0



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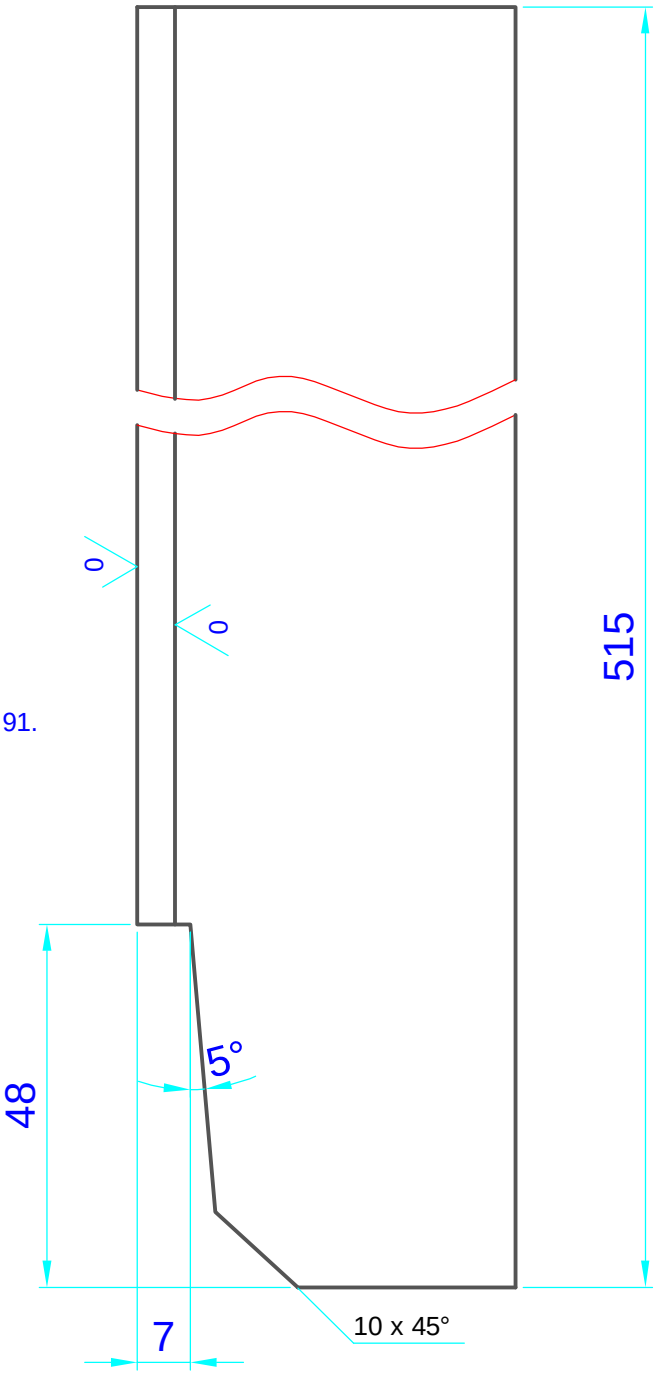
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	
Desenat	F.Iancu		
Verificat	ing. G. Musat		
Aprobat	dr.ing.G.Marin	Greutate: 0,308 kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 29.07.2022	

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Platforma
Desen	NERVURA

Desen nr.	Page:	Rev.
poz 3	1/1	0



L 50 x 50 x 5 - STAS 424 - 91.

NOTA
- 2 bucati vedere ca in desen
- 2 bucati vedere in oglinda

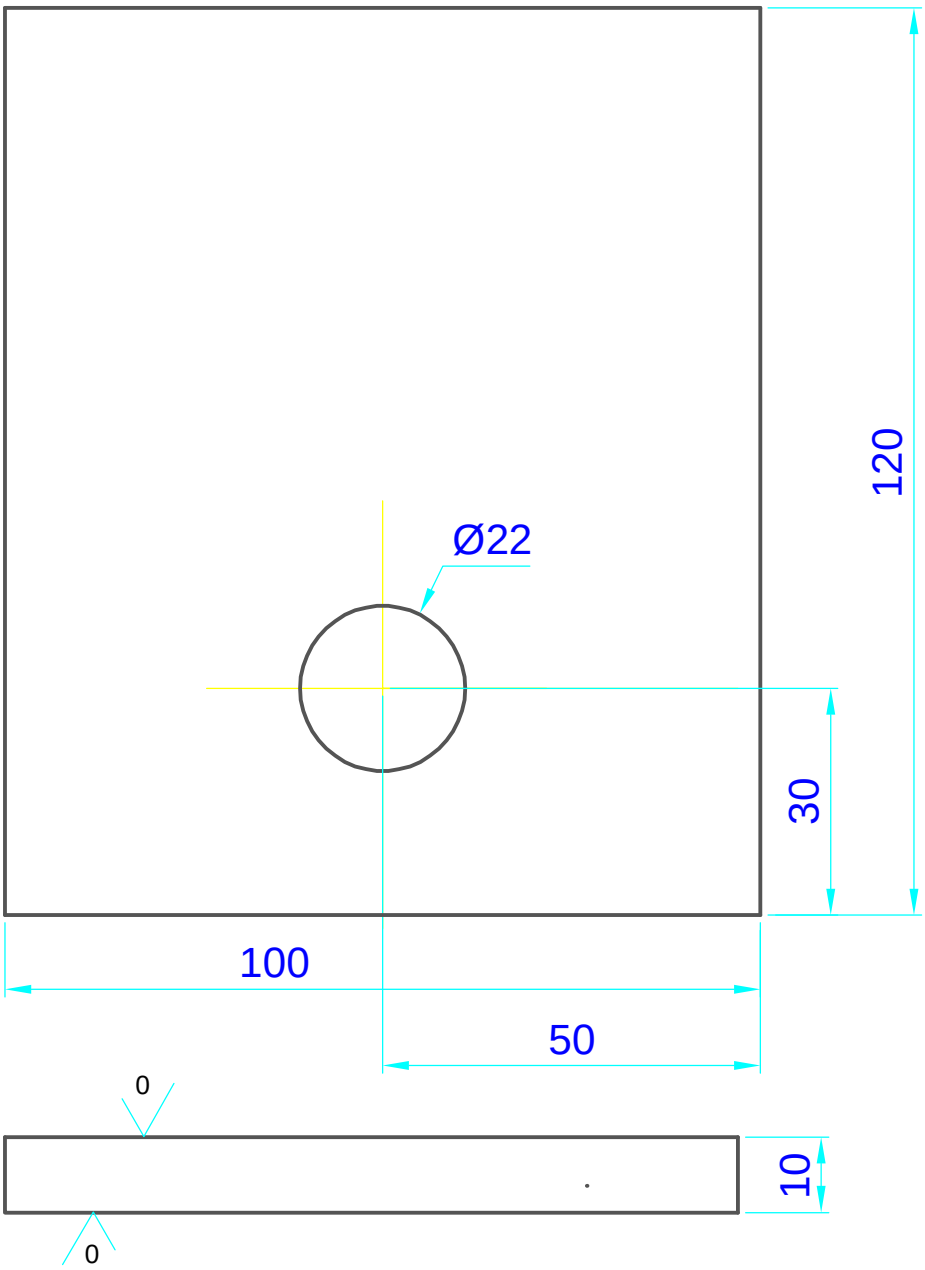
Proiectat	ing. S. Tudor	S235 J2 SR EN 10025-2:2019	
Desenat	A. Vasilescu		
Verificat	ing. G. Musat		
Aprobat	dr.ing.G.Marin	Greutate: 2,160 kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	
Format: A4 (210x297)		Data: 26.07.2022	

INCDIE
ICPE- CA
Bucuresti

DEPARTAMENT
IPCUP
PLOIESTI

Client	------
Proiect	Platforma
Desen	SUPORT

Desen nr.	Page:	Rev.
105. 80 - 02.00.08.0	1/1	0



NOTA
- 2 bucati vedere ca in desen
- 2 bucati vedere in oglinda

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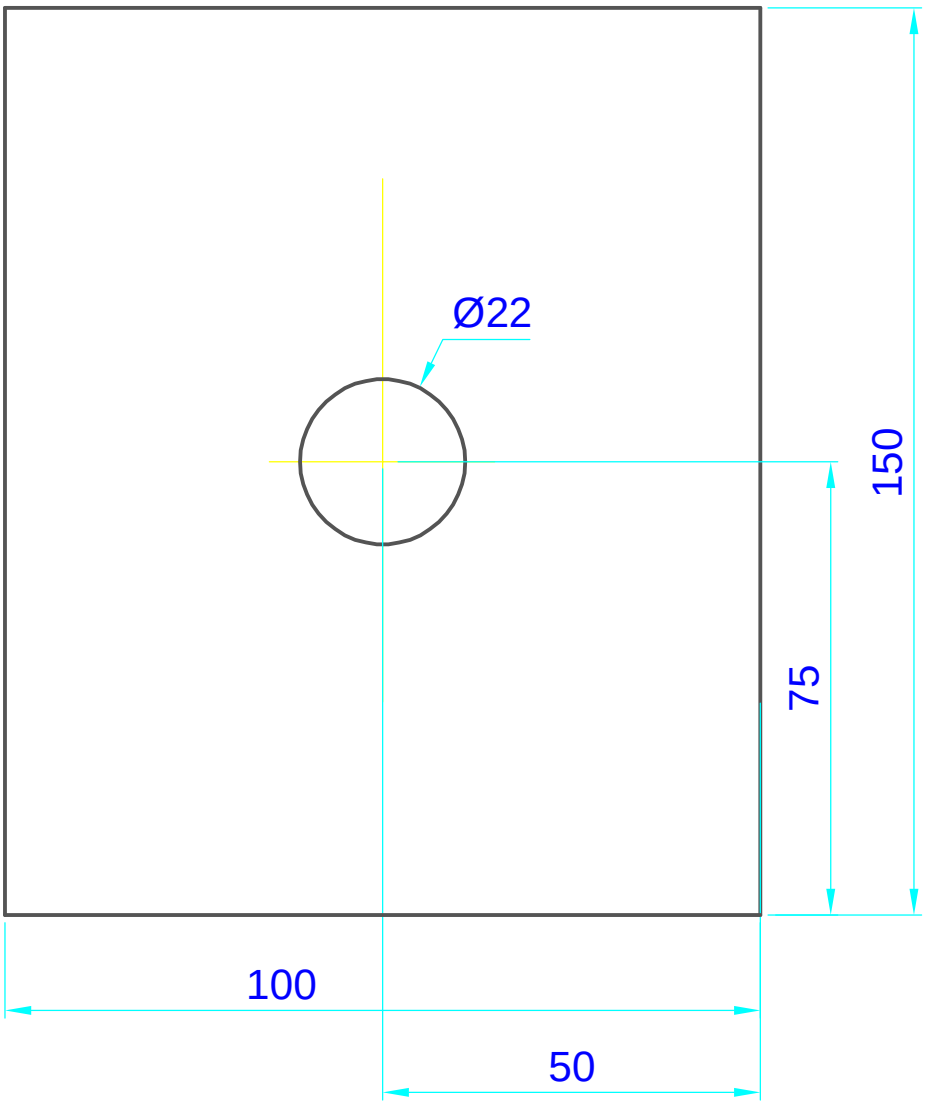
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	------
Desenat	ing. H. Moscaliuc		Proiect	Platforma
Verificat	ing. G. Musat		Desen	PLACA
Aprobat	dr.ing.G.Marin	Greutate: 0.96 kg	Desen nr.	Page: / Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Poz 11	1/1 / 0
Format: A4 (210x297)		Data: 03.08.2022		



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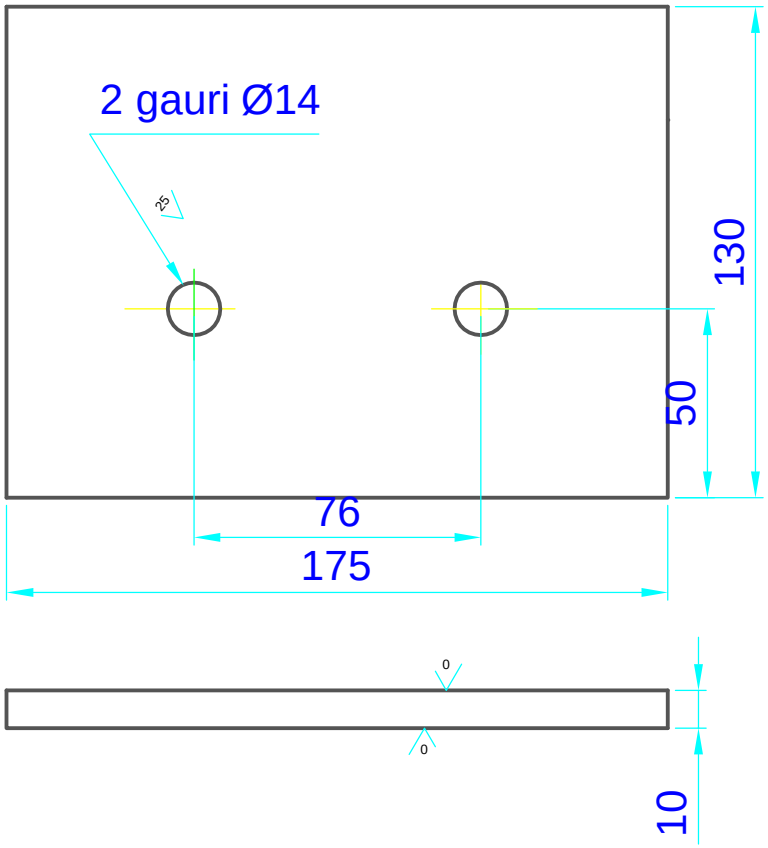
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	------
Desenat	ing. H. Moscaliuc		Proiect	Platforma
Verificat	ing. G. Musat		Desen	PLACA
Aprobat	dr.ing.G.Marin	Greutate1,2 kg	Desen nr.	Page: / Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Poz 12	1/1 / 0
Format: A4 (210x297)		Data: 03.08.2022		

1:2



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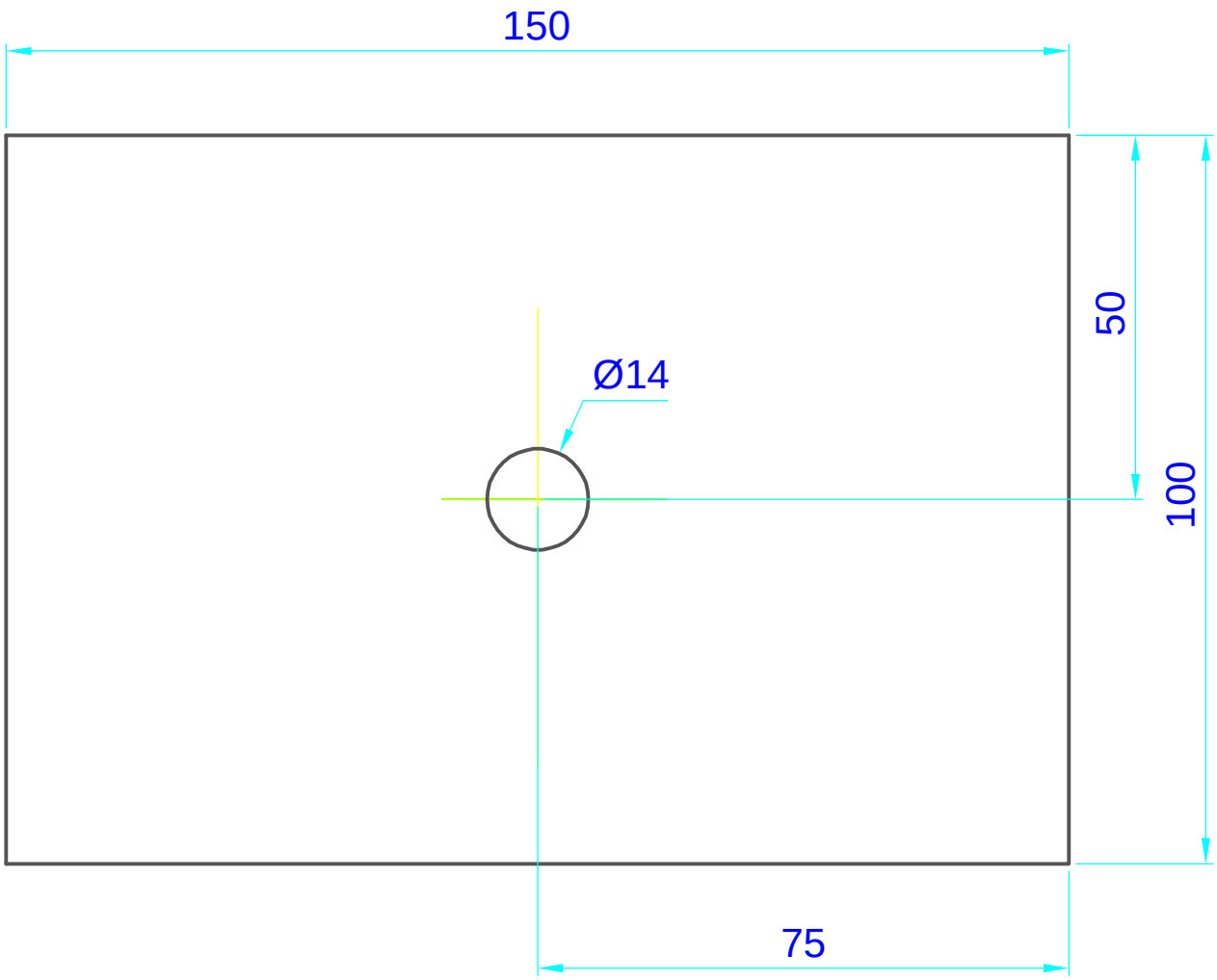
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	------	
Desenat	ing. H. Moscaliuc		Proiect	Platforma	
Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate1,80 kg	Desen nr.	Page:	Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Poz 14	1/1	0
Format: A4 (210x297)		Data: 03.08.2022			



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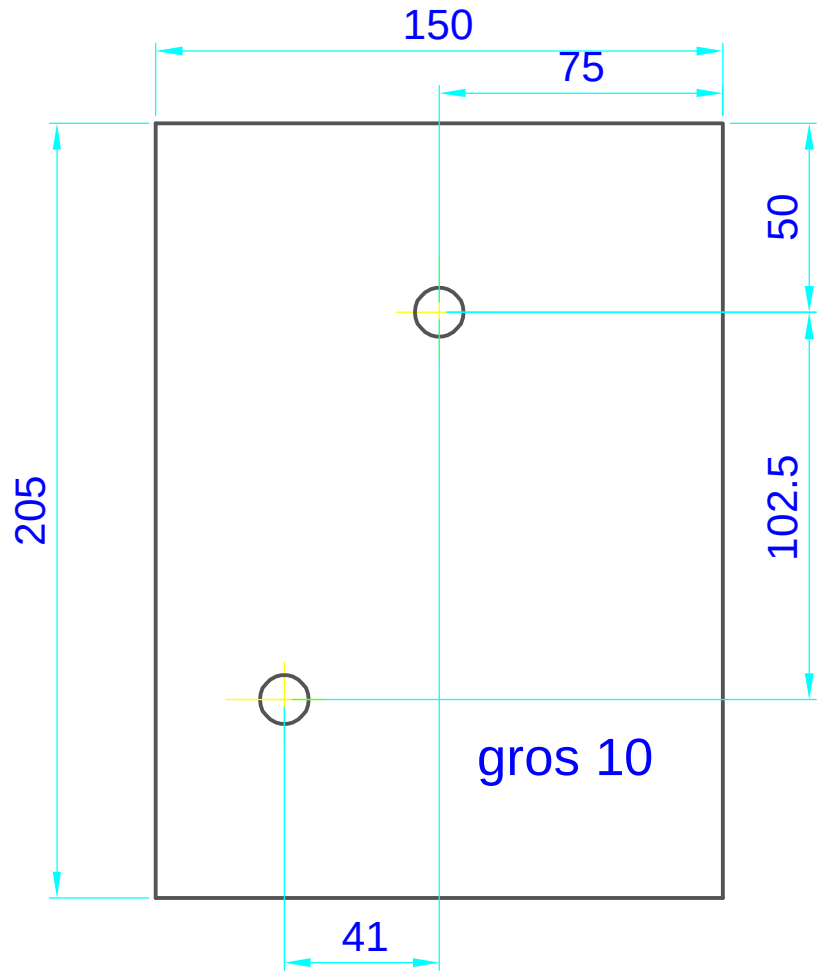
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	------	
Desenat	ing. H. Moscaliuc		Proiect	Platforma	
Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate: 1,20 kg	Desen nr.	Page:	Rev.
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Poz 16	1/1	0
Format: A4 (210x297)	Data: 03.08.2022				

1:2



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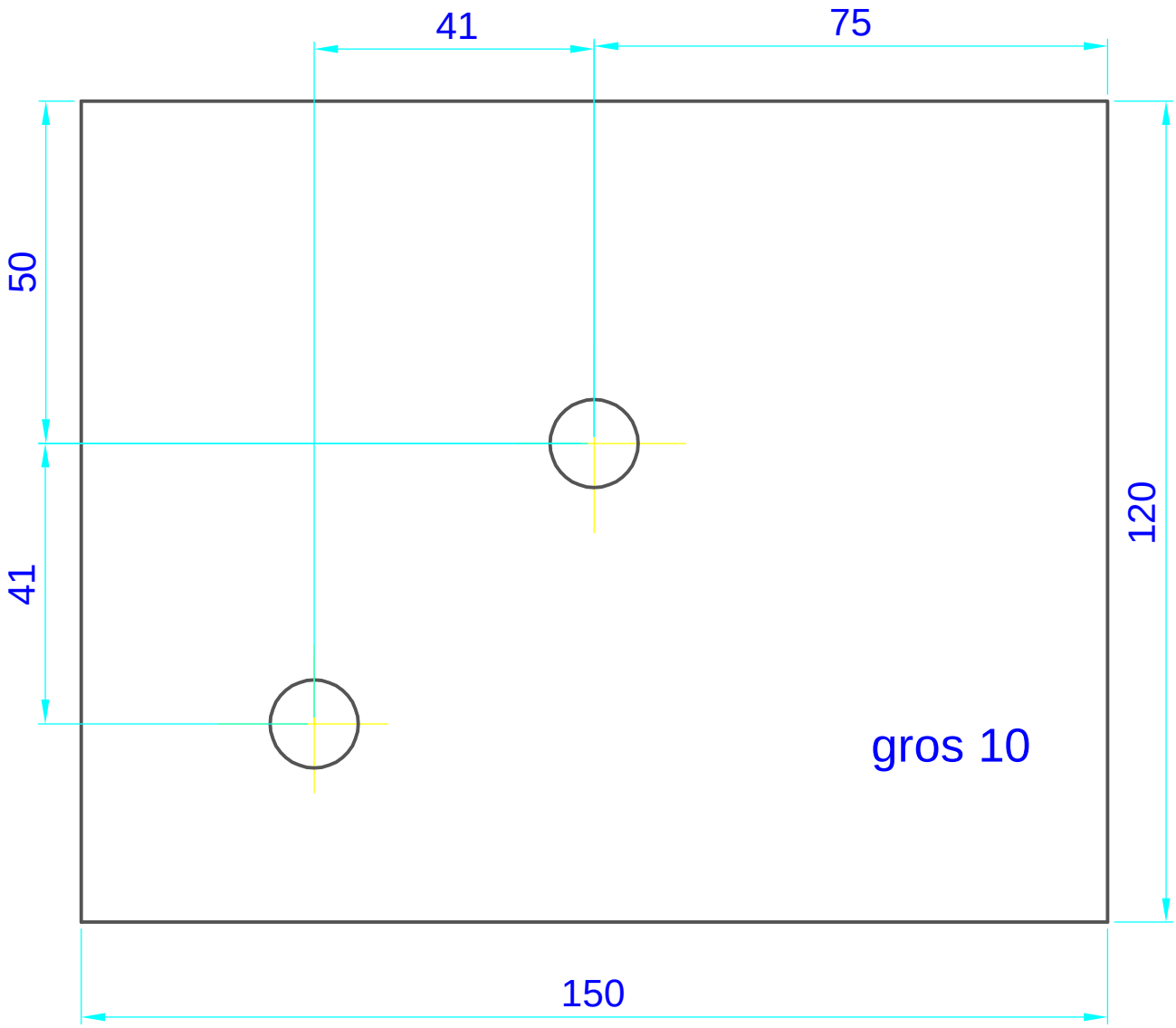
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client	------	
Desenat	ing. H. Moscaliuc		Proiect	Platforma	
Verificat	ing. G. Musat		Desen	PLACA	
Aprobat	dr.ing.G.Marin	Greutate2,460 kg	Desen nr.	Page:	Rev.
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Poz 19	1/1	0
Format: A4 (210x297)	Data: 03.08.2022				



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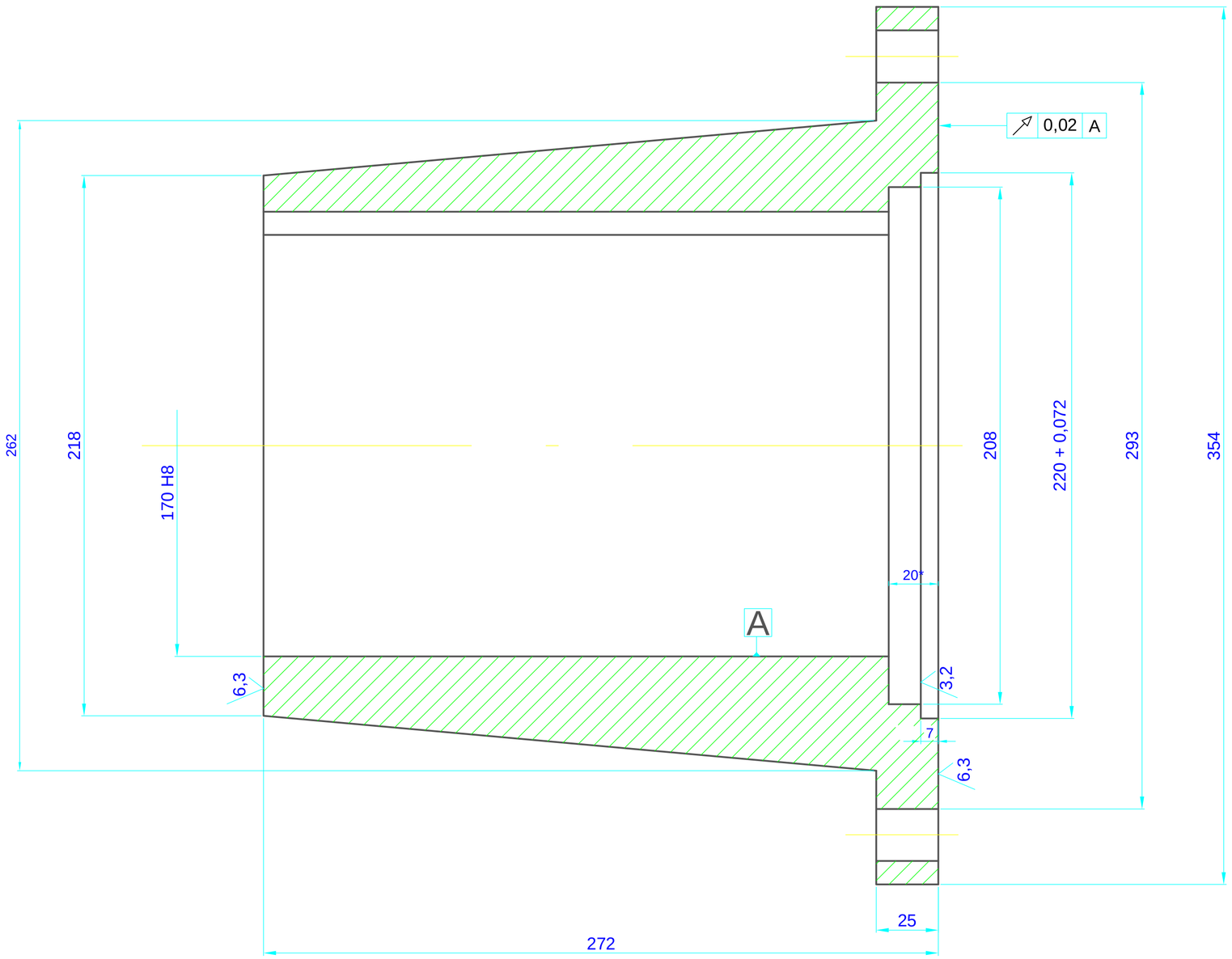
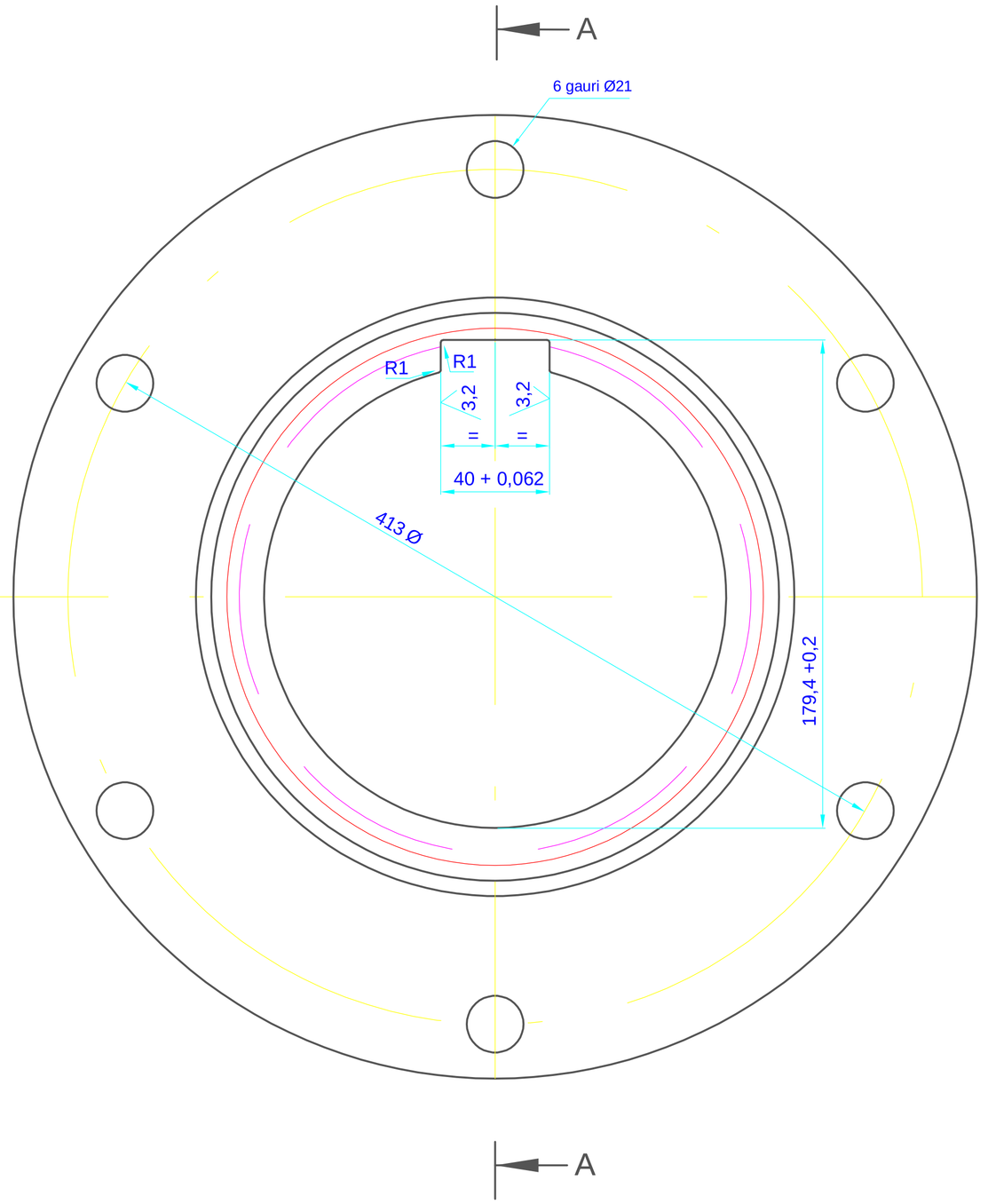
			INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	S235J2 SR EN 10025-2:2019	Client: ------
Desenat	ing. H. Moscaliuc		Proiect: Platforma
Verificat	ing. G. Musat		Desen: PLACA
Aprobat	dr.ing.G.Marin	Greutate: 1,45 kg	
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Desen nr.: Poz 20 — Page: 1/1 — Rev. 0
Format: A4 (210x297)	Data: 15.08.2022		

Sectiunea A-A





CONDITII TEHNICE:
1. Duritatea piesei HB 187-207 daN/mm^2 ;
2. Muchiile ascutite se vor rotunji R 0,5.
3. Gaurile Ø21 se vor aleza impreuna cu flansa legatura motor.

NOTA
Cota notata cu * se definitiveaza in functie de surubul
si saiba axului motor

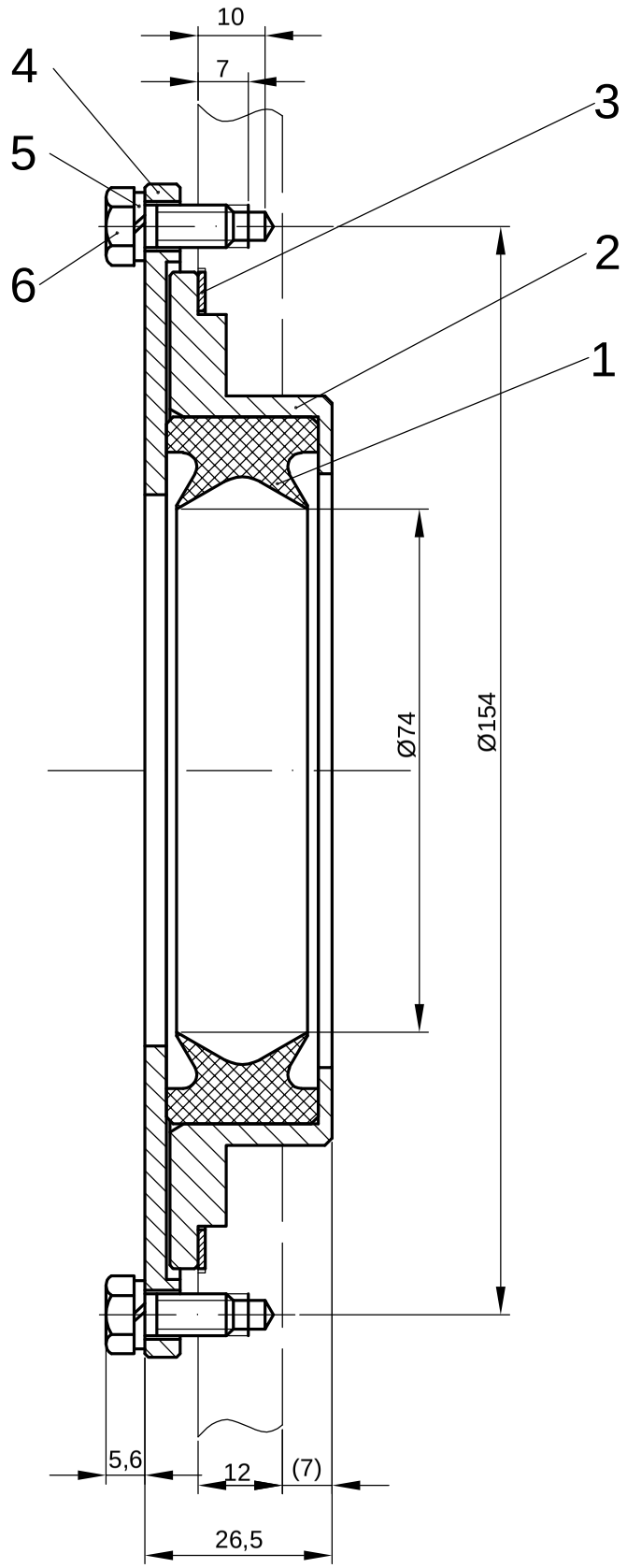
25

Proiectat	ing. S. Tudor	S355J2G3 SR EN 10025-2:2004	
Desenat	ing. H. Moscaliuc		
verificat	Dr. ing. G. Stoianovici		
Aprobat	Dr. ing. G. Marin	Weight:----- kg	
1:2		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	
Format: A2 (420x594)		Data: 17.08.2022	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	
Desen	Flansa motor

Desen nr.	Page:	Rev.
105.80-00.00.00.0	1/1	0



Poz.	Denumirea	Referinte	Buc.	Material	Observatii	Masa kg./buc.
6	Şurub M6 x 14 PT	STAS 4845 - 89	4	gr.5.6	Cd 5 FL	0,005
5	Şaibă Grower 6	STAS 7666/2 - 89	4	-		0,0005
4	Inel de fixare	PET10-02.19.04.0	1	OL 52.4		0,475
3	Garnitură Ø130 x Ø141 x 1	PET10-02.19.03.0	1	Carton	Fără desen	0,002
2	Casetă	PET10-02.19.02.0	1	OL 37		0,700
1	Garnitură	PET10-02.19.01.0	1	Cauciuc		0,055

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat : *ing. T. Arhire*
Desenat : *ing. P. Baraga*
Verificat : *dr. ing. I. Cucos*
Aprobat : *dr. ing. I. Cucos*

Masa: 1,254 kg

Proiect tehnic PETAL S.A. Huşi

INOCEM 10-02.00.00.0

Ca

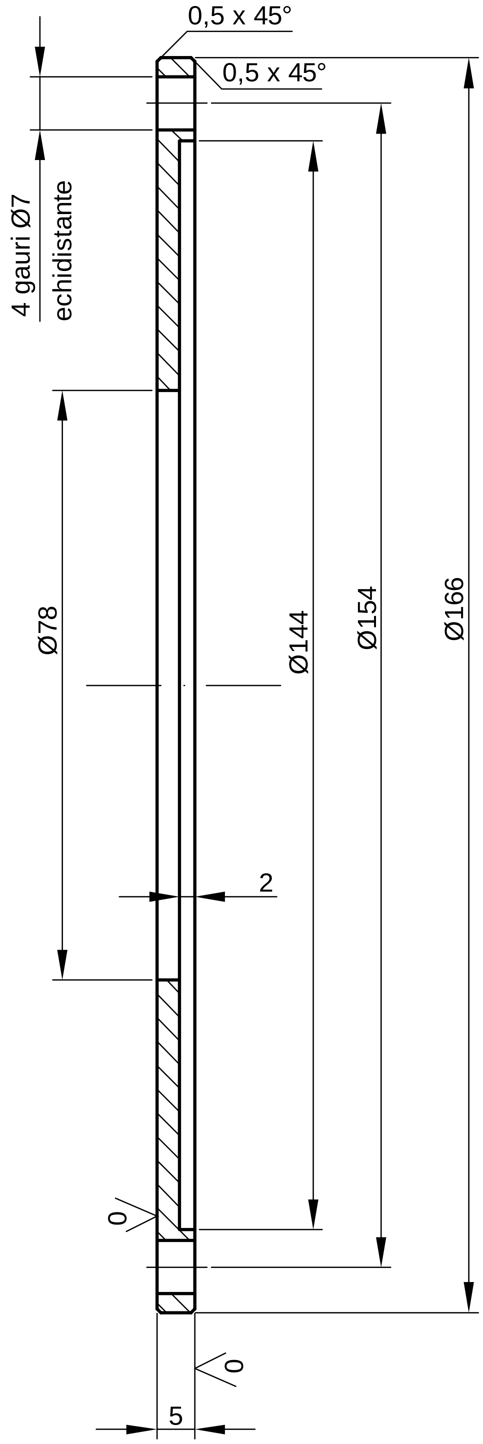
S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic
PETAL S.A. Huşi

1 : 1

Data: *sept-nov.2022*

Caseta de etansare

Mecanism motor



25		
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat :	*ing. T. Arhire*
	Desenat :	*ing. P. Baraga*
	Verificat :	*dr. ing. I. Cucos*
	Aprobat :	*dr. ing. I. Cucos*

OL 52.4
STAS 500/2-80

Masa: 0,475 kg

Proiect tehnic

PETAL S.A.
Huşi

INOCEM 10-02.19.04.0

Ca

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

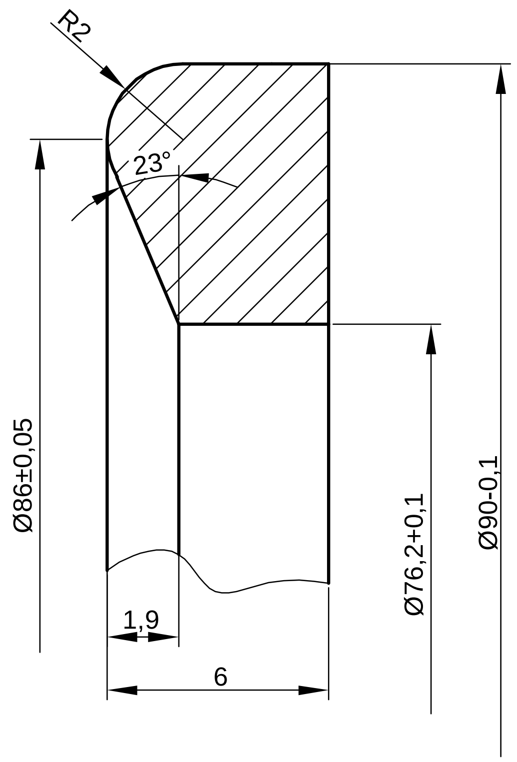
PETAL S.A.
Huşi

1 : 1

Inel de fixare

Data: *sept-nov.2022*

Caseta de etansare



NOTA:Muchiile ascutite se tesesc 1x45°.

Proiectat :	*ing. T. Arhire*	CuSn6Zn4Pb4	Proiect tehnic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,095 kg	INOCEM 10-02.19.07.0

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

Ca

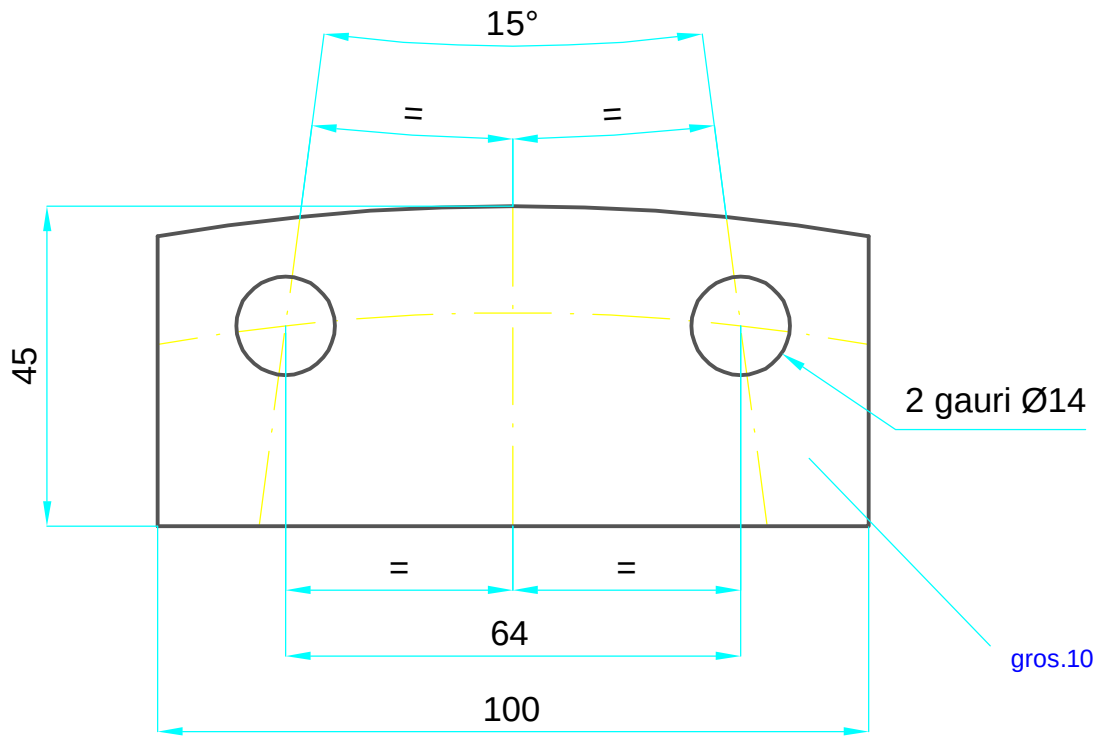
S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic
PETAL S.A.
Huşi

5 : 1

Inel de presare

Data: *sept-nov.2022*

Caseta de etansare



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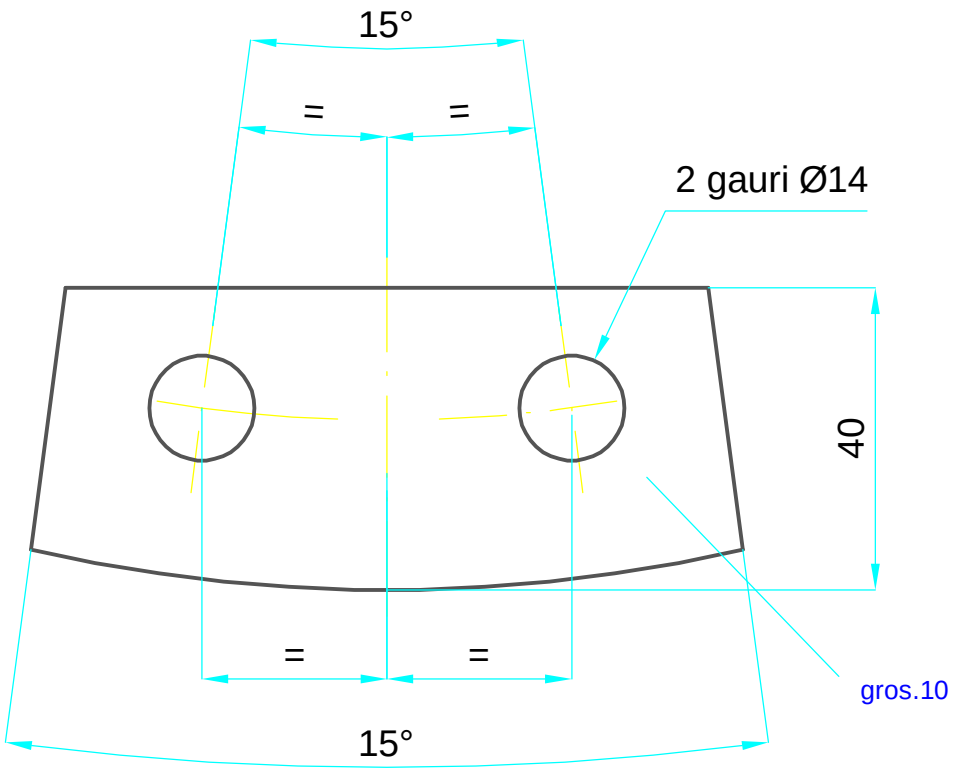
		INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	S355 J2 SR EN 10025/2:2019	
Desenat	Baraga Cristina		
Verificat	Munteanu Silvia		
Aprobat	Tartian Nelu	Greutate: 0,345kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	
Format: A4 (210x297)		Data: 09.03.2021	

Client	------		
Proiect			
Desen	SECTOR DE FIXARE		
Desen nr.		Page:	Rev.
616.15-02.00.03.0		1/1	0



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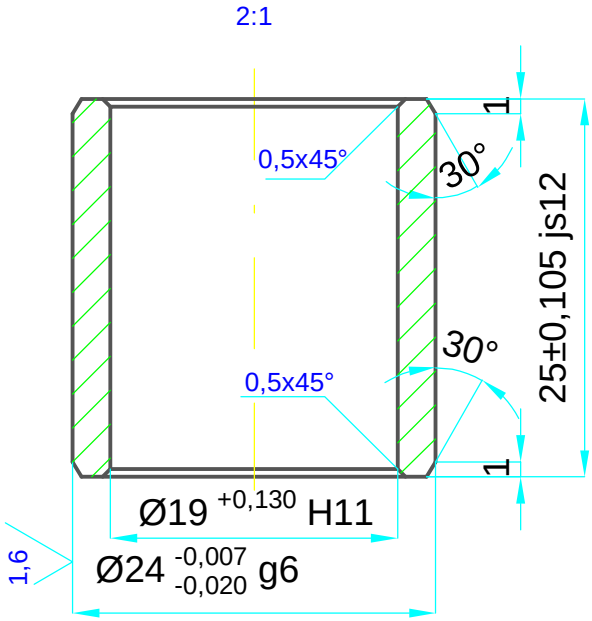
			INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI
Proiectat	Arhire Tiberiu	S355 J2 SR EN 10025/2:2019	Client: ------
Desenat	Gheuca Cristina		Proiect:
Verificat	Munteanu Silvia		Desen: SECTOR DE FIXARE
Aprobat	Tartian Nelu	Greutate: 0,280kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr. 616.15-02.00.07.0 — Page: 1/1 — Rev. 0
Format: A4 (210x297)		Data: 09.03.2021	

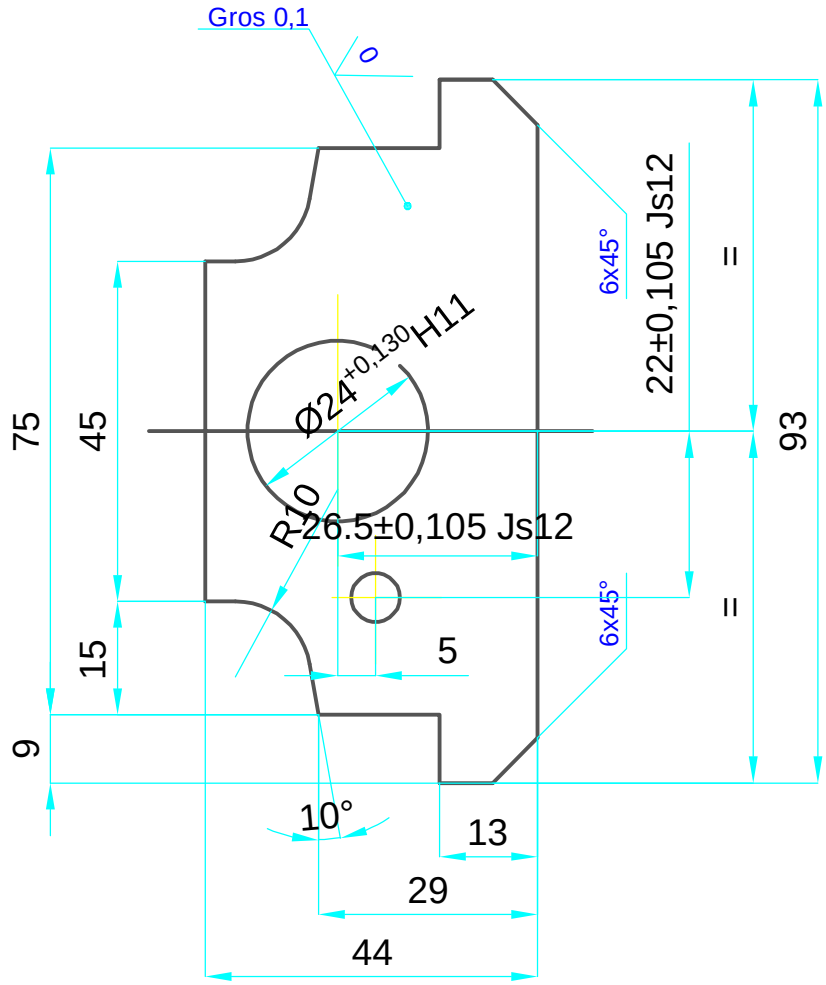


CONDITII TEHNICE

Imbunatatit la duritatea 280.....320 HB.

25

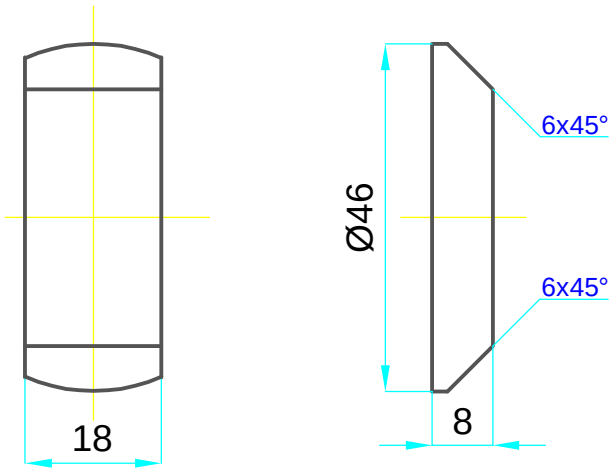
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI	
Proiectat	Tartian Nelu	42CrMo4 SR EN 10250-3:2002	Client		
Desenat	Paiu Andreia		Proiect		
Verificat	Munteanu Silvia		Desen	BUCSA DE CENTRARE	
Aprobat	Cepisca C.	Greutate: 0,033 kg	Desen nr.	Page:	Rev.
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		616.15-02.24.07.0	1/1	0
Format: A4 (210x297)	Data: 27.01.2021				



Banda TA 0,1 STAS 290/2-89

25

			INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI
Proiectat	Tartian Nelu	CuZn30(Am70) STAS 95-90	Client
Desenat	Gheuca Cristina		Proiect
Verificat	Baraga Constantin		Desen: ADAOS
Aprobat	Arhire Tiberiu	Greutate: 0,003 kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr. 616.15-02.24.09.0 — Page: 1/1 — Rev. 0
Format: A4 (210x297)		Data: 27.01.2021	



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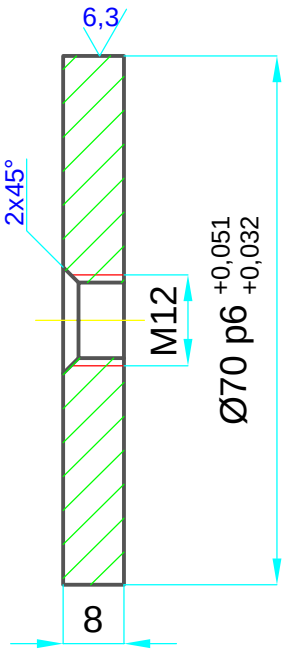
		INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	S355J2 SR EN 10025-2:2019	
Desenat	Gheuca Cristina		
Verificat	Munteanu Silvia		
Aprobat	Arhire Tiberiu	Greutate: 0,050 kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	
Format: A4 (210x297)		Data: 26.01.2021	

Client	------			
Proiect				
Desen	PUNTE			
	Desen nr.		Page:	Rev.
	616.15 - 02.25.03.0		1/1	0



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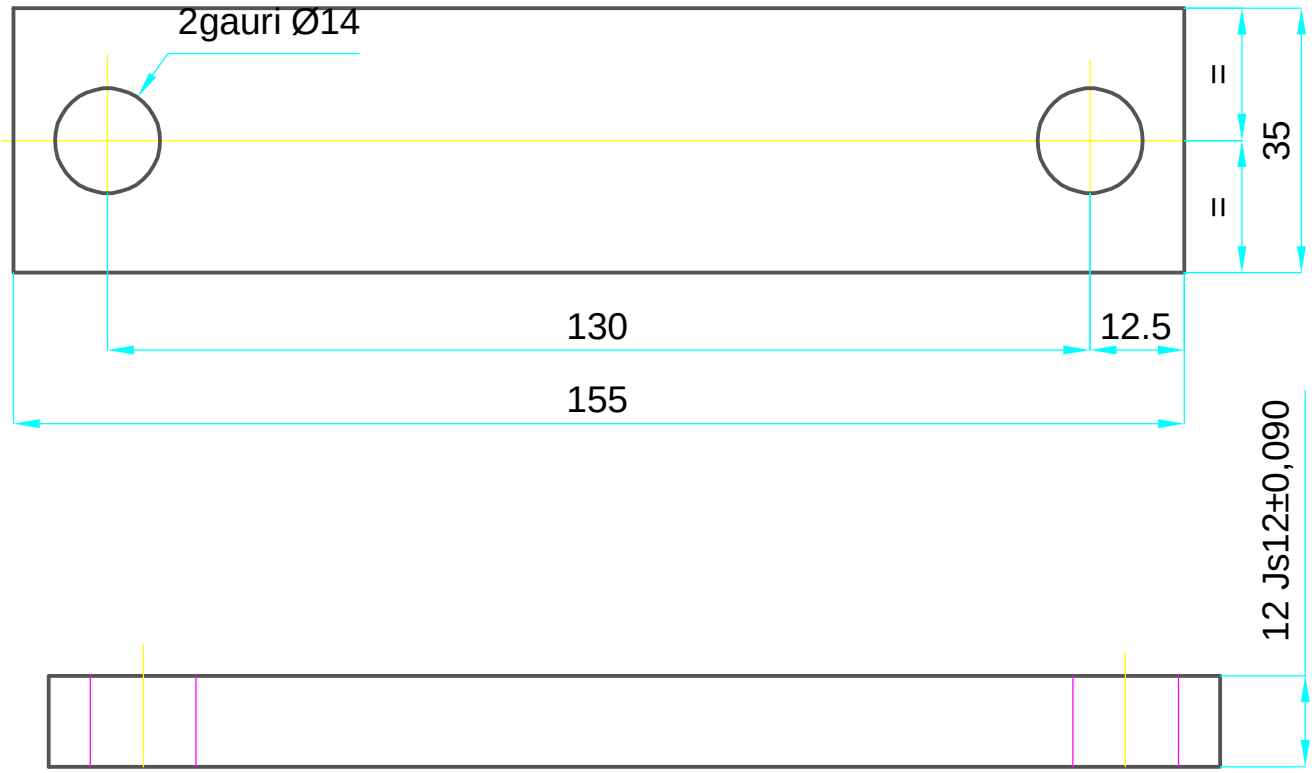
		INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	S355J2 SR EN 10025-2:2019	
Desenat	Gheuca Cristina		Client: ------
Verificat	Baraga Constantin		Proiect:
Aprobat	Cepisca C.	Greutate: 0,236 kg	Desen: CAPAC
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr.: 616.15- 02.25.08.0
Format: A4 (210x297)		Data: 28.01.2021	Page: 1/1
			Rev.: 0



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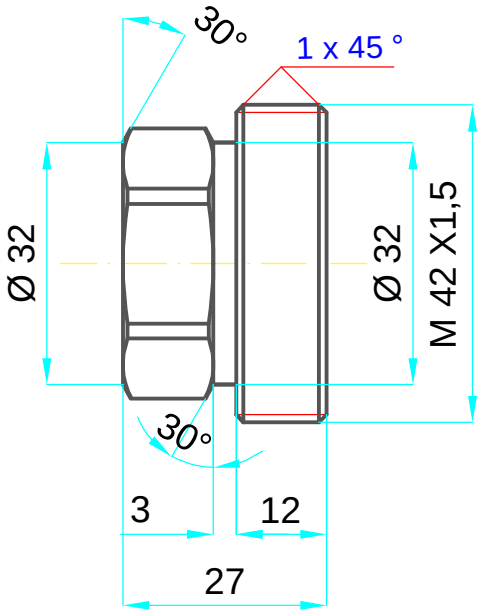
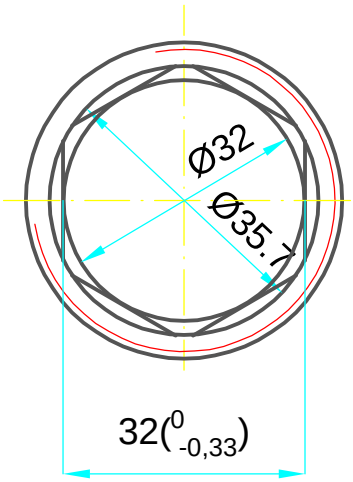
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Tartian Nelu	34CrMo4 SR EN 10250-3:2002	Client	------
Desenat	Baraga Cristina		Proiect	
Verificat	Balan Maria		Desen	PANA
Aprobat	Arhire Tiberiu	Greutate: 0,490 kg		
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr.	Page: Rev.
Format: A4 (210x297)		Data: 29.01.2021	616.15- 02.25.09.0	1/1 0





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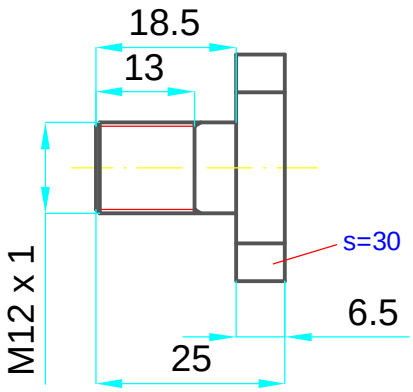
Proiectat	Tartian Nelu	C 45 E SR EN 10250/2:2002	
Desenat	Paiu Andeia		
Verificat	Munteanu Silvia		
Aprobat	Cepisca C.	Greutate: 0,215 kg	
1:1	Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Client	------
		Proiect	
Format: A4 (210x297)	Data: 2.02.2021	Desen	Dop filetat
		Desen nr.	616.15-02.27.02.0
		Page:	1/1
		Rev.	0



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Proiectat	Bolmoaga Sergiu	C25E SR EN 10250/2:2002	Client: ------
Desenat	Baraga Cristina		Proiect:
Verificat	Balan Maria		Desen: Surub special
Aprobat	Arhire Tiberiu	Greutate: 0,033kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	Desen nr. 616.15-02.35.05.0 / Page: 1/1 / Rev. 0
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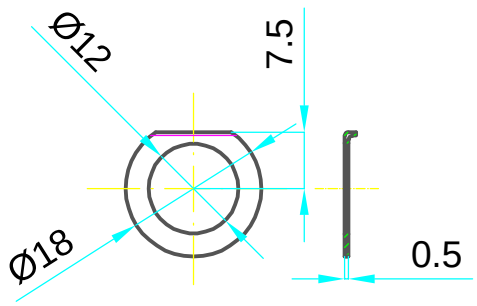

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		INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Tartian Nelu	S 355 J2 SR EN 10025/2:2019	
Desenat	Gheuca Cristina		
Verificat	Balan Maria		
Aprobat	Cepisca C.	Greutate: 0,005 kg	
Client	------		
Proiect			
Desen	Siguranta		
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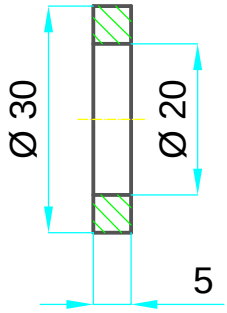
Format: A4 (210x297)	Data: 3.02.2021		



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		INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	C 45 E SR EN 10250/2:2002	
Desenat	Paiu Andreia		
Verificat	Baraga Constantin		
Aprobat	Tartian Nelu	Greutate: 0,019 kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553	
Format: A4 (210x297)		Data: 3.02.2021	

Client	------		
Proiect			
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Desen nr.		Page:	Rev.
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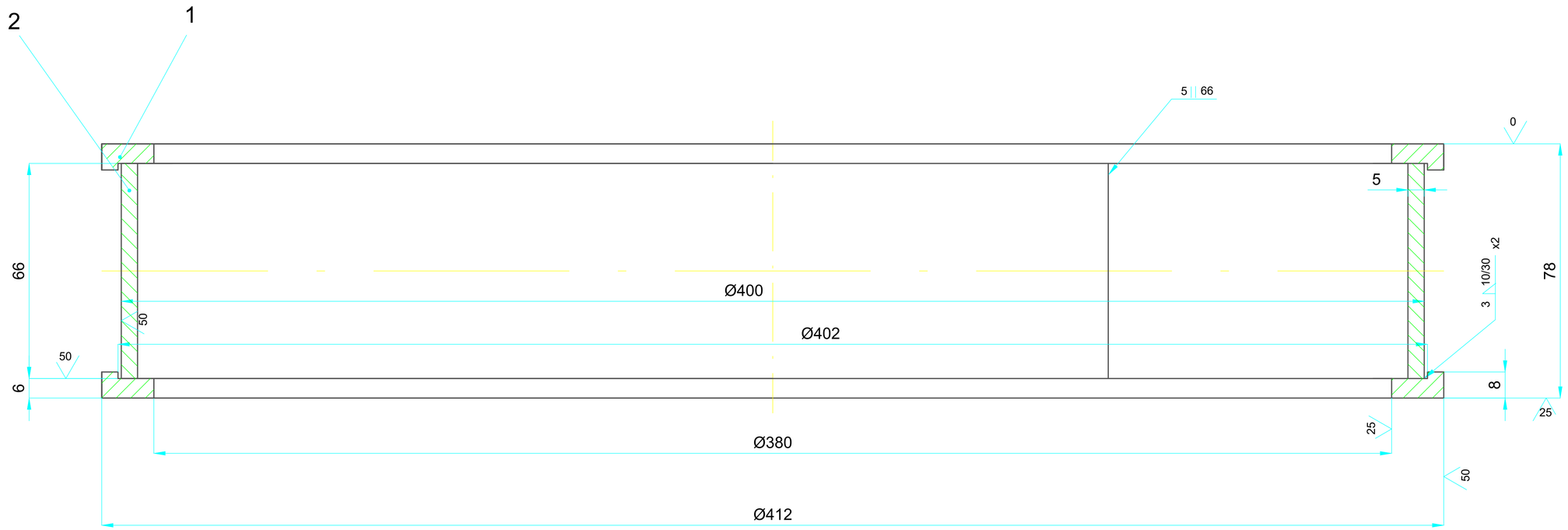

Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.
2	Manta 66x5x1240	616.15-02.08.02.0	1	S355 J2 SR EN 10025/2:2019	fara desen	3,210
1	Flansa	616.15-02.08.01.0	2	S355 J2 SR EN 10025/2:2019	fara desen	1,040

INCDIE ICPE-CA BUCURESTI

DEPARTAMENT IPCUP PLOIESTI

Proiectat	Tartian Nelu
Desenat	Daisa A.M.
verificat	Balan Maria
Aprobat	Cepisca C.

Weight:5,290 kg

1:1

Unitate masura:mm
Tolerante generale: EN ISO 13920 clasele B&F
Simboluri sudura: EN 22553

Format: A2 (420x594)

Data: 02.02.2021

Client	-----
Proiect	
Desen	DISTANTIER

Desen nr.	Page:	Rev.
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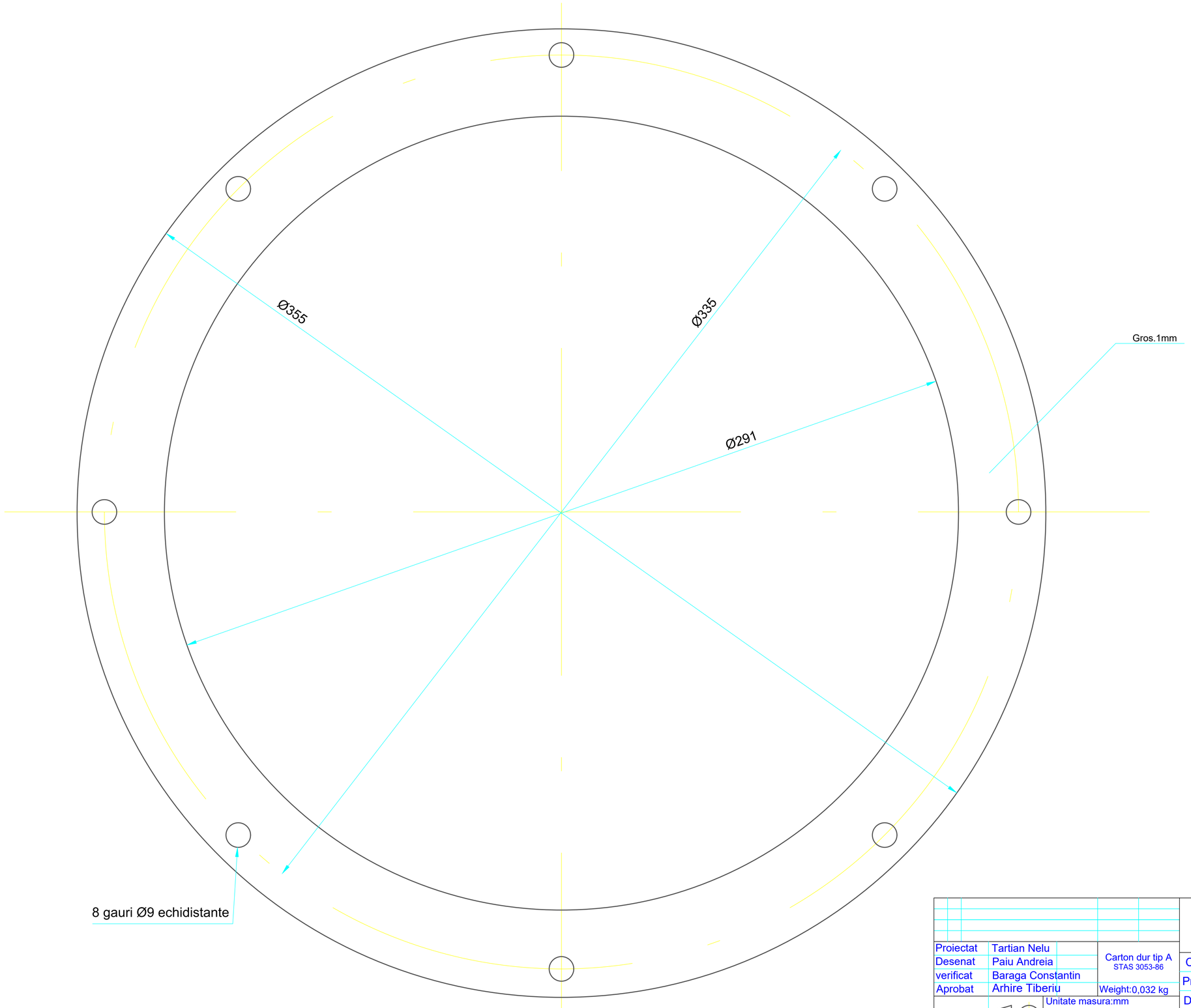

Proiectat	Tartian Nelu	Carton dur tip A STAS 3053-86	
Desenat	Paiu Andreia		
verificat	Baraga Constantin		
Aprobat	Arhire Tiberiu	Weight:0,032 kg	
1:1		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 clasele B&F	
		Simboluri sudura: EN 22553	
Format: A2 (420x594)		Data: 01. 02. 2021	

INCDIE ICPE-CA BUCURESTI

DEPARTAMENT IPCUP PLOIESTI

Client	-----
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Desen	GARNITURA

Desen nr.	Page:	Rev.
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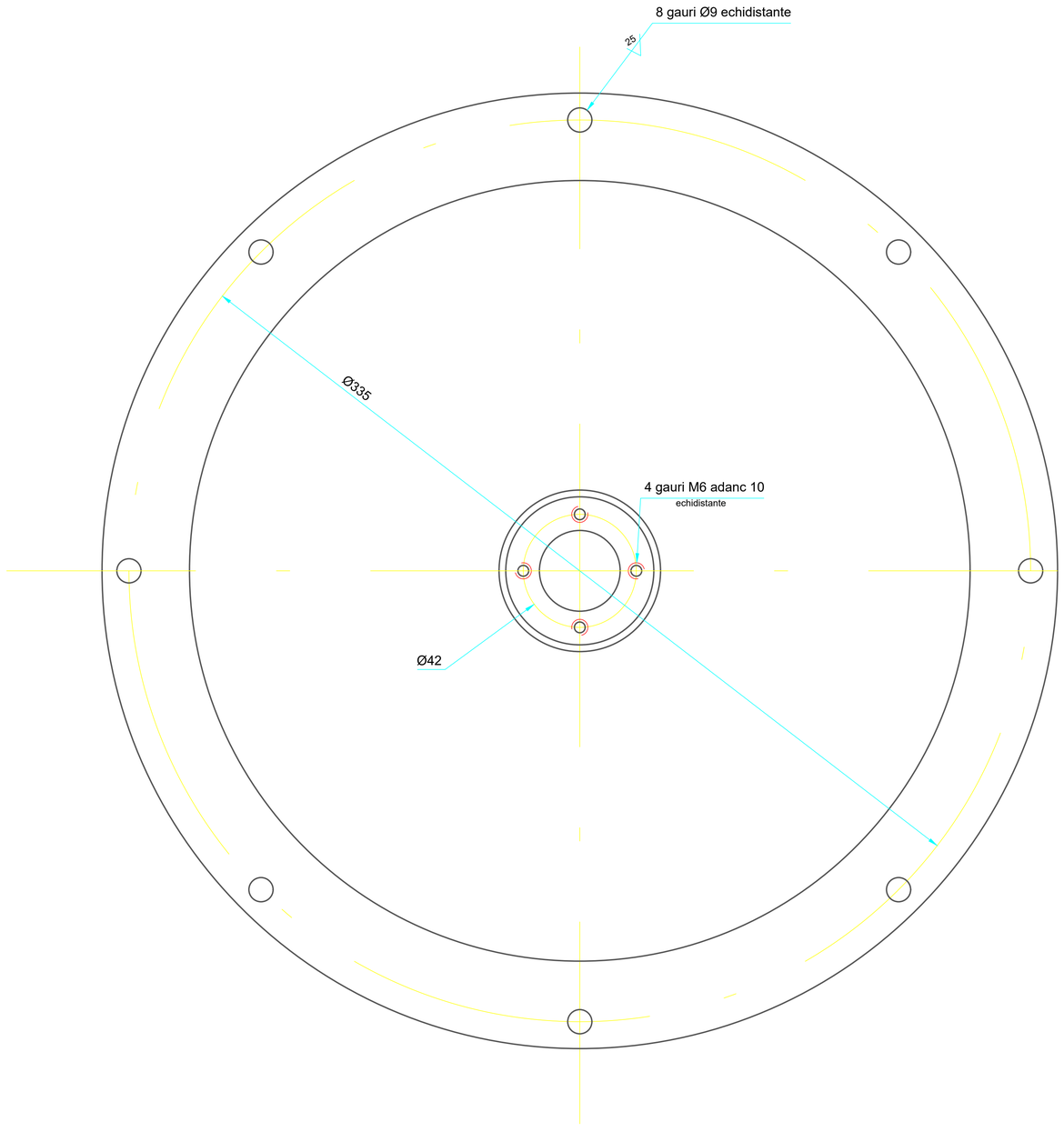

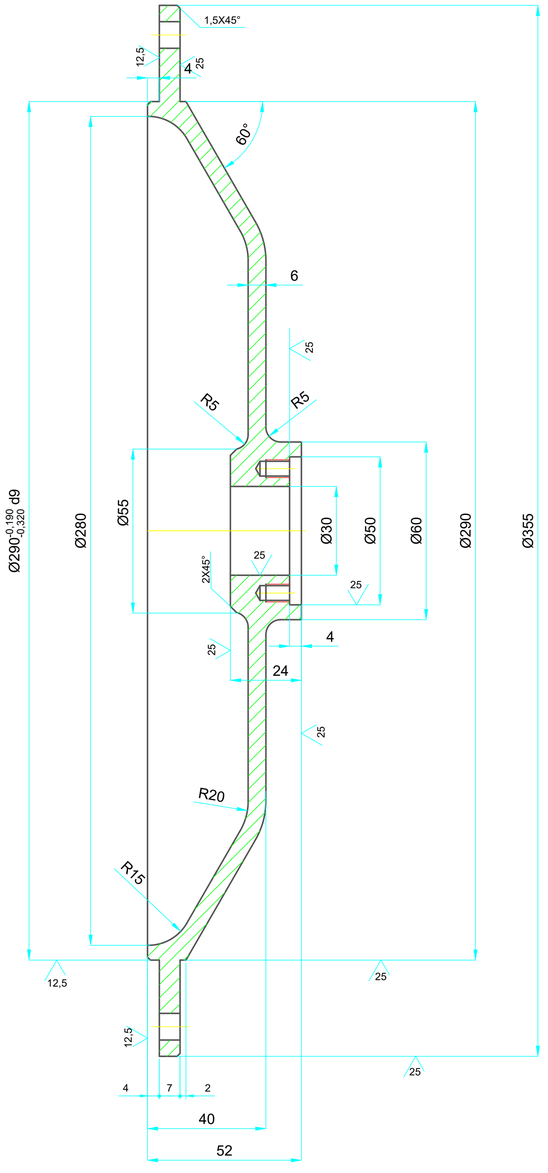

CONDITII TEHNICE

- Piesa turnata va satisface conditiile tehnice din STAS 568-82
- Dupa debavurare si curatire piesa se va sabla.

Proiectat	Arhire Tiberiu	Fc 200 SR EN 1561:2012	
Desenat	Gheuca Cristina		
verificat	Baraga Constantin		
Aprobat	Tartian Nelu	Weight:5,330 kg	
1:1		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 classes B&F	
		Simboluri sudura: EN 22553	
Format:		Date: 03.02.2021	

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	
Proiect	
Desen	CAPAC

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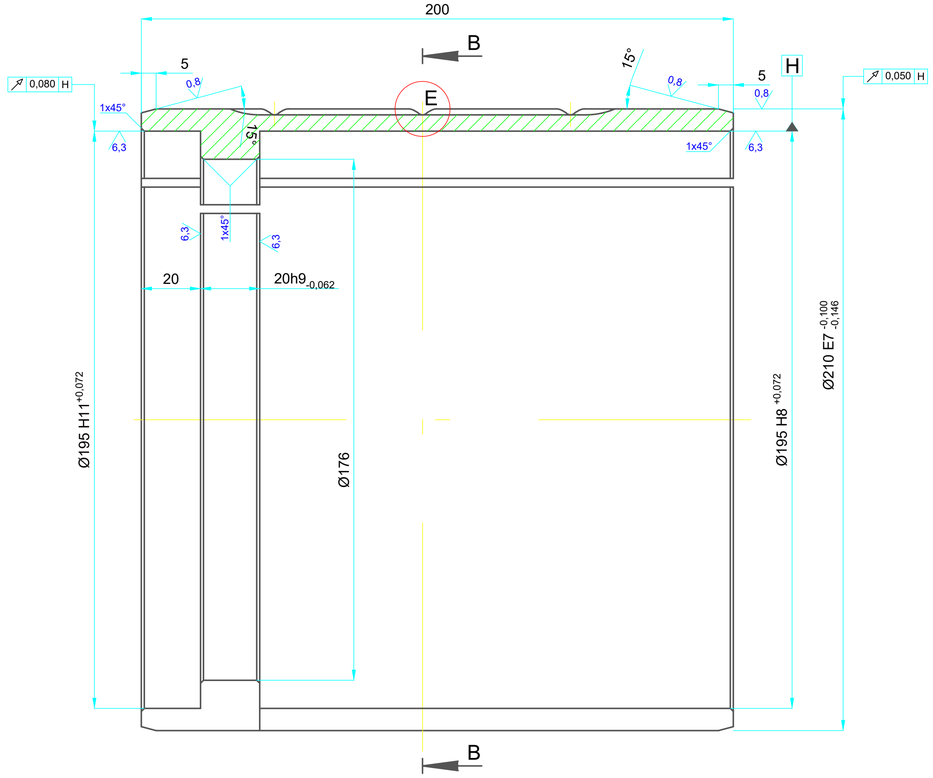
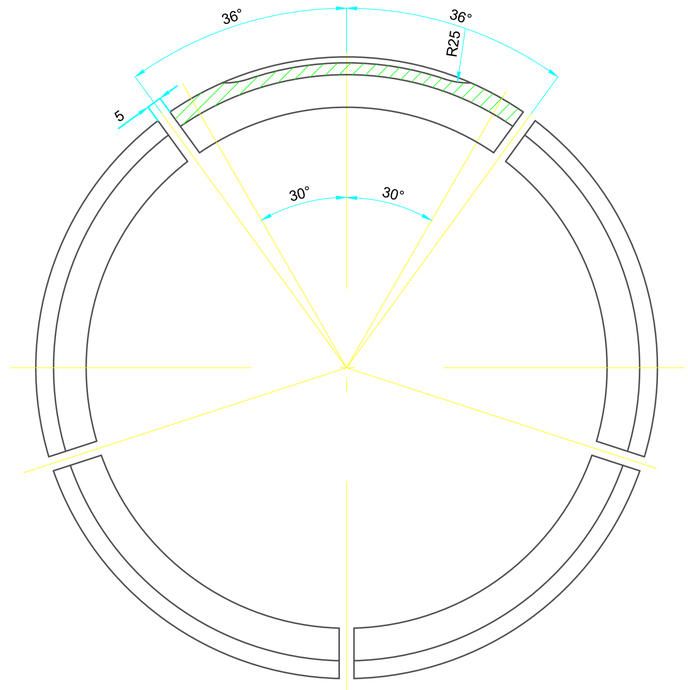
A - A



B- B



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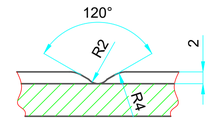

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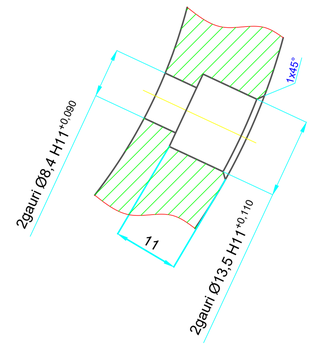

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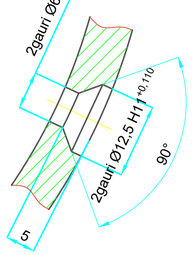
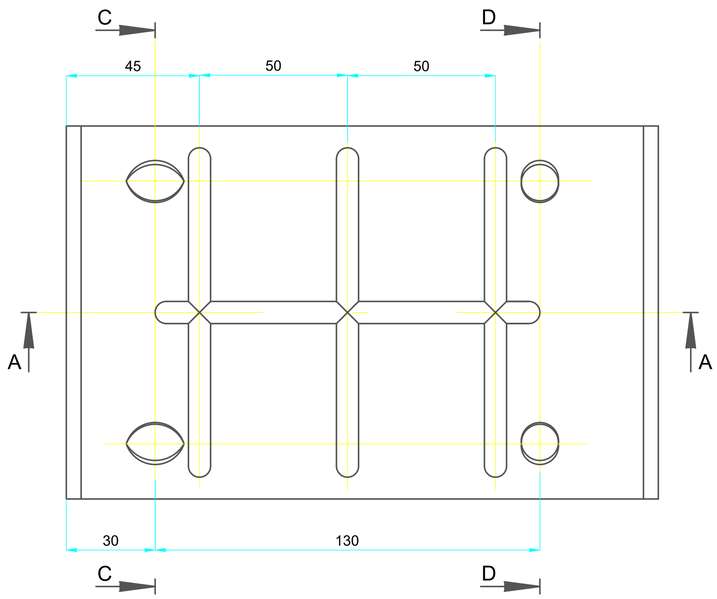
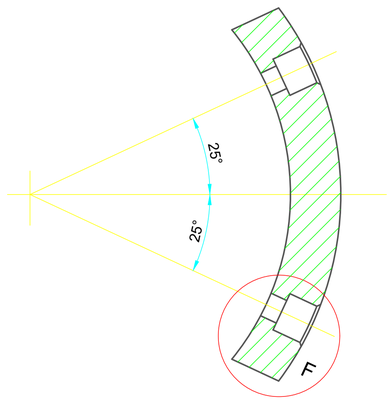
2:1

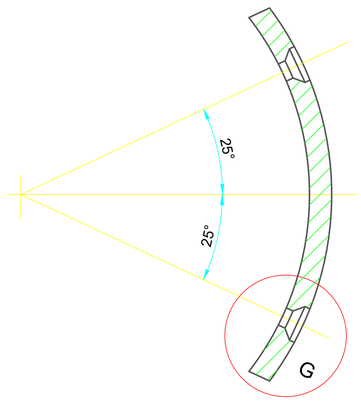




C - C



D - D



CONDITII TEHNICE

- Pe suprafata cilindrica Ø210 e7,nu se admit defecte de turnare;
- Pe celelalte suprafete se admit defecte de turnare negrupate daca adancimea lor nu depaseste 2mm, iar suprafata unui defect este de max.10mm^2;
- Numarul maxim de defecte :5.

12,5

Proiectat	Arhire Tiberiu	Cu Pb10 Sn10 SR EN 1982:2016	
Desenat	Baraga Cristina		
verificat	Balan Maria		
Aprobat	Tartian Nelu	Weight: 1,840 kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 classes B&F Simboluri sudura: EN 22553	
Format:		Date: 29.01.2021	

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	-
Proiect	
Desen	PATINA
Drawing No.	616.15 - 02.25.04
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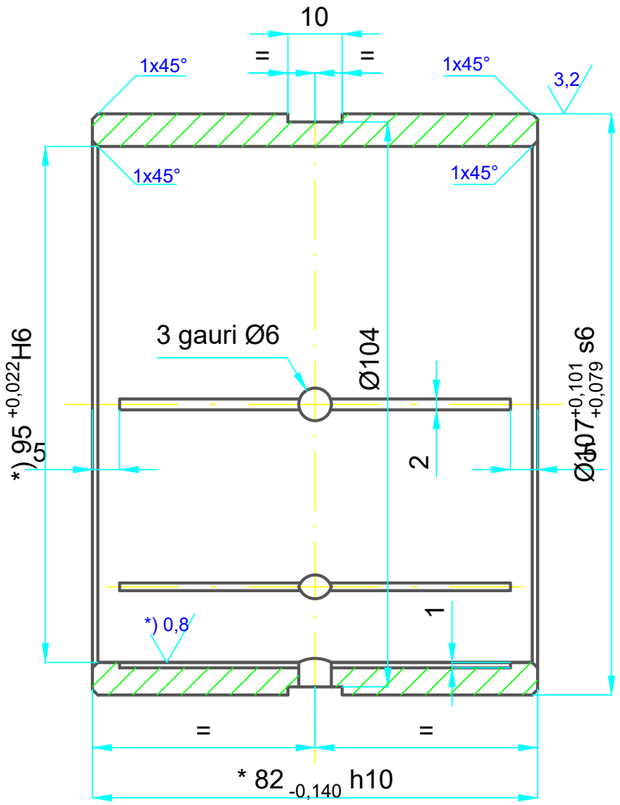
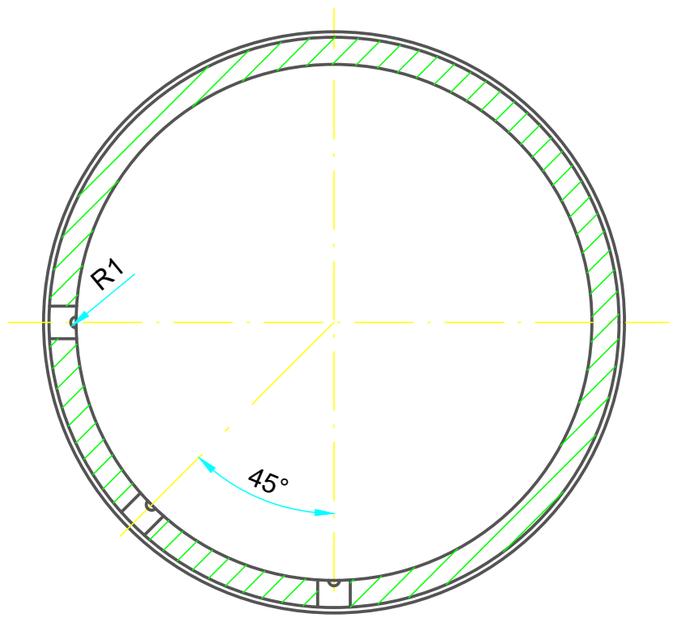




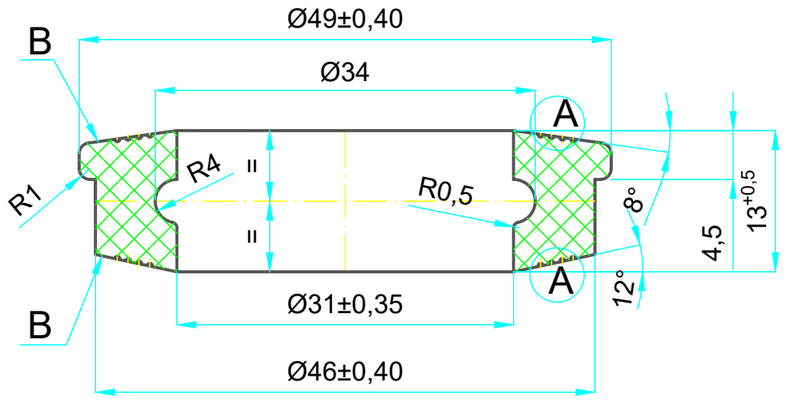
NOTA

Cotele marcate cu *) se vor executa dupa operatia de presare in corpul bielei.

12,5

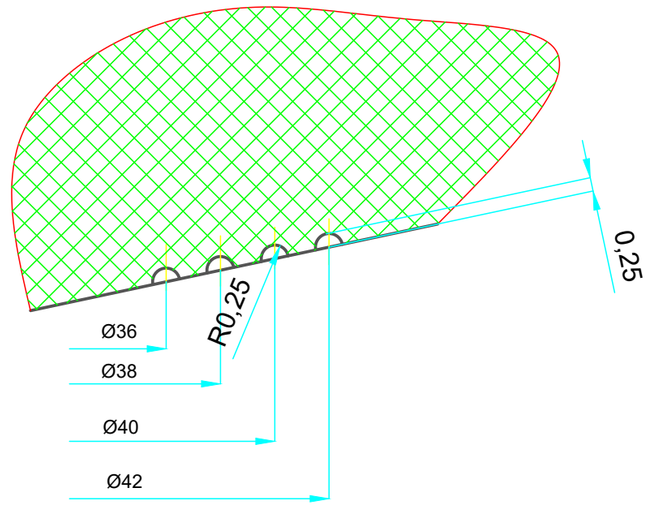
Proiectat	Tartian Nelu	CuPbSn10 SR EN 1982:2018	INCDIE ICPE-CA BUCURESTI / DEPARTAMENT IPCUP PLOIESTI
Desenat	Paiu Andreia		Client
Verificat	Balan Maria		Proiect
Aprobat	Cepisca C.	Greutate: 1,360 kg	Desen: BUCSA
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	Desen nr. 616.15-02.24.02.0 / Page: 1/1 / Rev. 0
Format: A3 (297x420)		Data: 27.01.2021	

2:1



A

10:1



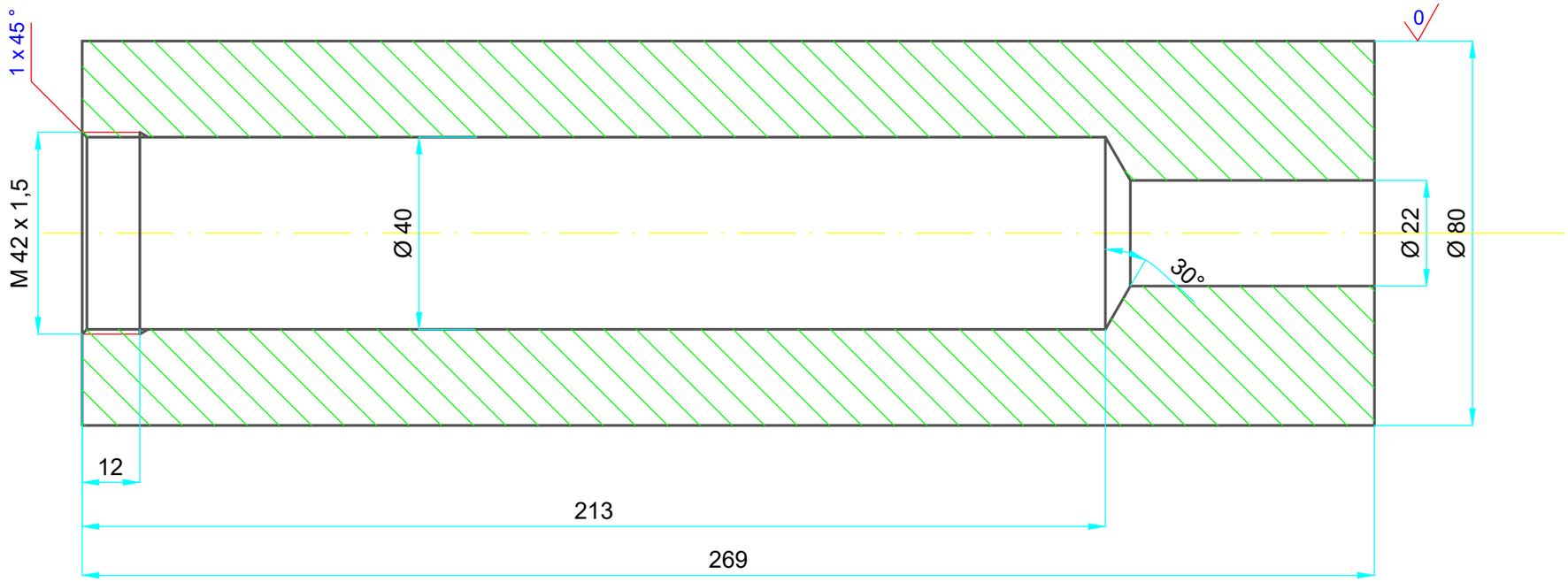
CONDITII TEHNICE

1.Mediul de lucru:pasta de ciment,noroide foraj,titei,fluide acide si bazice.
2.Temperatura de lucru: -45...+80°C.
3.Cotele netolerate se vor incadra in clasa de precizie P2 SR ISO 3302-1:2008.
4.Pe suprafetele de etansare "B" nu se admit bavuri,lipsa de material,impaturiri sau alte defecte care ar periclita buna functionare.
5.Garnitura se va executa din cauciuc tip NBR rezistent la -45°C si caracteristici fizico-mecanice conf. SR EN 682:2002/A1,CLASA PF-80A.
6.Garnitura se va marca cu un punct de culoare albastru deschis,conform STI 1/87.

Proiectat	Tartian Nelu	Cauciuc	
Desenat	Baraga Cristina		
Verificat	Baraga Constantin		
Aprobat	Cepisca C.	Greutate:0,013kg	
1:1		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 clasele B&F	
		Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 01.02.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----		
Proiect			
Desen	GARNITURA		
Desen nr.		Page:	Rev.
616.15-02.00.26.0		1/1	0



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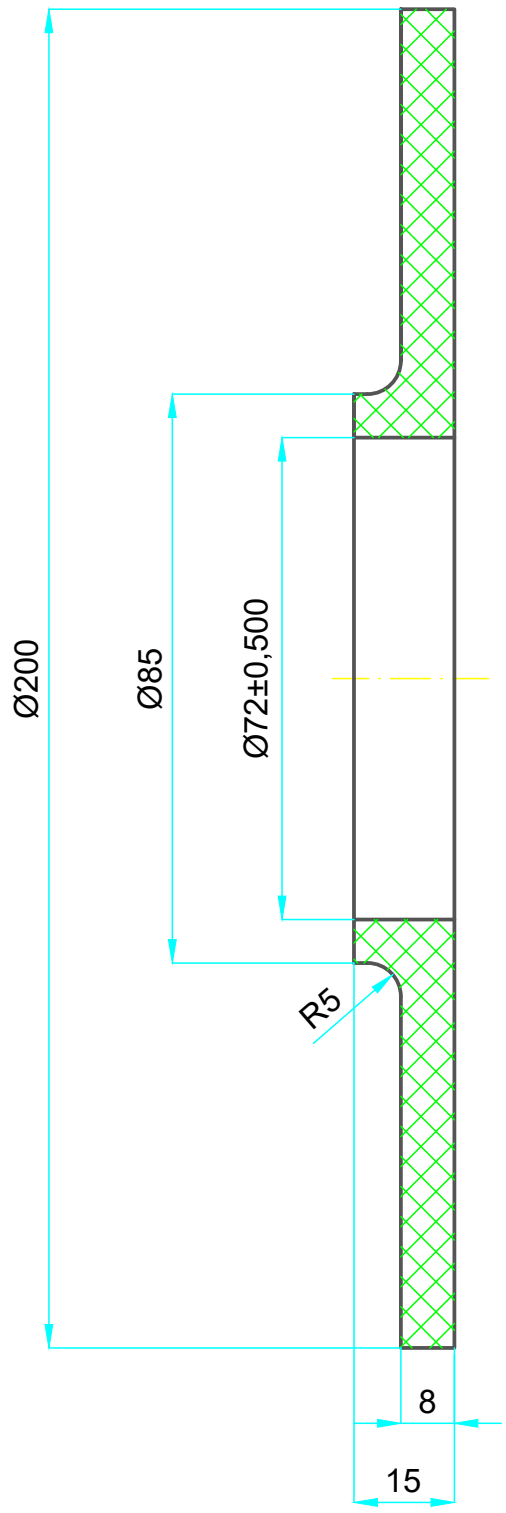
			INCDIE ICPE-CA BUCURESTI / DEPARTAMENT IPCUP PLOIESTI
Proiectat	Bolmoaga Sergiu	C45 E SR EN 10250/2:2002	Client: -----
Desenat	Daisa A.M.		Proiect:
Verificat	Baraga Constantin		Desen: CORP TIJA
Aprobat	Arhire Tiberiu	Greutate: 6,509 kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	Desen nr. 616.15-02.27.01.0 / Page: 1/1 / Rev. 0
Format: A3 (297x420)		Data: 11.01.2021	



Proiectat	Tartian Nelu	Cauciuc PF 80 A SR EN 682:2002/A1:2006	
Desenat	Daisa A.M.		
Verificat	Munteanu Silvia		
Aprobat	Arhire Tiberiu	Greutate: 0,230 kg	
1:1		Unitate masura: mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 01.02.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	
Desen	DISC PROTECTOR

Desen nr.	Page:	Rev.
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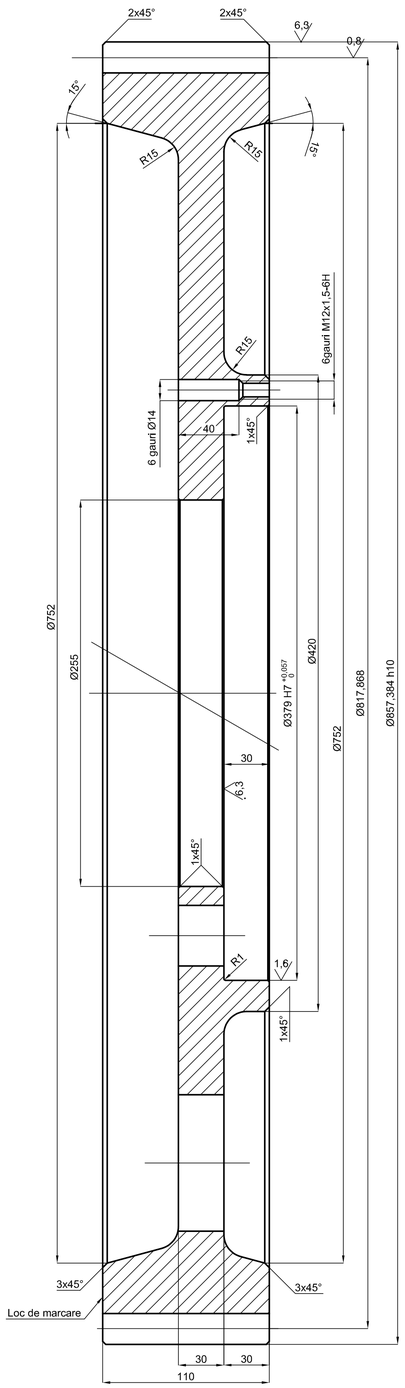
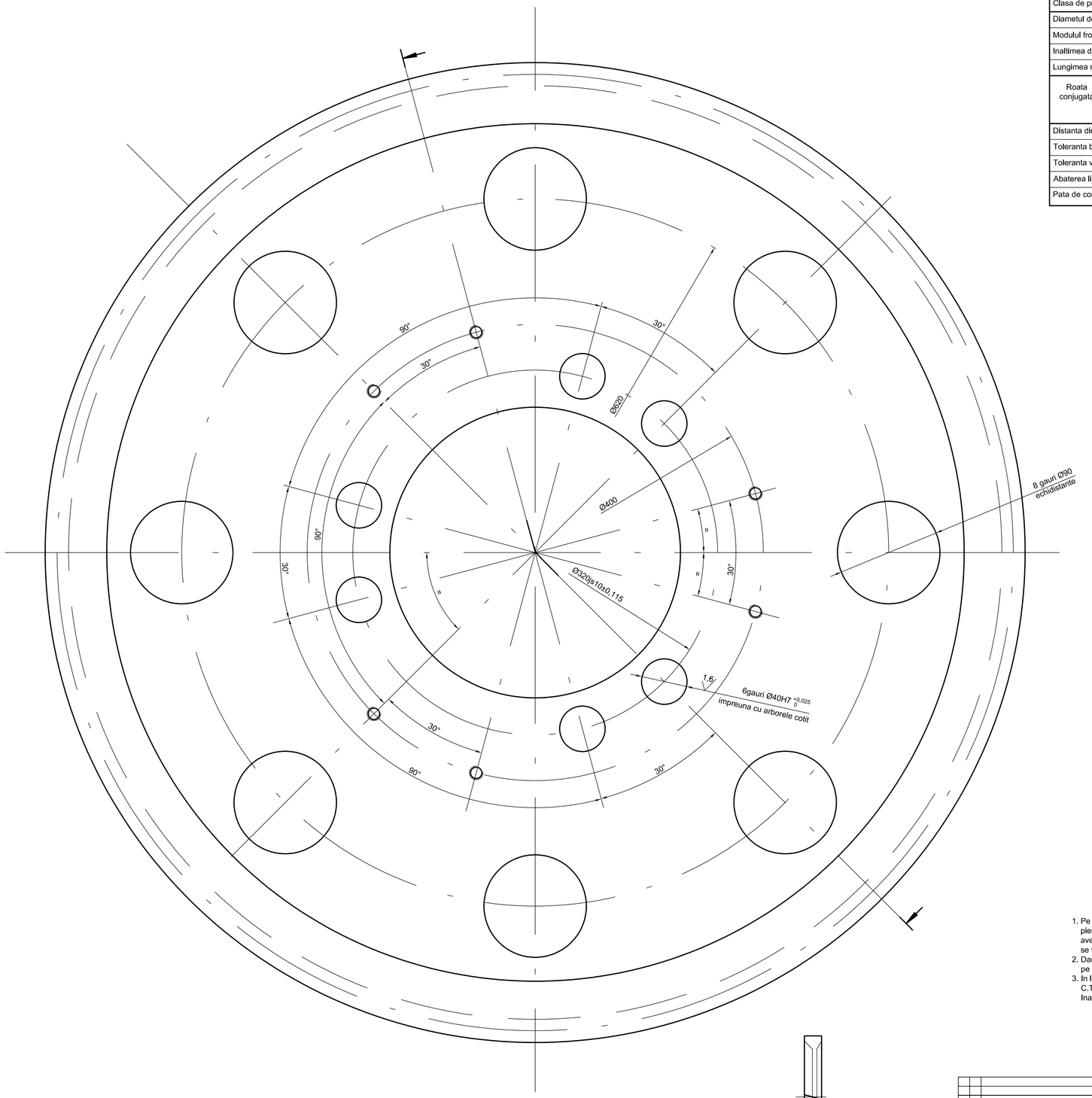
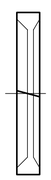
Numarul de dinti		z	79
Modulul normal		m_n	10
Unghiul de inclinare de divizare		B_d	15°
Sensul inclinarii dintelui		-	dreapta
Cremaliera de referinta		α_{on} - fon won	20°-1-0,25
Deplasarea specifica normala a profilului		ξ_n	1,121
Clasa de precizie si jocul		-	7B
Diametul de divizare		D_d	817,868;573
Modulul frontal		m_t	10,352
Inaltimea dintelui (informativ)		h	21,046
Lungimea normala peste 10dinti		L_{-12}	359,378 $^{-0,280}_{-0,46}$
Roata conjugata	numarul desenului	-	616.15-04.00.01.0
	numarul de dinti	z	14
	deplasarea specifica a profilului	ξ	0,6
Distanta dintre axe		A	497±0,120
Toleranta bataii radiale		F_r	0,090
Toleranta variatiei lungimii peste dinti		F_{vw}	0,100
Abaterea limita a pasului frontal		f_{pt}	±0,085
Pata de contact	- pe inaltimea dintelui - pe lungimea dintelui	P_c	45% 60%





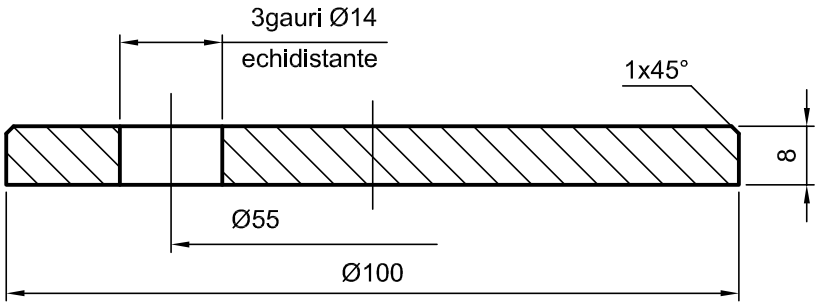


CONDITII TEHNICE

1. Pe probe martor ale sarjei si lotului de tratament termic,pentru piesele forjate se determina caracteristicile mecanice care vor avea valorile minime conform STAS 11512 - 91, si suplimentar se va verifica energia de rupere care va avea valoarea KV (-40°C) = 28J;
2. Dantura se va cementa sau carbonitrura la duritatea 59 ÷ 63HRC, pe adancimea 1,8±0,2mm;
3. In locul indicat se va marca prin poansonare: Z=81,nr.cod, poanson C.T.C.
   Inaltimea cifrelor : 5mm.

25

				INCDIE ICPE-CA BUCURESTI	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		18MoNiCr17(17CrNiMo6) STAS 11512-91	Client	-
Desenat	E. Toparceanu			Proiect	Pompa triplex cu plungere 3PP- 400
verificat	ing. S. Fica			Desen	ROATA Z=81
Aprobat	ing. G. Marin		Weight:185,00 kg	Drawing No.	Pag: / Rev.
1:2		Unitate masura:mm Tolerante generale: EN ISO 13920 clasees B&F Simboluri sudura: EN 22553		616.15 - 04.00.15.0	1/1 / 0
Format: A1(594x841)		Date:			



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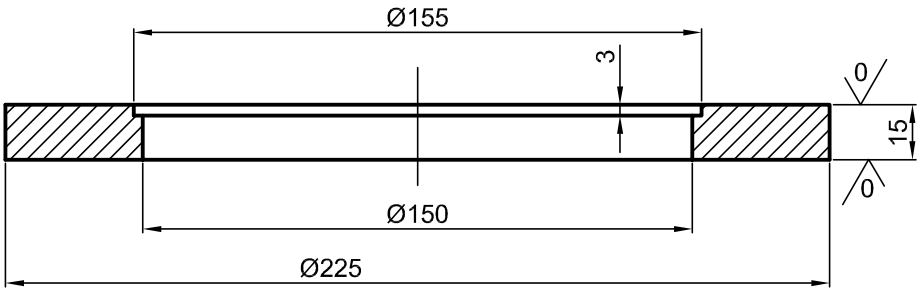
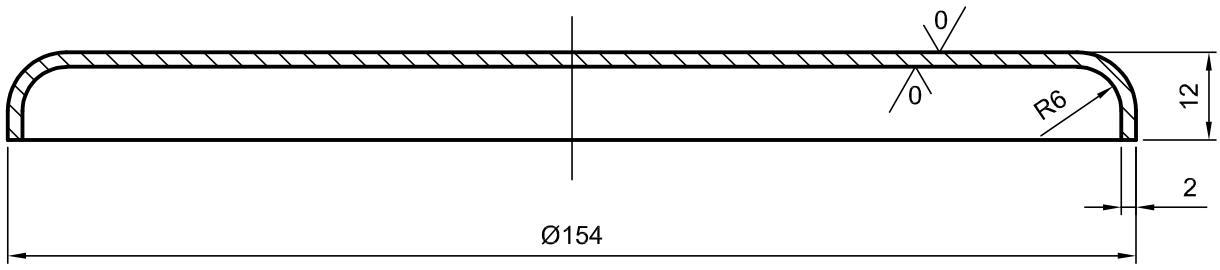
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,464kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

Client	------		
Proiect	Pompa triplex cu plungere 3PP - 700		
Desen	SAIBA DE FIXARE		
Desen nr.		Page:	Rev.
616.15 - 04.00.03.0		1/1	0



25

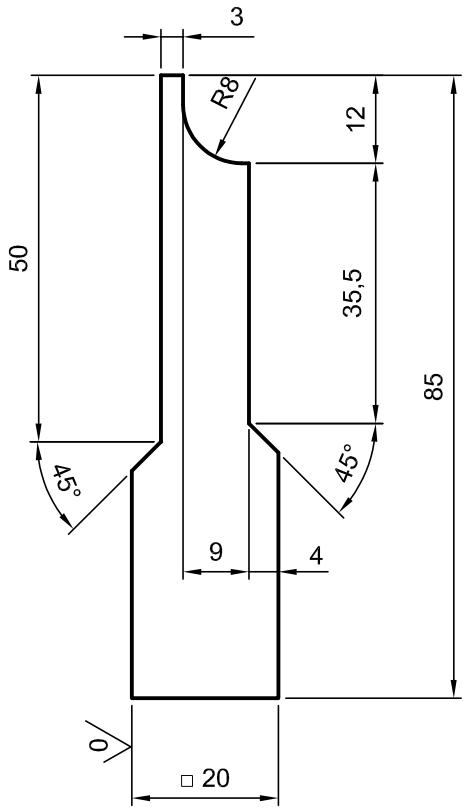
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S235J2 SR EN 10025-2:2019	Client: ------
Desenat	E. Toparceanu			Proiect: Pompa triplex cu plungere 3PP -700
Verificat	ing. S. Fica			Desen: FLANSA
Aprobat	ing. G. Marin		Greutate: 1,230kg	Desen nr.: 616.15- 04.04.01.0
1:2		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Page: 1/1
Format: A4 (210x297)		Data:		Rev. 0



25

			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S235J2 SR EN 10025-2:2019	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,380kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

Client	------		
Proiect	Pompa triplex cu plungere 3PP - 700		
Desen	CAPAC		
Desen nr.		Page:	Rev.
616.15 - 04.04.02.0		1/1	0



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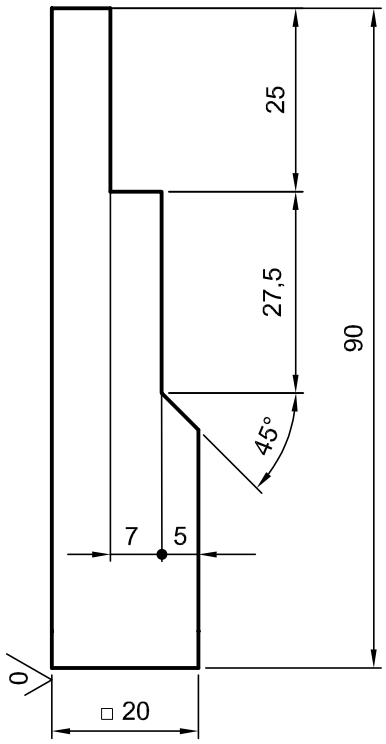
			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S235J2 SR EN 10025-2:2019	
Desenat	E. Toparceanu			Client: ------
Verificat	ing. S. Fica			Proiect: Pompa triplex cu plungere 3PP - 700
Aprobat	ing. G. Marin		Greutate: 0,200kg	Desen: MUFA
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Desen nr. 616.15 - 04.04.03.0 / Page: 1/1 / Rev. 0
Format: A4 (210x297)		Data:		



25

INCDIE ICPE- CA Bucuresti

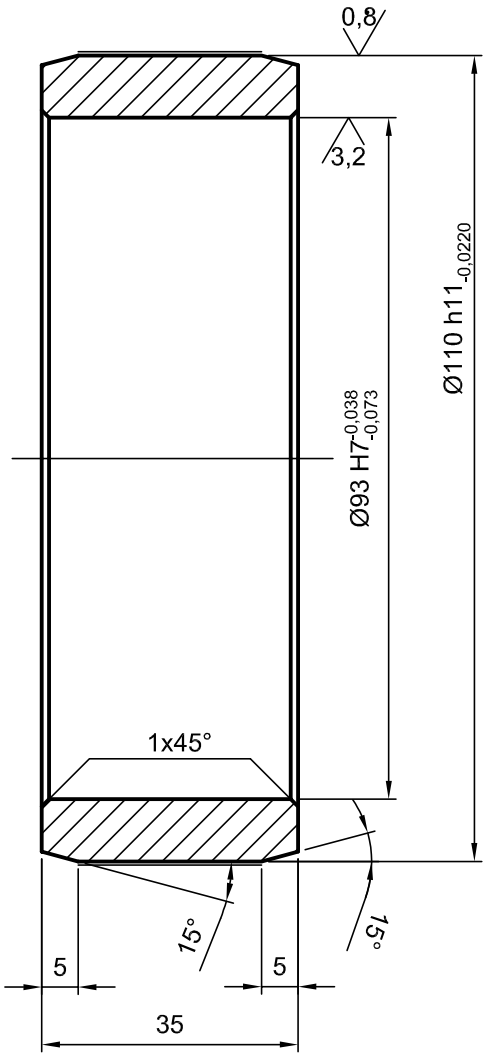
DEPARTAMENT IPCUP PLOIESTI

Proiectat	ing. S. Tudor		S235J2 SR EN 10025-2:2019
Desenat	E. Toparceanu		
Verificat	ing. S. Fica		
Aprobat	ing. G. Marin		Greutate: 0,200kg

1:1	Unitate masura:mm	
	Tolerante generale: SR EN ISO 13920 clasele B&F	
	Simboluri sudura:SR EN 22553	
Format: A4 (210x297)	Data:	

Client	------
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	MUFA

Desen nr.	Page:	Rev.
616.15 - 04.07.02.0	1/1	0



CONDITII TEHNICE

1. Suprafata marcata cu _._._._._._._ se va croma dur AE - Cr U2 / STAS 7978 - 88, dupa o prealabila calire prin CIF la duritatea 56±2HRC;
2. Materialul de inlocuire : C45 SR EN 683-1:2018.

6;3

Teava 114x14 STAS 404/1 -87.

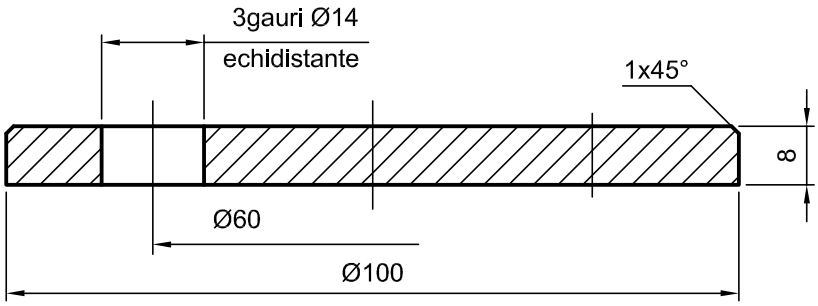
Proiectat	ing. S. Tudor		OLT 65 SR EN ISO 11961:2009	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,745kg	
1:1		Unitate masura:mm		
		Tolerante generale: SR EN ISO 13920 clasele B&F		
		Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	BUCSA

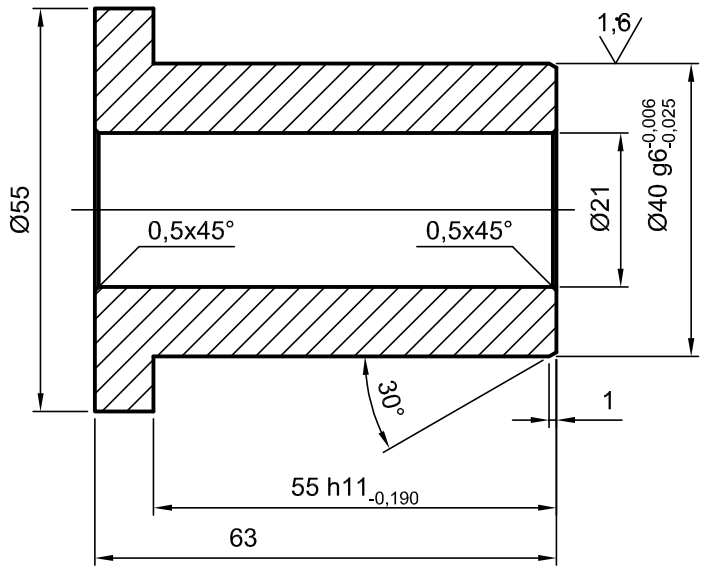
Desen nr.	Page:	Rev.
616.15 - 04.00.11.0	1/1	0



25

			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,464kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

Client	------		
Proiect	Pompa triplex cu plungere 3PP - 700		
Desen	SAIBA DE FIXARE		
Desen nr.		Page:	Rev.
616.15 - 04.00.12.0		1/1	0



25

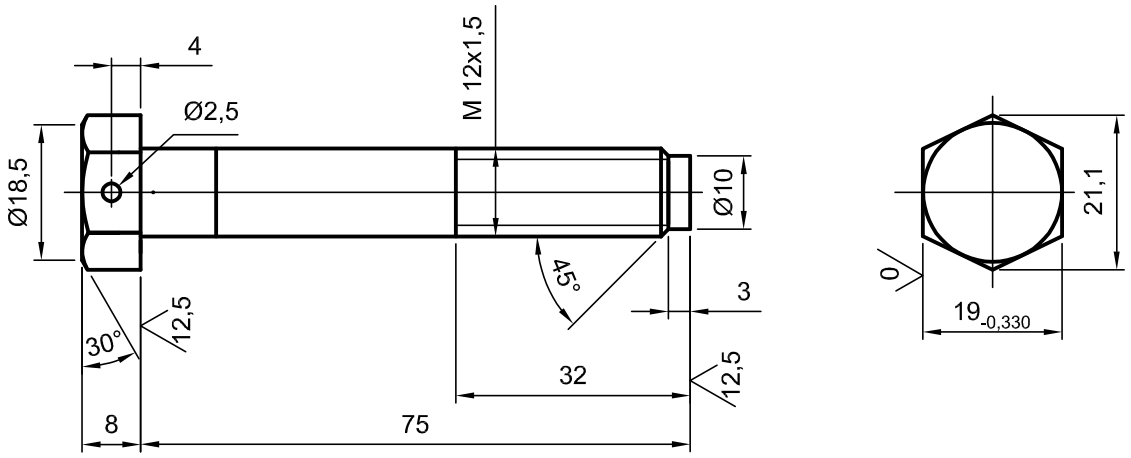
Proiectat	ing. S. Tudor		42CrMo4 SR EN 10250-3:2002	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,520kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	BUCSA

Desen nr.	Page:	Rev.
616.15 - 04.00.16.0	1/1	0

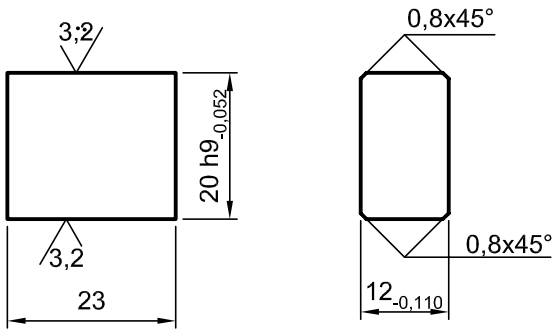


NOTA

Protectie: AE / OL / Cd 12 FL STAS 7222 - 90.

25

				INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		C25 SR EN 683-1:2018	Client	------
Desenat	E. Toparceanu			Proiect	Pompa triplex cu plungere 3PP - 700
Verificat	ing. S. Fica			Desen	SURUB SPECIAL M 12x75
Aprobat	ing. G. Marin		Greutate: 0,083kg	Desen nr.	Page: / Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		616.15 - 04.00.19.0	1/1 / 0
Format: A4 (210x297)		Data:			

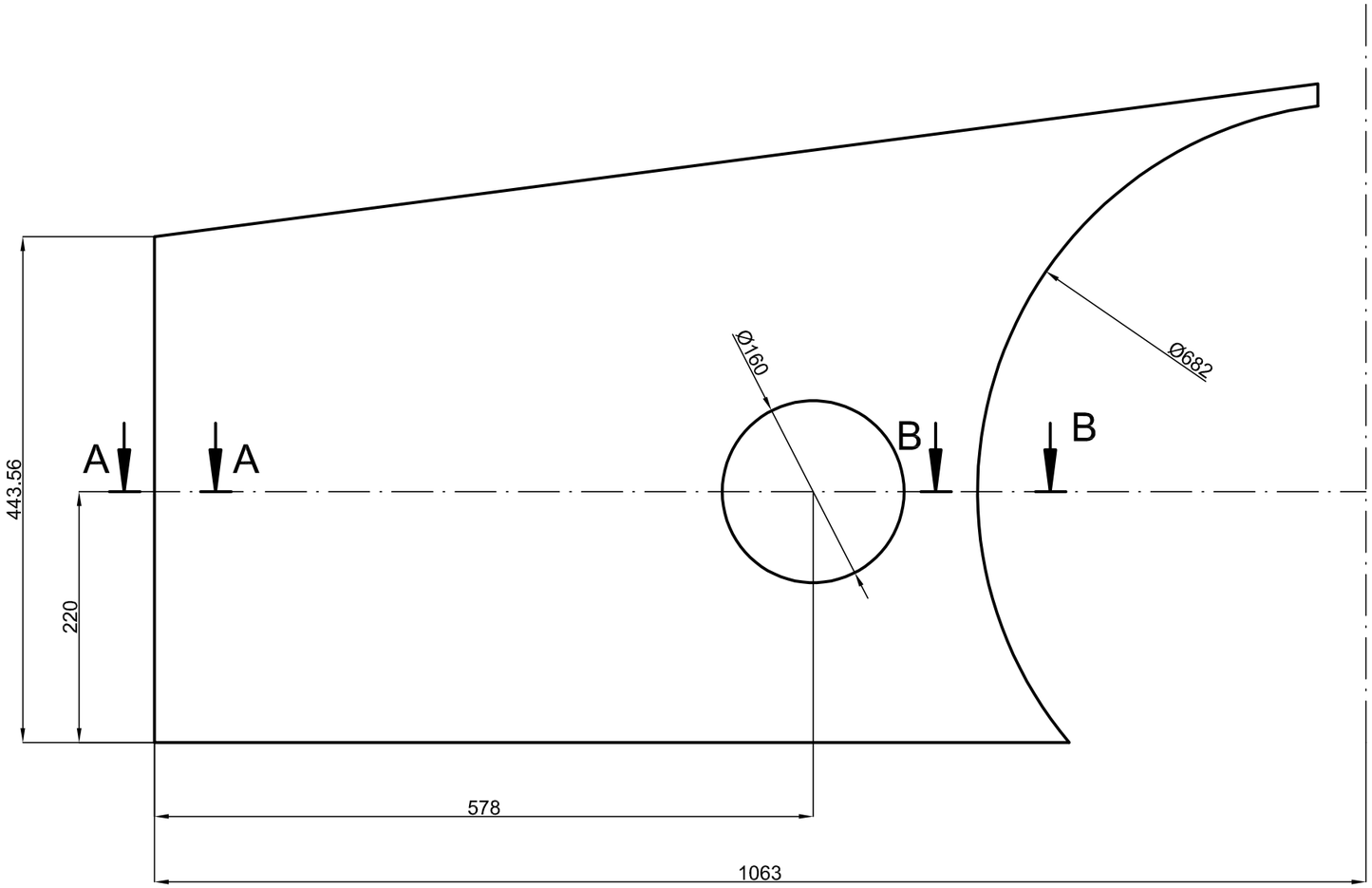


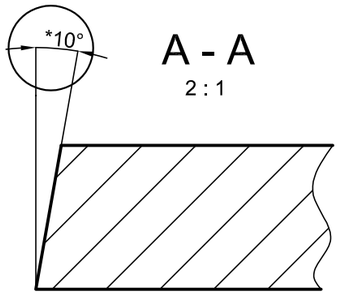
12,5

			INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		C45 SR EN 683-1:2018	
Desenat	E. Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Greutate: 0,043kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data:		

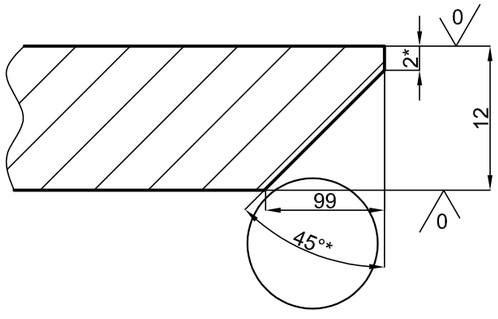
Client	------
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	PANA 20x12x23

Desen nr.	Page:	Rev.
616.15 - 04.00.20.0	1/1	0





A - A
2 : 1



B - B
2 : 1

N O T A

Cotele marcate cu *) se vor executa:
- la 1 buc. dreapta
- la 1 buc. stanga

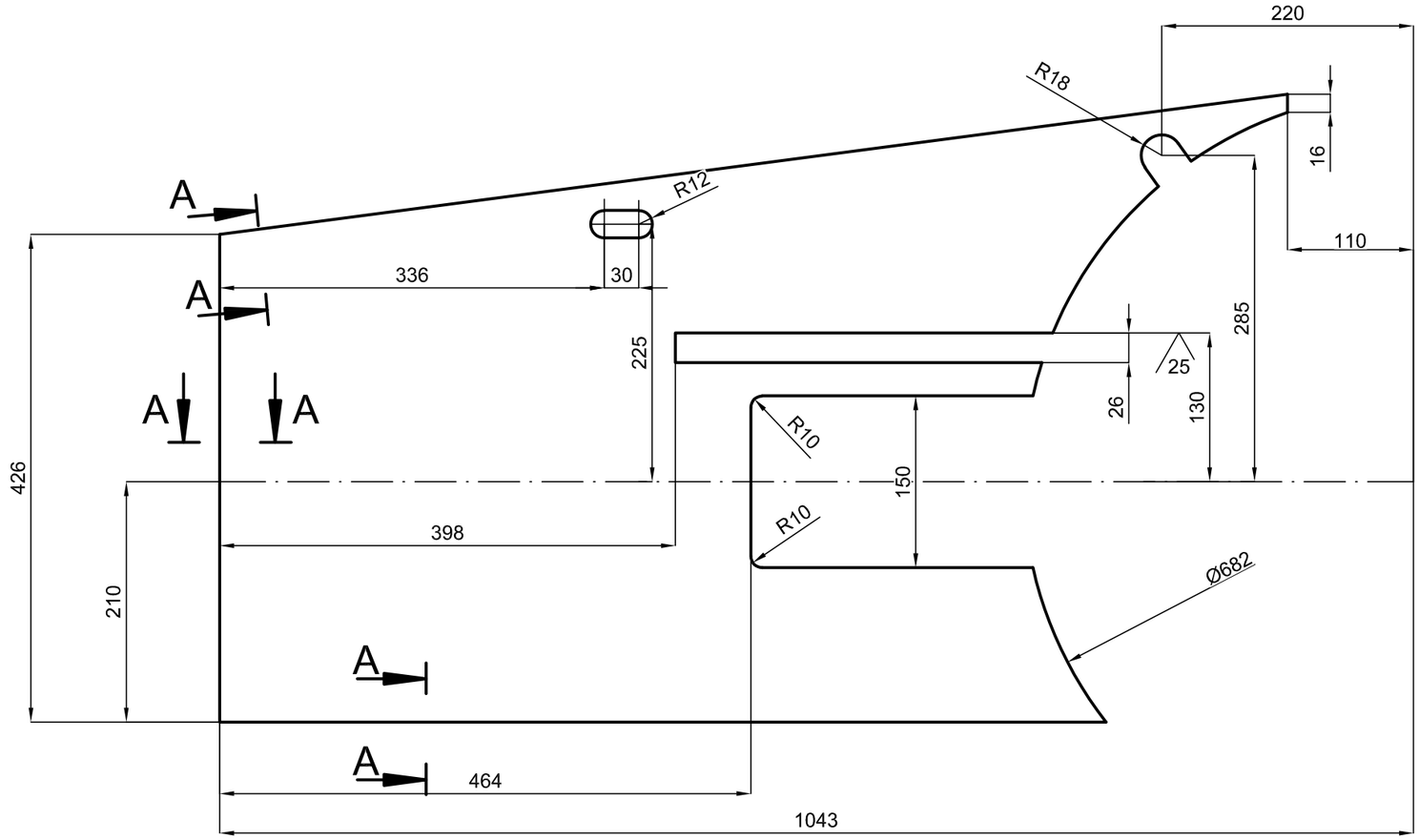
50

Proiectat	ing.S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	H. Moscaliuc			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 33,243kg	
1:5		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A3 (297x420)		Data: 06.05.2021		

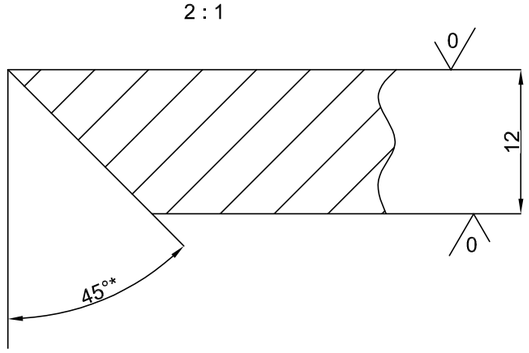
INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	PERETE LATERAL Frema

Desen nr.	Page:	Rev.
614.92 - 01.01.02.0	1/1	0



A - A
2 : 1



NOTA

Cota marcata cu *) se va executa:
- la 1 buc. dreapta
- la 1 buc. stanga

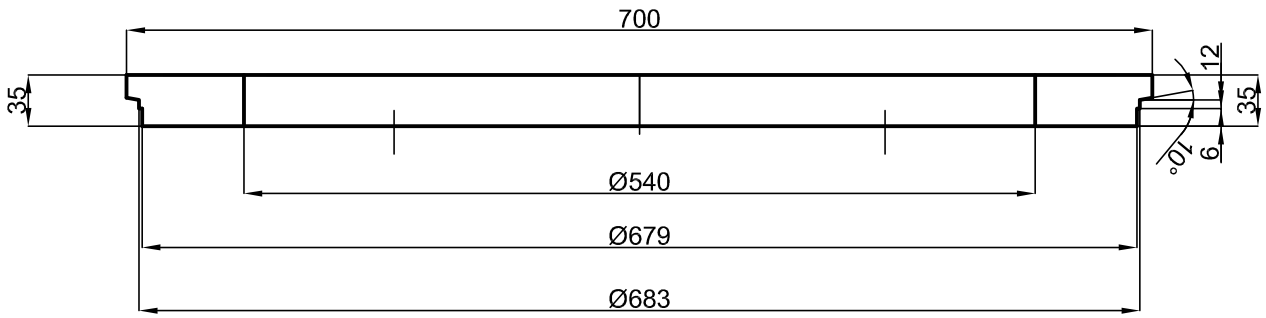
50

Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	ing. H.Moscaliuc			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 29,016kg	
1:5		Unitate masura:mm		
		Tolerante generale: EN ISO 13920 clasele B&F		
		Simboluri sudura: EN 22553		
Format: A3 (297x420)		Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	PERETE INTERMEDIAR Frema

Desen nr.	Page:	Rev.
614.92 - 01.01.03.0	1/1	0



N O T A

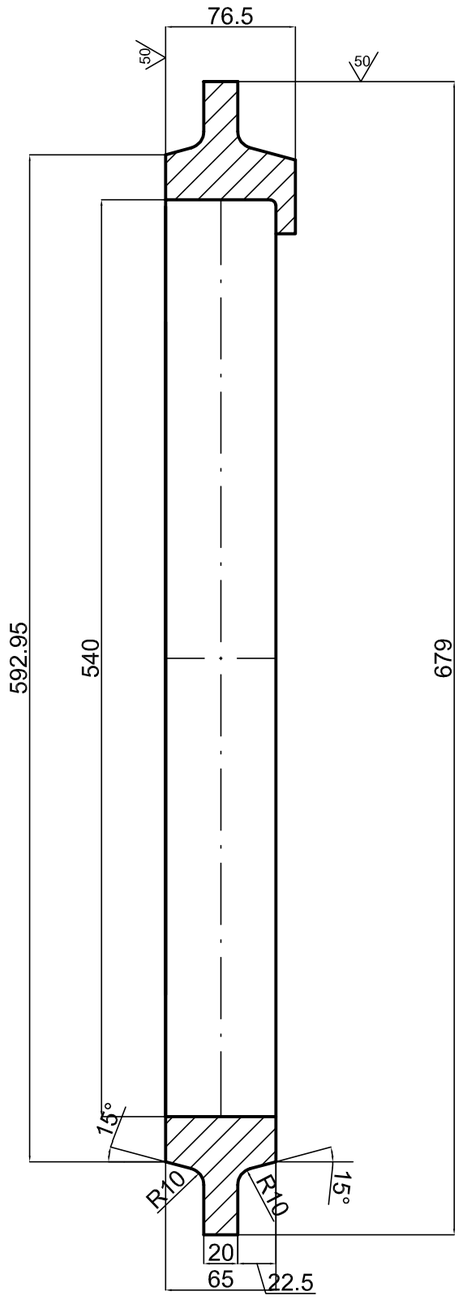
Masa neta indicata este in stare prelucrata
in cadrul fremei.

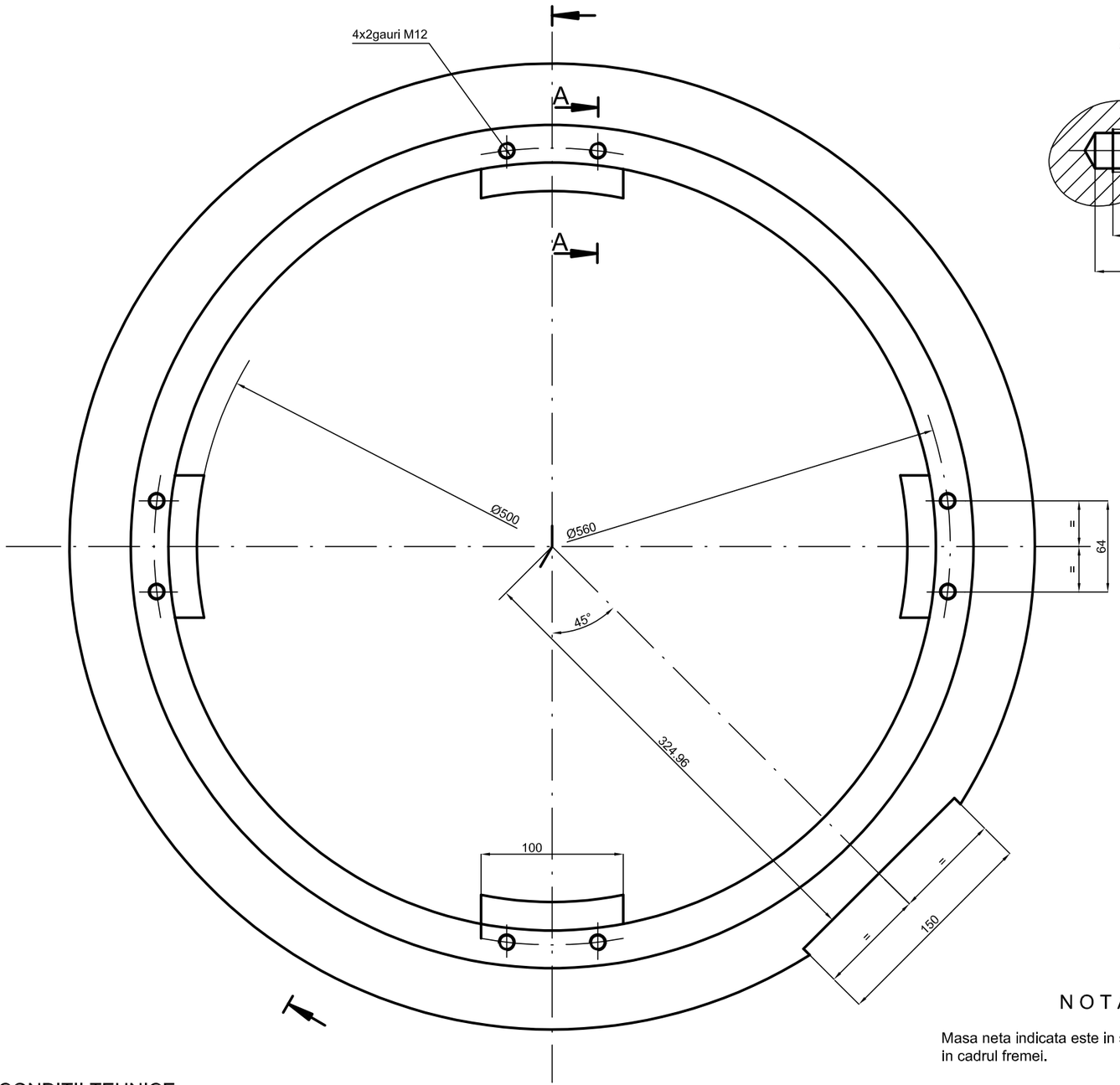
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	ing. H. Moscaliuc			
Verificat	Dr.ing. S.Fica			
Aprobat	Dr.ing. G.Marin		Greutate: 30,100kg	
1:5		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

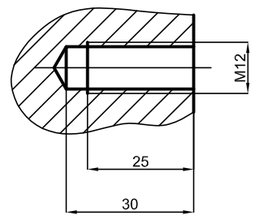
INCDIE CPE- CA Bucuresti
DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	INEL LATERAL Frema

Desen nr.	Page:	Rev.
614.92 - 01.01.04.0	1/1	0







CONDITII TEHNICE

1. Dupa debavurare si curatire piesa se va sabla.
2. Se admite repararea prin sudare a defectelor de turnare, inainte de tratamentul termic, daca adancimea lor nu depaseste 50% din grosimea piesei in zona reparata. Nu sunt restrictii privind suprafata defectului. Nu se admit defecte de turnare grupate.
3. Pe suprafetele prelucrate se admit defecte de turnare negrupate, cu adancimea de max. 2 mm si suprafetele de max. 4 mm².

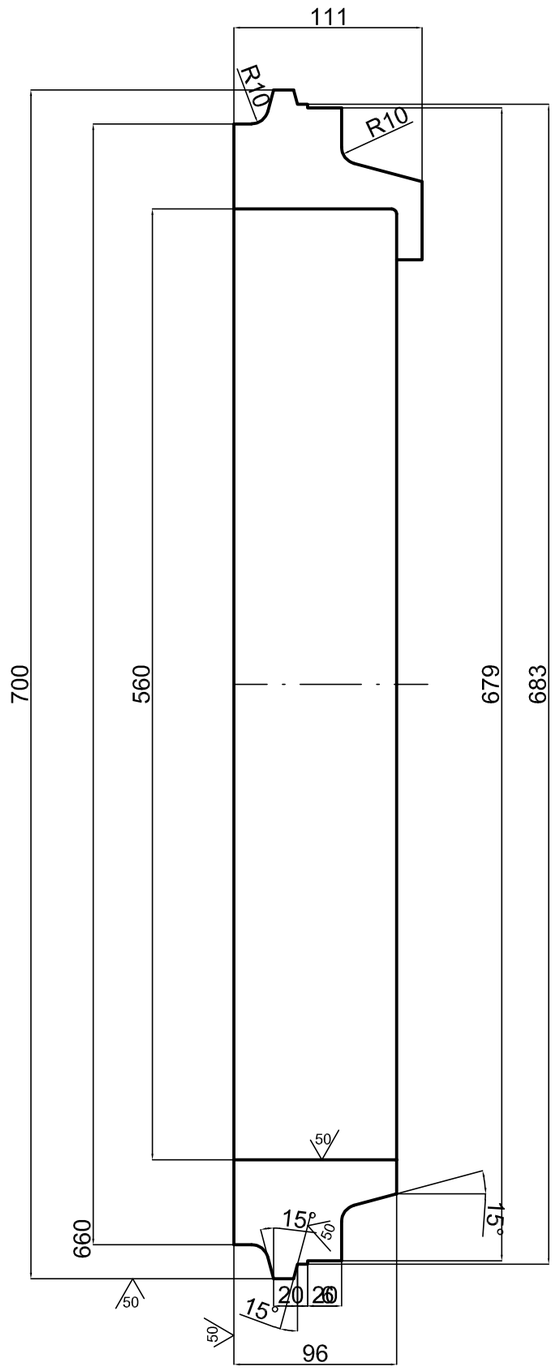
NOTA

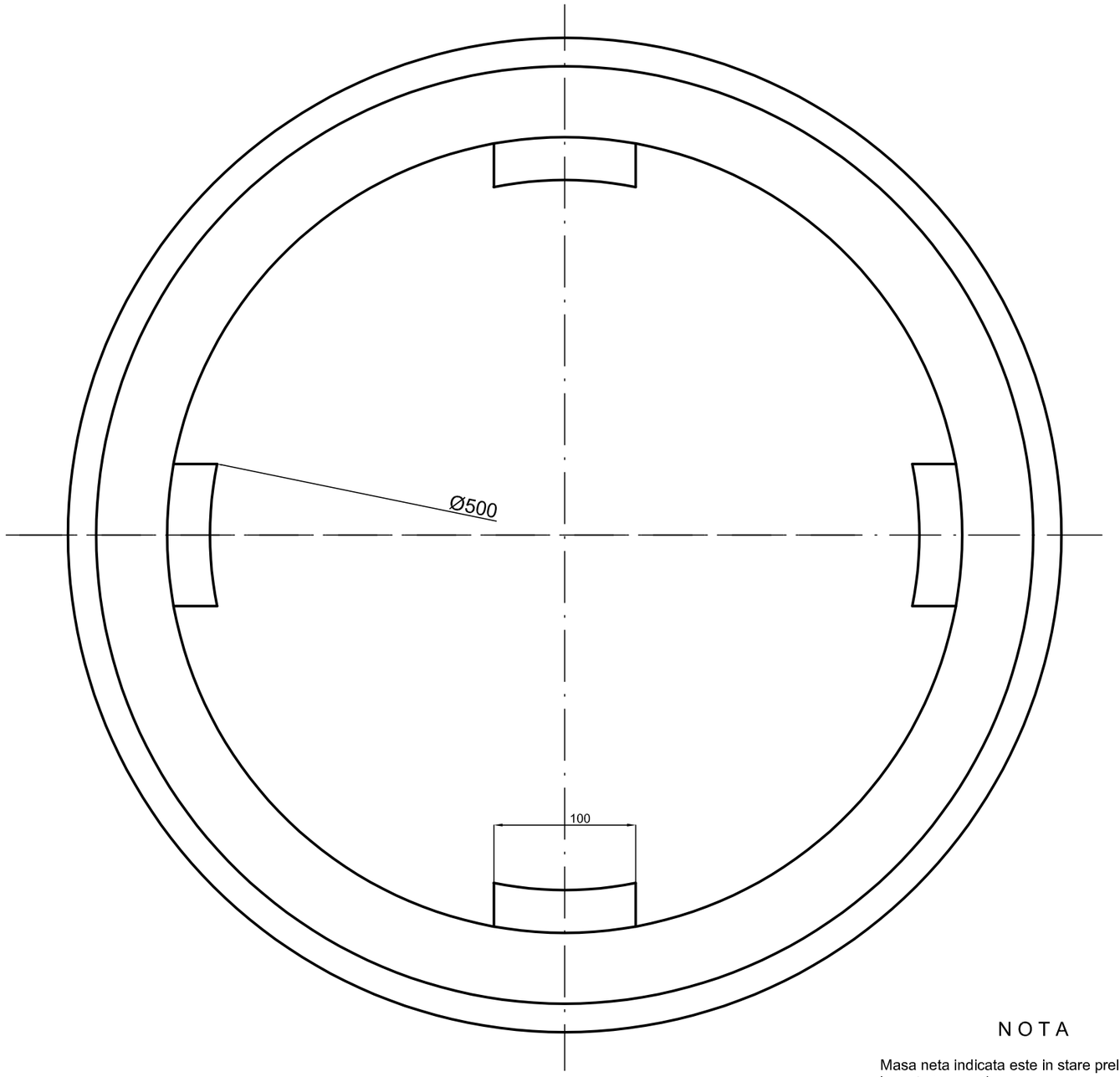
Masa neta indicata este in stare prelucrata in cadrul fremei.

Proiectat	ing. S. Tudor		G32NiCrMo8-5-4
Desenat	ing. H.Moscaliuc		
Verificat	Dr.ing. S.Fica		
Aprobat	Dr.ing. G.Marin		Weight:38,550 kg
1:2,5		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 clasele B&F	
		Simboluri sudura: EN 22553	
Format: A2 (420x594)		Data: 06.05.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	LAGAR INTERMEDIAR Frema
Desen nr.	614.92 - 01.01.05.0
Page:	1/1
Rev.	0





NOTA

Masa neta indicata este in stare prelucrata
in cadrul pompei.

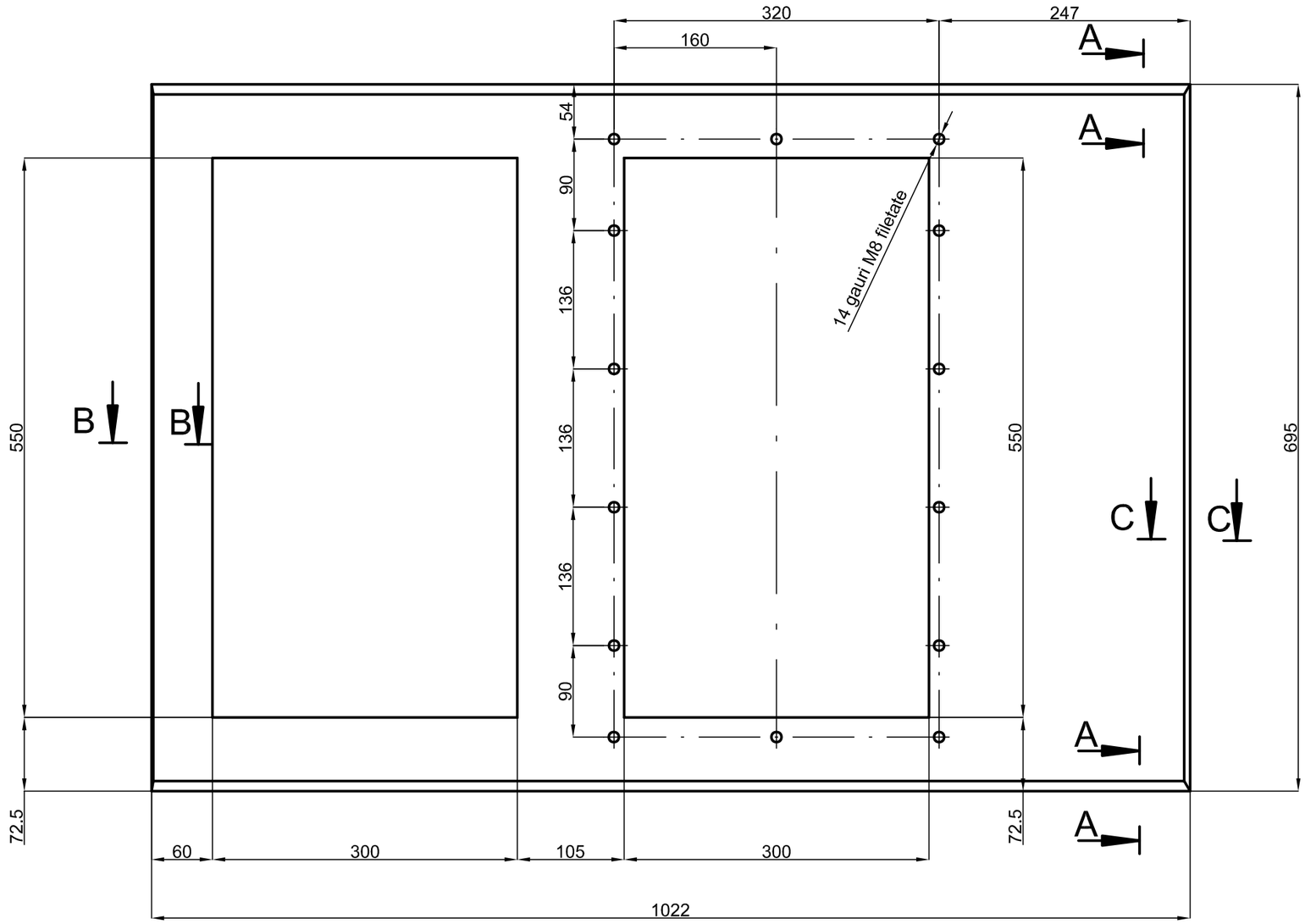
1. Dupa debavurare si curatire piesa se va sabla.
2. Se admite repararea prin sudare a defectelor de turnare, inainte de tratamentul termic, daca adancimea lor nu depaseste 50% din grosimea piesei in zona reparata. Nu sunt restrictii privind suprafata defectului. Nu se admit defecte de turnare grupate.
3. Pe suprafetele prelucrate se admit defecte de turnare negrupate, cu adancimea de max. 2 mm si suprafetele de max. 4 mm².

Proiectat	ing. S. Tudor		G32NiCrMo8-5-4
Desenat	ing. H. Moscaliuc		
Verificat	Dr.ing. S.Fica		
Aprobat	Dr.ing. G.Marin		Weight:83,022 kg
1:2,5	Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A2 (420x594)	Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

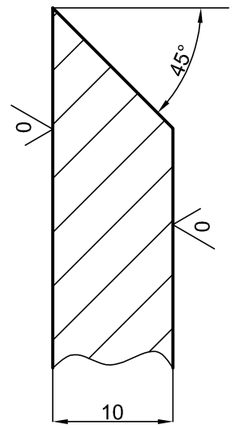
Client	----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	LAGAR LATERAL

Desen nr.	Page:	Rev.
614.92 - 01.01.06.0	1/1	0



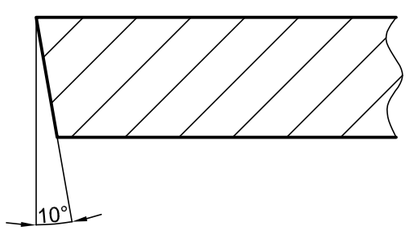
A - A

2 : 1



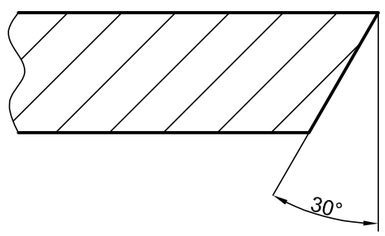
B - B

2 : 1



C - C

2 : 1



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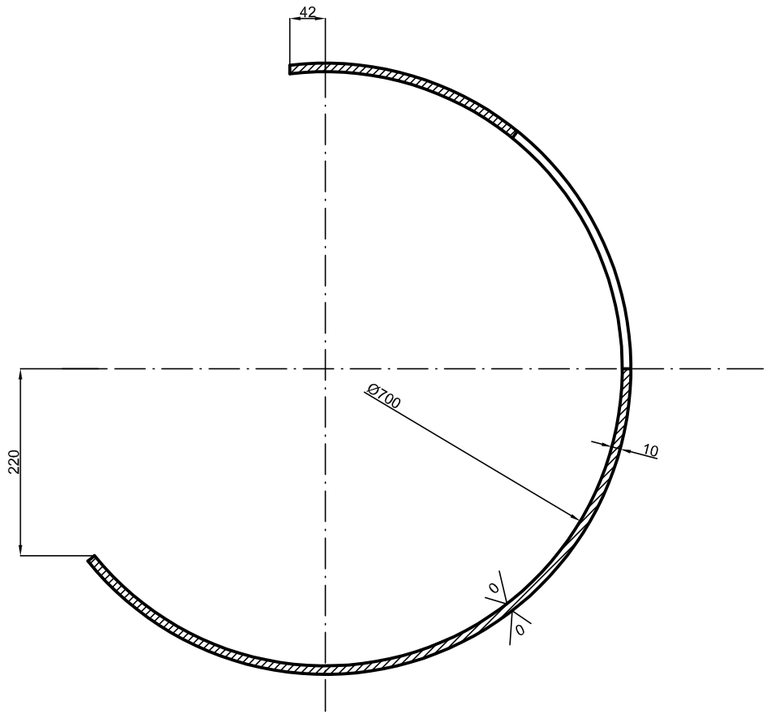
Proiectat	ing. S. Tudor		S 355 J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S.Fica			
Aprobat	Dr.ing. G.Marin		Greutate: 24,483kg	
1:5		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A3 (297x420)		Data: 06.05.2021		

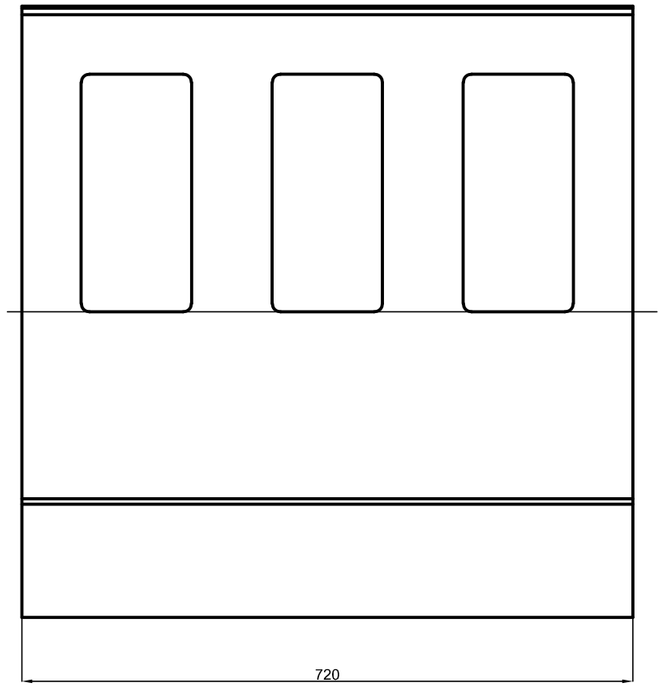
INCDIE ICPE-CA BUCURESTI

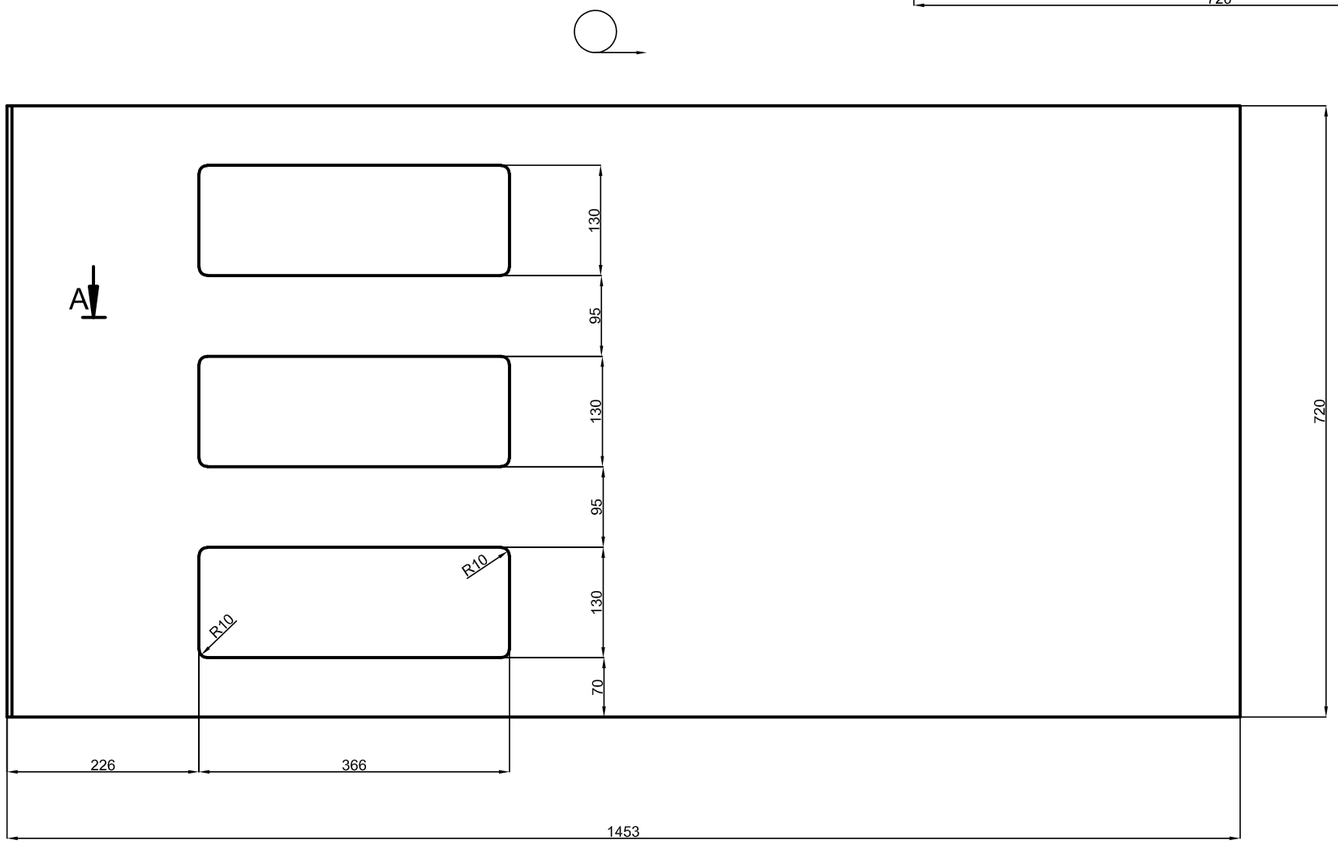
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	PERETE SUPERIOR

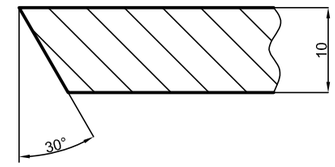
Desen nr.	Page:	Rev.
614.92 - 01.01.07.0	1/1	0







A - A
2 : 1



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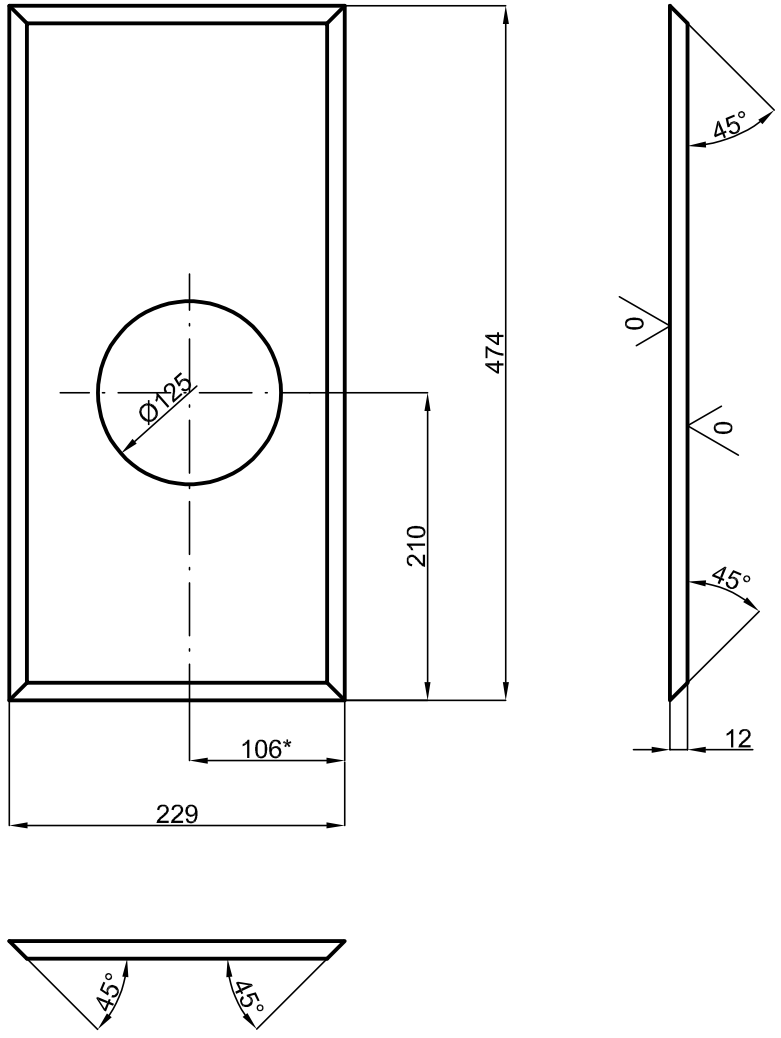
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S.Fica			
Aprobat	Dr.ing. G.Marin		Weight:68,066 kg	
1:5		Unitate masura:mm		
		Tolerante generale: EN ISO 13920 clasele B&F		
		Simboluri sudura: EN 22553		
Format: A2 (420x594)		Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	MANTA

Desen nr.	Page:	Rev.
614.92 - 01.01.08.0	1/1	0



N O T A

Cota marcata cu *) se va executa:
- la 1 buc. dreapta
- la 1 buc. stanga

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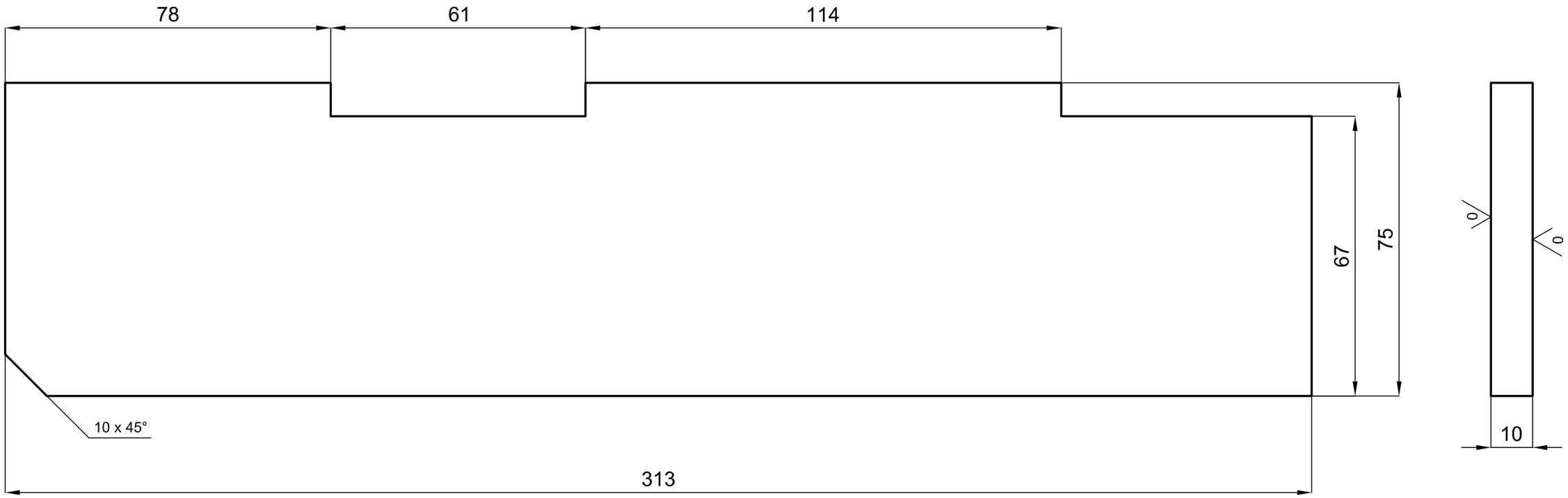
Proiectat	ing. S. Tudor		S 355 J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S. Fica			
Aprobat	Dr.ing. G.Marin		Greutate: 8,842 kg	
1:5		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	PLACA

Desen nr.	Page:	Rev.
614.92 - 01.01.10.0	1/1	0



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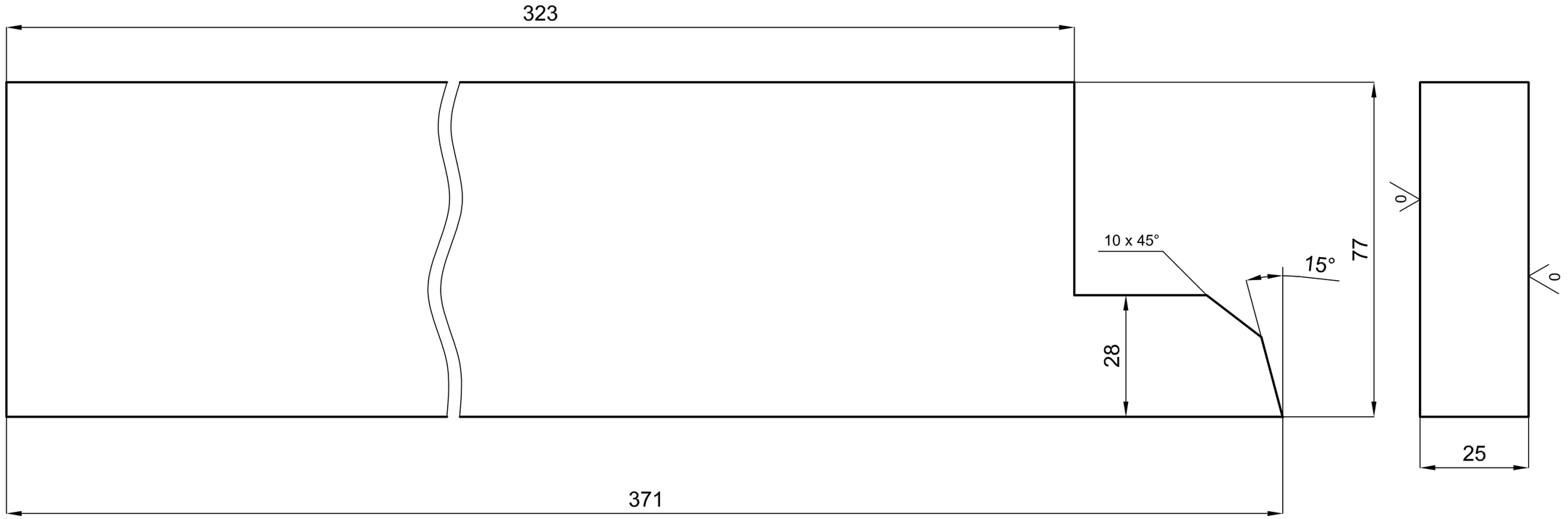
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S.Fica			
Aprobat	Dr.ing. G. Marin		Greutate: 1,747kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A3 (297x420)			Data: 11.02.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	SUPORT

Desen nr.	Page:	Rev.
614.92 - 01.01.12.0	1/1	0



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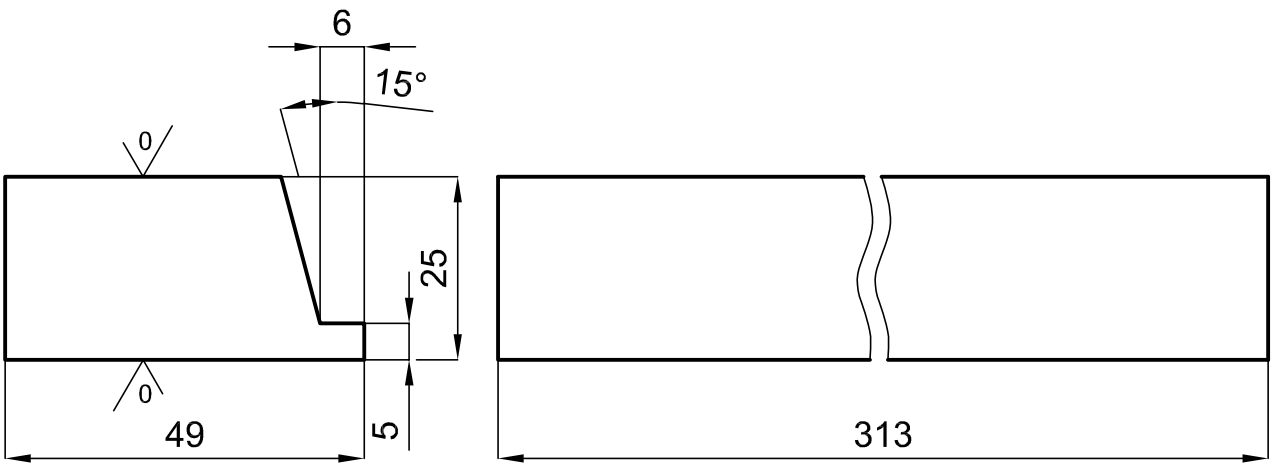
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S. Fica			
Aprobat	Dr.ing. G. Marin		Greutate: 4,468kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A3 (297x420)		Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	SUPORT

Desen nr.	Page:	Rev.
614.92 - 01.01.16.0	1/1	0



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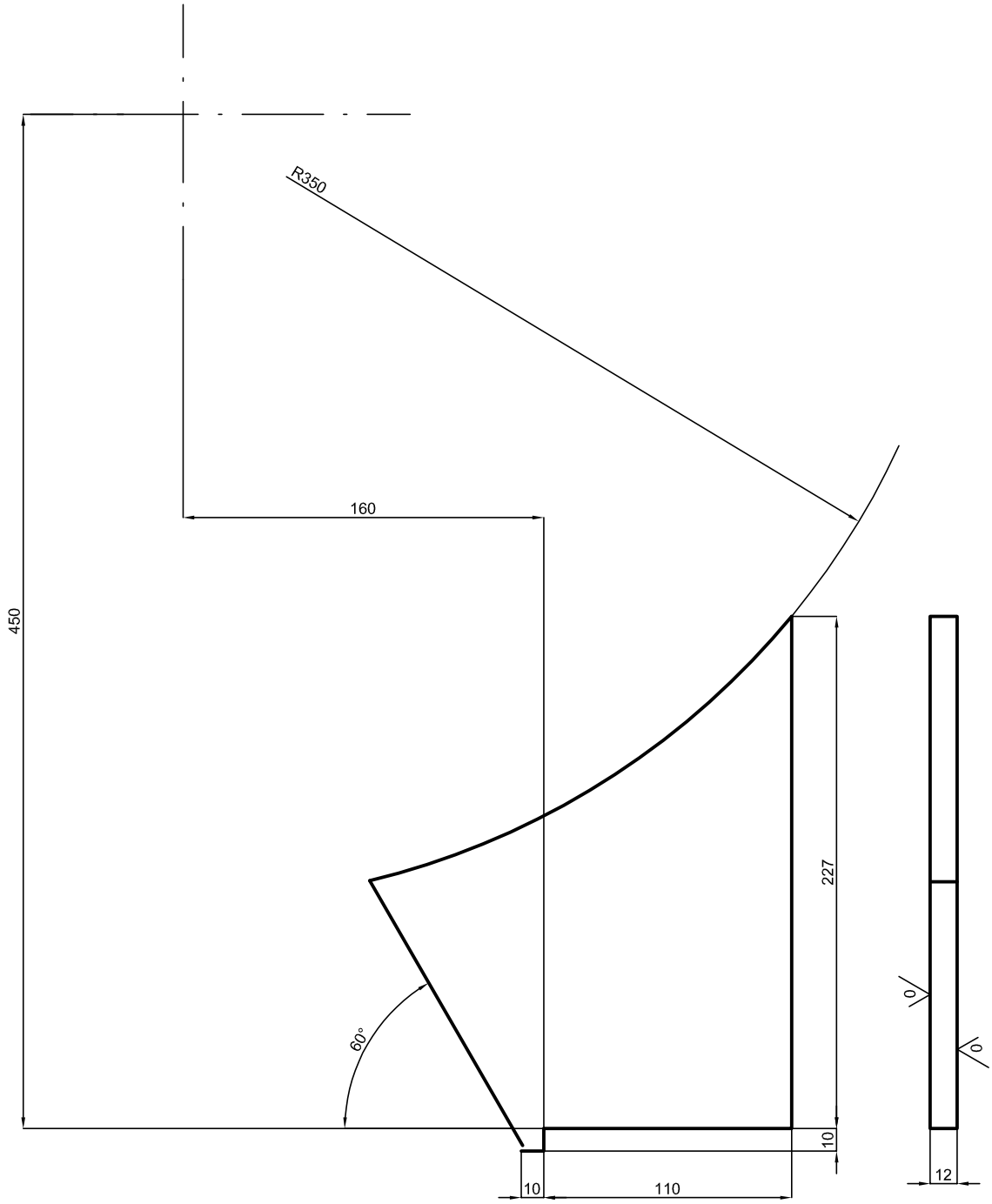
				INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor	313			
Desenat	Fl. Radu		S355J2 SR EN 10025-2:2019	Client	------
Verificat	Dr.ing. S. Fica			Proiect	Pompa triplex cu plungere 3 PP-700
Aprobat	Dr.ing. G. Marin		Greutate: 2,652kg	Desen	SUPORT
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		Desen nr.	Page: / Rev.
Format: A4 (210x297)		Data: 06.05.2021		614.92 - 01.01.17.0	1/1 / 0



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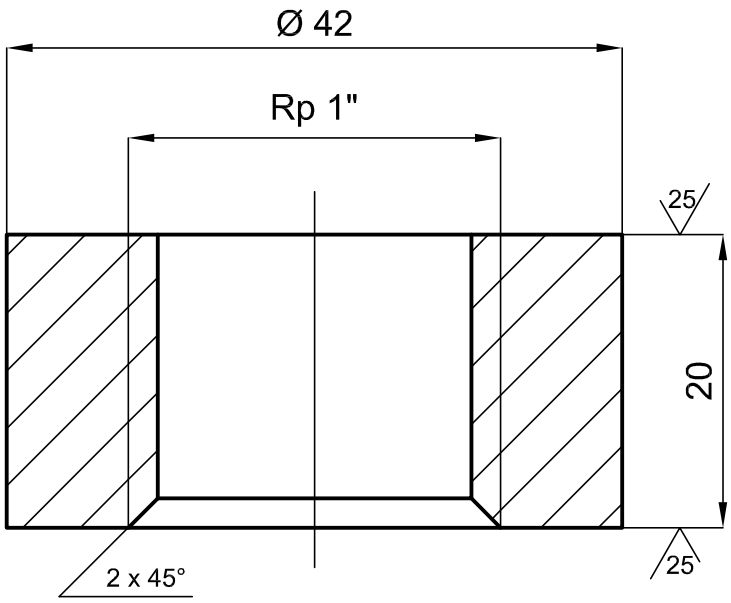
				INCDIE ICPE-CA BUCURESTI	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	Client	-----
Desenat	Fl. Radu			Proiect	Pompa triplex cu plungere 3PP-700
Verificat	Dr.ing. S. Fica			Desen	NERVURA
Aprobat	Dr.ing. G. Marin		Greutate: 2,339 kg	Desen nr.	Page: / Rev.
1:2		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		614.92 - 01.01.18.0	1/1 / 0
Format: A3 (297x420)		Data: 06.05.2021			

2 : 1



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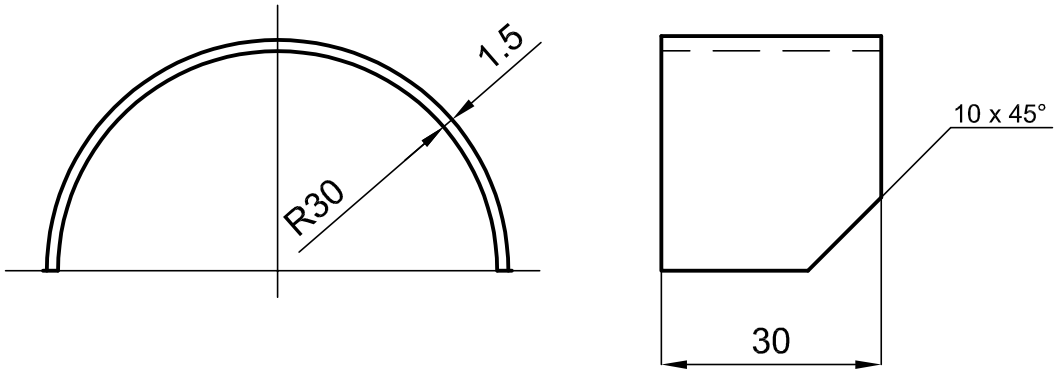
Proiectat	ing.S. Tudor		S235J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 0,093kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	MUFA Rp 1"

Desen nr.	Page:	Rev.
614.99 - 01.01.36.0	1/1	0



Lungimea desfasurata = 97 mm

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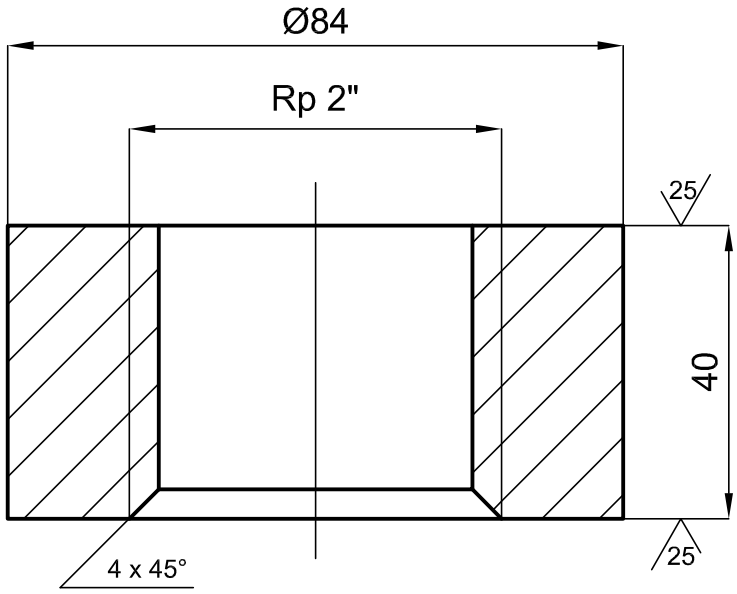
				INCDIE ICPE- CA Bucuresti	DEPARTAMENT IPCUP PLOIESTI
Proiectat	ing.S. Tudor		S235J2 SR EN 10025-2:2019	Client	------
Desenat	Fl. Radu			Proiect	Pompa triplex cu plungere 3 PP-700
Verificat	Dr.ing.S.Fica			Desen	APARATOARE
Aprobat	Dr.ing.G.Marin		Greutate: 0,034kg	Desen nr.	Page: / Rev.
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		614.99 - 01.01.39.0	1/1 / 0
Format: A4 (210x297)		Data: 06.05.2021			



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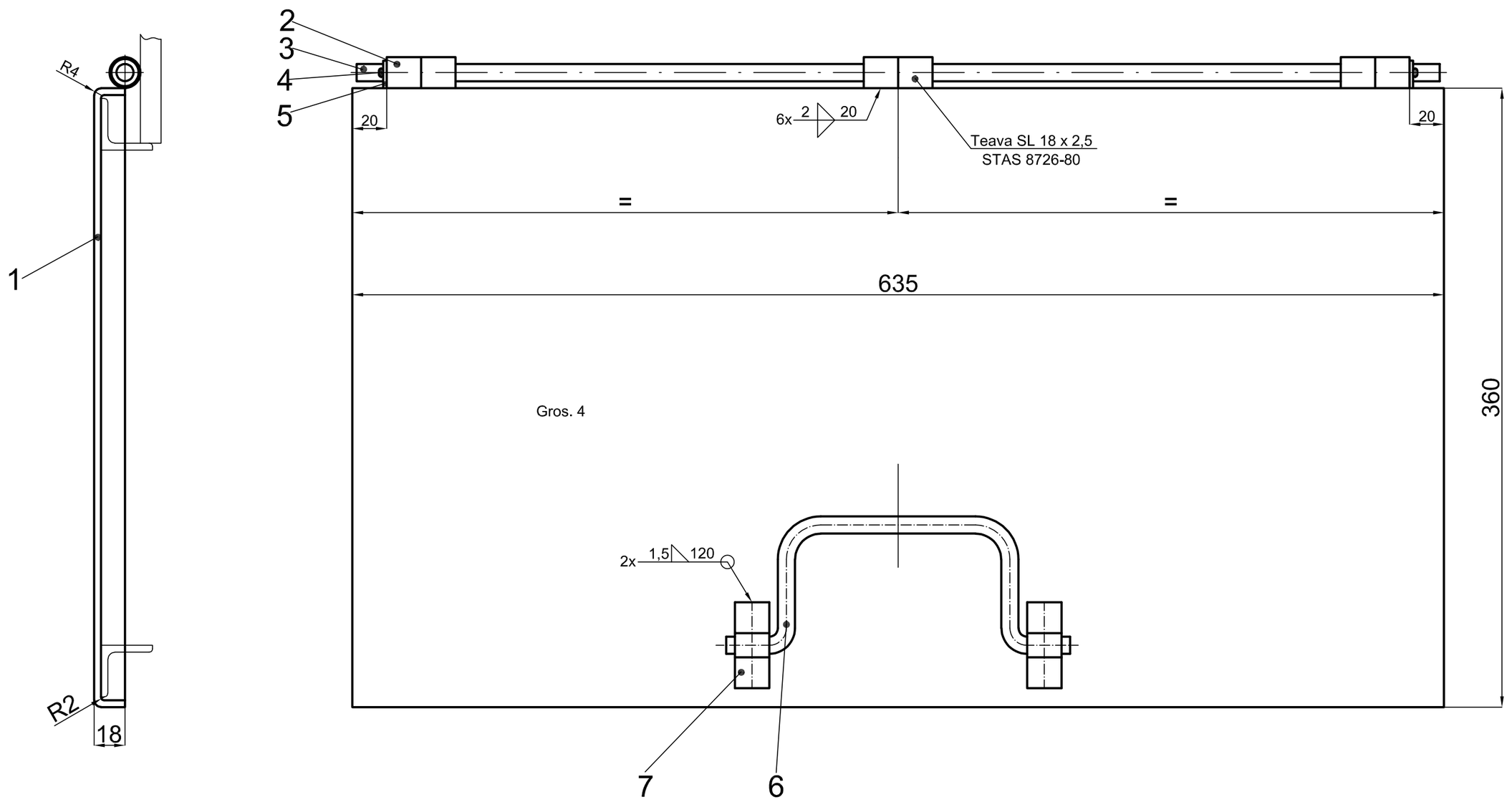
Proiectat	ing.S. Tudor		E 275 SR EN 10297-1:2003	
Desenat	Fl. Radu			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 0,363kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	MUFA Rp 2"

Desen nr.	Page:	Rev.
614.99 - 01.01.27.0	1/1	0



N O T A

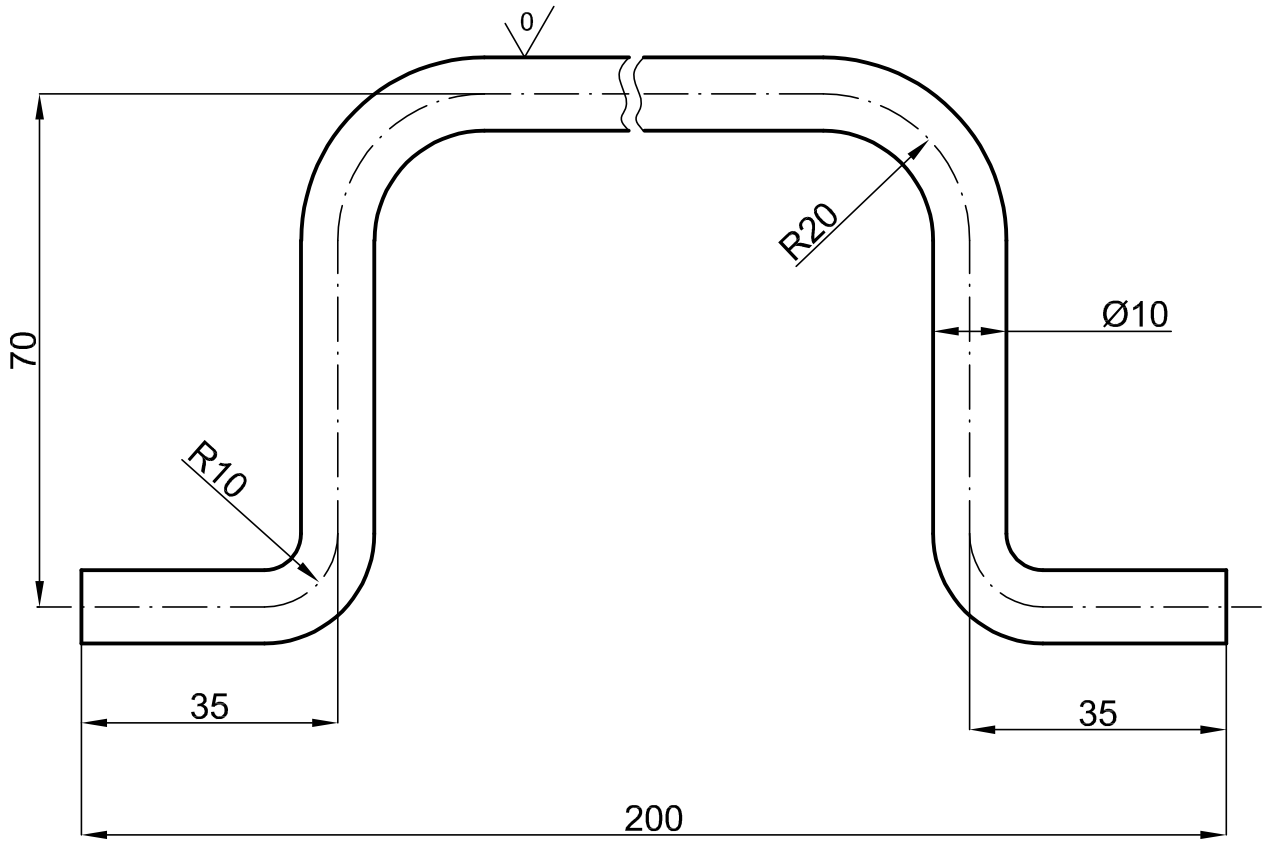
- 3 buc. din poz. 2 se vor suda pe frema pompei si 3 pe capac.
- La capetele tijei Ø 10 (poz.3) se vor da 2 gauri Ø 2,5 pentru splint.

Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.
7	Balama	616.15-01.09.07.0	2	S235 J2 SR EN 10025-2:2019		0,019
6	Maner	616.15-01.09.06.0	1	S235 J2 SR EN 10025-2:2019		0,195
5	Saiba A 10	SR ISO 4759-3:1996	2	S235 J2 SR EN 10025-2:2019	Cd 5 FL	0,004
4	Splint Ø2 x 20	SR EN ISO 1234:2001	2	S235 J2 SR EN 10025-2:2019	Cd 5 FL	0,001
3	Tija Ø10 x 720	616.15-01.09.03.0	1	S235 J2 SR EN 10025-2:2019	fara desen	0,446
2	Teava L = 20	616.15-01.09.02.0	6	S235 J2 SR EN 10025-2:2019	fara desen	0,019
1	Capac	616.15-01.09.01.0	1	S235 J2 SR EN 10025-2:2019	fara desen	4,730
Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.

Proiectat	ing.S. Tudor		
Desenat	Fl. Radu		
Verificat	Dr.ing.S.Fica		
Aprobat	Dr.ing.G.Marin		Greutate: 5,533kg
1:2,5		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 clasele B&F	
		Simboluri sudura: EN 22553	
Format: A3 (297x420)		Data: 06.05.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	CAPAC ACCES
Desen nr.	616.15-01.09.00.0
Page:	1/1
Rev.	0



Lungimea desfasurata L = 315 mm

25

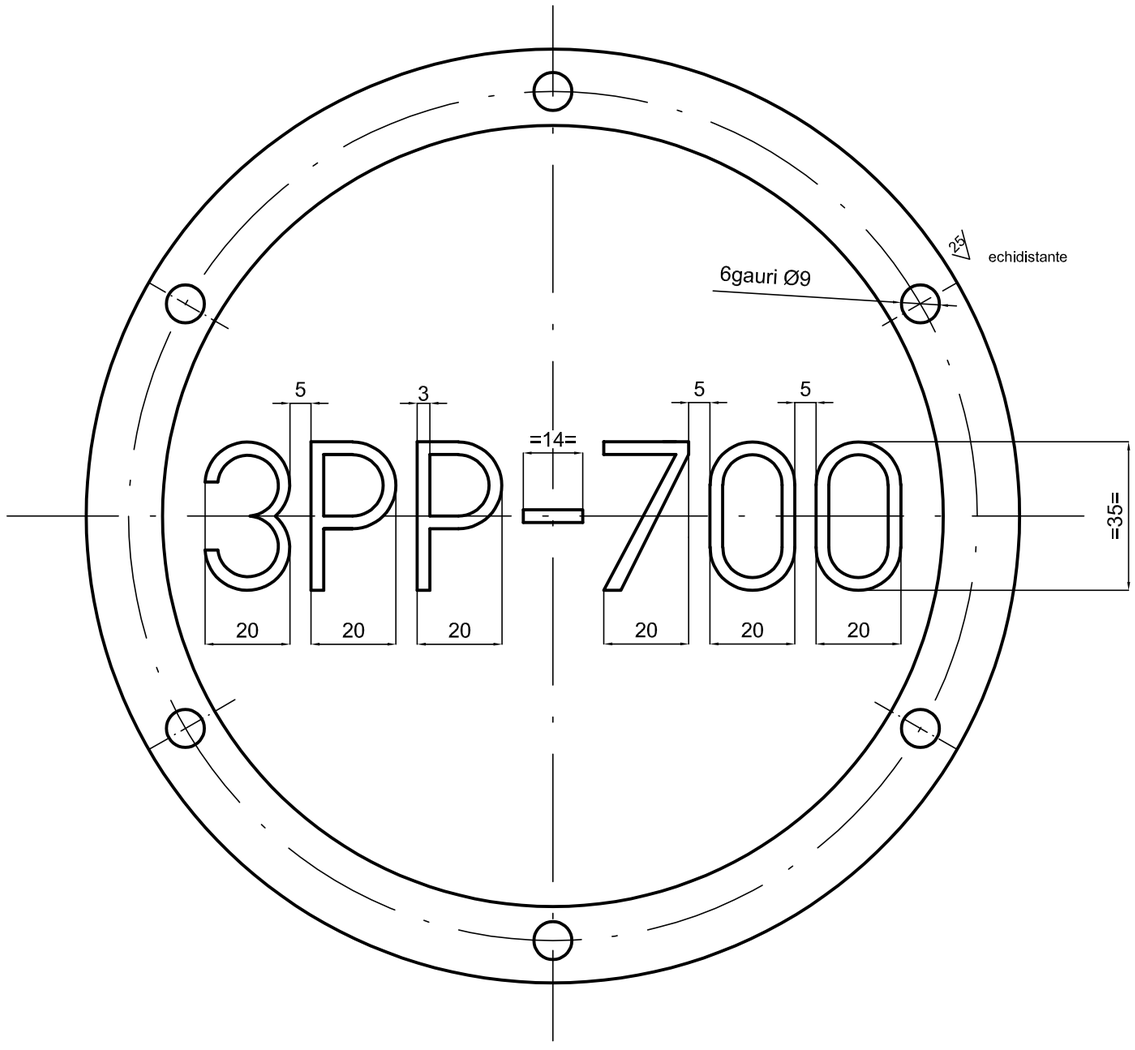
Proiectat	ing.S. Tudor		S235J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 0,195kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

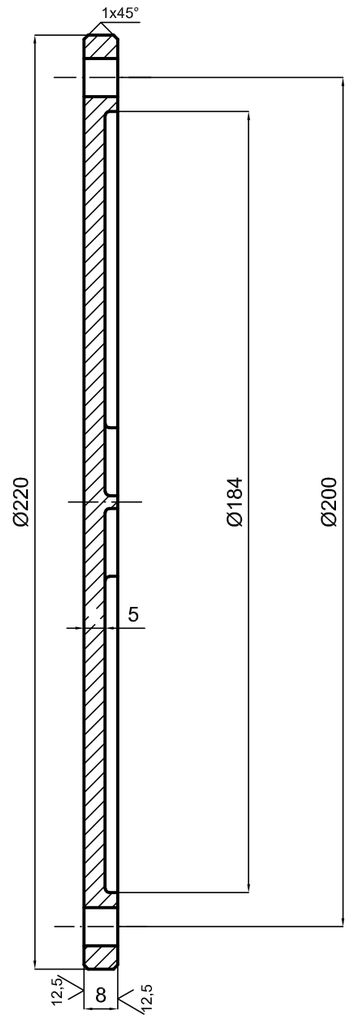
INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	MANER

Desen nr.	Page:	Rev.
616.15-01.09.06.0	1/1	0





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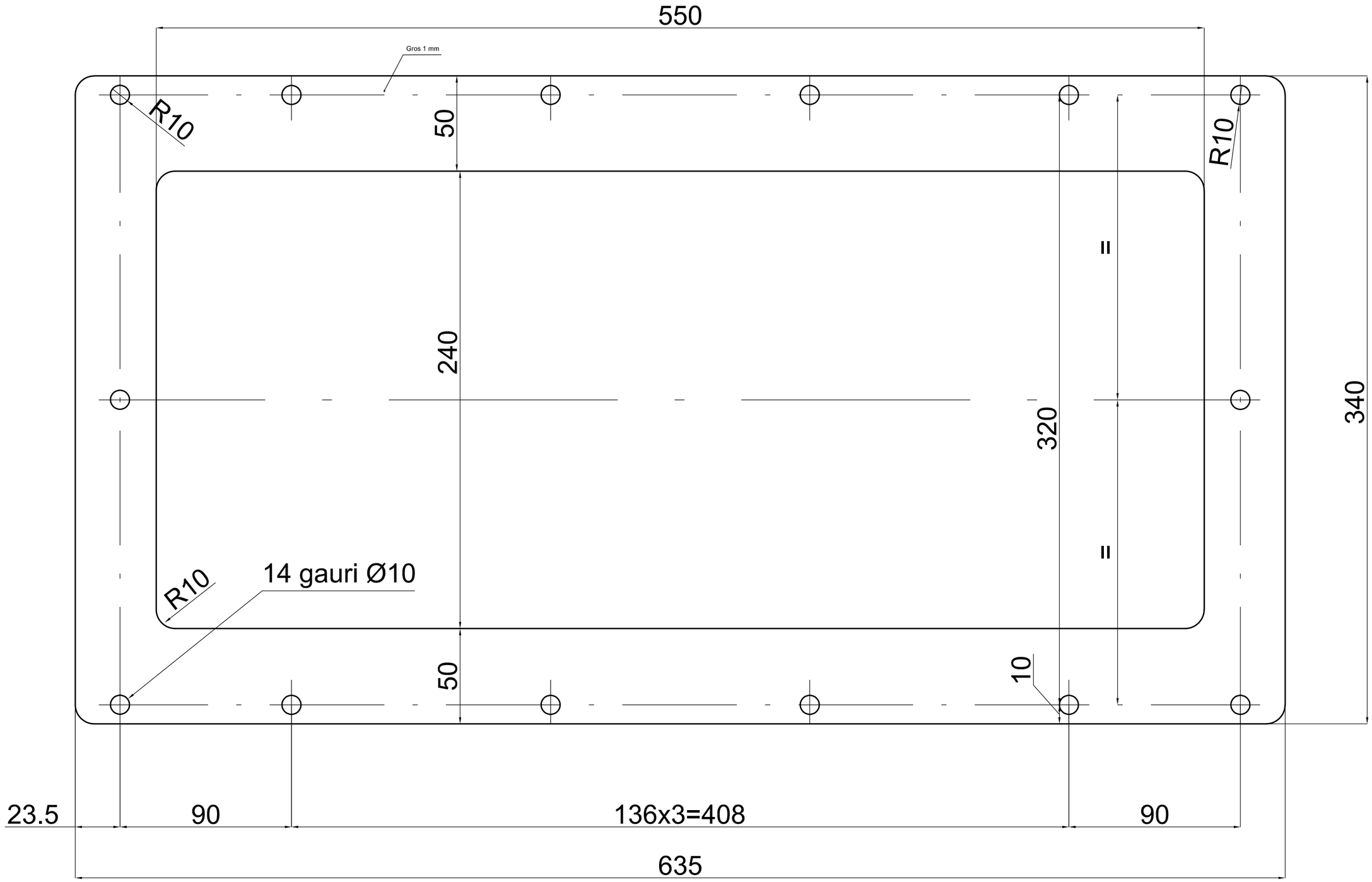
Proiectat	ing. S. Tudor		ATN - Cu 8 STAS 201/2 - 80	
Desenat	E.Toparceanu			
Verificat	ing. S. Fica			
Aprobat	ing. G. Marin		Weight: 0,7 kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A2 (420x594)		Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI

DEPARTAMENT IPCUP PLOIESTI

Client	----
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	CAPAC 3PP - 700

Desen nr.	Page:	Rev.
616.15-01.00.10.0	1/1	0

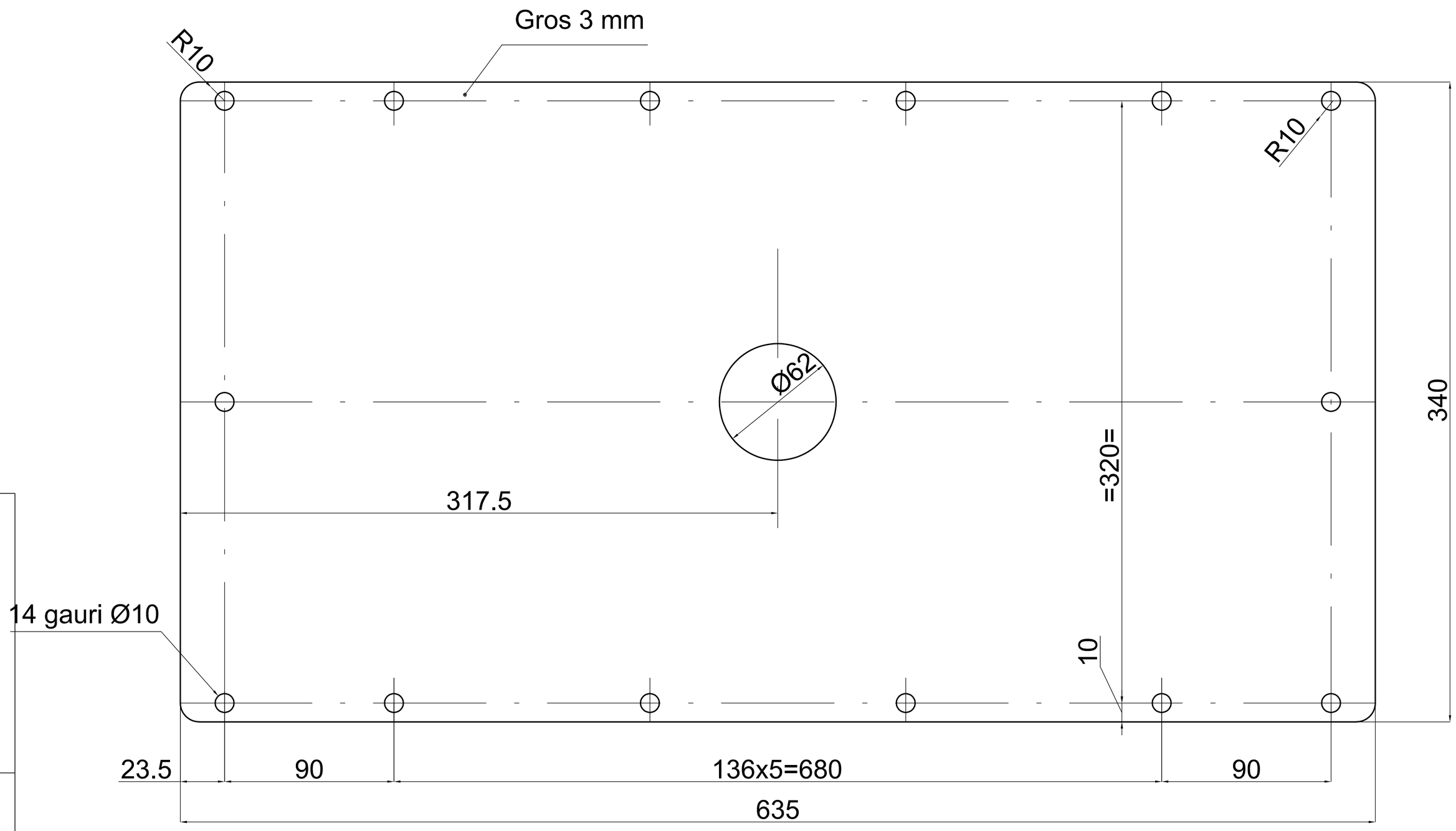


Proiectat	ing. S. Tudor	Carton STAS 3053-86	
Desenat	F.Iancu		
Verificat	ing. S. Fica		
Aprobat	ing. G. Marin	Weight:0,094kg	
1:1		Unitate masura:mm	
		Tolerante generale: EN ISO 13920 classes B&F	
		Simboluri sudura: EN 22553	
Format:		Date: 10.02.2021	

INCDIE ICPE-CA BUCURESTI
DEPARTAMENT IPCUP PLOIESTI

Client	
Proiect	Pompa triplex cu plungere 3PP - 700
Desen	GARNITURA

Drawing No.	Pag:	Rev.
616.15-01.00.13.0	1/1	0



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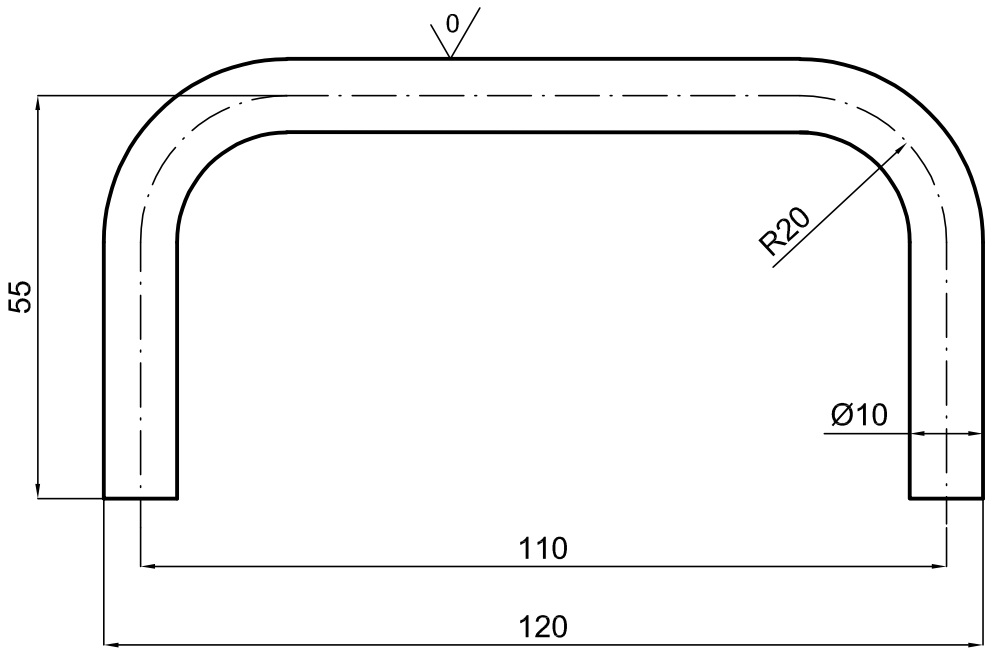
				INCDIE ICPE-CA BUCUREȘTI	DEPARTAMENT IPCUP PLOIEȘTI
Proiectat	ing. S. Tudor		S235J2 SR EN 10025-2:2019		
Desenat	F.Iancu			Client	
Verificat	ing. S. Fica			Proiect	Pompa triplex cu plungere 3PP - 700
Aprobat	ing. G. Marin		Weight:5,507kg	Desen	CAPAC
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 classes B&F Simboluri sudura: EN 22553		Drawing No.	Pag: Rev.
Format:		Date: 06.05.2021		616.15-01.00.14.0	1/1 0



Lungimea desfasurata L = 215 mm

25

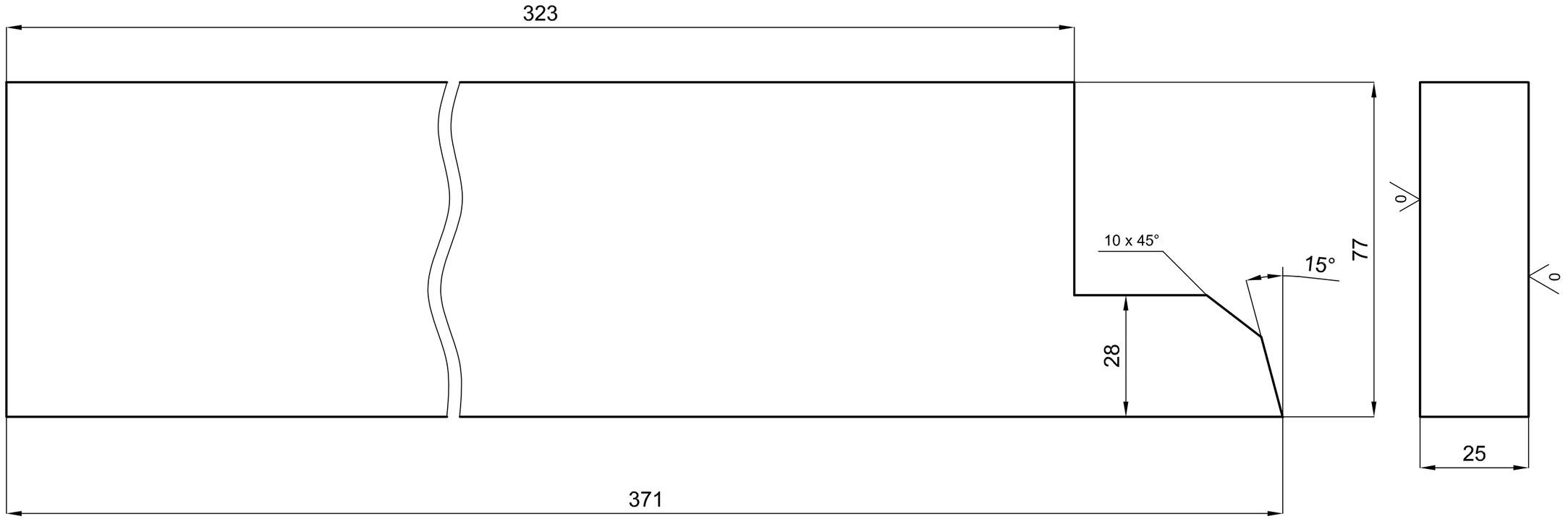
Proiectat	ing.S. Tudor		S235J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing.S.Fica			
Aprobat	Dr.ing.G.Marin		Greutate: 0,066kg	
1:1		Unitate masura:mm Tolerante generale: SR EN ISO 13920 clasele B&F Simboluri sudura:SR EN 22553		
Format: A4 (210x297)		Data: 06.05.2021		

INCDIE ICPE- CA Bucuresti

DEPARTAMENT IPCUP PLOIESTI

Client	------
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	MANER

Desen nr.	Page:	Rev.
616.15-01.18.08.0	1/1	0



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Proiectat	ing. S. Tudor		S355J2 SR EN 10025-2:2019	
Desenat	Fl. Radu			
Verificat	Dr.ing. S. Fica			
Aprobat	Dr.ing. G. Marin		Greutate: 4,468kg	
1:1		Unitate masura:mm Tolerante generale: EN ISO 13920 clasele B&F Simboluri sudura: EN 22553		
Format: A3 (297x420)		Data: 06.05.2021		

INCDIE ICPE-CA BUCURESTI — DEPARTAMENT IPCUP PLOIESTI

Client	-----
Proiect	Pompa triplex cu plungere 3 PP-700
Desen	SUPORT

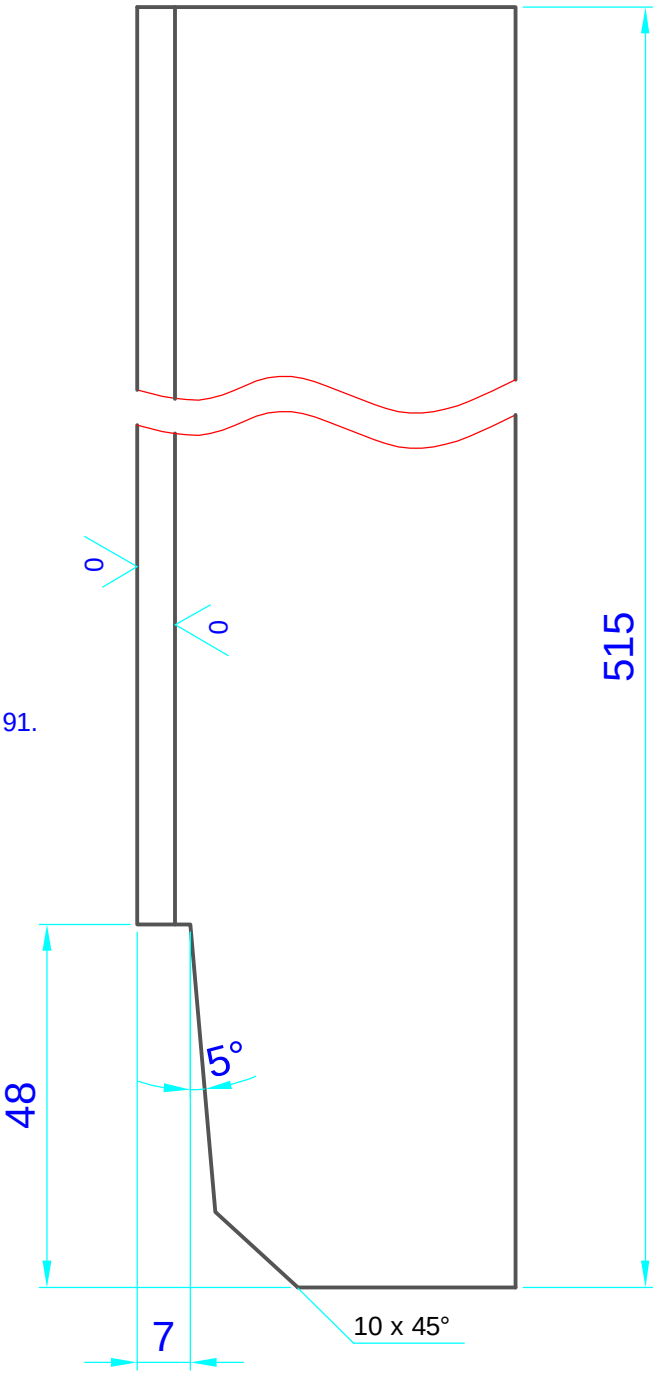
Desen nr.	Page:	Rev.
614.92 - 01.01.16.0	1/1	0

ANEXA 2

Proiectul Tehnologic pentru

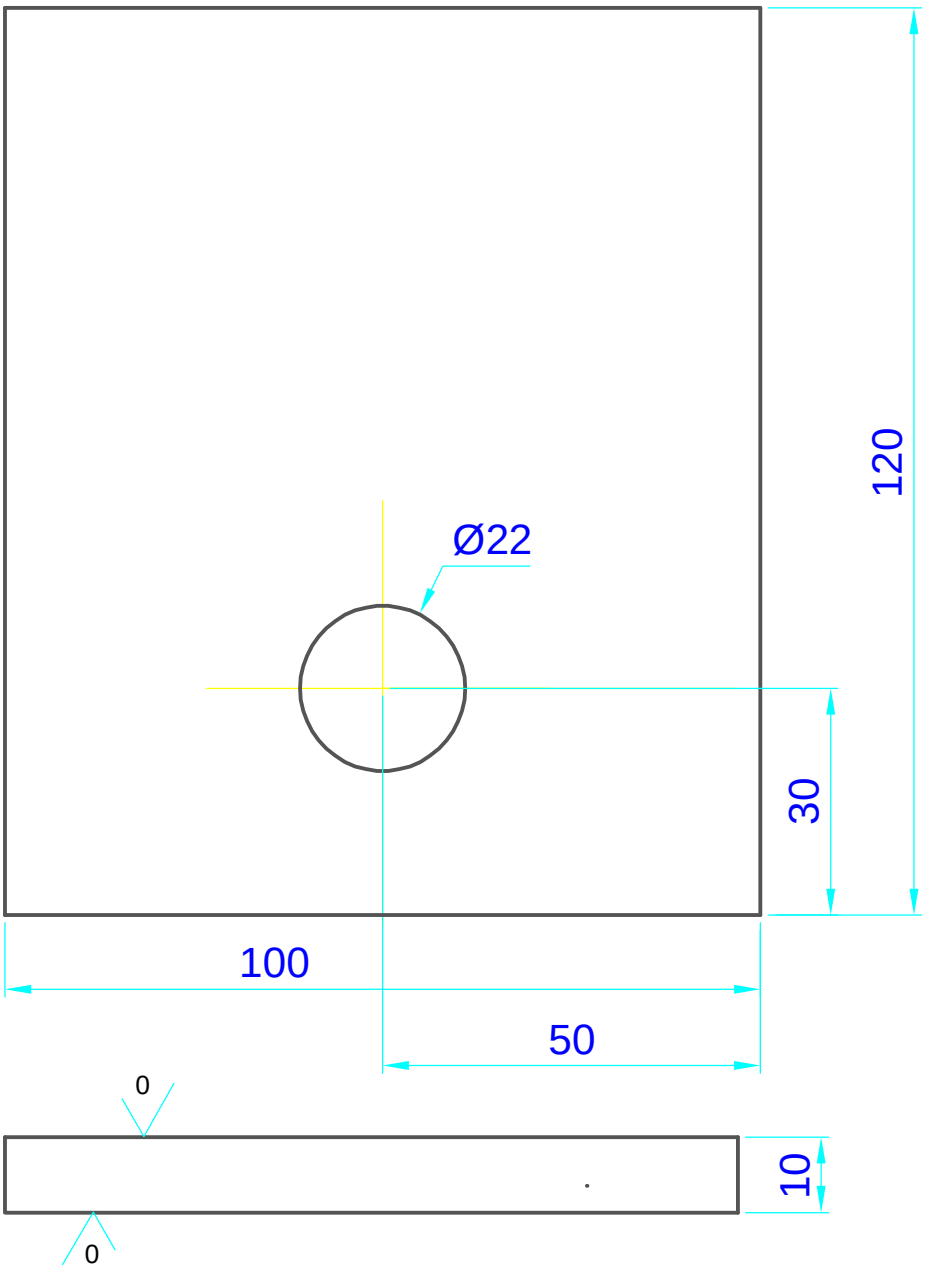
Ansamblul echipament Instalație inovatoare pentru cimentare
și operațiuni speciale la sondă

L 50 x 50 x 5 - STAS 424 - 91.



NOTA
- 2 bucati vedere ca in desen
- 2 bucati vedere in oglinda

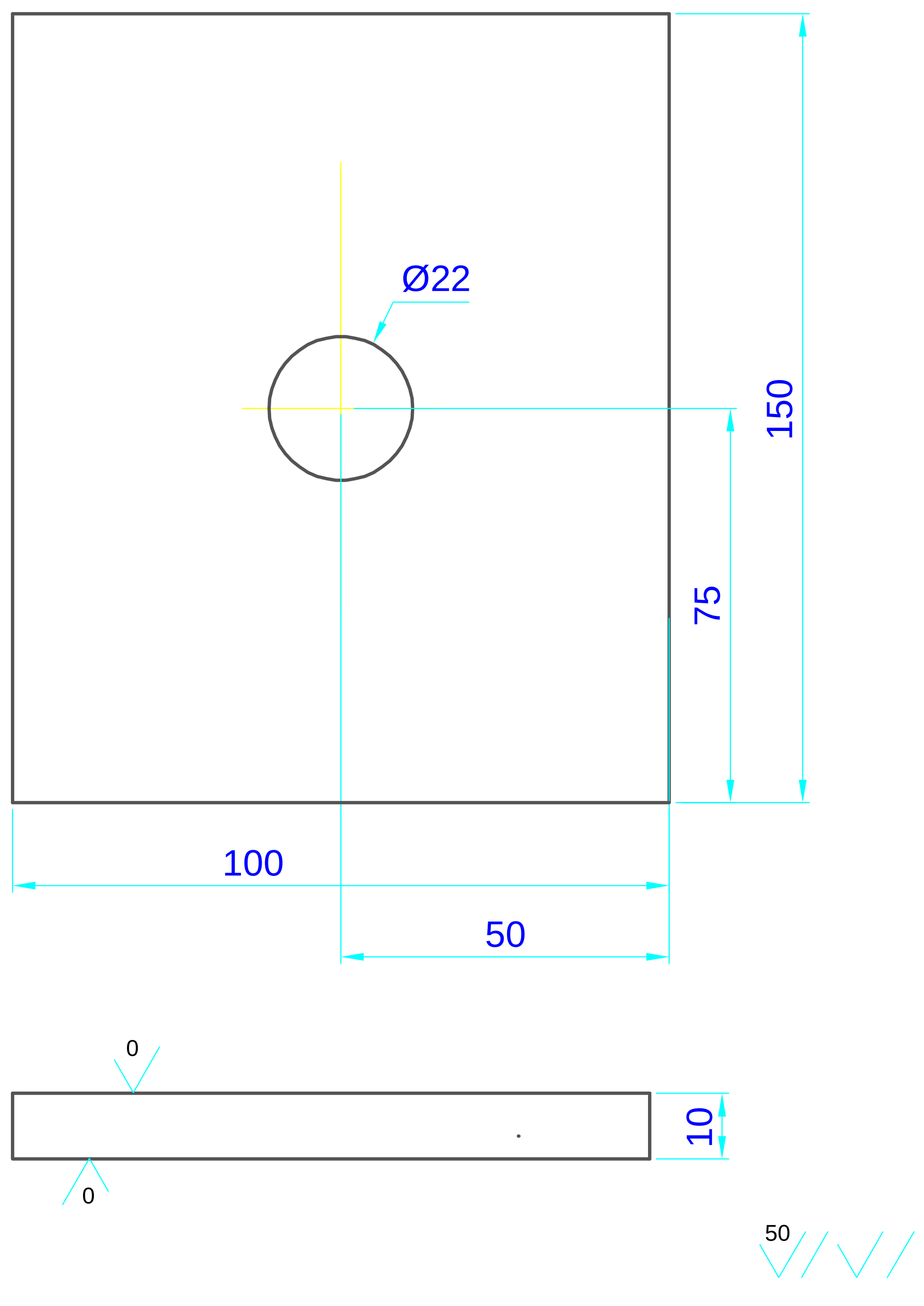
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	S355J2 SR EN 10025-2 2019 Masa: 2,160 kg	Proiect tehnologic PETAL S.A. Huși INOCEM 105.80-02.00.08.0	F	
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși · INCDIE ICPE- CA Bucuresti · IPCUP	1 : 1 Data: *sept-nov.2022*	Suport Platforma		



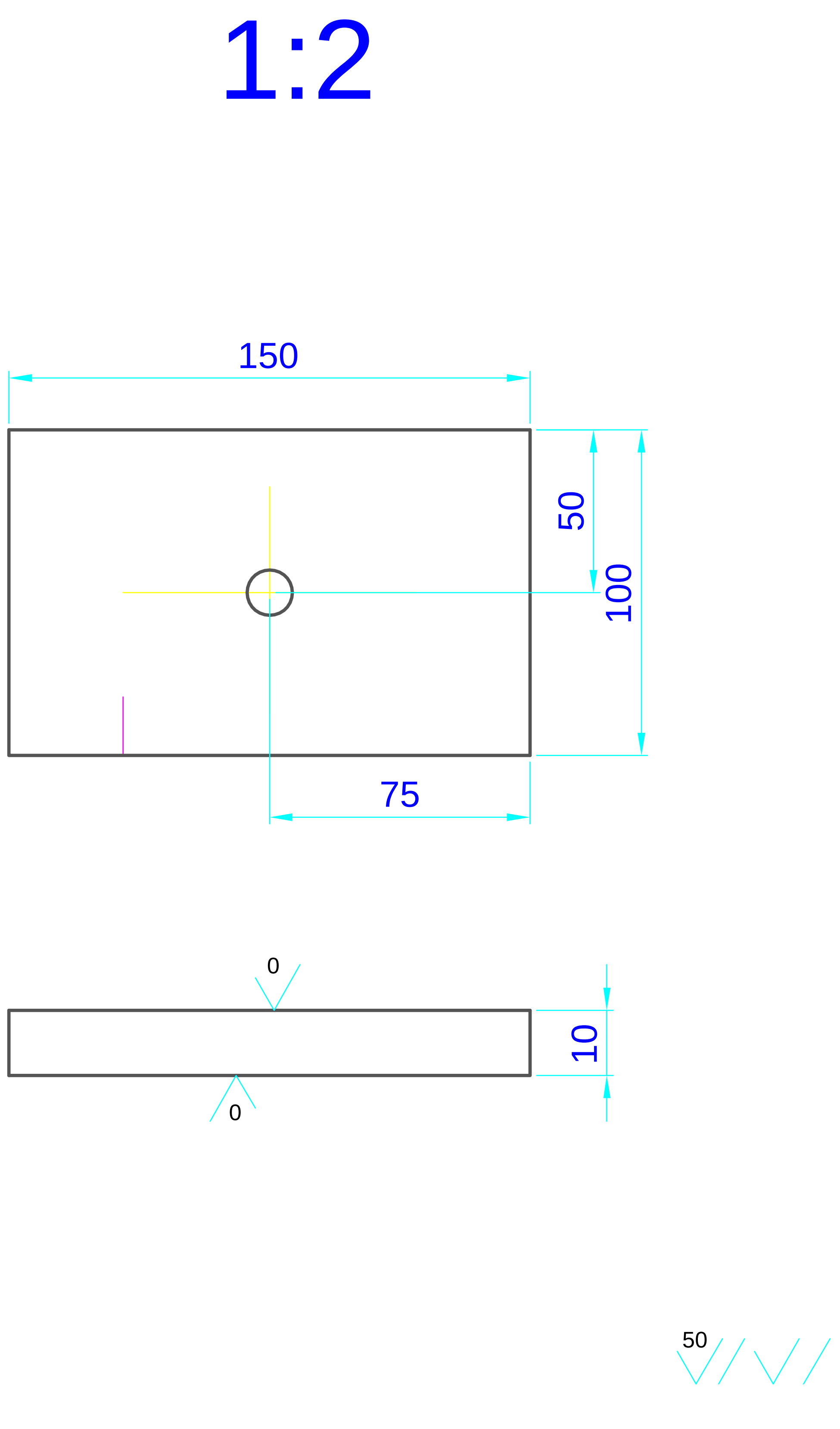
NOTA
- 2 bucati vedere ca in desen
- 2 bucati vedere in oglinda

50

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S355J2 SR EN 10025-2 2019 Masa: 0,96 kg	Proiect tehnologic INOCEM 105.80-00.00.00.0	PETAL S.A. Huși	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși INCDIE ICPE- CA Bucuresti IPCUP	1 : 1 Data: *sept-nov.2022*	Placa Platforma		

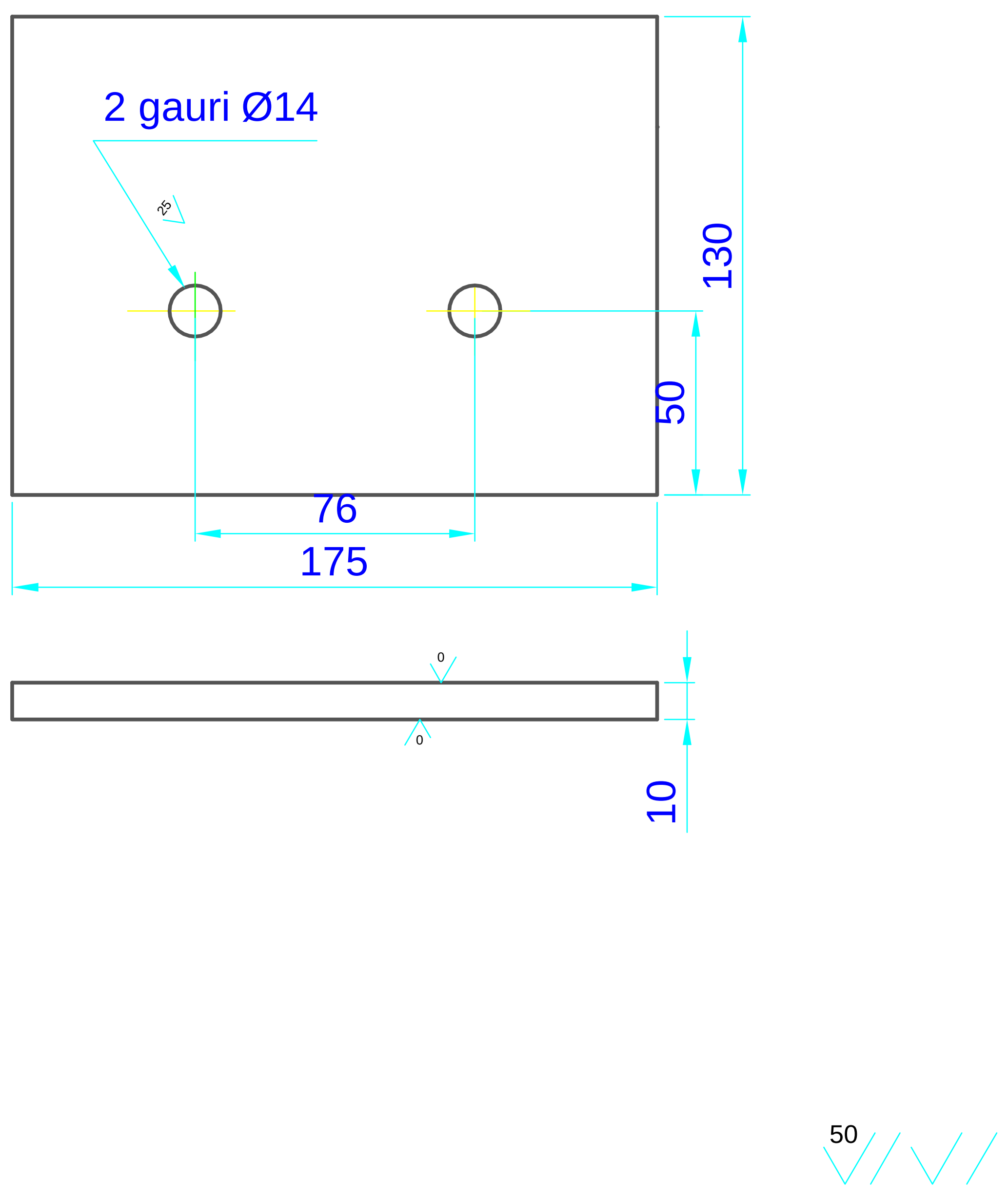


Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic PETAL S.A. Huşi	F
	Desenat : *ing. P. Baraga*		INOCEM 105.80-00.00.00.0	
	Verificat : *dr. ing. I. Cucos*			
	Aprobat : *dr. ing. I. Cucos*	Masa: 1,20 kg		
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi INCDIE ICPE- CA Bucuresti IPCUP	1 : 1	Placa Poz 12	
		Data: *sept-nov.2022*	Platforma	



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2				
Proiectat :	*ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic	PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*			F
Verificat :	*dr. ing. I. Cucos*		INOCEM 105.80-00.00.00.0	
Aprobat :	*dr. ing. I. Cucos*	Masa: 1,20 kg		
S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi INCDIE ICPE-CA Bucuresti IPCUP		1 : 1	Placa Poz 13	
		Data: *sept-nov.2022*	Platforma	

1:2



Proiectat :	ing. T. Arhire	S355J2 SR EN 10025-2 2019	Proiect tehnologic PETAL S.A. Huşi
Desenat :	ing. P. Baraga		F
Verificat :	dr. ing. I. Cucos		INOCEM 105.80-00.00.00.0
Aprobat :	dr. ing. I. Cucos	Masa: 1,80 kg	

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A. Huşi — INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

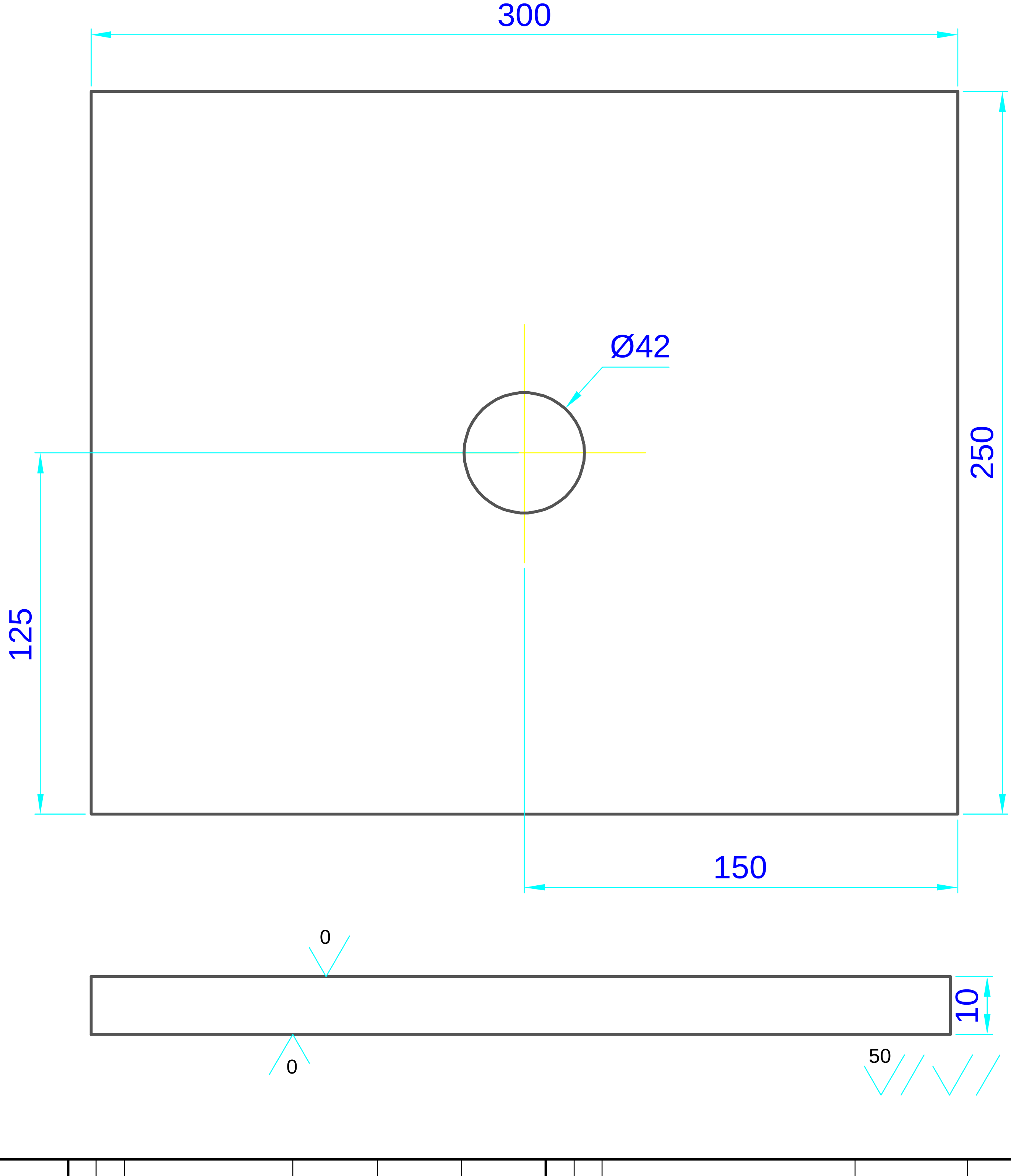
1 : 1

Placa Poz 14

Data: *sept-nov.2022*

Platforma

1:2



Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	
Desenat :	*ing. P. Baraga*	
Verificat :	*dr. ing. I. Cucos*	
Aprobat :	*dr. ing. I. Cucos*	

S355J2
SR EN 10025-2 2019

Masa: 5,30 kg

Proiect tehnologic

PETAL S.A.
Huşi

F

INOCEM 105.80-00.00.00.0

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A.
Huşi

INCDIE
ICPE- CA
Bucuresti

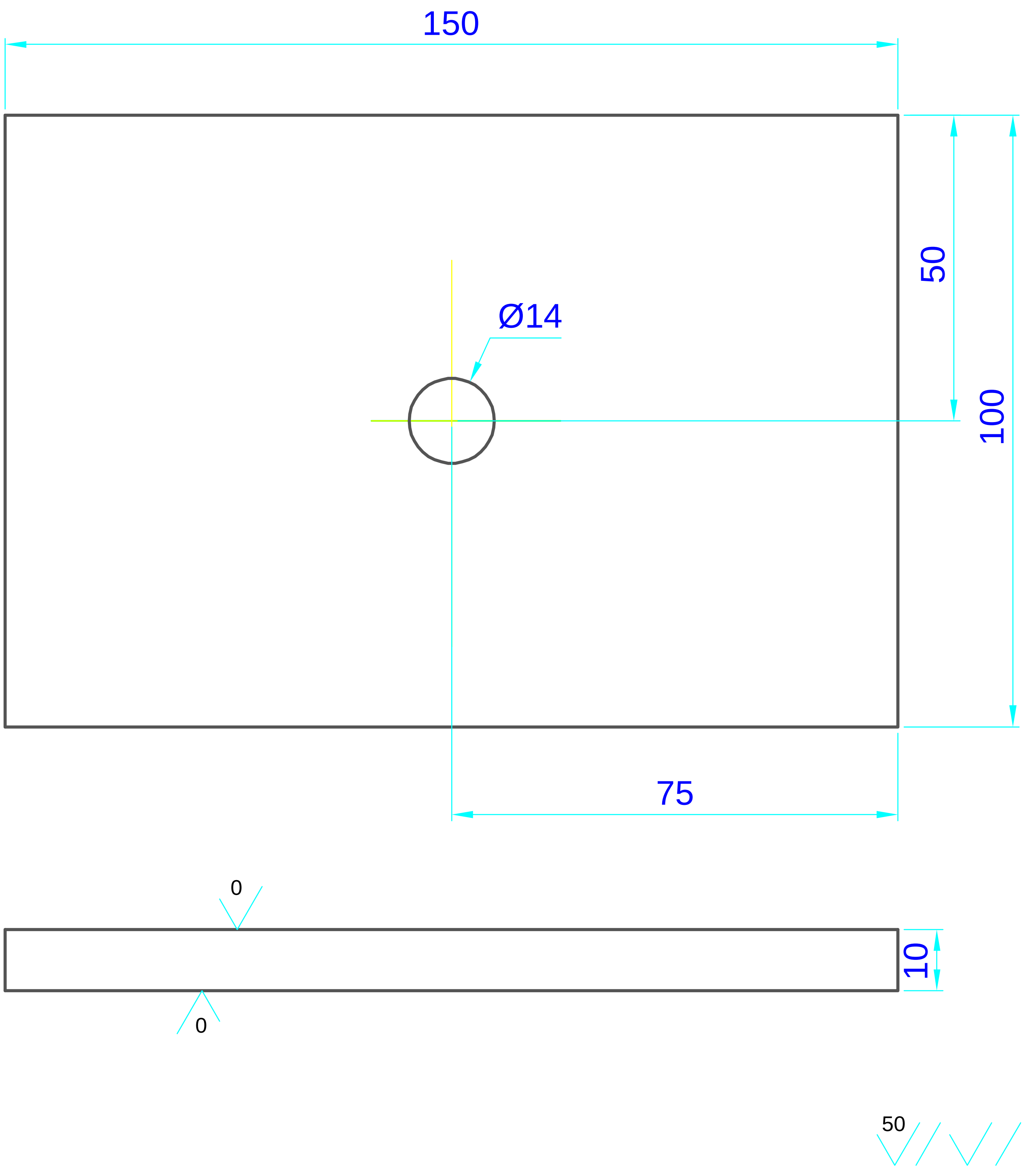
DEPARTAMENT
IPCUP
PLOIESTI

1 : 1

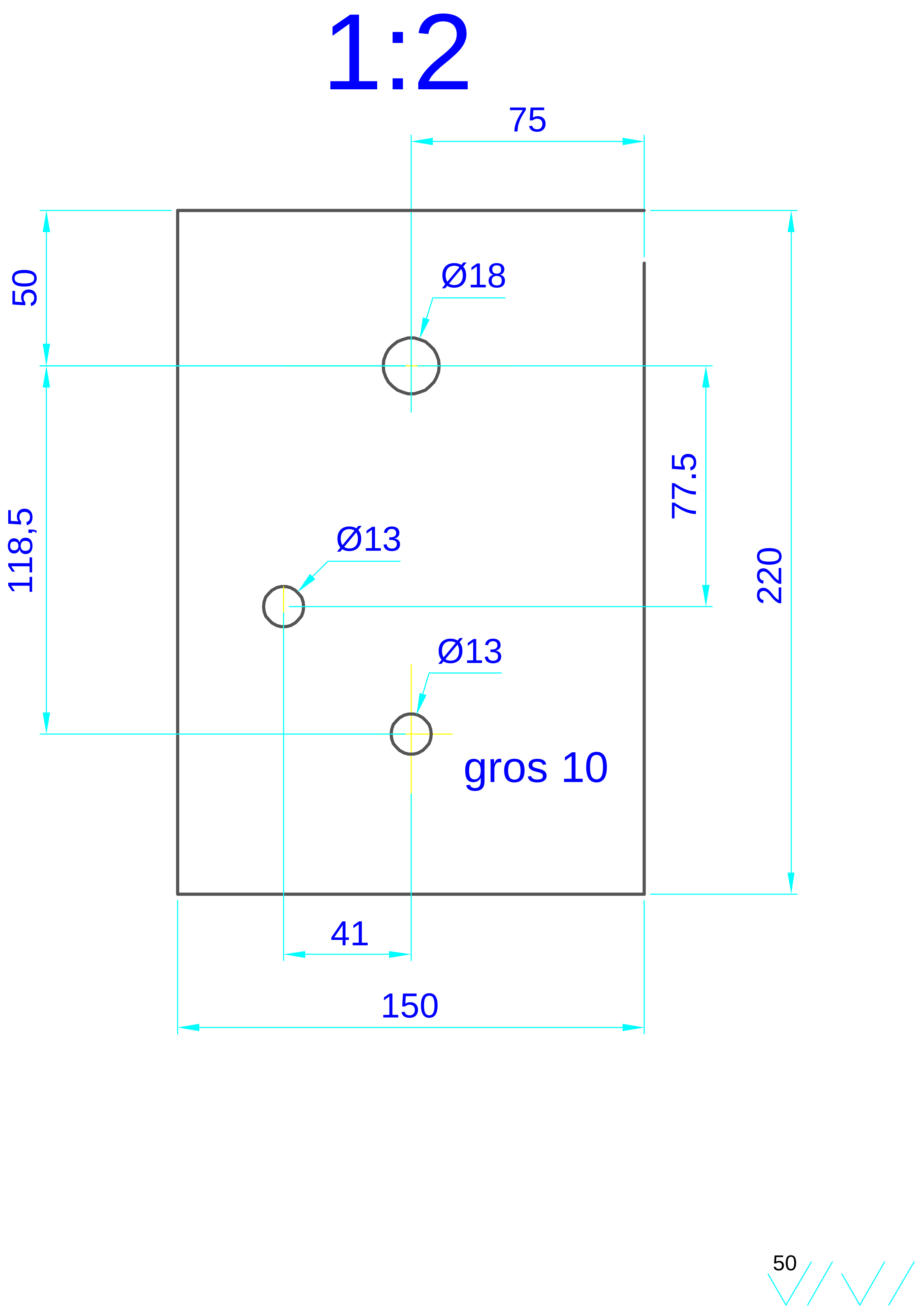
Placa Poz 15

Data: *sept-nov.2022*

Platforma



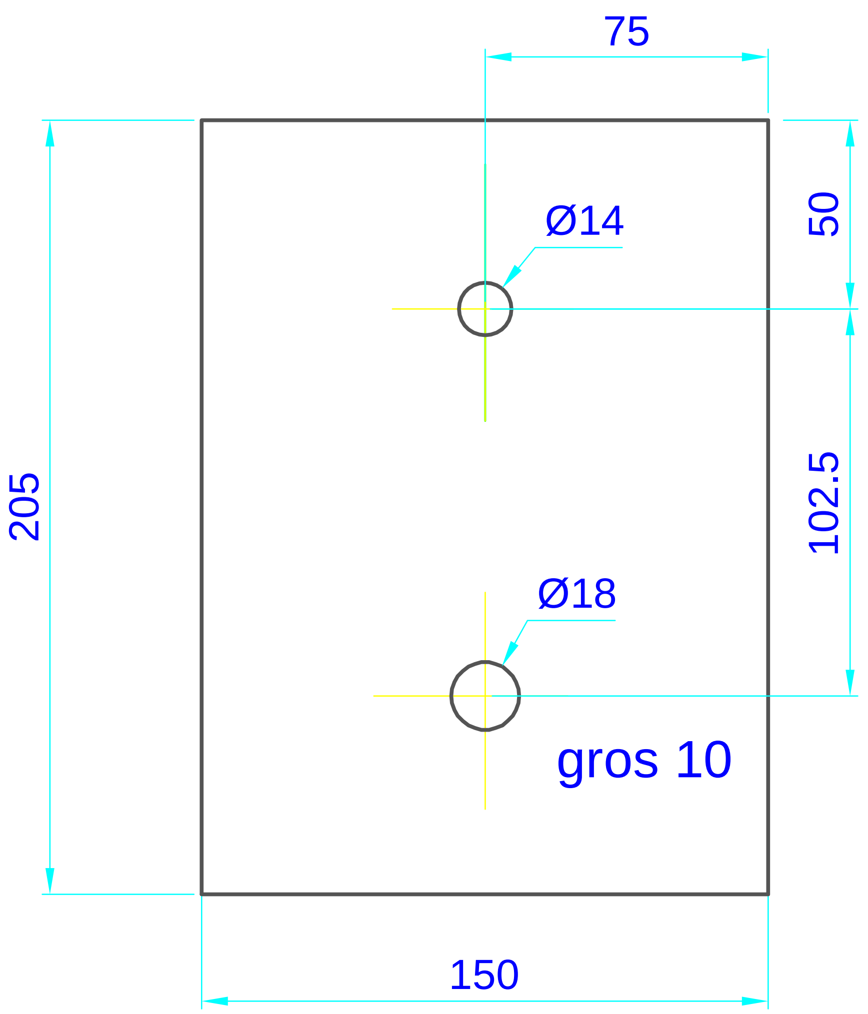
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat :	ing. T. Arhire	S355J2 SR EN 10025-2 2019	Proiect tehnologic PETAL S.A. Huși	F
	Desenat :	ing. P. Baraga		INOCEM 105.80-00.00.00.0	
	Verificat :	dr. ing. I. Cucos			
	Aprobat :	dr. ing. I. Cucos	Masa: 1,20 kg		
	S.C. "PETAL" S.A. HUSI **_INOCEM - CF 260/2020 cod SMIS 120032_** **_Proiect Tehnic_** PETAL S.A. Huși INCDIE ICPE-CA Bucuresti IPCUP		1 : 1	Placa poz 16	
			Data: *sept-nov.2022*	Platforma	



Proiectat :	*ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		INOCEM 105.80-00.00.00.0
Verificat :	*dr. ing. I. Cucos*		F
Aprobat :	*dr. ing. I. Cucos*	Masa: 2,640 kg	
S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi INCDIE ICPE-CA Bucuresti IPCUP		1 : 1	Placa Poz 17
		Data: *sept-nov.2022*	Platforma

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

1:2



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Proiectat :	*ing. T. Arhire*	
Desenat :	*ing. P. Baraga*	
Verificat :	*dr. ing. I. Cucos*	
Aprobat :	*dr. ing. I. Cucos*	

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

S355J2
SR EN 10025-2 2019

Masa: 2,460 kg

Proiect tehnologic

PETAL S.A. Huşi

F

INOCEM 105.80-00.00.00.0

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

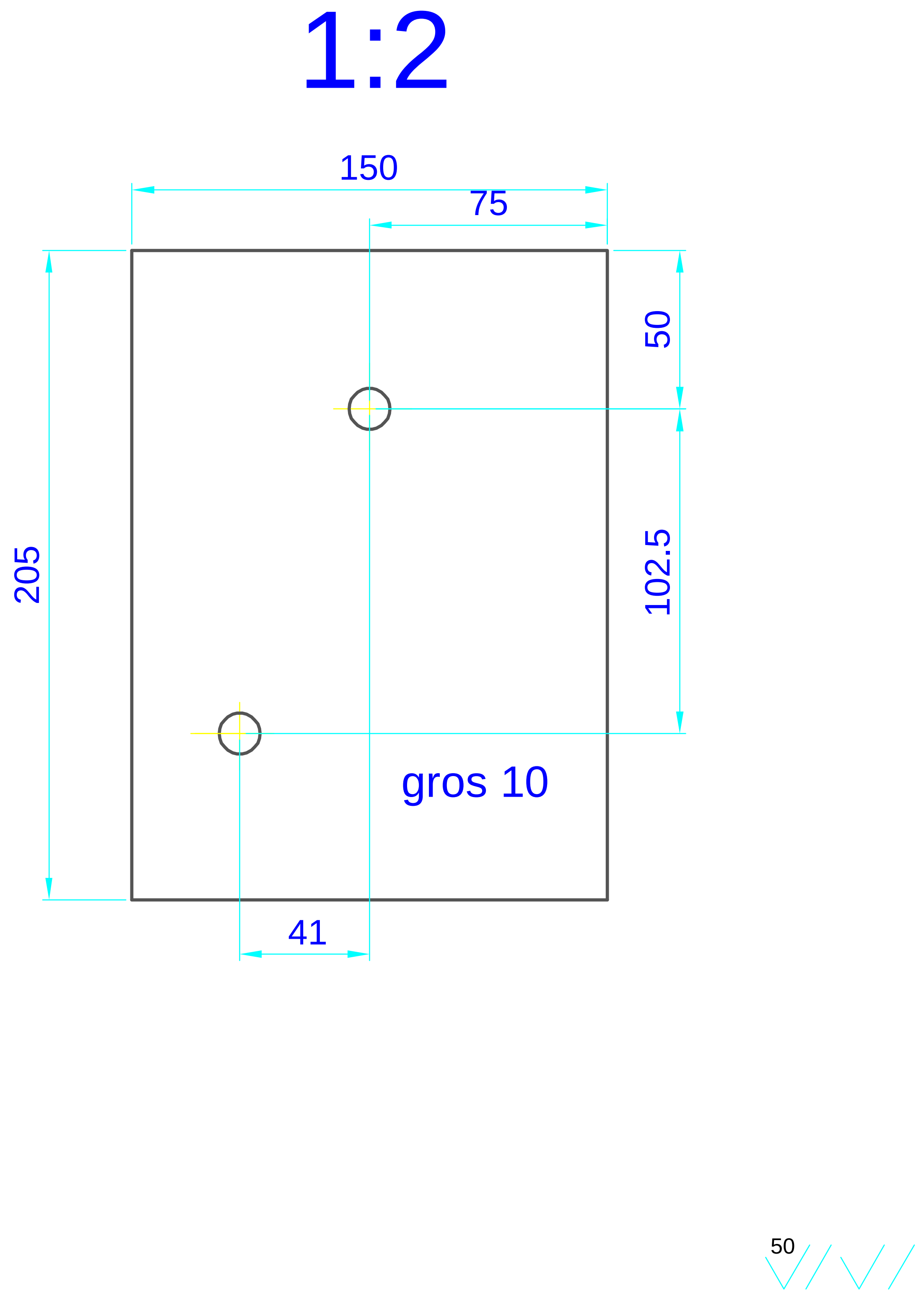
PETAL S.A. Huşi
INCDIE ICPE- CA Bucuresti
DEPARTAMENT IPCUP PLOIESTI

1 : 1

Placa poz 18

Data: *sept-nov.2022*

Platforma



Proiectat :	*ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 2,460 kg	INOCEM 105.80-00.00.00.0

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

F

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

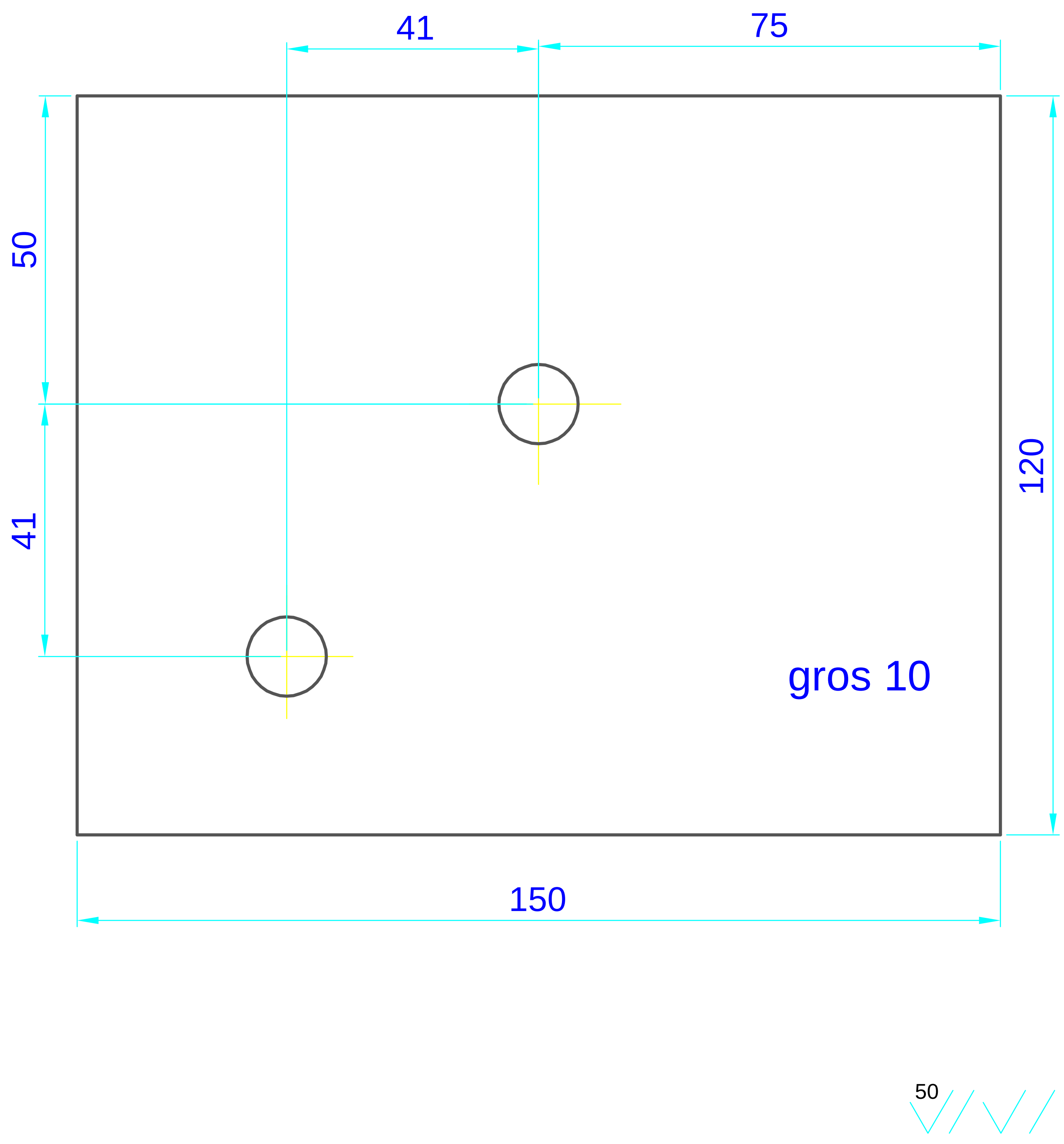
PETAL S.A. Huşi
INCDIE ICPE- CA Bucuresti
DEPARTAMENT IPCUP PLOIESTI

1 : 1

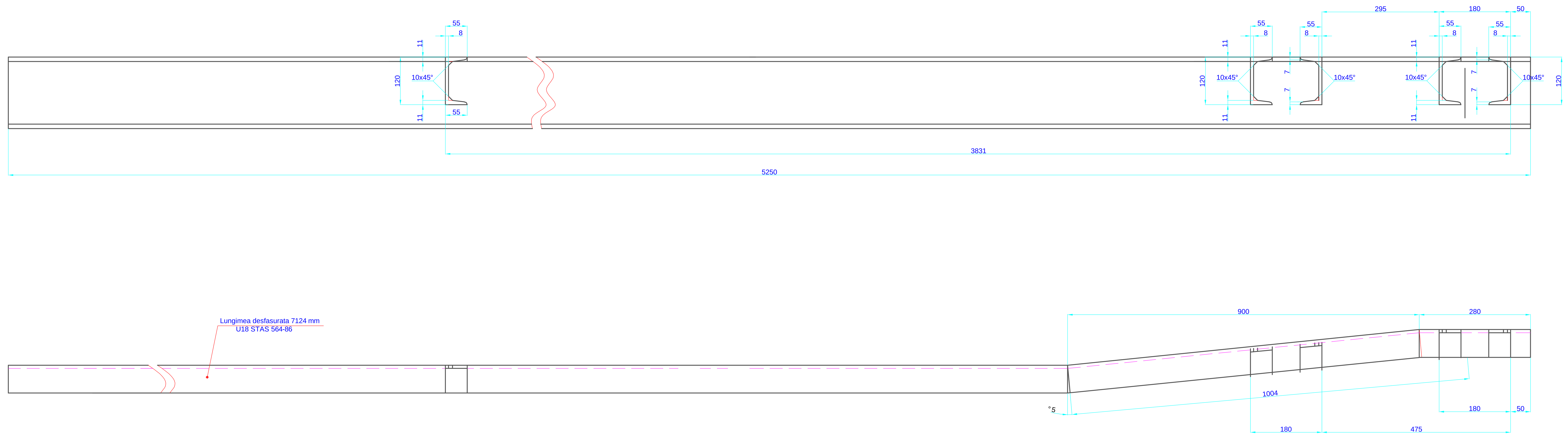
Placa Poz 19

Data: *sept-nov.2022*

Platforma

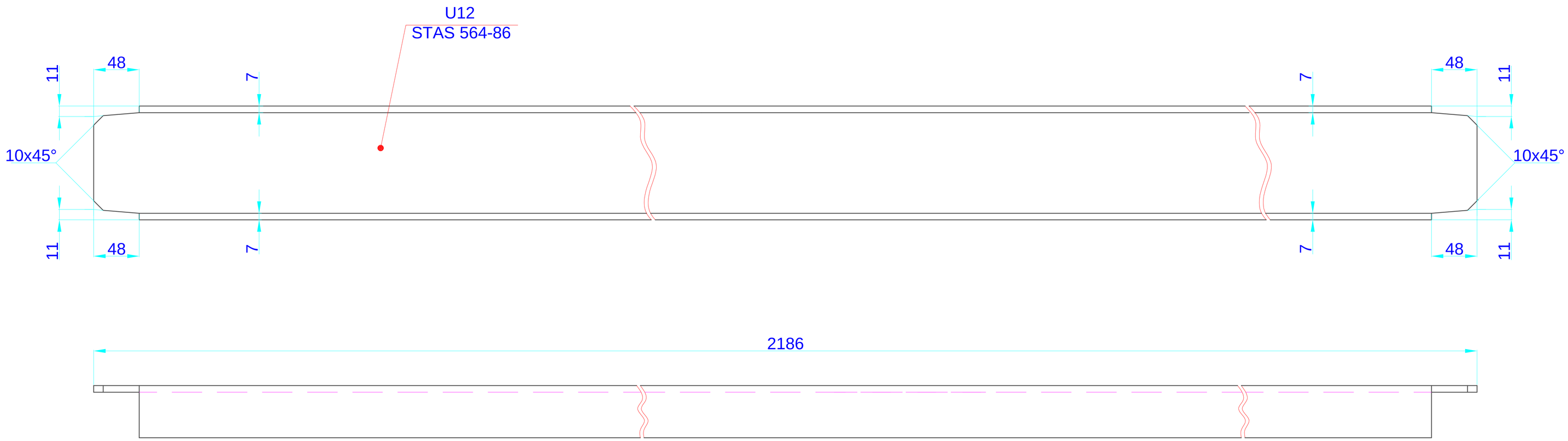


Toleranțe gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic — PETAL S.A. Huși	F
	Desenat : *ing. P. Baraga*		
	Verificat : *dr. ing. I. Cucos*		
	Aprobat : *dr. ing. I. Cucos*	Masa: 1,45 kg	INOCEM 105.80-00.00.00.0
	S.C. "PETAL" S.A. HUSI *INOCEM - CF 260/2020 cod SMIS 120032* ***Proiect Tehnic*** PETAL S.A. Huși; INCDIE ICPE-CA București; IPCUP	1 : 1	Placa Poz 20
		Data: *sept-nov.2022*	Platforma

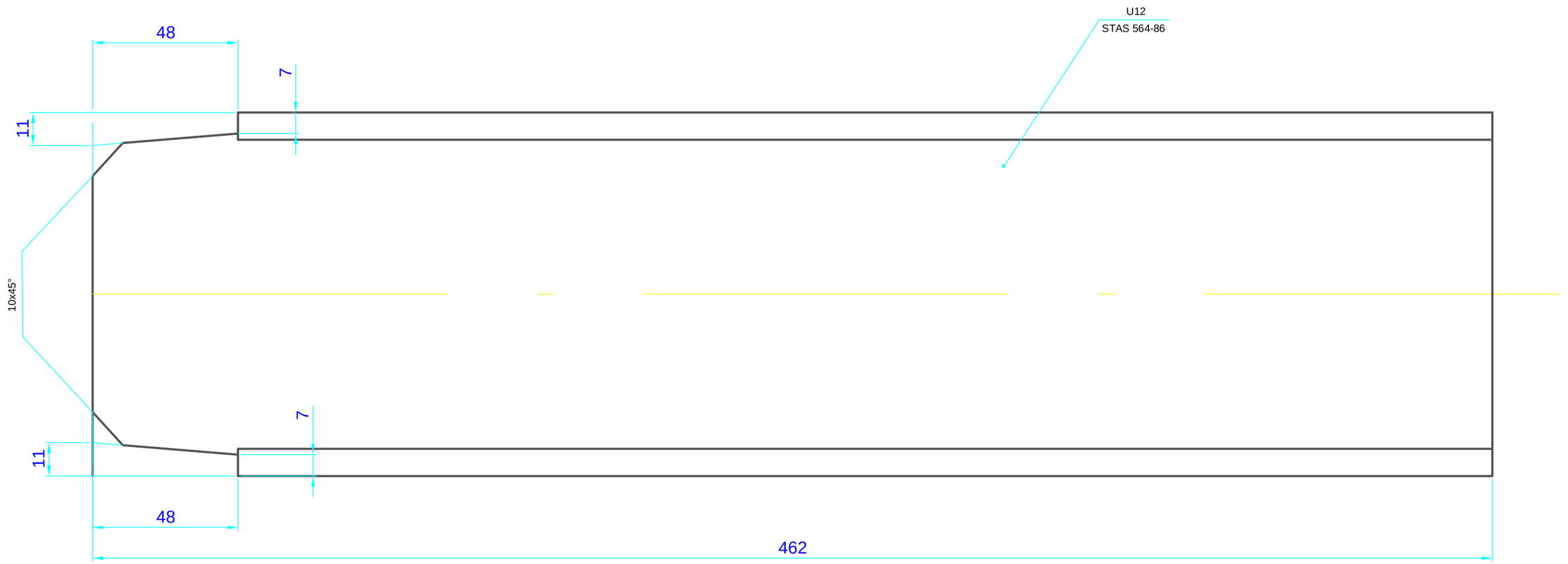


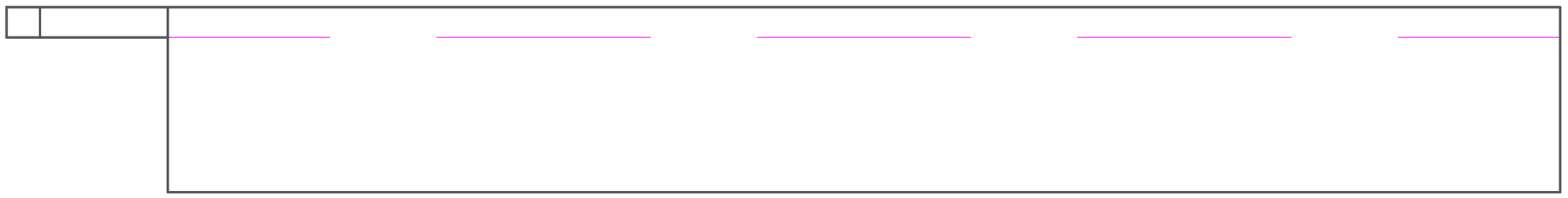
NOTA
- 1 bucata vedere ca in desen
- 1 bucata vedere in oglinda

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S355J2 SR EN 10025-2 2019 Masa: 157,400 kg	Proiect tehnologic (PETAL S.A. Huși) INOCEM 105.80-02.00.01.0	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși · INCDIE ICPE- CA Bucuresti · DEPARTAMENT IPCUP PLOIESTI	1 : 5 Data: *sept-nov.2022*	Longeron Asezare componente	



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*		S355J2 SR EN 10025-2 2019	Proiect tehnologic — PETAL S.A. Huși	F
	Desenat : *ing. P. Baraga*				
	Verificat : *dr. ing. I. Cucos*				
	Aprobat : *dr. ing. I. Cucos*		Masa: 26,650 kg	INOCEM 105.80-00.00.00.0	
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși · INCDIE ICPE- CA București · IPCUP		1 : 5	Traversa Poz 6	
			Data: *sept-nov.2022*	Platforma	

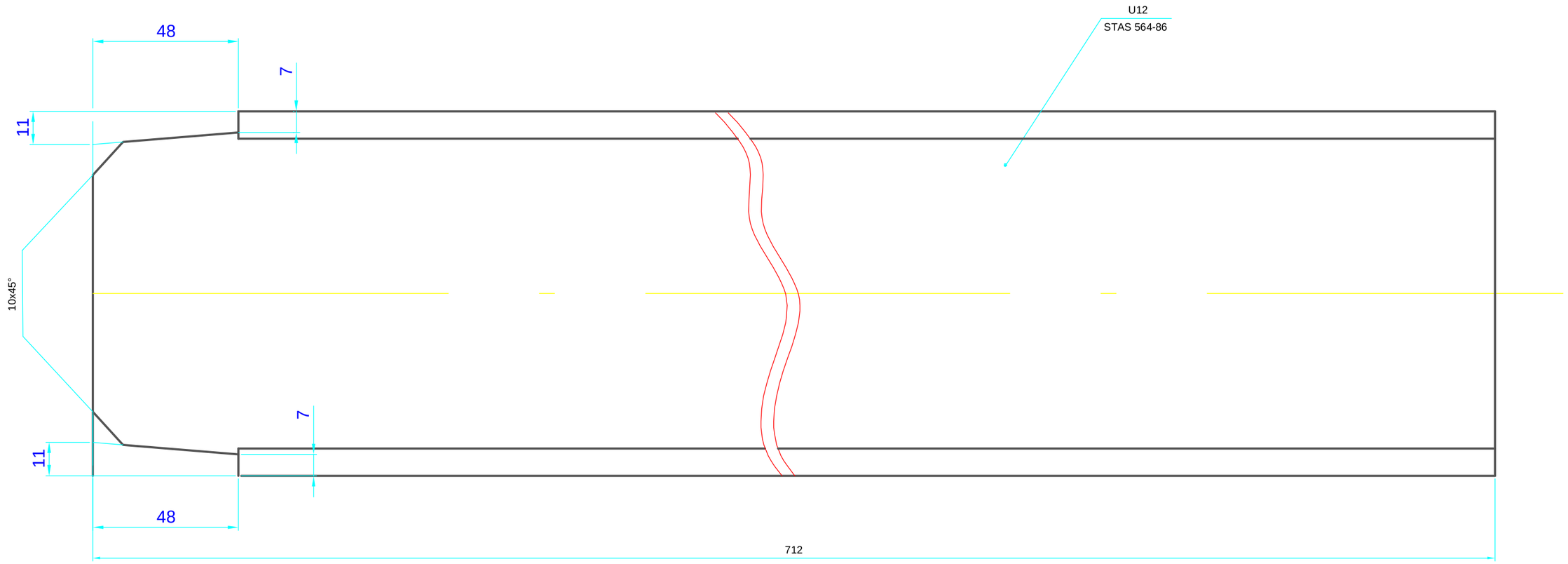


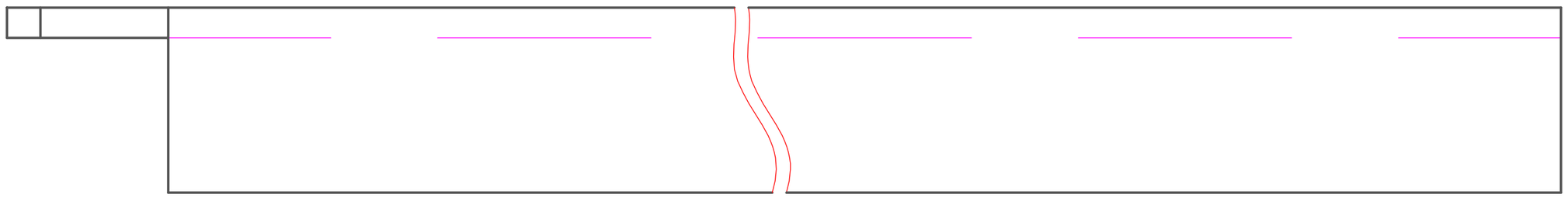


NOTA

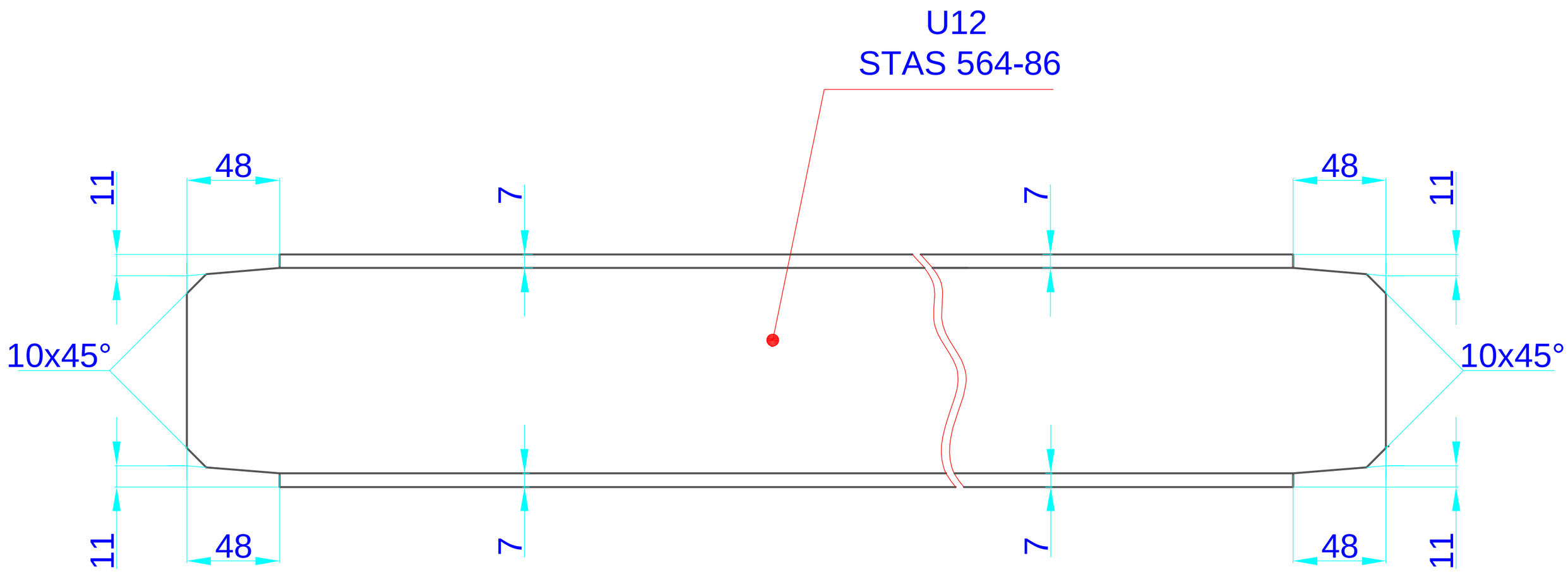
- 1 bucata vedere ca in desen
- 1 bucata vedere in oglinda

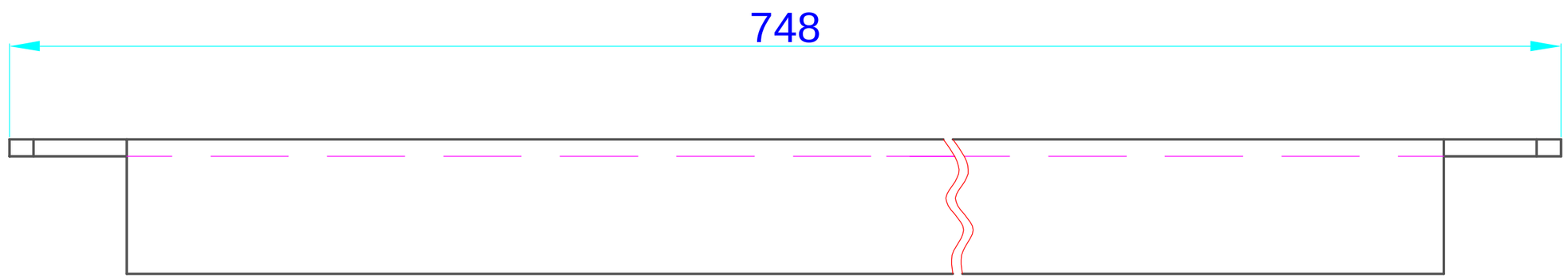
Toleranțe gen. ISO 2678 mK SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	S 35522 SR EN 10025-2 2019 Masa: 9,00 kg	Proiect tehnologic PETAL S.A. Hrsp	F
	S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic PETAL S.A. Hrsp INCDIE ICPE- CA Bucuresti IPCUP Husi	1 : 2	INOCEM 105.80-00.00.00.0 Traversa Poz 2	
		Data: sept-nov.2022	Platforma	



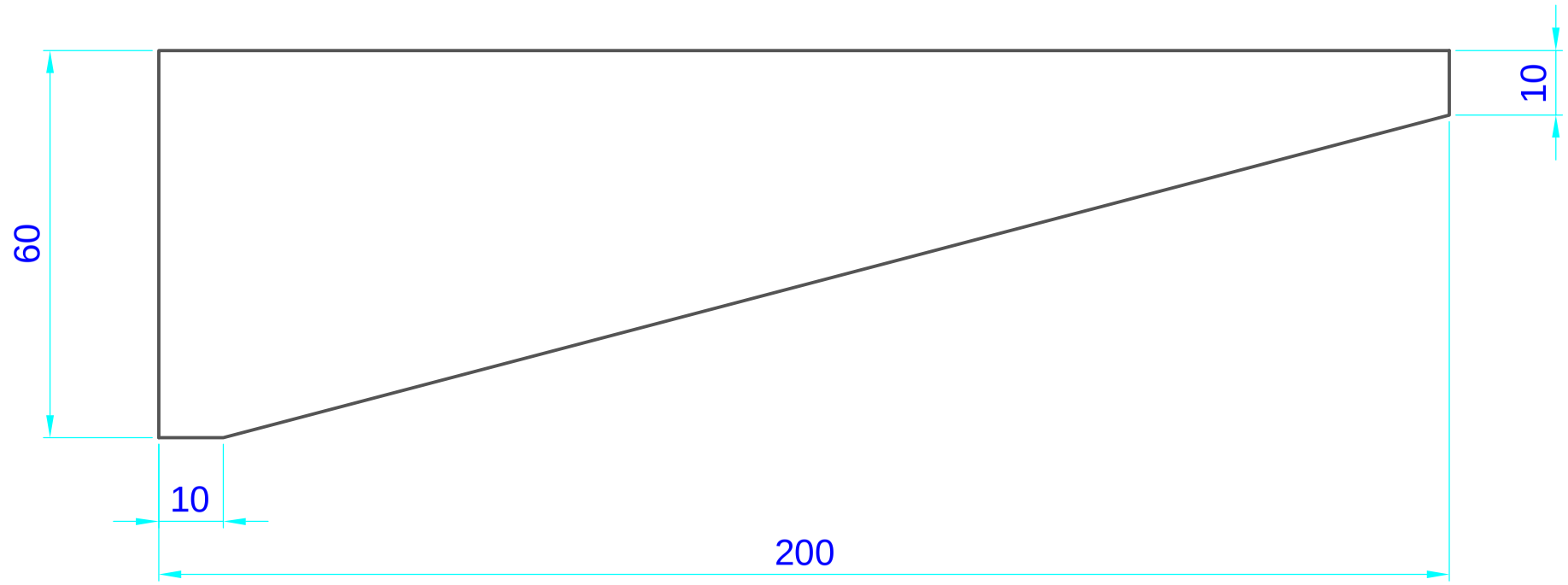


Toleranțe gen. ISO 2768-mK SR EN 22768-1+2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	S355J2 SR EN 10025-2:2019	Proiect tehnologic — PETAL S.A. Hup	F
		Masa: 9,00 kg	INOCEM 105.80-00.00.00.0	
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Hup — INCDIE ICPE - CA Bucuresti — IPCUP	1 : 1	Traversa Poz 9	
		Data: *sept-nov.2022*	Platforma	





Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*		S355J2 SR EN 10025-2 2019 Masa: 26,650 kg	Proiect tehnologic PETAL S.A. Hupi INOCEM 105.80-00.00.00.0	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Hupi · INCDIE ICPE- CA Bucuresti · IPCUP		1 : 5 Data: *sept-nov.2022*	Traversa Poz 10 Platforma	



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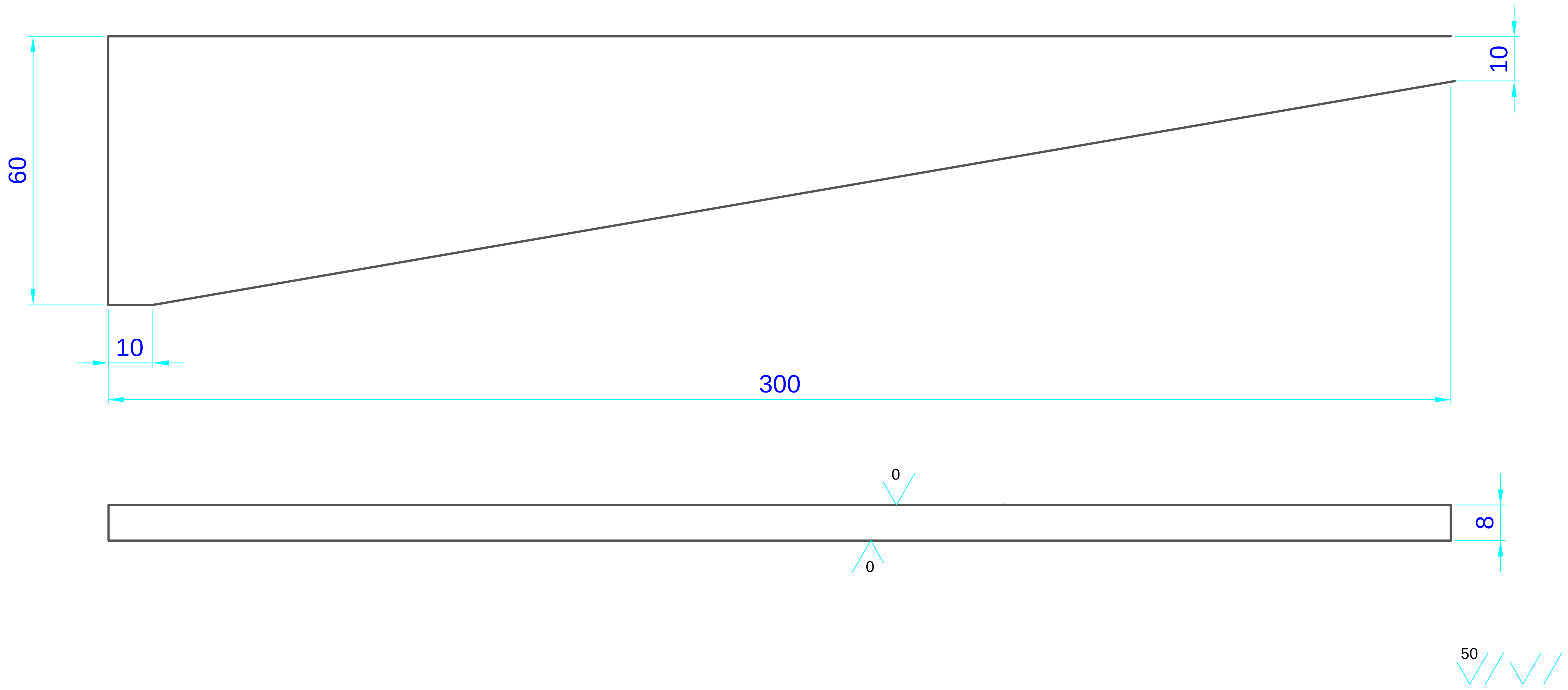
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic — PETAL S.A. Huși	F
	Desenat : *ing. P. Baraga*			
	Verificat : *dr. ing. I. Cucos*			
	Aprobat : *dr. ing. I. Cucos*	Masa: ..... kg	INOCEM 105.80-00.00.00.0	
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși · INCDIE ICPE- CA Bucuresti · IPCUP Horezu	1 : 2	Nervura Poz 3	
		Data: *sept-nov.2022*	Platforma	

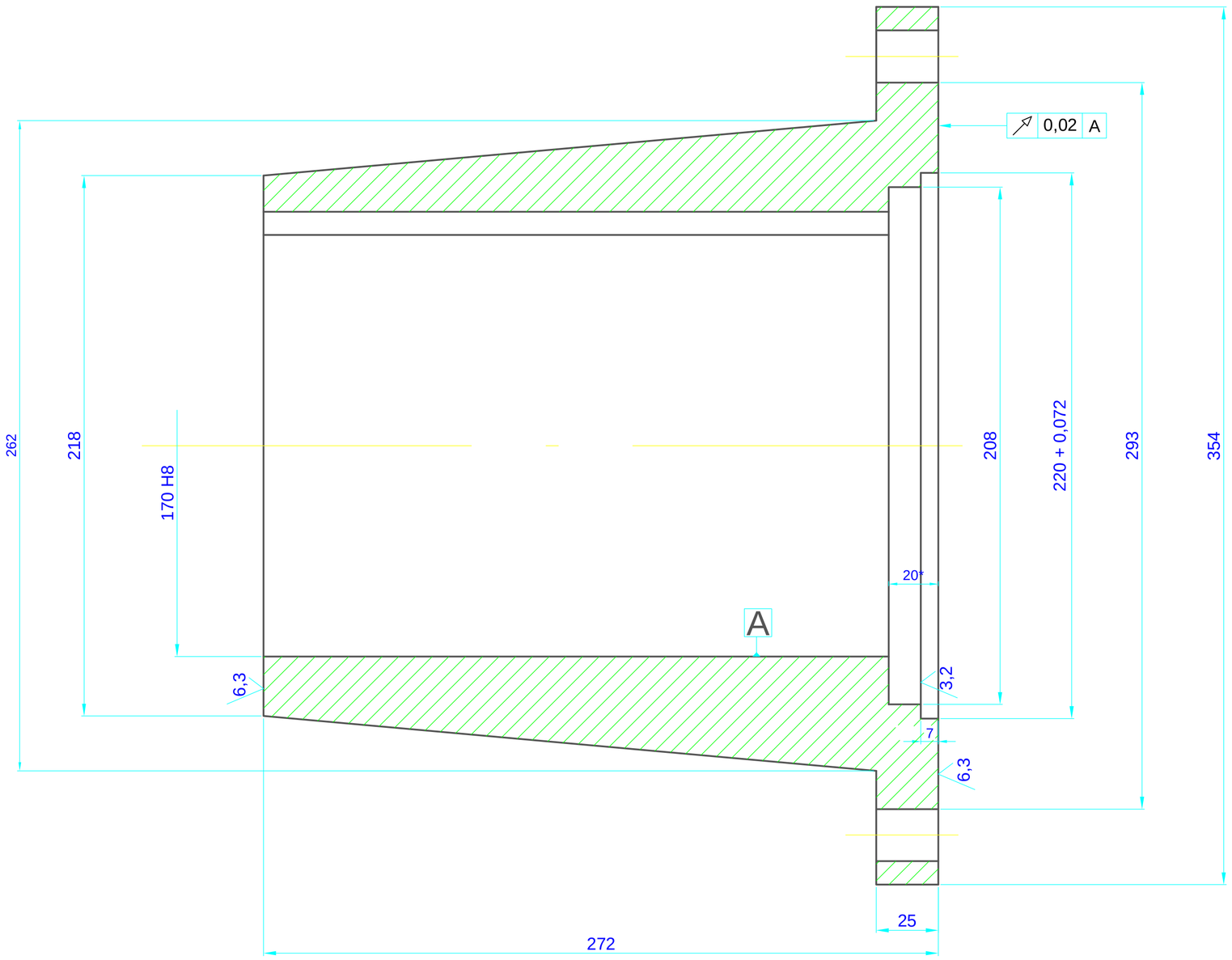


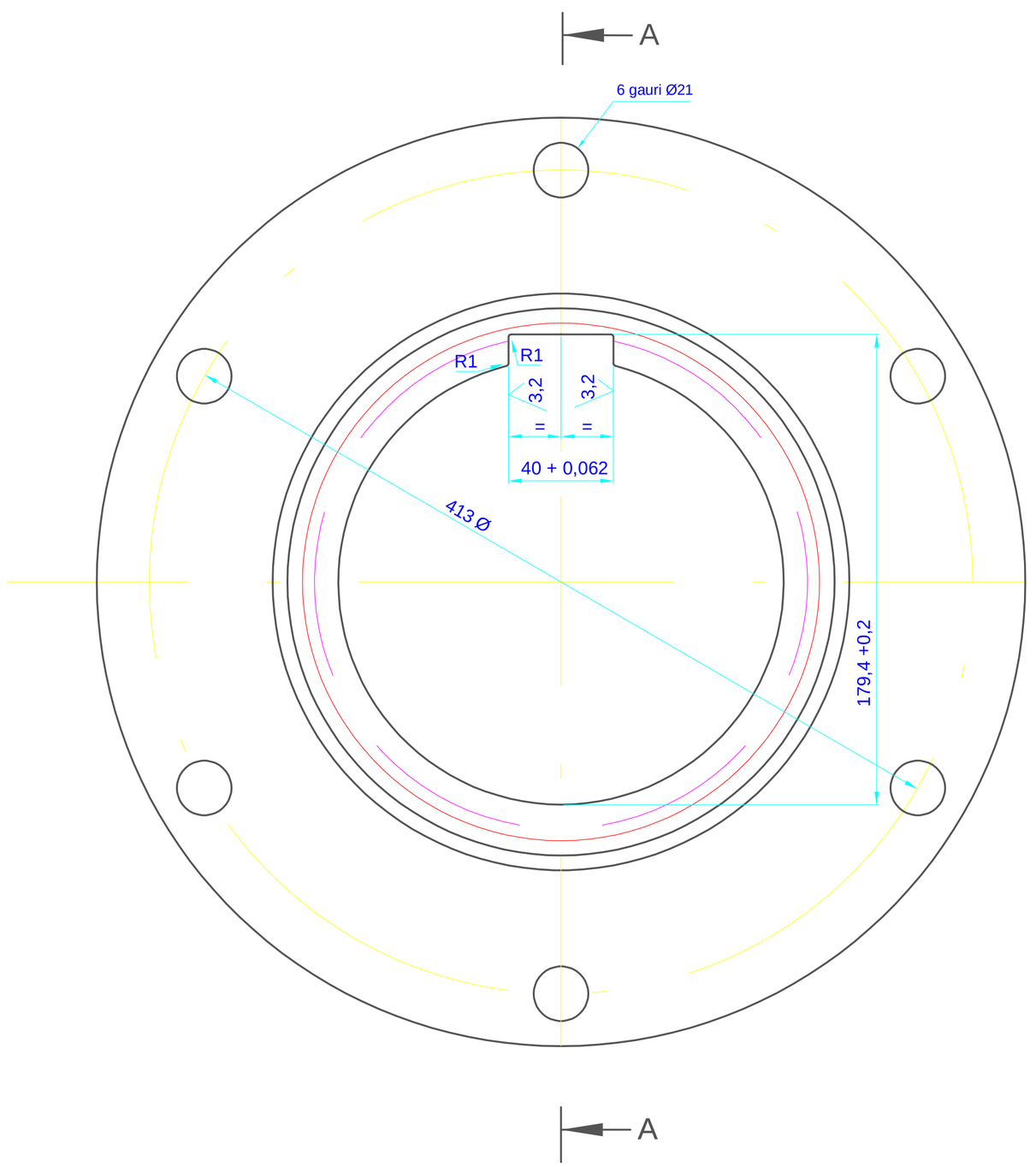
Proiectat :	*ing. T. Arhire*	S355J2 SR EN 10025-2 2019	Proiect tehnologic — PETAL S.A. Huși
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,500 kg	INOCEM 105.80-00.00.00.0
S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși · INCDIE ICPE-CA București · IPCUP		1 : 1	Placa Poz 21
		Data: *sept-nov.2022*	Platforma

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

F

Sectiunea A-A





CONDITII TEHNICE:
1. Duritatea piesei HB 187-207 daN/mm^2 ;
2. Muchiile ascutite se vor rotunji R 0,5.
3. Gaurile Ø21 se vor aleza impreuna cu flansa legatura motor.

NOTA
Cota notata cu * se definitiveaza in functie de surubul
si saiba axului motor

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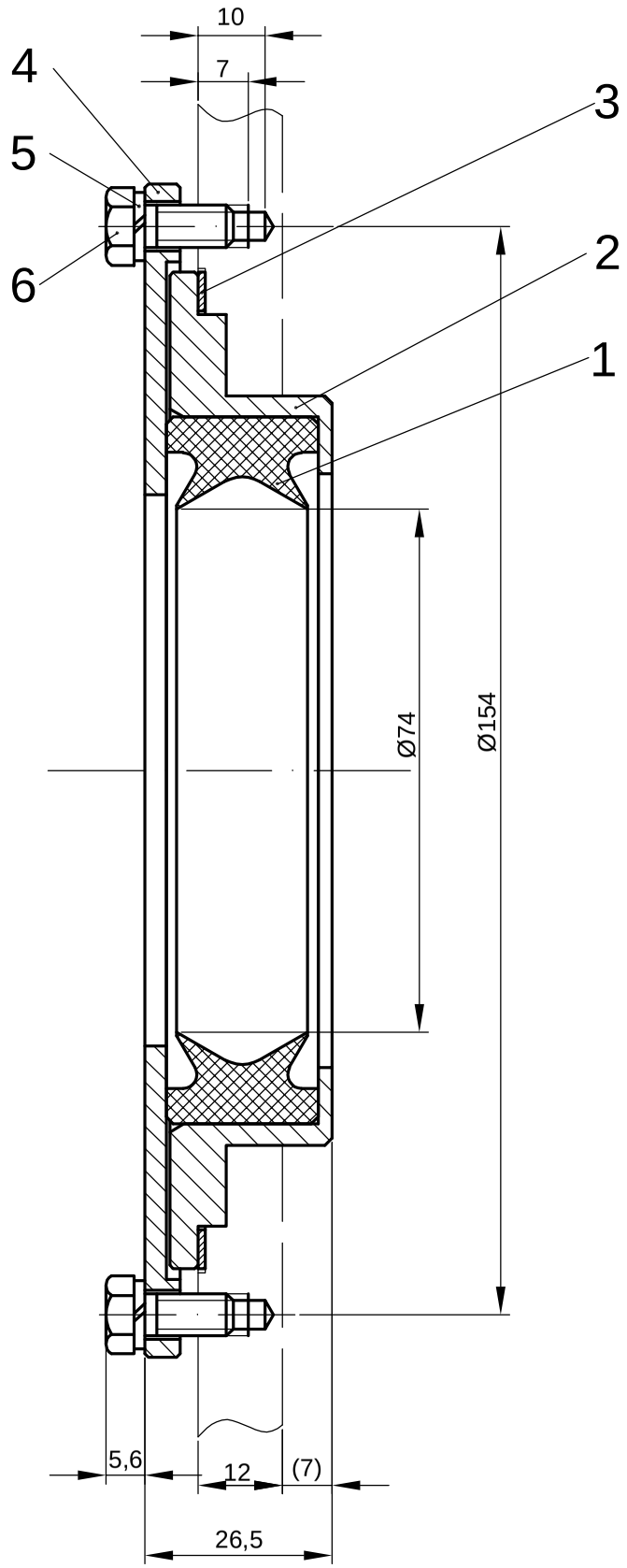
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	S355J2G3 SR EN 10025-2 2004 Masa: ..... kg	Proiect tehnologic — PETAL S.A. Husi	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Husi — INCDIE ICPE- CA Bucuresti — IPCUP Timisoara	1 : 2	Flansa motor	
		Data: *sept-nov.2022*	LEGATURA MOTOR	



Poz.	Denumirea	Referinte	Buc.	Material	Observatii	Masa kg./buc.
6	Şurub M6 x 14 PT	STAS 4845 - 89	4	gr.5.6	Cd 5 FL	0,005
5	Şaibă Grower 6	STAS 7666/2 - 89	4	-		0,0005
4	Inel de fixare	PET10-02.19.04.0	1	OL 52.4		0,475
3	Garnitură Ø130 x Ø141 x 1	PET10-02.19.03.0	1	Carton	Fără desen	0,002
2	Casetă	PET10-02.19.02.0	1	OL 37		0,700
1	Garnitură	PET10-02.19.01.0	1	Cauciuc		0,055

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat : *ing. T. Arhire*
Desenat : *ing. P. Baraga*
Verificat : *dr. ing. I. Cucos*
Aprobat : *dr. ing. I. Cucos*

Masa: 1,254 kg

Proiect tehnologic PETAL S.A. Huşi

INOCEM 10-02.00.00.0

Ca

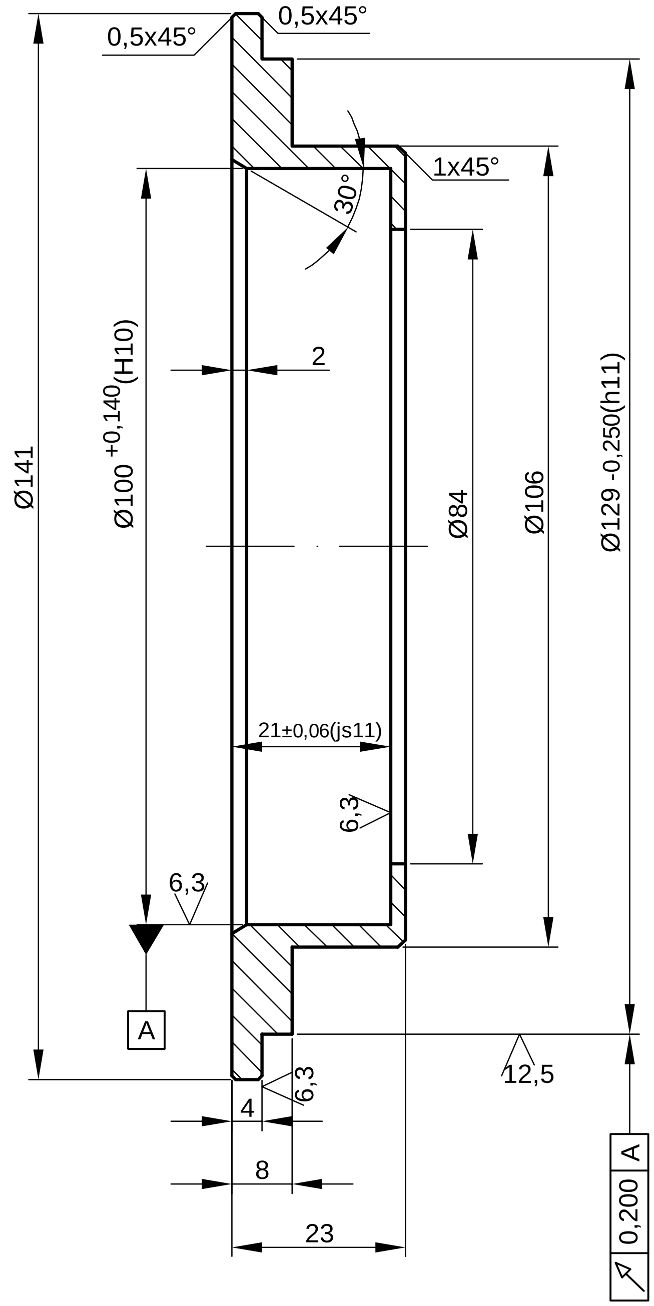
S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic
PETAL S.A. Huşi

1 : 1

Data: *sept-nov.2022*

Caseta de etansare

Mecanism motor



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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	OL 37 STAS 500/2-80	Proiect tehnologic — PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,700 kg	INOCEM 10-02.19.00.0

Ca

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

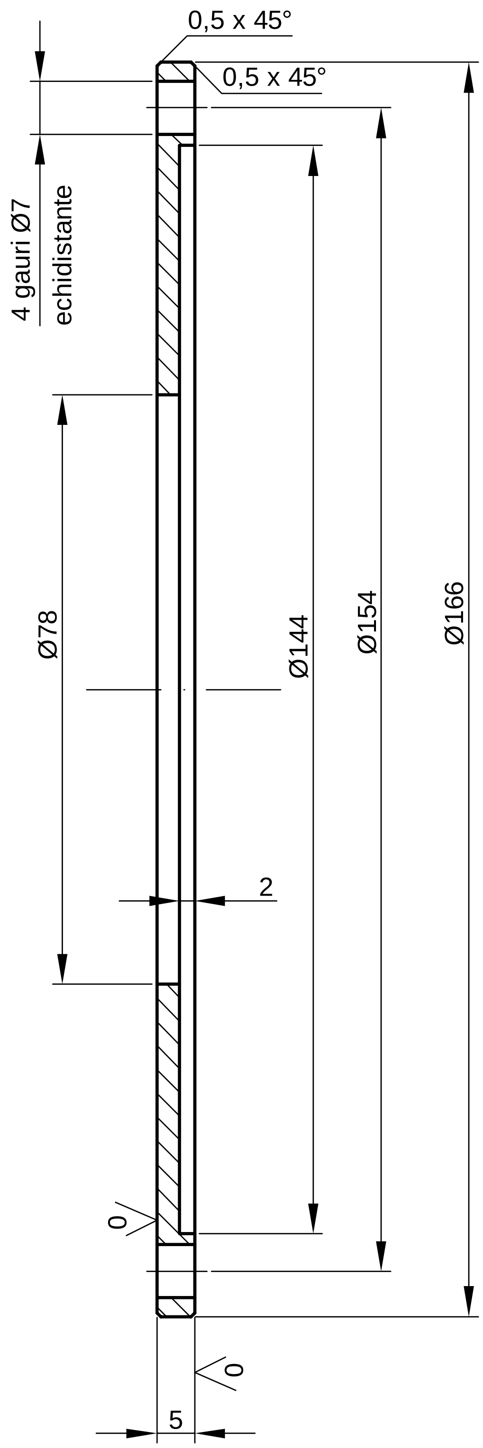
PETAL S.A.
Huşi

1 : 1

Caseta

Data: *sept-nov.2022*

Caseta de etansare



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Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat :	*ing. T. Arhire*	
	Desenat :	*ing. P. Baraga*	
	Verificat :	*dr. ing. I. Cucos*	
	Aprobat :	*dr. ing. I. Cucos*	

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A.
Huşi

OL 52.4
STAS 500/2-80

Masa: 0,475 kg

1 : 1

Data: *sept-nov.2022*

Proiect tehnologic

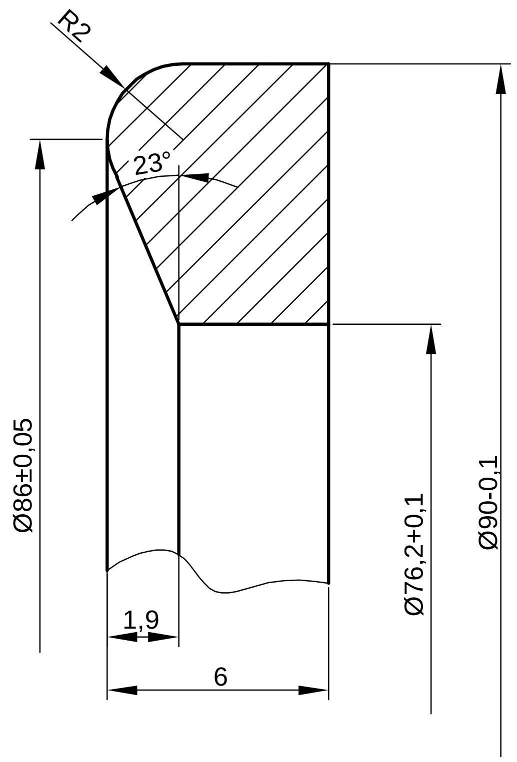
PETAL S.A.
Huşi

Ca

INOCEM 10-02.19.04.0

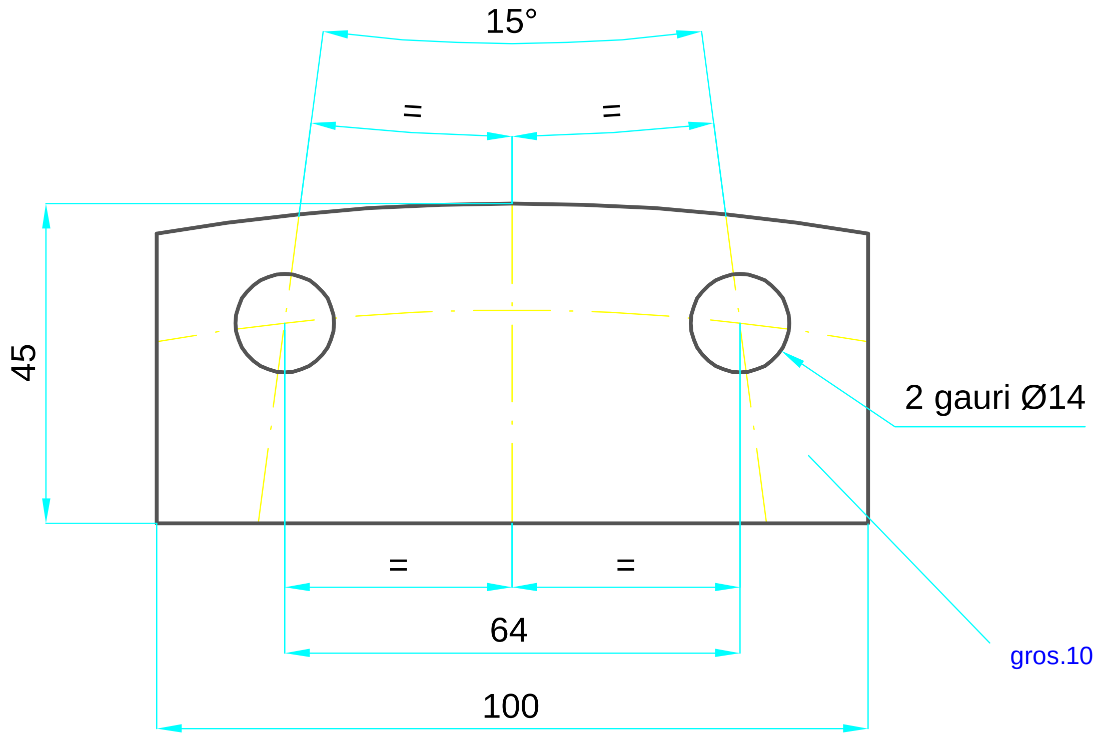
Inel de fixare

Caseta de etansare



NOTA:Muchiile ascutite se tesesc 1x45°.

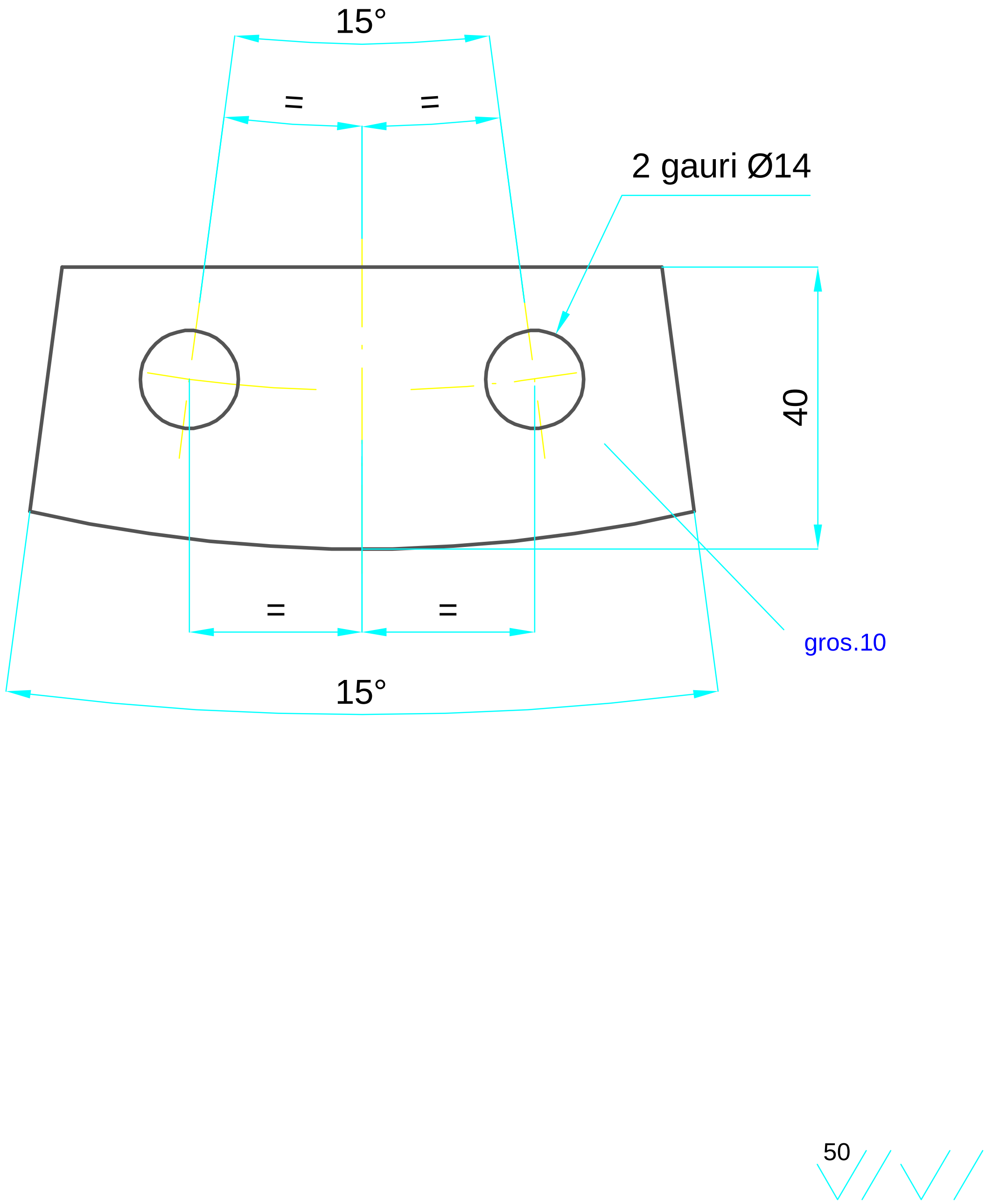
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	CuSn6Zn4Pb4	Proiect tehnologic — PETAL S.A. Huși
	Desenat : *ing. P. Baraga*		Ca
	Verificat : *dr. ing. I. Cucos*		
	Aprobat : *dr. ing. I. Cucos*	Masa: 0,095 kg	INOCEM 10-02.19.07.0
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși	5 : 1	Inel de presare
		Data: *sept-nov.2022*	Caseta de etansare



Proiectat :	*ing. T. Arhire*	S 355 J2 SR EN 10025/2/2019	Proiect tehnologic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,345 kg	INOCEM 616.15-02.00.03.0
S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi · INCDIE ICPE-CA Bucuresti · IPCUP		1 : 1	Sector fixare 2
		Data: *sept-nov.2022*	Mecanism motor ansamblu

F

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2



Proiectat :	*ing. T. Arhire*	S 355 J2 SR EN 10025/2/2019	Proiect tehnologic PETAL S.A. Huși	F
Desenat :	*ing. P. Baraga*			
Verificat :	*dr. ing. I. Cucos*			
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,280 kg	INOCEM 616.15-00.00.07.0	

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

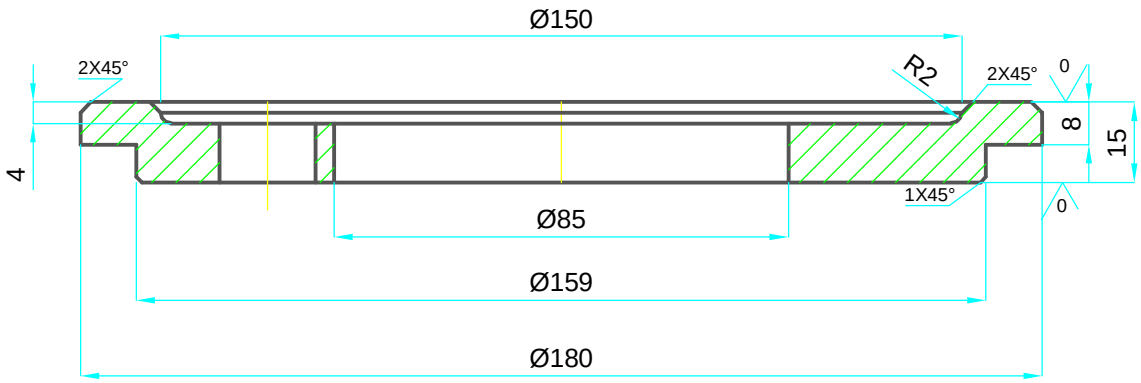
PETAL S.A. Huși — INCDIE ICPE-CA Bucuresti — IPCUP

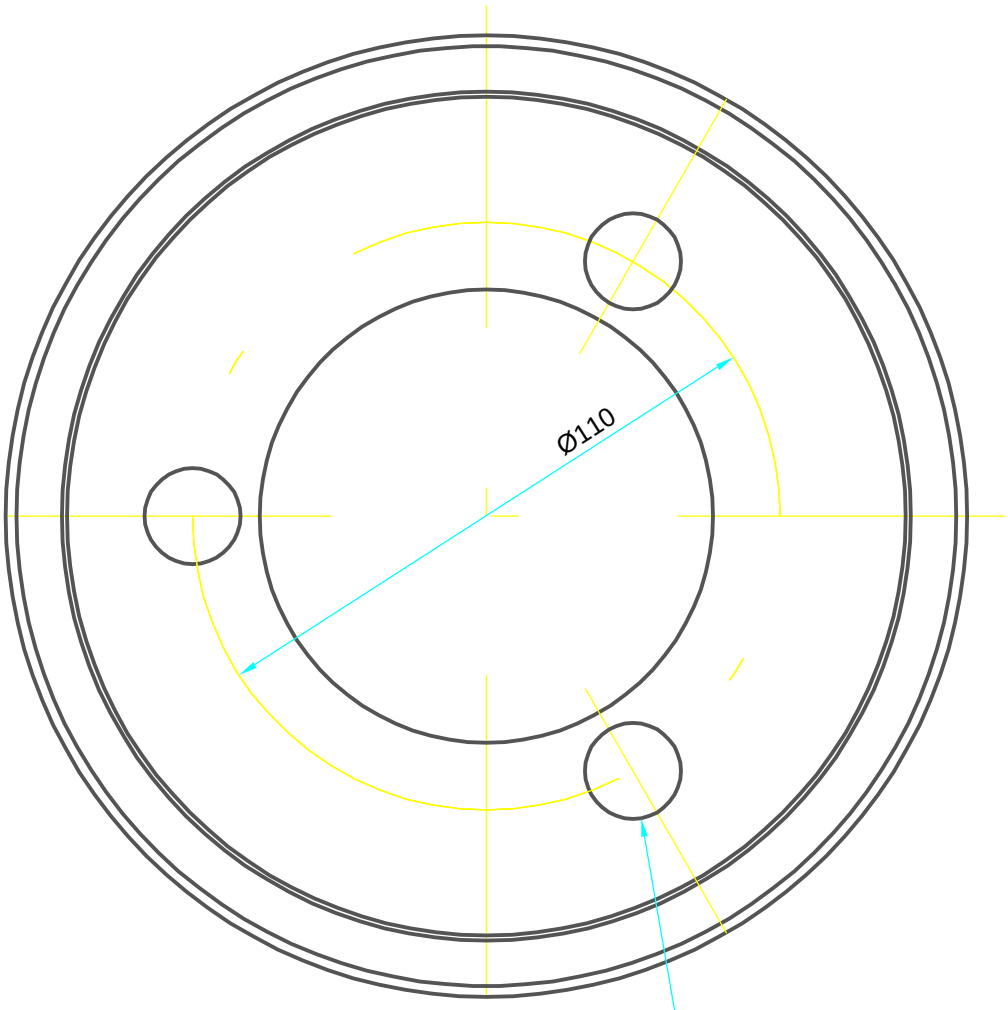
1 : 1

Sector de fixare

Data: *sept-nov.2022*

Mecanism motor ansamblu

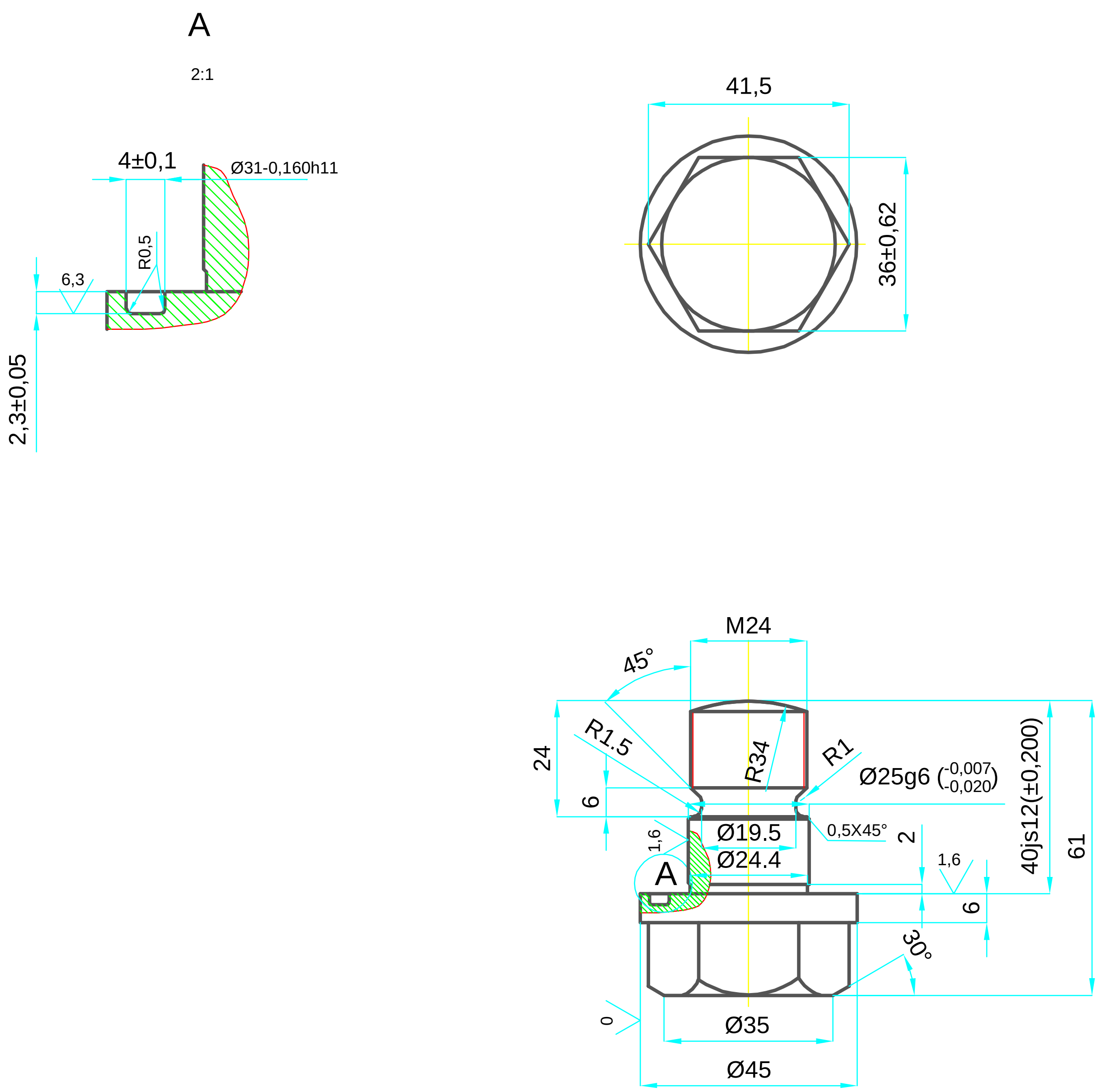




3 gauriØ18 echidistante

25

Tolerante gen. ISO 2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	S 355 J2 SR EN 10025/2/2019 Masa: 1,460 kg	Proiect tehnologic INOCEM 616.15-02.00.11.0	PETAL S.A. HușI	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. HușI INCDIE ICPE- CA București IPCUP Academia	1 : 1 Data: *sept-nov.2022*	Capac Mecanism motor ansamblu		

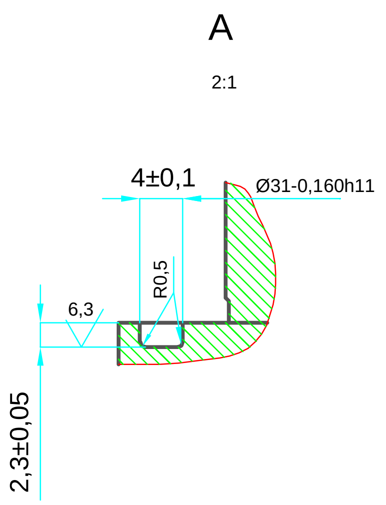


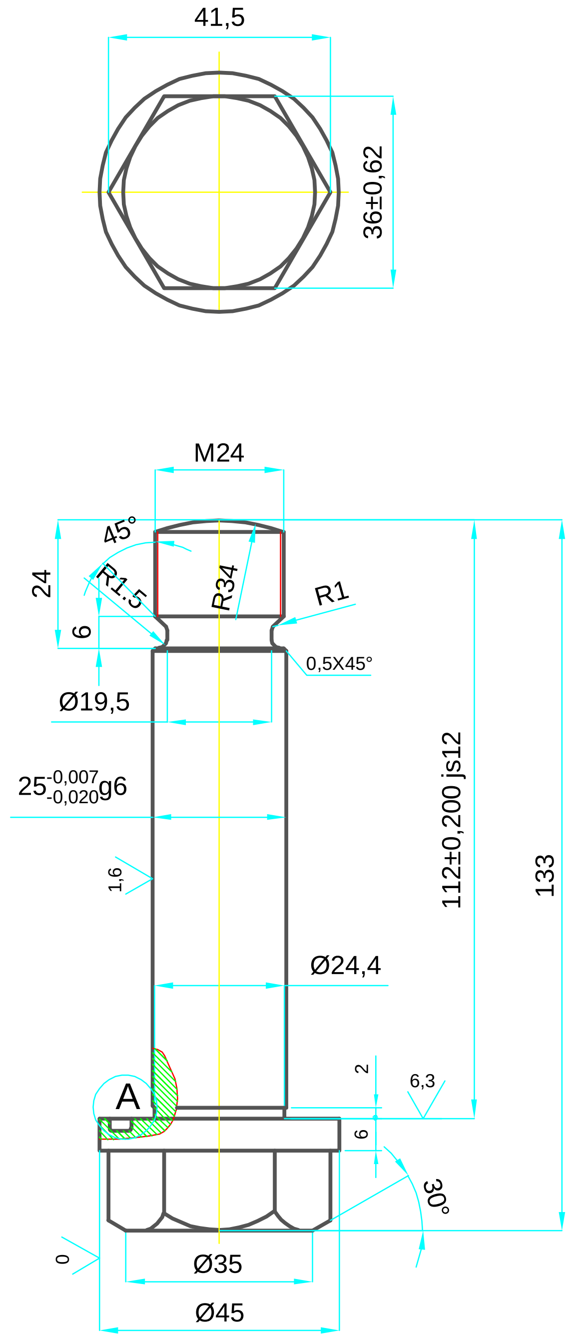
CONDITII TEHNICE

Protejare:AE/OL/Cd 12Fl SR EN ISO 2080:2009

25

Toleranțe gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat: ing. T. Arhire Desenat: ing. P. Baraga Verificat: dr. ing. I. Cucos Aprobat: dr. ing. I. Cucos	C 45 E SR EN 10250/3/2002 Masa: 0,265 kg	Proiect tehnologic — PETAL S.A. Huși — F INOCEM 616.15-02.00.21.0
	S.C. "PETAL" S.A. HUSI **INOCEM - CF 260/2020 cod SMIS 120032** **Proiect Tehnic** PETAL S.A. Huși — INCDIE ICPE-CA București — IPCUP	1 : 1 Data: *sept-nov.2022*	Surub de pasuire Mecanism motor ansamblu

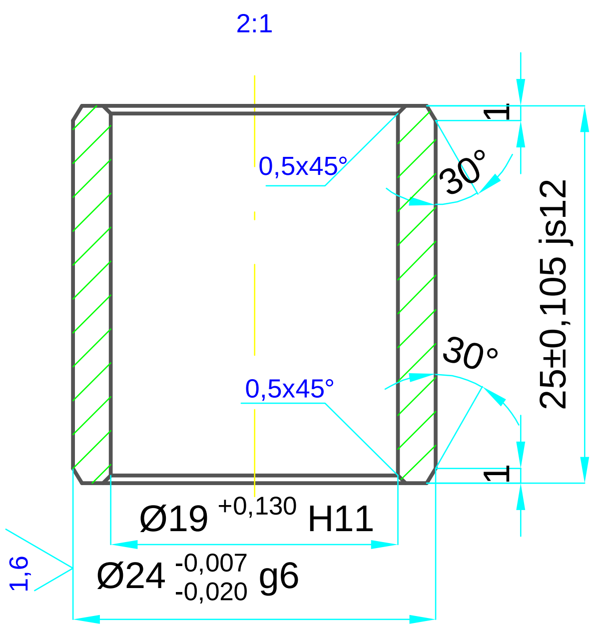




CONDITII TEHNICE

Protejare:AE/OL/Cd 12Fl SR EN ISO 2080:2009

Tolerante gen. ISO 2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire	34 CrMo0 SR EN 10250/3/2002	Proiect tehnologic	F
	Desenat : ing. P. Baraga		INOCEM 616.15-02.00.22.0	
	Verificat : dr. ing. I. Cucos	Masa: 1,460 kg		
	Aprobat : dr. ing. I. Cucos			
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși INCDIE ICPE-CA București IPCUP	1 : 1	Surub pasuire 2	
		Data: *sept-nov.2022*	Mecanism motor ansamblu	



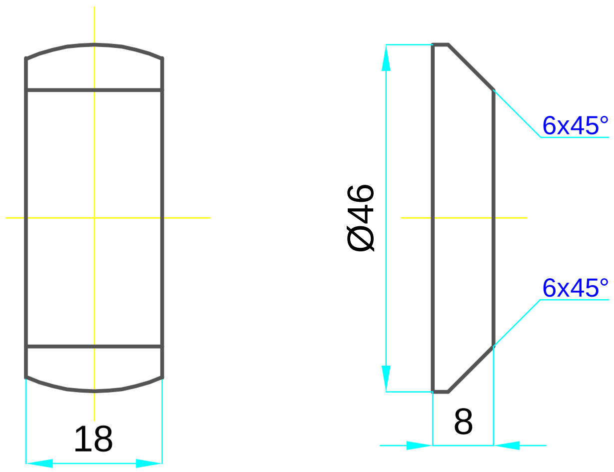
CONDITII TEHNICE

Imbunatatit la duritatea 280.......320 HB.

25

Proiectat :	*ing. T. Arhire*	42CrMo4 SR EN 10250/3/2002	Proiect tehnologic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		INOCEM 616.15-02.24.07.0
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,033 kg	F
S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi INCDIE ICPE- CA Bucuresti DEPARTAMENT IPCUP PLOIESTI		1 : 1	Bucsa de centrare
		Data: *sept-nov.2022*	Mecanism motor ansamblu

Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2



Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	S 355 J2 SR EN 10025/2/2019	Proiect tehnologic — PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		INOCEM 616.15-02.25.03.0
Verificat :	*dr. ing. I. Cucos*	Masa: 0,050 kg	F
Aprobat :	*dr. ing. I. Cucos*		

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

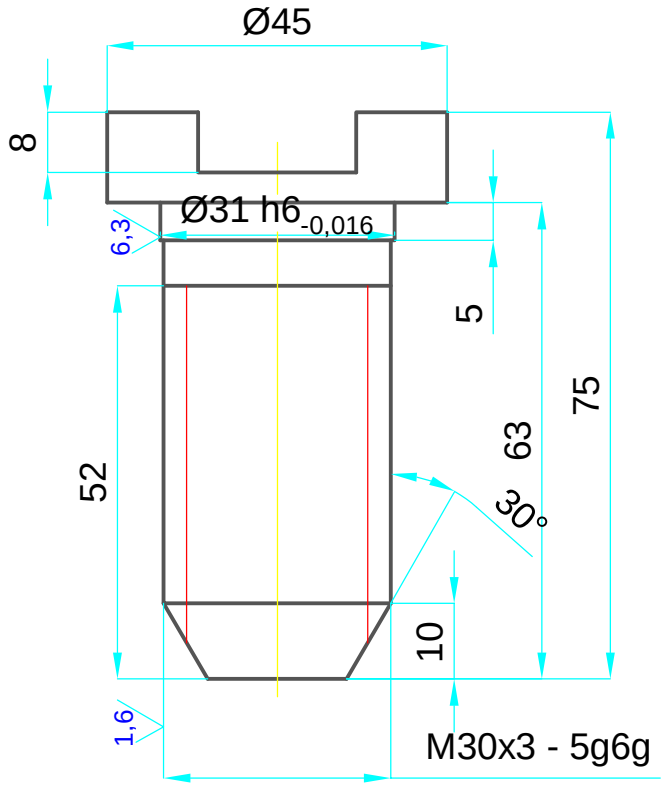
PETAL S.A. Huşi — INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

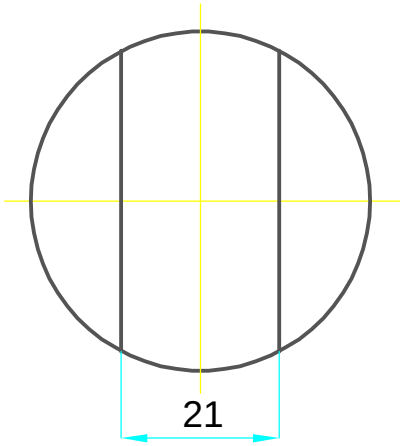
1 : 1

Punte

Data: *sept-nov.2022*

Mecanism motor ansamblu



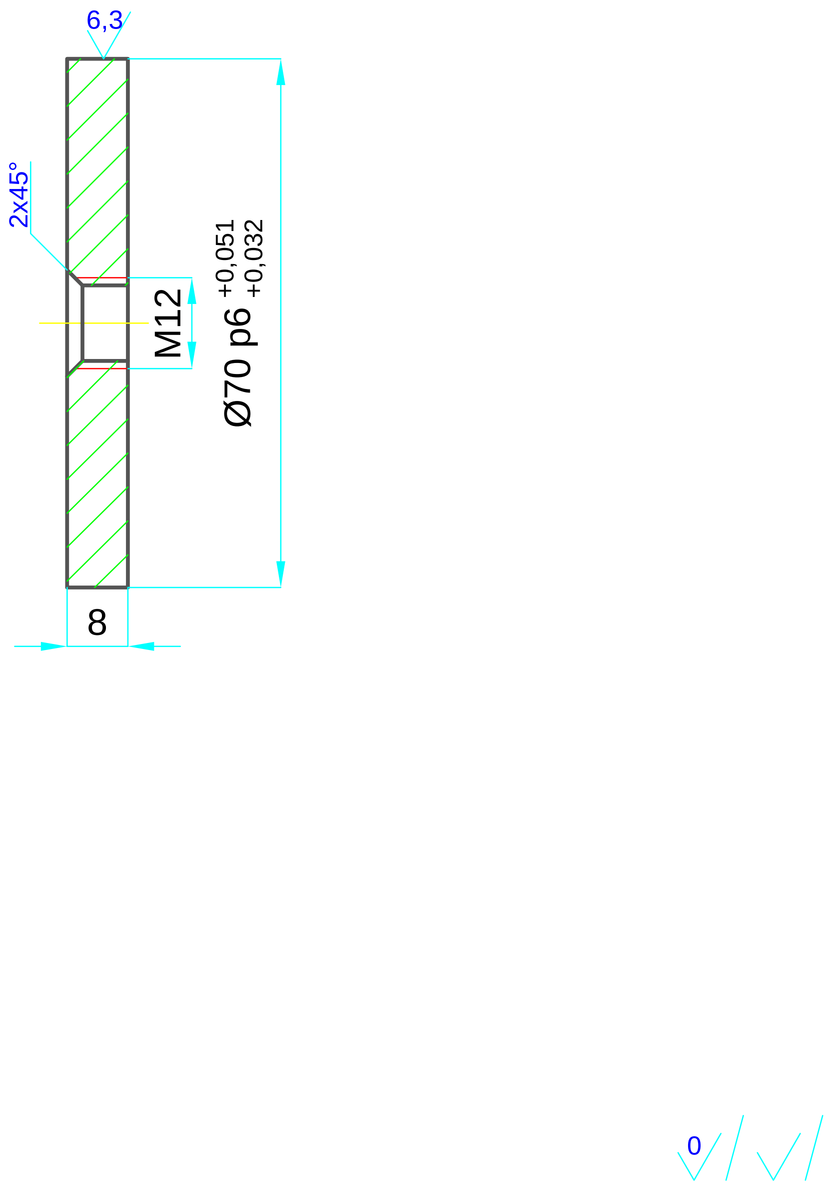


CONDITII TEHNICE

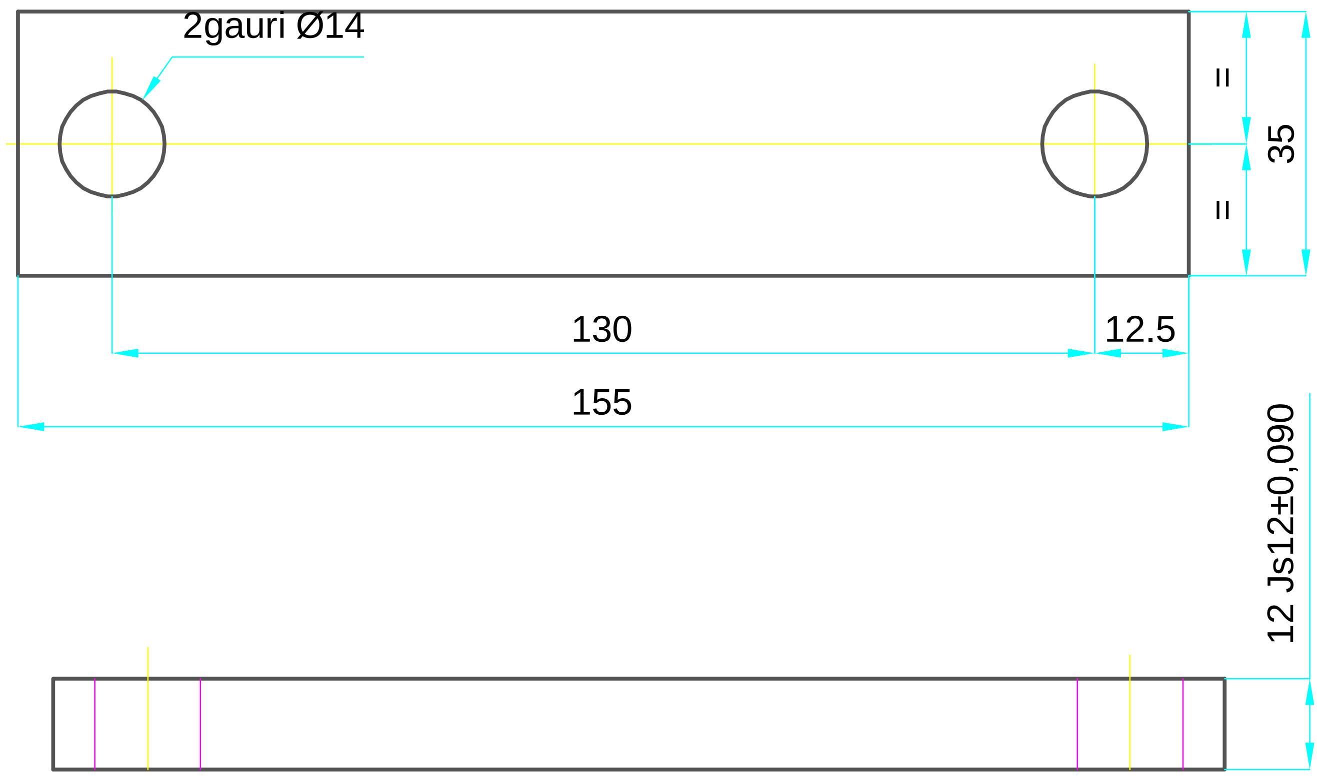
Tratament termic : imbunatatit la duritatea : 230..... 270 HB;
Protectie: AE / OL / Cd 12 FL SR EN ISO 2082:2018.

25

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat :	ing. T. Arhire		34CrMo4 SR EN 10250/3/2002		Proiect tehnologic	PETAL S.A. Huși	F	
	Desenat :	ing. P. Baraga							
	Verificat :	dr. ing. I. Cucos							
	Aprobat :	dr. ing. I. Cucos		Masa: 0,410 kg		INOCEM 616.15-02.25.02.0			
	S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic PETAL S.A. Huși INCDIE ICPE- CA Bucuresti IPCUP			1 : 1		Surub special			
				Data: sept-nov.2022		Mecanism motor ansamblu			



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	S 355 J2 SR EN 10025/2/2019	Proiect tehnologic PETAL S.A. Huşi
	Desenat : *ing. P. Baraga*		
	Verificat : *dr. ing. I. Cucos*		INOCEM 616.15-02.25.08.0
	Aprobat : *dr. ing. I. Cucos*	Masa: 0,236 kg	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huşi INCDIE ICPE- CA Bucuresti DEPARTAMENT IPCUP PLOIESTI	1 : 1	Capac
		Data: *sept-nov.2022*	Mecanism motor ansamblu



Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	34CrMo4 SR EN 10250/3/2002	Proiect tehnologic — PETAL S.A. Huși	F
Desenat :	*ing. P. Baraga*			
Verificat :	*dr. ing. I. Cucos*			
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,490 kg	INOCEM 616.15-02.25.09.0	

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

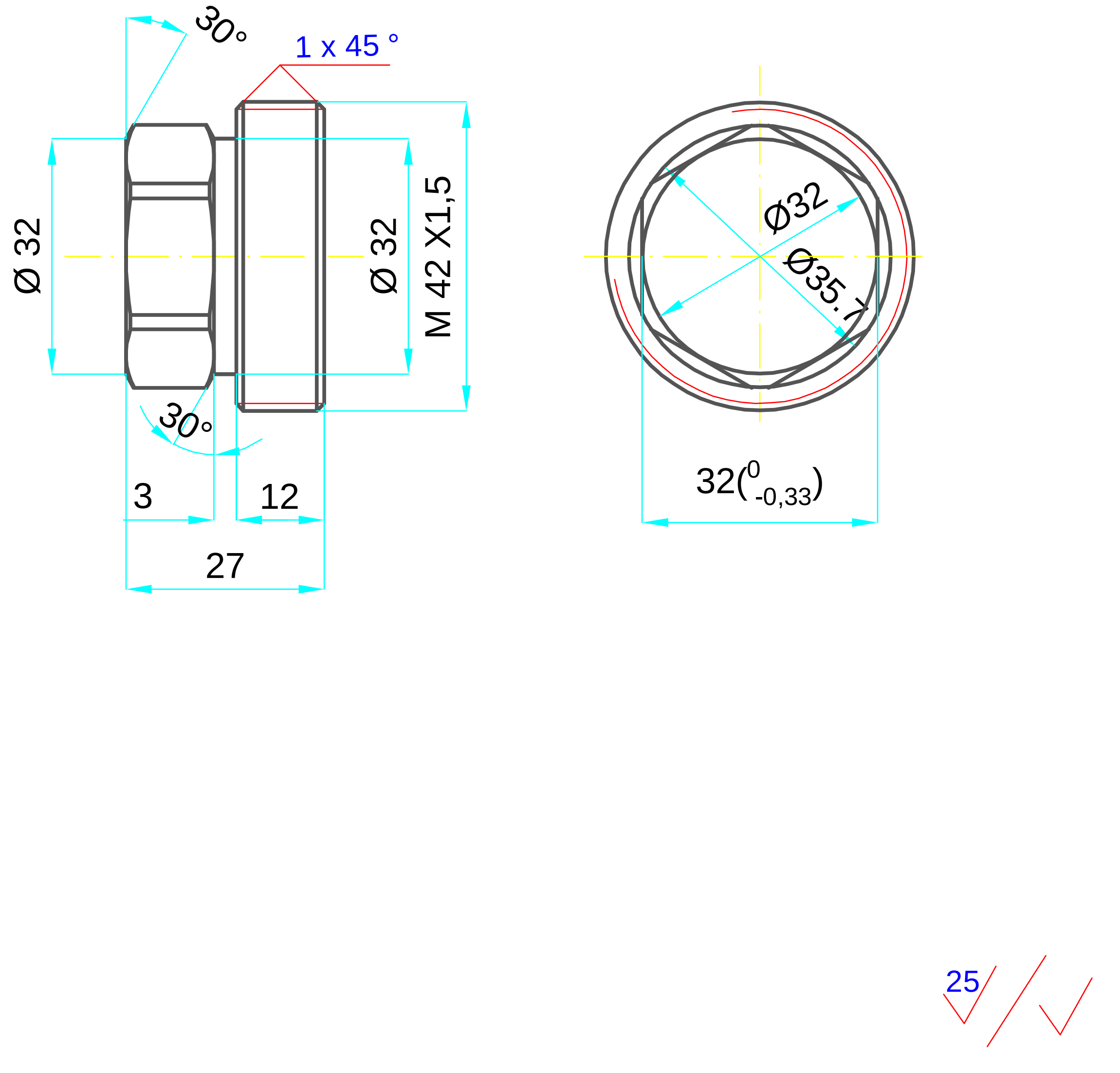
PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

1 : 1

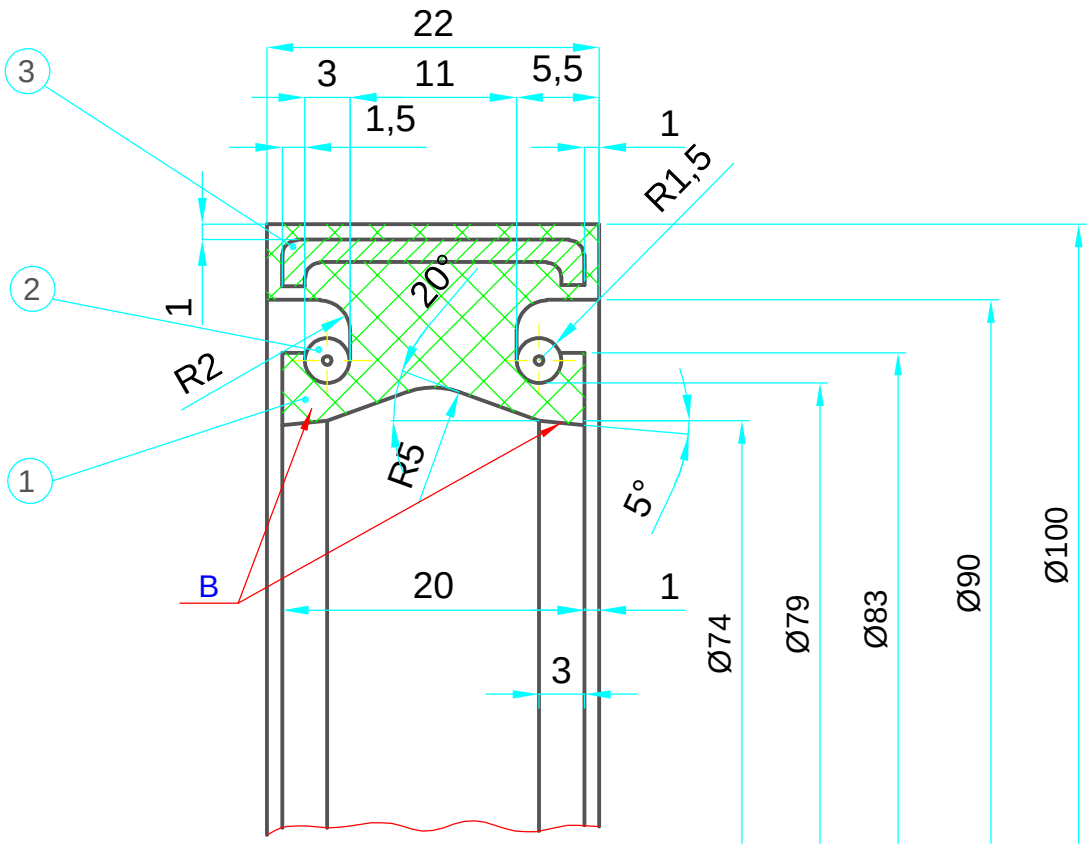
Pana

Data: *sept-nov.2022*

Mecanism motor ansamblu



Toleranțe gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*	C45E SR EN 10250/2/2002	Proiect tehnologic PETAL S.A. Huși
	Desenat : *ing. P. Baraga*		F
	Verificat : *dr. ing. I. Cucos*		
	Aprobat : *dr. ing. I. Cucos*	Masa: 0,215 kg	INOCEM 616.15-00.00.07.0
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși INCDIE ICPE- CA Bucuresti DEPARTAMENT IPCUP PLOIESTI	1 : 1	Dop filetat
		Data: *sept-nov.2022*	Mecanism motor ansamblu



CONDITII TEHNICE

1. Mediu de lucru: ulei hidraulic;
2. Temperatura de lucru -45°...+90°;
3. Cotele netolerate se vor incadra in clasa de precizie P2 SR ISO 3302-1:2008;
4. Pe suprafetele de etansare "B" nu se admit bavuri, lipsa de material, impaturiri sau alte defecte care ar periclita buna functionare;
5. Garnitura se va executa din cauciuc tip NBR rezistent la -45° si caracteristici fizico-mecanice conform SR EN 682:2002/A1:2006, clasa PF80A;
6. Garnitura se va marca cu un punct de culare albastru deschis, conform STI $^{1}/_{87}$.

NOTA In cazul executiei la SC AXON SRL garnitura se va executa din cauciuc F2 (STI 4/1-90).

Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.
3	Armatura	616.15-02.30.03.0	1	S 235 JR SR EN 10025/2:2019		0,076
2	Arc	616.15-02.30.02.0	2	OLC 65A		0,006
1	Garnitura	616.15-02.30.01.0	1	cauciuc	fara desen	0,050

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

Proiectat :	ing. T. Arhire	
Desenat :	ing. P. Baraga	
Verificat :	dr. ing. I. Cucos	
Aprobat :	dr. ing. I. Cucos	

Masa: 0,138 kg

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic
PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — IPCUP

Proiect tehnologic — PETAL S.A. Huși

INOCEM 616.15-02.30.00.0

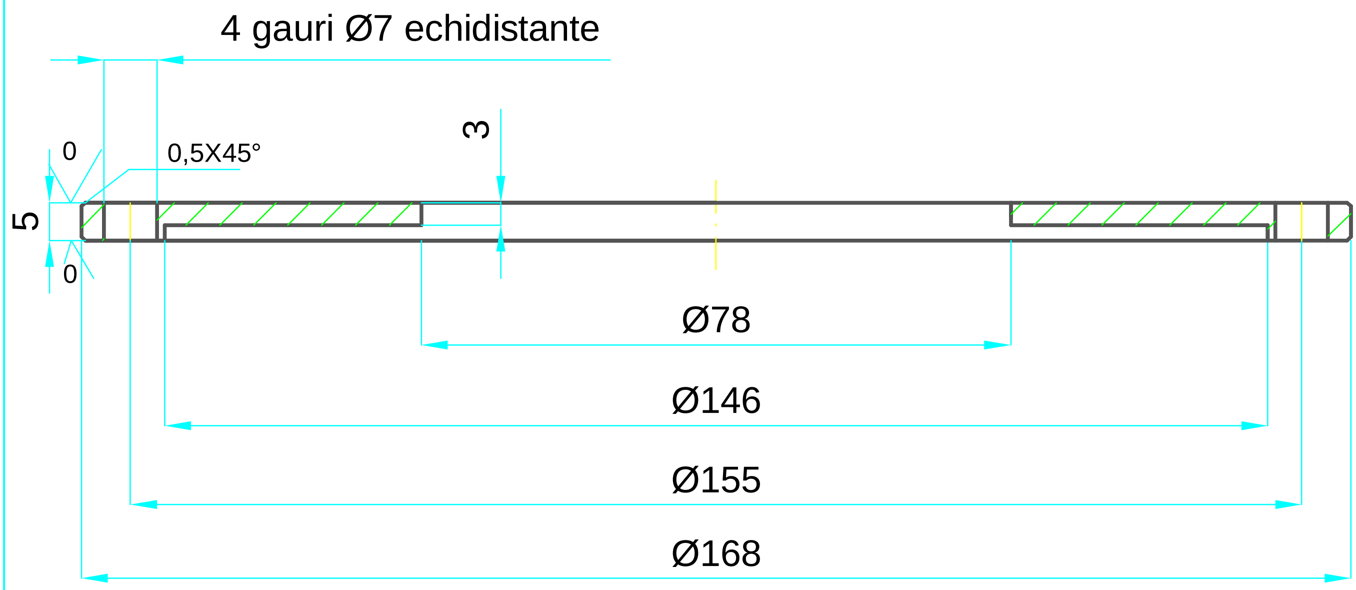
F

1 : 1

Garnitura

Data: *sept-nov.2022*

Mecanism motor ansamblu



Toleranțe gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*		S 355 J2 SR EN 10025/2/2019
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*		Masa: 0,520 kg

S.C. "PETAL" S.A. HUSI

INOCEM - CF 260/2020 cod SMIS 120032

Proiect Tehnic

PETAL S.A. Huși — INCDIE ICPE-CA București — IPCUP

1 : 1

Data: *sept-nov.2022*

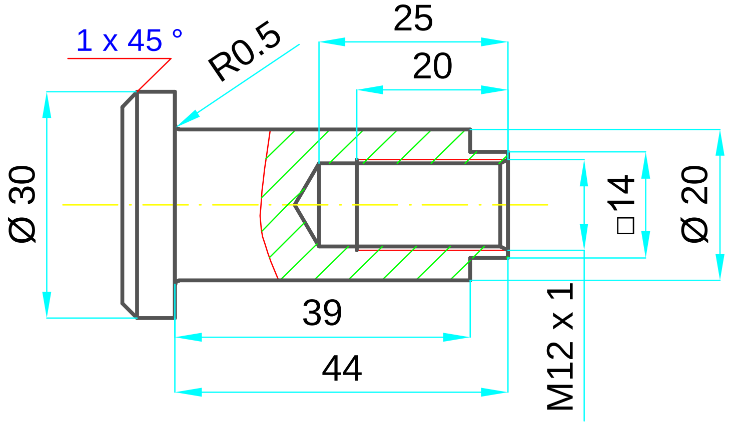
Proiect tehnologic — PETAL S.A. Huși

F

INOCEM 616.15-02.00.31.0

Inel de fixare

Mecanism motor ansamblu



Proiectat :	ing. T. Arhire	
Desenat :	ing. P. Baraga	
Verificat :	dr. ing. I. Cucos	
Aprobat :	dr. ing. I. Cucos	

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

C 45 E
SR EN 10250/2/2002

Masa: 0,120 kg

Proiect tehnologic

PETAL S.A. Huşi

F

INOCEM 616.15-02.35.02.0

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

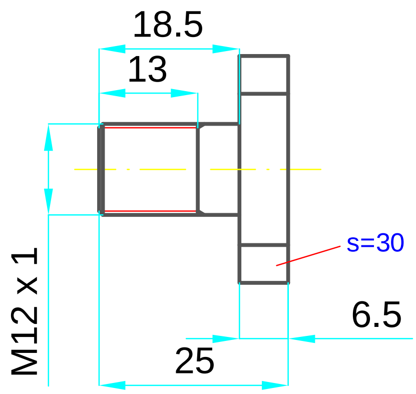
PETAL S.A. Huşi — INCDIE ICPE-CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

1 : 1

Bolt

Data: *sept-nov.2022*

Mecanism motor ansamblu



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	C 45 E SR EN 10250/2/2002	Proiect tehnologic PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,033 kg	INOCEM 616.15-02.35.05.0

F

S.C. "PETAL" S.A. HUSI

INOCEM - CF 260/2020 cod SMIS 120032

Proiect Tehnic

PETAL S.A. Huşi

INCDIE ICPE- CA Bucuresti

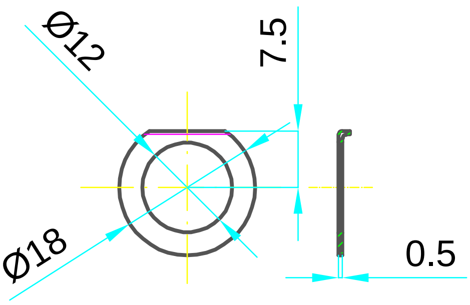
DEPARTAMENT IPCUP PLOIESTI

1 : 1

Surub special

Data: *sept-nov.2022*

Mecanism motor ansamblu



Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	
Desenat :	*ing. P. Baraga*	
Verificat :	*dr. ing. I. Cucos*	
Aprobat :	*dr. ing. I. Cucos*	

S 355 J2
SR EN 10025/2/2019

Masa: 0,005 kg

Proiect tehnologic

PETAL S.A.
Huşi

F

INOCEM 616.15-02.35.04.0

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A.
Huşi

INCDIE
ICPE- CA
Bucuresti

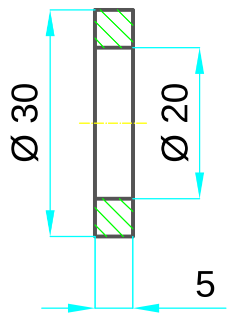
DEPARTAMENT
IPCUP
PLOIESTI

1 : 1

Siguranta

Data: *sept-nov.2022*

Mecanism motor ansamblu



Tolerante gen.
ISO.2678.mk.
SR EN 22768/1-2

Proiectat :	*ing. T. Arhire*	C 45 E SR EN 10250/2/2002	Proiect tehnologic — PETAL S.A. Huşi
Desenat :	*ing. P. Baraga*		
Verificat :	*dr. ing. I. Cucos*		
Aprobat :	*dr. ing. I. Cucos*	Masa: 0,019 kg	INOCEM 616.15-02.25.03.0

F

S.C. "PETAL" S.A. HUSI

INOCEM - CF 260/2020 cod SMIS 120032

Proiect Tehnic

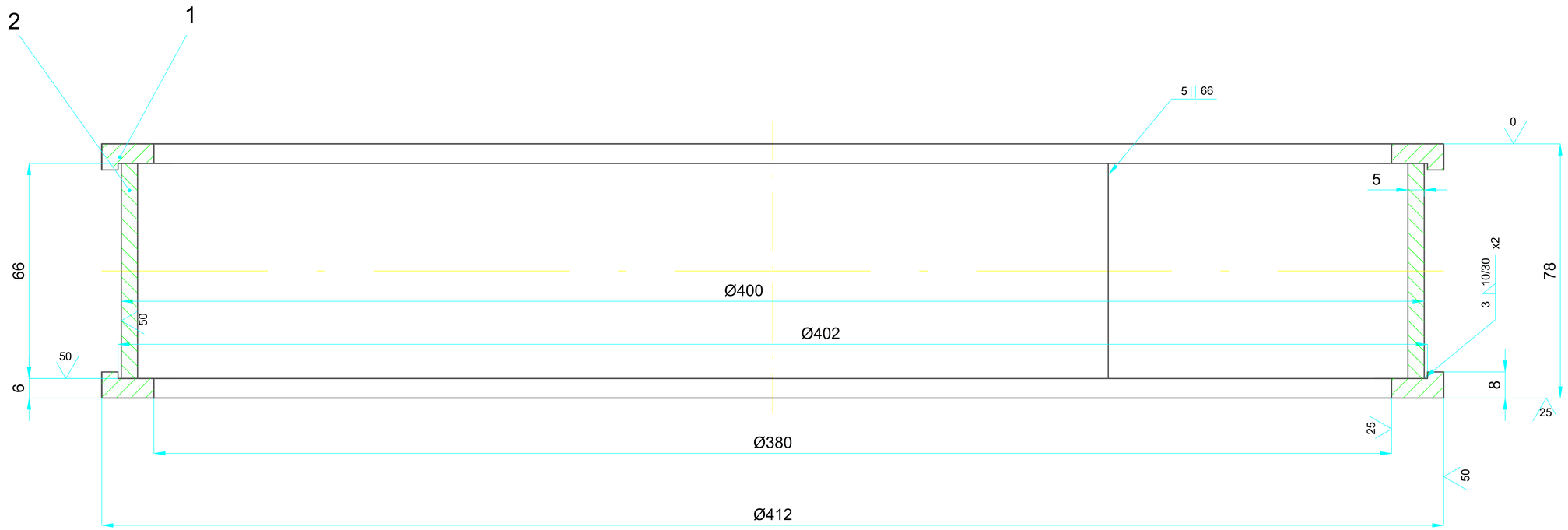
PETAL S.A. Huşi — INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIESTI

1 : 1

Saiba

Data: *sept-nov.2022*

Mecanism motor ansamblu



Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.
2	Manta 66x5x1240	616.15-02.08.02.0	1	S355 J2 SR EN 10025/2:2019	fara desen	3,210
1	Flansa	616.15-02.08.01.0	2	S355 J2 SR EN 10025/2:2019	fara desen	1,040

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2

Proiectat : *ing. T. Arhire*
Desenat : *ing. P. Baraga*
Verificat : *dr. ing. I. Cucos*
Aprobat : *dr. ing. I. Cucos*

Masa: 5,29 kg

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A. Husi · INCDIE ICPE- CA Bucuresti · IPCUP Project

1 : 1

Data: *sept-nov.2022*

Proiect tehnologic

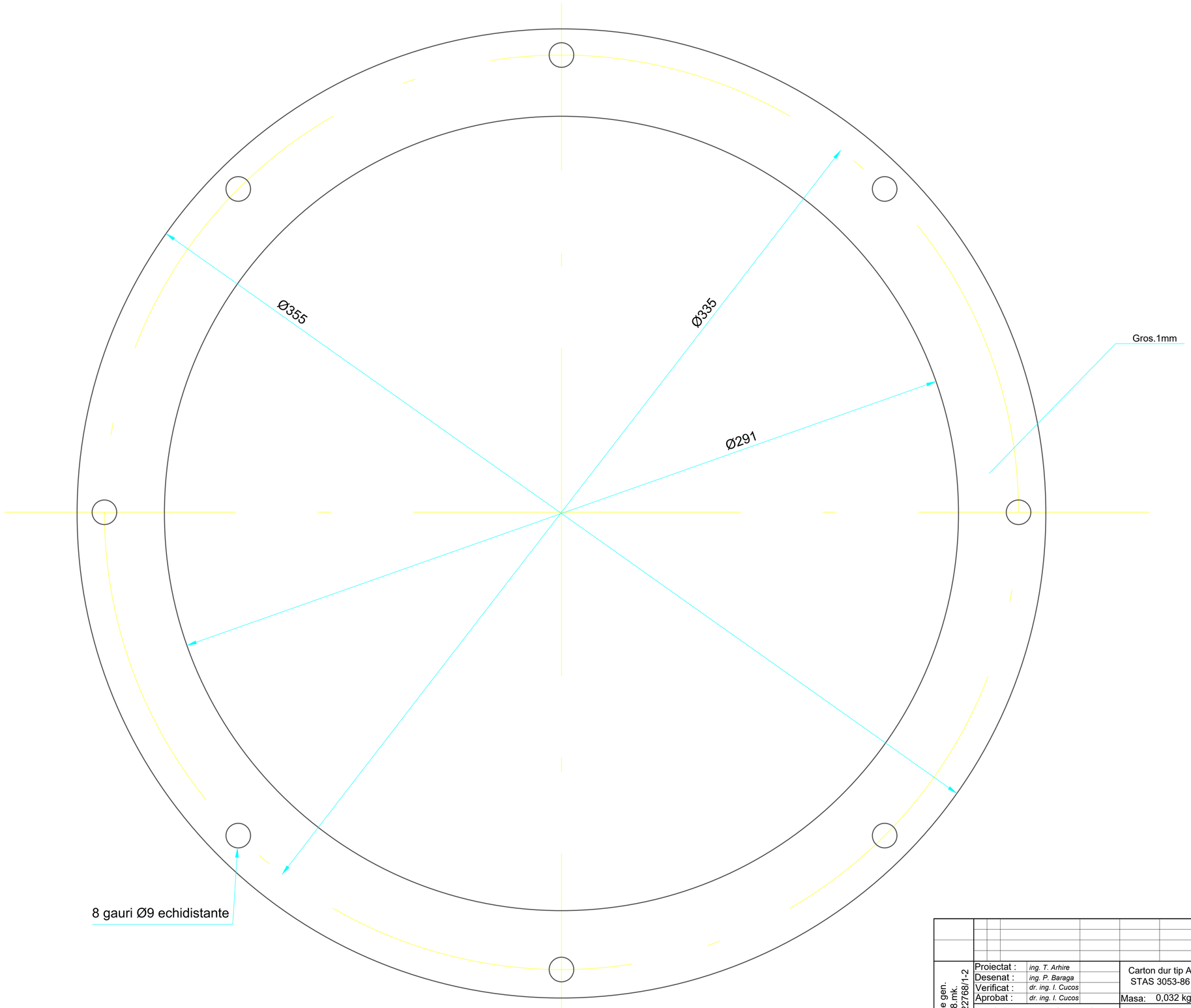
PETAL S.A. Husi

F

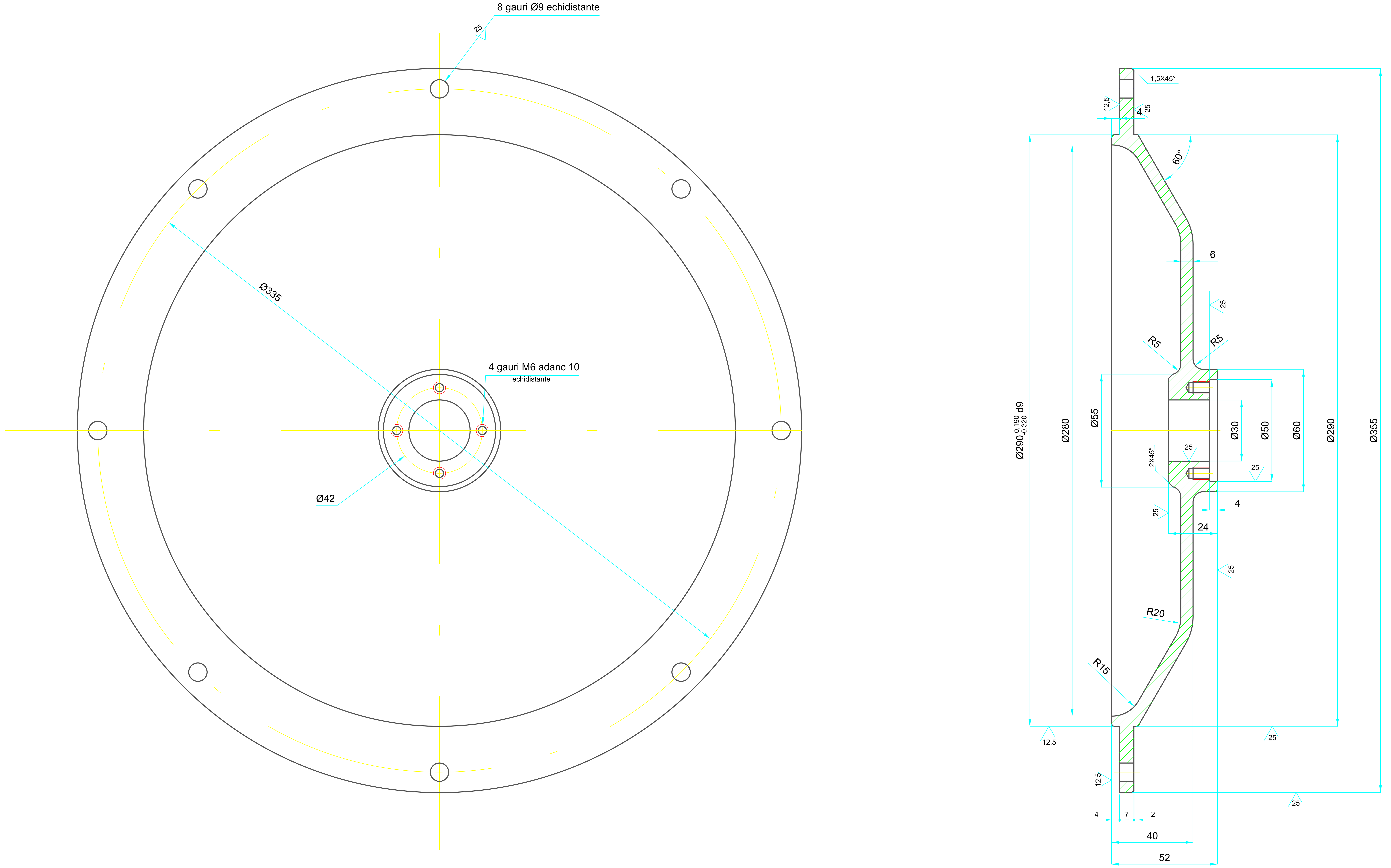
INOCEM 616.15-02.08.00.0

Distantier

Mecanism motor ansamblu



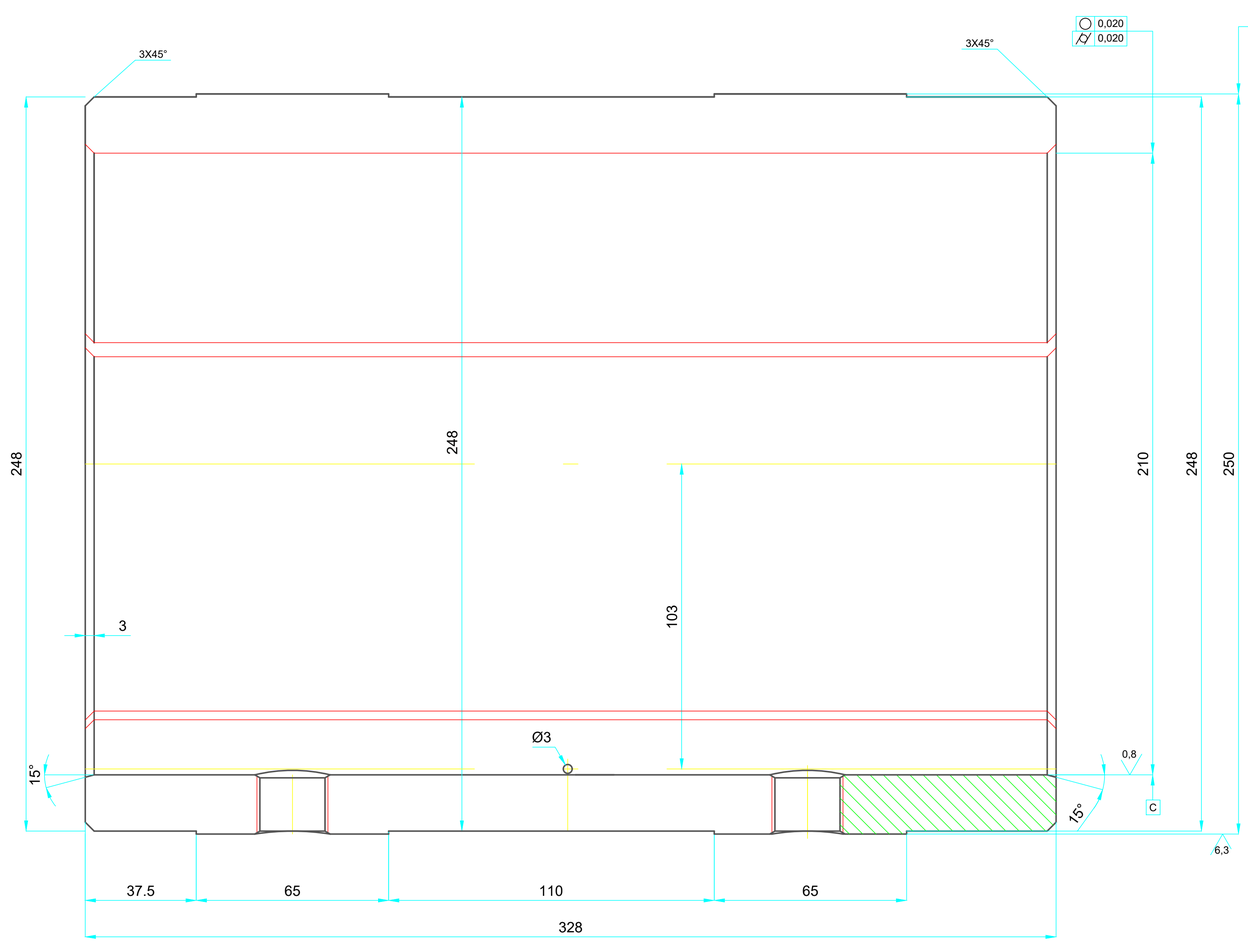
Tolerante gen. ISO 2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	Carton dur tip A STAS 3053-86 Masa: 0,032 kg	Proiect tehnologic — PETAL S.A. Hup	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Hup — INCDIE ICPE- CA Bucuresti — IPCUP	1 : 1 Data: *sept-nov.2022*	INOCEM 616.15-02.00.17.0 Garnitura Mecanism motor ansamblu	

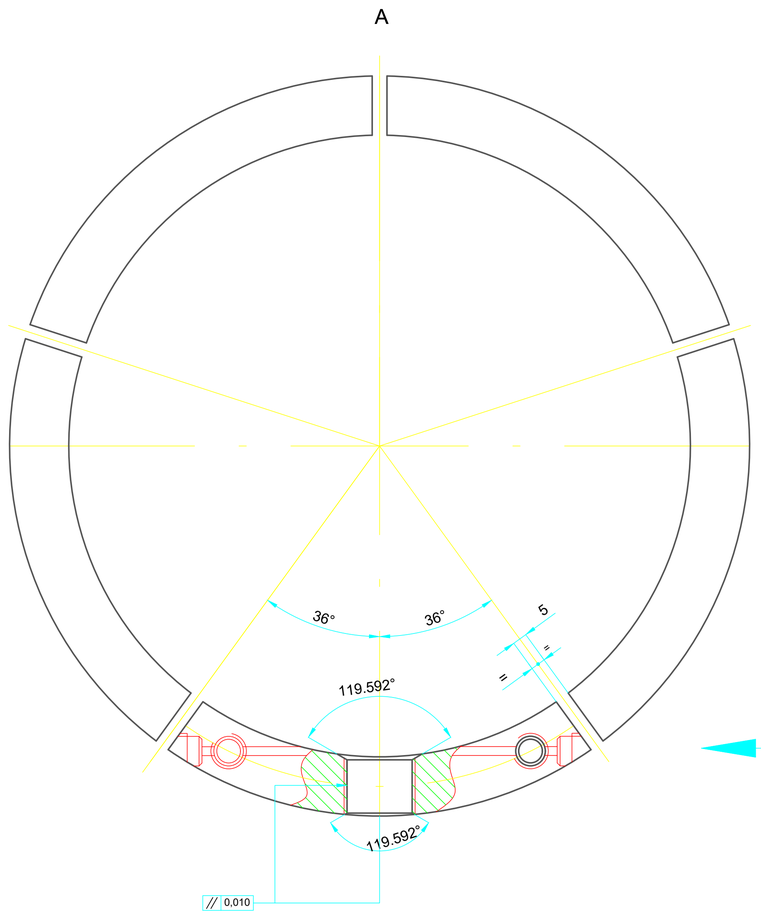


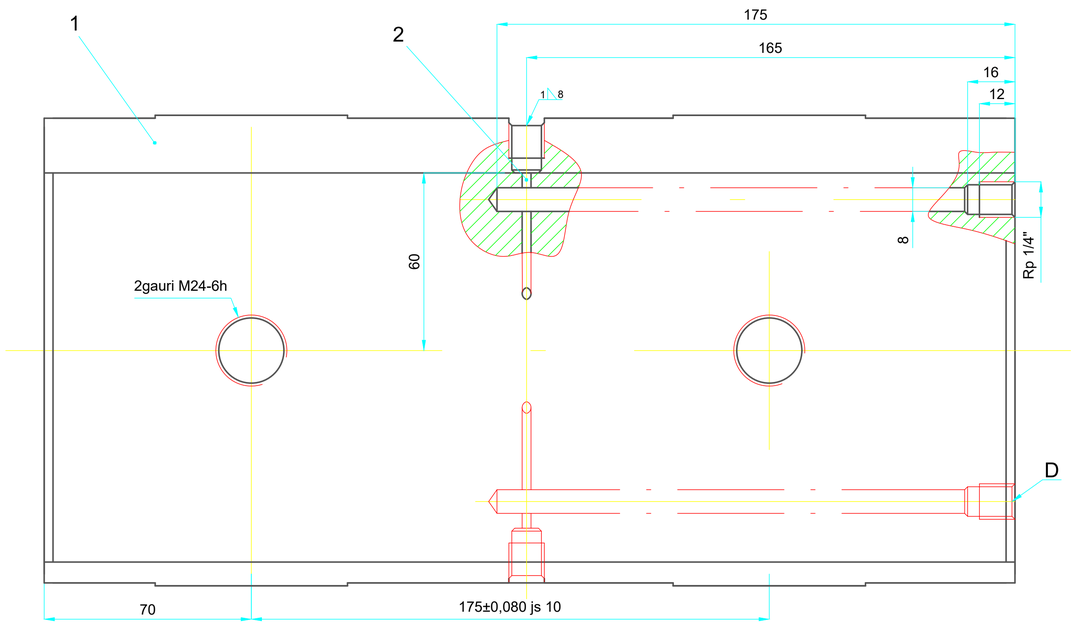
CONDITII TEHNICE

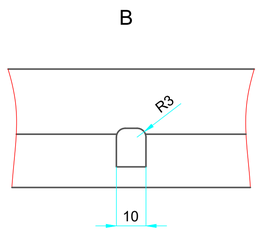
- Piesa turnata va satisface conditiile tehnice din STAS 568-82
- Dupa debavurare si curatire piesa se va sabla.

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : ing. T. Arhire Desenat : ing. P. Baraga Verificat : dr. ing. I. Cucos Aprobat : dr. ing. I. Cucos	Fc 200 SR EN 1561:2012	Proiect tehnologic PETAL S.A. Huși	F
		Masa: 5,15 kg	INOCEM 616.15-02.00.18.0	
	S.C. "PETAL" S.A. HUSI INOCEM - CF 260/2020 cod SMIS 120032 Proiect Tehnic PETAL S.A. Huși INCDIE ICPE- CA Bucuresti DEPARTAMENT IPCUP PLOIESTI	1 : 1	Capac	
		Data: sept-nov.2022	Mecanism motor ansamblu	









CONDITII TEHNICE

1.Tratament termic:piesa se va cementa pe adancimea de 1,2...1,5 mm si se va cali la duritatea de 54...58 HRC.
La cementare gaurile M24-6H si Rp1/4" ,se vor proteja.
2.Pentru una bucata din setul de 3 bucati,gaurile Rp1/4" Ø8 siØ3 se vor executa in pozitia opusa(D) la aceleasi cote.
3. La executia din materialul de inlocuire piesa se va nitrura la adancimea de 0,6 dupa rectificare si duritatea min..600 HV.
Gaurile M24 si Rps1/4"se vor proteja la nitrurare.

25

Poz.	Descriere	Numar Desen/ Stas	Buc.	Material	Observatii	Greutate Kg/buc.
2	Stift cilindric Ø3x6	614.92-02.19.02.0	1	S235 J2 SR EN 10025/2:2019	fara desen	0,00015
1	Glisiera	614.92-02.19.01.0	1	16 Mn Cr5 SR EN ISO 683-3:2019	fara desen	6,840

Tolerante gen. ISO 2678.mk. SR EN 22768/1-2

Proiectat : ing. T. Arhire
Desenat : ing. P. Baraga
Verificat : dr. ing. I. Cucos
Aprobat : dr. ing. I. Cucos

Masa: 6,84 kg

1 : 1

Data: sept-nov.2022

S.C. "PETAL" S.A. HUSI
INOCEM - CF 260/2020 cod SMIS 120032
Proiect Tehnic

PETAL S.A. Husi | INCDIE ICPE- CA Bucuresti | IPCUP Cluj-Napoca

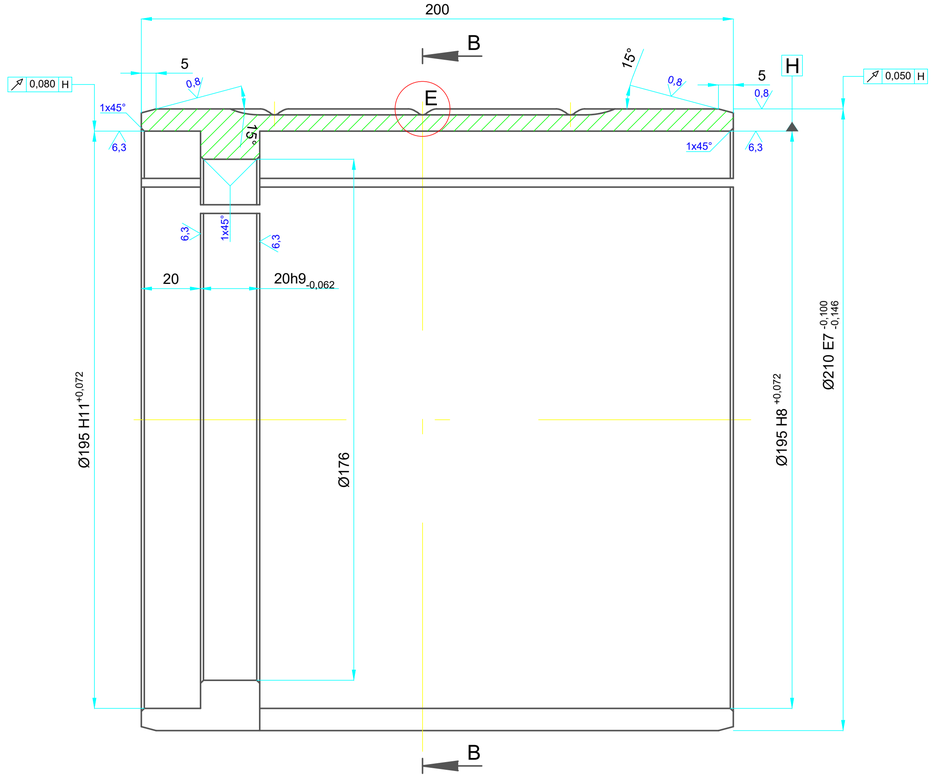
Proiect tehnologic — PETAL S.A. Husi — Mm

INOCEM 616.15-02.19.00.0

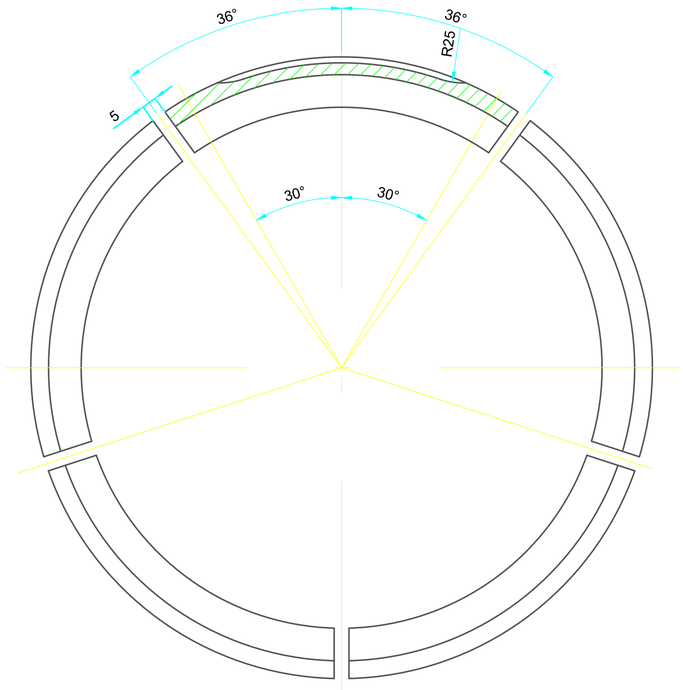
Glisiera inferioara

Mecanism motor ansamblu

A - A

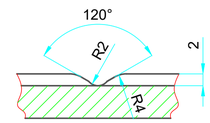


B- B



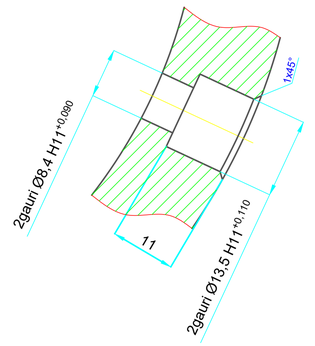
E

2:1



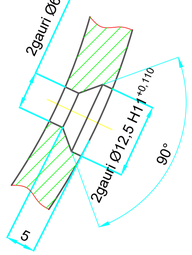
F

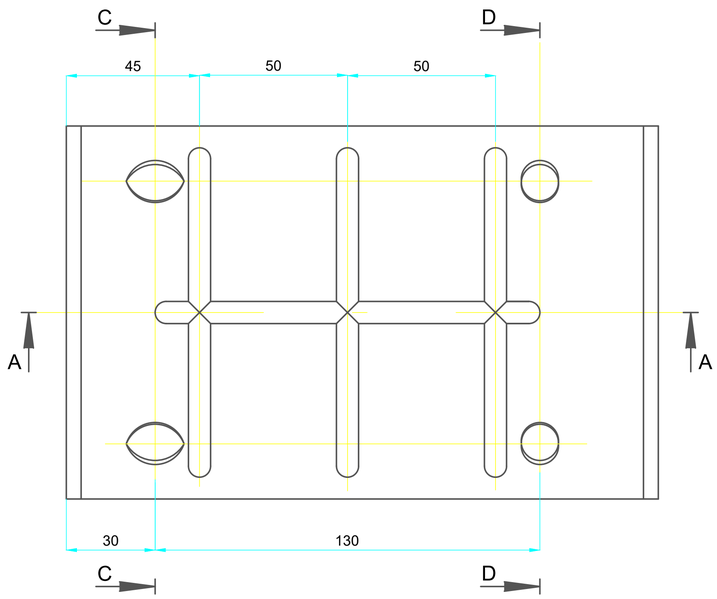
2:1



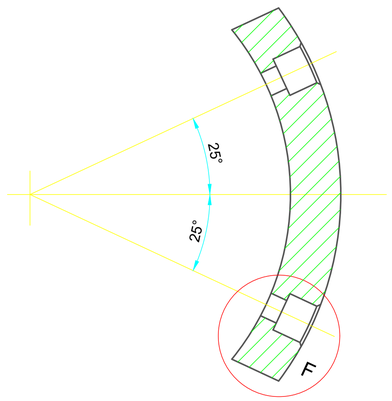
G

2:1

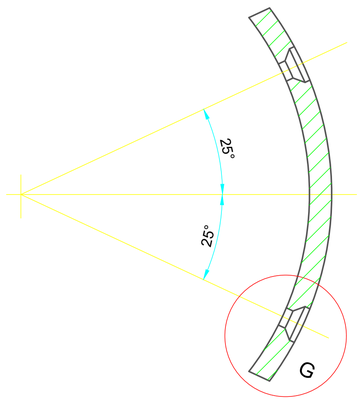




C - C



D - D

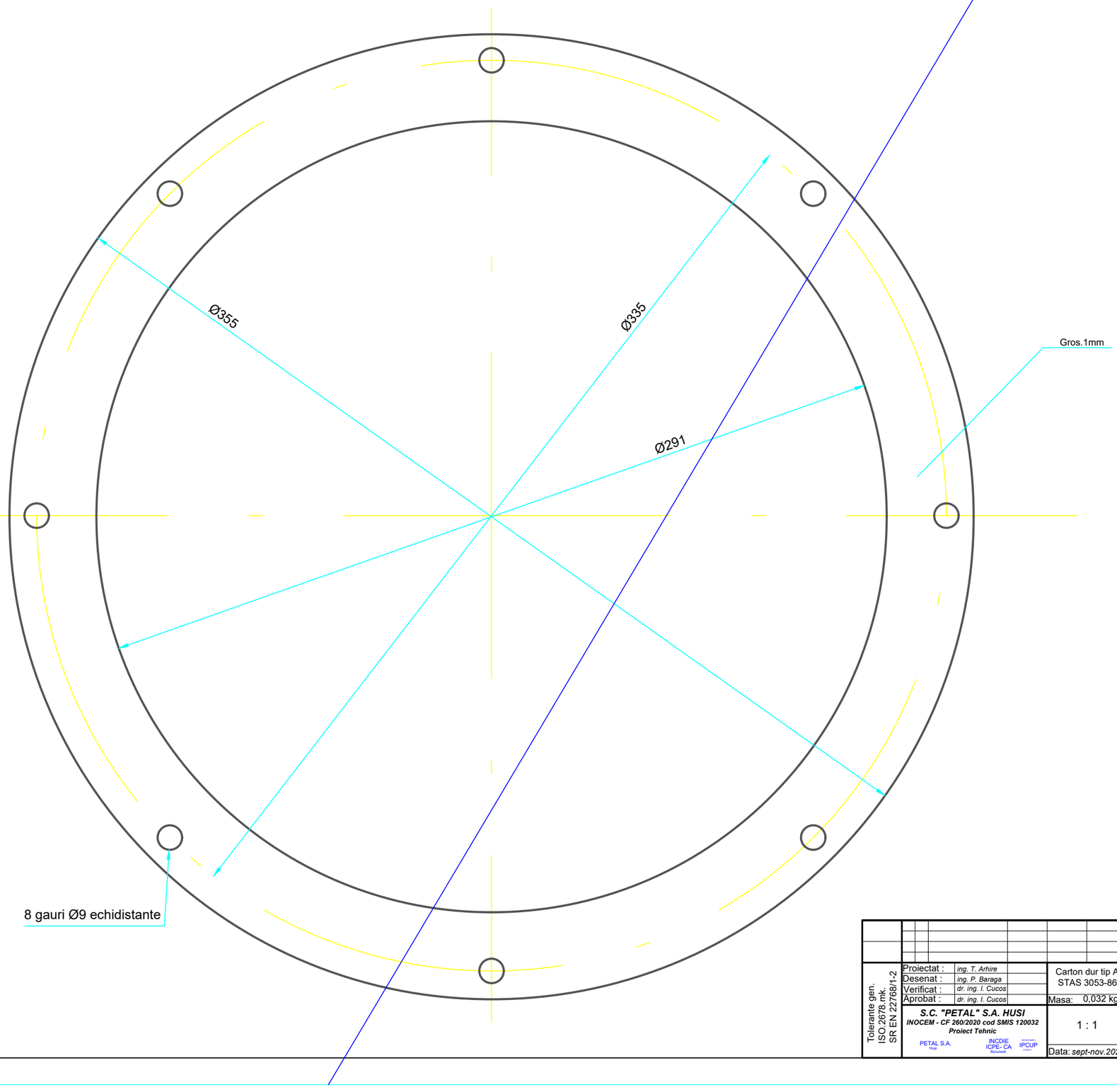


CONDITII TEHNICE

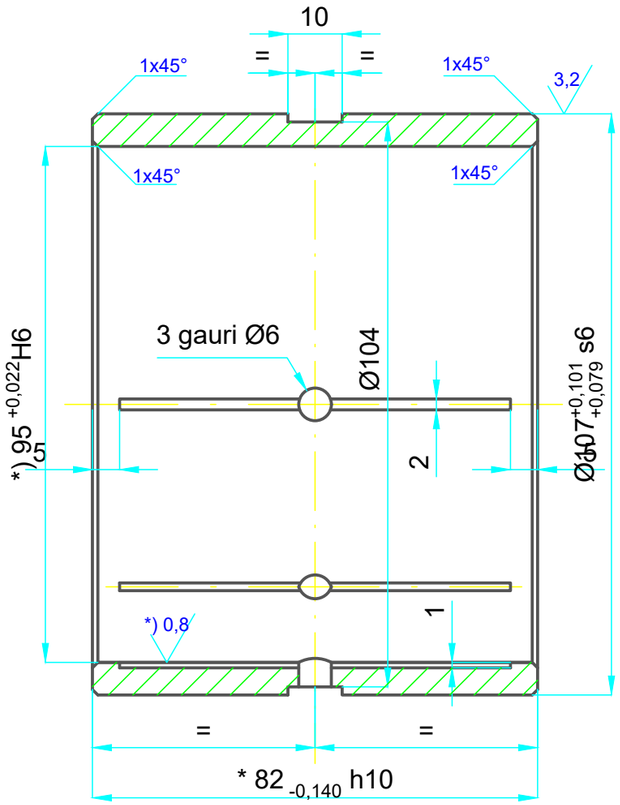
- Pe suprafata cilindrica Ø210 e7,nu se admit defecte de turnare;
- Pe celelalte suprafete se admit defecte de turnare negrupate daca adancimea lor nu depaseste 2mm, iar suprafata unui defect este de max.10mm^2;
- Numarul maxim de defecte :5.

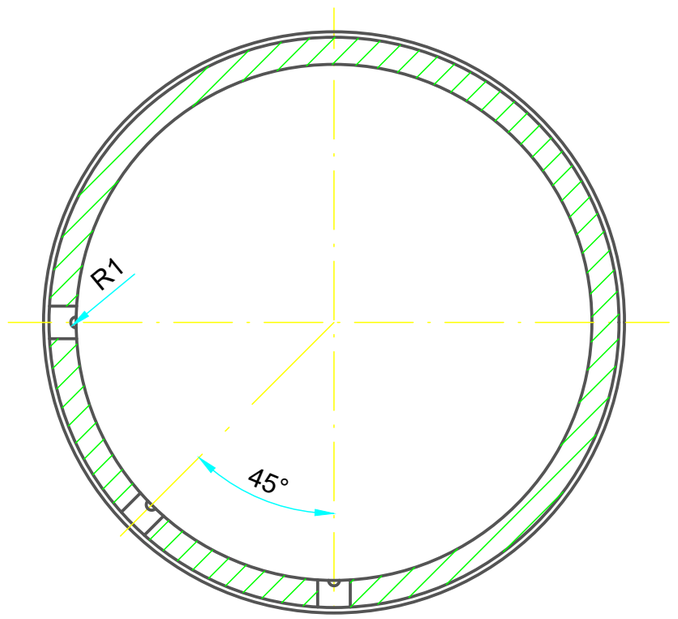
12,5

Tolerante gen. ISO 2678,mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	CuPbSn10 SR EN 1982/2018	Proiect tehnologic	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Husi · INCDIE ICPE- CA Bucuresti · IPCUP	Masa: 1,840 kg	INOCEM 616.15-02.25.04.0	
		1 : 1	Patina	
		Data: *sept-nov.2022*	Mecanism motor ansamblu	



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire*		Carton dur tip A STAS 3053-86	Proiect tehnologic PETAL S.A. HușI	F
	Desenat : *ing. P. Baraga*				
	Verificat : *dr. ing. I. Cucos*				
	Aprobat : *dr. ing. I. Cucos*		Masa: 0,032 kg	INOCEM 616.15-02.00.17.0	
	S.C. "PETAL" S.A. HUSI		1 : 1	Garnitura	
	INOCEM - CF 260/2020 cod SMIS 120032				
	Proiect Tehnic				
	PETAL S.A. HușI — INCDIE ICPE- CA București — IPCUP Ploiești		Data: *sept-nov.2022*	Mecanism motor ansamblu	





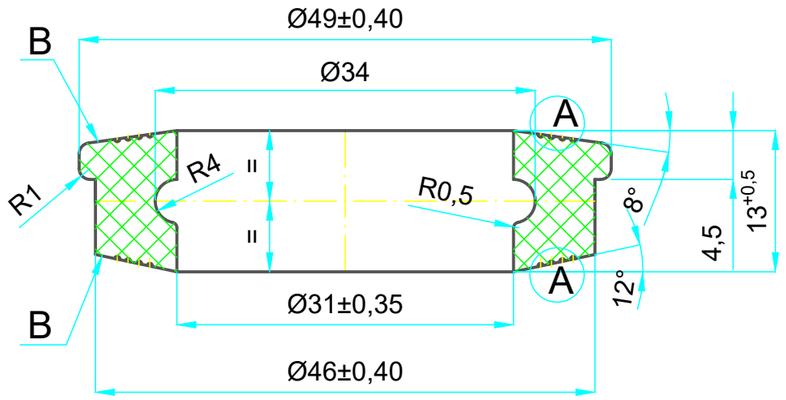
12,5

NOTA

Cotele marcate cu *) se vor executa dupa operatia de presare in corpul bielei.

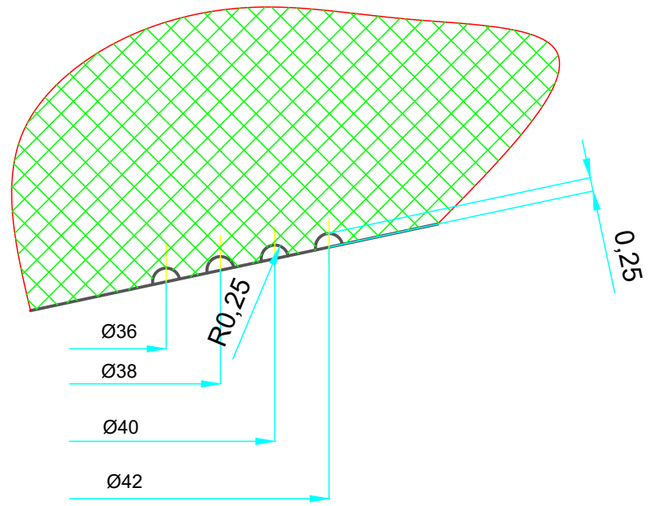
Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	CuPbSn10 SR EN 1982/2018 Masa: 1,360 kg	Proiect tehnologic PETAL S.A. Husi	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Husi · INCDIE ICPE- CA Bucuresti · IPCUP	1 : 1	Bucsa	
		Data: *sept-nov.2022*	Mecanism motor ansamblu	
			INOCEM 616.15-02.24.02.0	

2:1



A

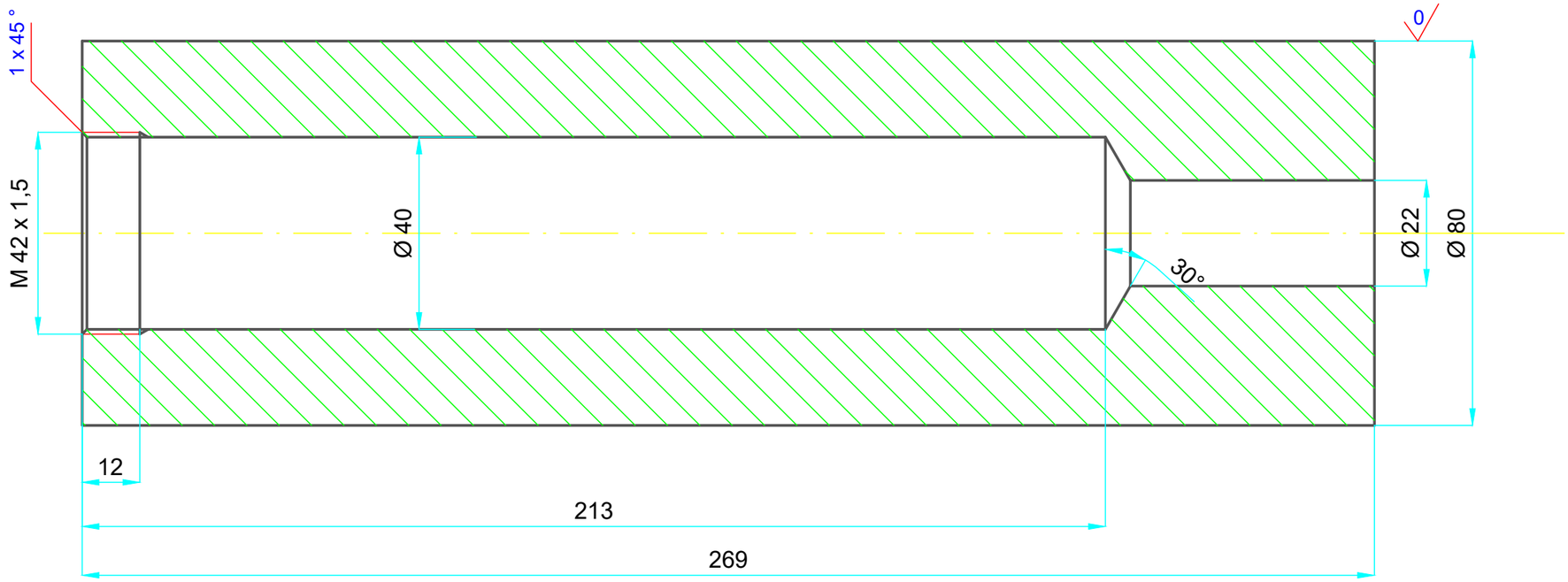
10:1



CONDITII TEHNICE

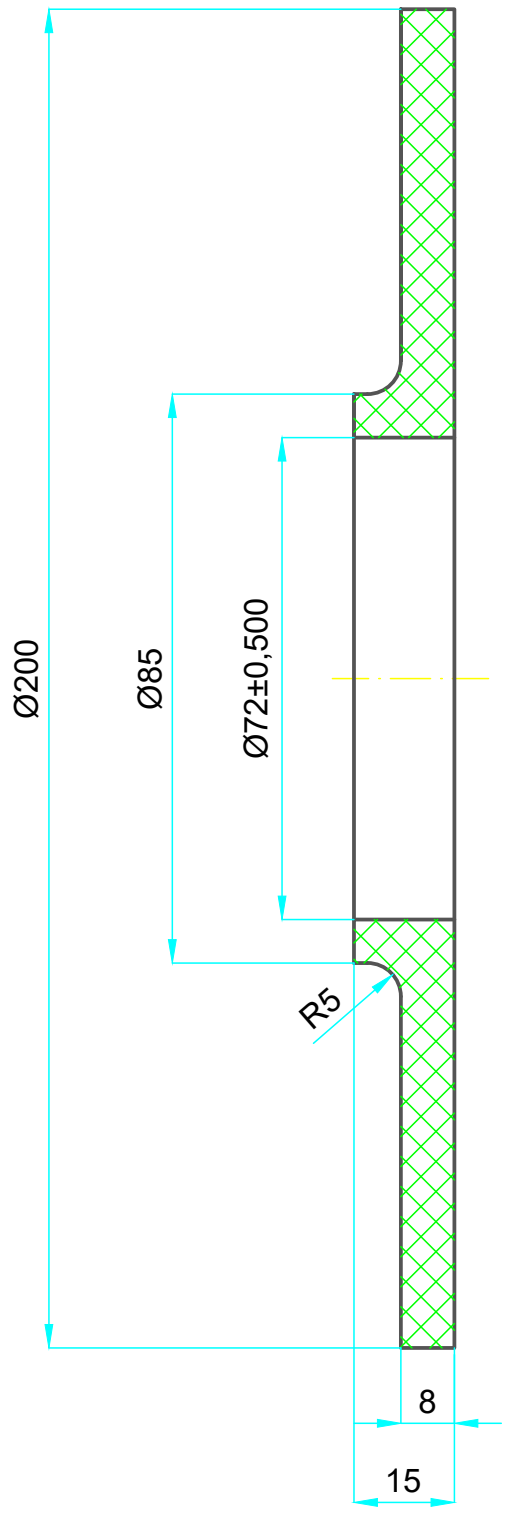
1.Mediul de lucru:pasta de ciment,noroide foraj,titei,fluide acide si bazice.
2.Temperatura de lucru: -45...+80°C.
3.Cotele netolerate se vor incadra in clasa de precizie P2 SR ISO 3302-1:2008.
4.Pe suprafetele de etansare "B" nu se admit bavuri,lipsa de material,impaturiri sau alte defecte care ar periclita buna functionare.
5.Garnitura se va executa din cauciuc tip NBR rezistent la -45°C si caracteristici fizico-mecanice conf. SR EN 682:2002/A1,CLASA PF-80A.
6.Garnitura se va marca cu un punct de culoare albastru deschis,conform STI 1/87.

Tolerante gen. ISO 2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	Cauciuc Masa: 0,013 kg	Proiect tehnologic — PETAL S.A. Husi	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Husi — INCDIE ICPE- CA Bucuresti — IPCUP Bucuresti	1 : 1 Data: *sept-nov.2022*	INOCEM 616.15-00.00.26.0 Garnitura Mecanism motor ansamblu	



25

Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat : *ing. T. Arhire* Desenat : *ing. P. Baraga* Verificat : *dr. ing. I. Cucos* Aprobat : *dr. ing. I. Cucos*	C45E SR EN 10250/2/2002 Masa: 6,509 kg	Proiect tehnologic — PETAL S.A. Husi	F
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Husi — INCDIE ICPE- CA Bucuresti — IPCUP	1 : 1 Data: *sept-nov.2022*	INOCEM 616.15-02.27.01.0 Corp tija Mecanism motor ansamblu	



Tolerante gen. ISO.2678.mk. SR EN 22768/1-2	Proiectat :	*ing. T. Arhire*		Cauciuc PF80A SR EN 682/2002/A1/2006	Proiect tehnologic — PETAL S.A. Huși	F
	Desenat :	*ing. P. Baraga*				
	Verificat :	*dr. ing. I. Cucos*				
	Aprobat :	*dr. ing. I. Cucos*		Masa: 0,230 kg	INOCEM 616.15-00.00.34.0	
	S.C. "PETAL" S.A. HUSI ***INOCEM - CF 260/2020 cod SMIS 120032*** ***Proiect Tehnic*** PETAL S.A. Huși — INCDIE ICPE- CA Bucuresti — DEPARTAMENT IPCUP PLOIEȘTI			1 : 1	Disc protector	
				Data: *sept-nov.2022*	Mecanism motor ansamblu	

ANEXA 3

Documentatia Tehnica electrica pentru

Ansamblul echipament Instalație inovatoare pentru cimentare
și operațiuni speciale la sondă

PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

Text fields

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				Date	28-Feb-22	660V/750kW	
			Oprea	Editor			
A1.4		25.10.2021	Codreanu	Checked			
State	Modification	Date	Name	Standard			

POPMA ACF. VECTOR_02	2/28/2022 9:14:32 AM
SINAMICS S120 CU320 V2.5x	
F320_2_1	

PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
1	r2		Drive operating display	[31] [31] Ready to power-up - set "ON/OFF1" = "0/1" (p0840)			1		
2	⊞ p5[0]		BOP operating display selection, Parameter number	2		Operation	2	0	65535
3	p6		BOP operating display mode	[4] p0005		Operation	3		
4	p10		Drive, commissioning parameter filter	[0] Ready		Ready to run	1		
5	⊞ p13[0]		BOP user-defined list	0		Operation	3	0	65535
6	p15		Macro drive object	0		Commissioning (P10=1)	1	0	999999
7	r20		Speed setpoint, smoothed	0.0	RPM		2		
8	r21		CO: Actual speed, smoothed	0.0	RPM		2		
9	r22		Speed actual value rpm, smoothed	0.0	RPM		2		
10	r24		Output frequency, smoothed	0.0	Hz		3		
11	r25		CO: Output voltage, smoothed	0.0	Vrms		2		
12	r26		CO: DC link voltage, smoothed	13.3	V		2		
13	r27		CO: Absolute actual current, smoothed	0.04	Arms		2		
14	r28		Modulation depth, smoothed	0.0	%		3		
15	r29		Current actual value field-generating smoothed	0.00	Arms		3		
16	r30		Current actual value, torque-generating smoothed	0.00	Arms		3		
17	r31		Actual torque smoothed	-0.00	Nm		2		
18	r32		CO: Active power actual value, smoothed	0.00	kW		2		
19	r33		Torque utilization, smoothed	0.0	%		3		
20	r35		CO: Motor temperature	20.0	°C		2		
21	r36		Power unit overload I2t	0.0	%		3		
22	⊞ r37[0]		CO: Power unit temperatures, Maximum inverter	22	°C		3		
23	r38		Power factor, smoothed	0.00			3		

			Date	28-Feb-22	
			Oprea	Editor	
A1.4		25.10.2021	Codreanu	Checked	
State	Modification	Date	Name	Standard	

660V/750kW

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
24	p45		Smoothing time constant, display values	1.00	ms	Operation	2	0	200
25	r46		CO/BO: Missing enable sig	40001C09H			1		
26	r47		Motor data ident. routine and speed controller optimization	[0] No measurement			1		
27	r49[0]		Motor data set/encoder data set effective, Motor Data Set MDS effective	0			2		
28	r50		CO/BO: Command Data Set CDS effective	0H			2		
29	r51		CO/BO: Drive Data Set DDS effective	0H			2		
30	r56		CO/BO: Status word, closed-loop control	3H			3		
31	r60		CO: Speed setpoint before the setpoint filter	0.00	RPM		3		
32	r61[0]		CO: Speed actual value motor encoder, Encoder 1	0.00	RPM		2		
33	r62		CO: Speed setpoint after the filter	0.00	RPM		3		
34	r63[0]		CO: Actual speed value, Unsmoothed	0.00	RPM		3		
35	r64		CO: Speed controller system deviation	0.00	RPM		3		
36	r65		Slip frequency	0.00	Hz		3		
37	r66		CO: Output frequency	0.00	Hz		3		
38	r67		Output current, maximum	1357.50	Arms		3		
39	r68[0]		CO: Absolute current actual value, Unsmoothed	0.03	Arms		3		
40	r69[0]		Phase current, actual value, Phase U	-0.03	A		3		
41	r70		CO: Actual DC link voltage	13.30	V		3		
42	r71		Maximum output voltage	-0.7	Vrms		3		
43	r72		CO: Output voltage	0.0	Vrms		3		
44	r73		Maximum modulation depth	99.3	%		3		
45	r74		CO: Modulat_depth	0.00	%		3		
46	r75		CO: Current setpoint, field-generating	0.00	Arms		3		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
47	r76		CO: Current actual value, field-generating	0.00	Arms		3		
48	r77		CO: Current setpoint, torque-generating	0.00	Arms		3		
49	r78		CO: Current actual value, torque-generating	0.00	Arms		3		
50	r79		CO: Torque setpoint total	0.00	Nm		3		
51	⊞ r80[0]		CO: Torque actual value, Unsmoothed	0.00	Nm		3		
52	r81		CO: Torque utilization	0.0	%		3		
53	⊞ r82[0]		CO: Active power actual value, Unsmoothed	0.00	kW		3		
54	r83		CO: Flux setpoint	0.0	%		3		
55	⊞ r84[0]		CO: Flux actual value, Unsmoothed	0.0	%		3		
56	r87		CO: Actual power factor	0.000			3		
57	⊞ r89[0]		Actual phase voltage, Phase U	-0.4	V		3		
58	r94		CO: Transformation angle	0.00	°		3		
59	p100		IEC/NEMA mot stds	[0] IEC-Motor (50 Hz, SI units)		Commissioning (P10=1)	1		
60	r103		Application-specific view	0			2		
61	p105		Activate/de-activate drive object	[1] Activate drive object		Ready to run	2		
62	r106		Drive object active/inactive	[1] Drive object active			2		
63	r107		Drive object type	[12] VECTOR			2		
64	⊞ r108		Drive object, function module	104H			2		
65	r111		Basis sampling time selection	1			3		
66	p112		Sampling times pre-setting p0115	[1] xLow		Commissioning (P9=3)	3		
67	p113		Pulse frequency, minimum selection	1.250	kHz	Commissioning (P9=3)	3	1	2
68	⊞ r114[0]		Pulse frequency, minimum recommended, If only the actual drive is changed	0.000	kHz		3		
69	⊞ p115[0]		Sampling times for internal control loops, Current controller	400.00	µs	Commissioning (P9=3)	3	0	16000
70	⊞ r116[0]		Drive object clock cycle recommended, Change, only for the actual drive object	0.00	µs		3		
71	p120		Number of Power unit Data Sets (PDS)	1		Commissioning (P9=3)	2	1	8
72	p124[0]	P	Power unit detection via LED	0		Operation	2	0	1

PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
99	r203[0]	P	Actual power unit type	[100] SINAMICS S			3		
100	⊞ r204[0]	P	Power unit hardware properties	1H			3		
101	p205		Power unit application	[0] Load duty cycle with high overload for vector drives		Commissioning (P10=1)	2		
102	⊞ r206[0]		Rated power unit power, Rating plate	1000.00	kW		2		
103	⊞ r207[0]		Rated power unit current, Rating plate	1025.00	Arms		2		
104	r208		Rated power unit line supply voltage	690	Vrms		2		
105	⊞ r209[0]		Power unit, maximum current, Catalog	1500.00	Arms		2		
106	p210		Drive unit line supply voltage	925	V	Ready to run	3	1	63000
107	p230		Drive filter type, motor side	[0] No filter		Commissioning (P10=1,2)	1		
108	p233		Power unit motor reactor	0.000	mH	Operation	2	0	1000
109	p234		Power unit sinusoidal filter capacitance	0.000	µF	Operation	2	0	1000
110	p235		Number of reactors connected in series	1		Commissioning (P10=1,2)	1	1	3
111	p251[0]	P	Operating hours counter, power unit fan	23	h	Ready to run	3	0	4294967295
112	p278		DC link voltage undervoltage threshold reduction	0	V	Ready to run	3	-80	0
113	⊞ p287[0]		Ground fault monitoring thresholds, Threshold for pulse inhibit	6.0	%	Ready to run	3	0	100
114	r289		Maximum power unit output current	1499.97	Arms		3		
115	p290		Power unit overload response	[2] Reduce I_output or f_output and f_pulse (not using I2t)		Ready to run	3		
116	r293		CO: Power unit alarm threshold model temperature	47	°C		3		
117	p294		Power unit alarm with I2t overload	95.0	%	Operation	3	10	100
118	p295		Fan run-on time	0	s	Operation	1	0	600
119	r296		DC link voltage undervoltage threshold	579	V		2		
120	r297		DC link voltage overvoltage threshold	1165	V		2		
121	p300[0]	M	Motor type selection	[1] Induction motor (rotating)		Commissioning (P10=1,3)	1		
122	p301[0]	M	Motor code number selection	0		Commissioning (P10=1,3)	1	0	65535

PARAMTERII CONVERTIZOR ACTIONARE POMPA ACF

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
123	r302[0]	M	Motor code number of motor with DRIVE-CLiQ	0			2		
124	r303[0]	M	Motor status word from motor with DRIVE-CLiQ	0H			2		
125	p304[0]	M	Rated motor voltage	660	Vrms	Commissioning (P10=1,3)	1	0	20000
126	p305[0]	M	Rated motor current	905.00	Arms	Commissioning (P10=1,3)	1	0	10000
127	p307[0]	M	Rated motor power	750.00	kW	Commissioning (P10=1,3)	1	-100000	100000
128	p308[0]	M	Rated motor power factor	0.870		Commissioning (P10=1,3)	1	0	1
129	p310[0]	M	Rated motor frequency	50.00	Hz	Commissioning (P10=1,3)	1	0	3000
130	p311[0]	M	Rated motor speed	995.0	RPM	Commissioning (P10=1,3)	1	0	210000
131	r313[0]	M	Motor pole pair number, actual (or calculated)	3			2		
132	p314[0]	M	Motor pole pair number	0		Commissioning (P10=1,3)	2	0	127
133	p320[0]	M	Motor rated magnetization current/short-circuit current	294.769	Arms	Operation	3	0	5000
134	p322[0]	M	Maximum motor speed	0.0	RPM	Commissioning (P10=1,3)	2	0	210000
135	r330[0]	M	Rated motor slip	0.250	Hz		3		
136	r331[0]	M	Motor magnetizing current/short-circuit current actual	294.769	Arms		3		
137	r332[0]	M	Rated motor power factor	0.870			3		
138	r333[0]	M	Rated motor torque	7197.96	Nm		3		
139	p335[0]	M	Motor cooling type	[1] Forced cooling		Ready to run	1		
140	r336[0]	M	Rated motor frequency actual	50.00	Hz		3		
141	r337[0]	M	Rated motor EMF	576.29	Vrms		3		
142	r339[0]	M	Rated motor voltage	660.00	Vrms		3		
143	p340[0]	D	Automatic calculation of motor/control parameters	[0] No calculation		Ready to run	2		
144	p341[0]	M	Motor moment of inertia	40.245037	kgm²	Operation	3	0	100000

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
170	r396[0]	M	Rotor resistance, actual	0.00267	Ohm		3		
171	p400[0]	E	Enc type selection	[0] No encoder		Commissioning (P10=1,4)	1		
172	p401[0]	E	Encoder type, OEM selection	0		Commissioning (P10=1,4)	2	0	32767
173	p402[0]	E	Gearbox type selection	[9999] Gearbox, user-defined		Commissioning (P10=1,4)	1		
174	⊞ p404[0]	E	Encoder configuration effective	0H		Commissioning (P10,4)	3		
175	⊞ p405[0]	E	Square-wave encoder track A/B	FH		Commissioning (P10,4)	3		
176	p407[0]	E	Linear encoder grid division	16000	nm	Commissioning (P10,4)	3	0	250000000
177	p408[0]	E	Rotary encoder pulse No.	2048		Commissioning (P10,4)	3	0	16777215
178	⊞ p410[0]	E	Encoder inversion actual value	0H		Commissioning (P10,4)	3		
179	⊞ p411[0]	E	Measuring gearbox, configuration	0H		Commissioning (P10,4)	1		
180	p412[0]	E	Measuring gearbox, rotary absolute gearbox, revolutions, virtual	4096		Commissioning (P10,4)	1	0	4194303
181	p413[0]	E	Measuring gearbox, position tracking tolerance window	0.00		Commissioning (P10,4)	3	0	4.29497E+09
182	p418[0]	E	Fine resolution Gx_XIST1 (in bits)	11		Commissioning (P10,4)	3	2	18
183	p419[0]	E	Fine resolution absolute value Gx_XIST2 (in bits)	9		Commissioning (P10,4)	3	2	18
184	⊞ p420[0]	E	Encoder connection	0H		Commissioning (P10,4)	3		
185	p421[0]	E	Absolute encoder rotary multi-turn resolution	4096		Commissioning (P10,4)	3	0	65535
186	p422[0]	E	Absolute encoder linear measuring step resolution	100	nm	Commissioning (P10,4)	3	0	4294967295
187	p423[0]	E	Absolute encoder rotary single-turn resolution	8192		Commissioning (P10,4)	3	0	1073741823
188	p424[0]	E	Encoder, linear zero mark distance	20	mm	Commissioning (P10,4)	3	0	65535
189	p425[0]	E	Encoder, rotary zero mark distance	2048		Commissioning (P10,4)	3	0	16777215
190	p427[0]	E	Encoder SSI baud rate	100	kHz	Commissioning (P10,4)	3	0	65535

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
215	r466[0]		Encoder 2 identification number/serial number				3		
216	r467[0]		Encoder 3 identification number/serial number				3		
217	r477[0]		CO: Measuring gearbox, position difference, Encoder 1	0			1		
218	r479[0]		CO: Diagnostics encoder position actual value Gn_XIST1, Encoder 1	0			3		
219	p480[0]		CI: Signal source for encoder control word Gn_STW, Encoder 1	0		Ready to run	3		
220	r481[0]		CO: Encoder status word Gn_ZSW, Encoder 1	4000H			3		
221	r482[0]		CO: Encoder actual position value Gn_XACT1, Encoder 1	0			3		
222	r483[0]		CO: Encoder actual position value Gn_XACT2, Encoder 1	0			3		
223	r484[0]		CO: Redundant coarse encoder position + CRC Gn_XIST1, Encoder 1	0H			3		
224	r485[0]		CO: Measuring gearbox, encoder raw value incremental, Encoder 1	0			1		
225	r486[0]		CO: Measuring gearbox, encoder raw value absolute, Encoder 1	0			1		
226	r487[0]		Diagnostic encoder control word Gn_STW, Encoder 1	0H			3		
227	p488[0]		Measuring probe 1 input terminal, Encoder 1	[0] No meas probe		Operation	3		
228	p489[0]		Measuring probe 2 input terminal, Encoder 1	[0] No meas probe		Operation	3		
229	p491		Motor encoder fault response ENCODER	[0] Encoder fault results in OFF2		Ready to run	3		
230	p492		Square-wave encoder, maximum speed difference per sampling cycle	23.2	RPM	Operation	3	0	210000
231	p495[0]		Equivalent zero mark, input terminal, Encoder 1	[0] No equivalent zero mark (evaluation of the encoder zero mark)		Operation	3		
232	p500		Technology application	[0] Standard drive (VECTOR)		Ready to run	2		
233	p505		Selecting the system of units	[1] System of units SI		Commissioning (P10,5)	1		
234	p570		Inhibit list: Number of effective values	0		Operation	2	0	50
235	p571[0]		Inhibit list, motor/closed-loop control parameter calculation	[0] No parameter		Operation	2		
236	p572[0]	D	Activate inhibit list	[0] No		Operation	2		
237	p573		Inhibit automatic reference value calculation	[1] Yes		Operation	2		
238	p578[0]	D	Calculate parameters that are dependent on the technology/units	[0] No calculation		Ready to run	2		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
267	p821[0]	C	BI: Drive data set selection DDS bit 1	0		Ready to run	3		
268	p822[0]	C	BI: Drive data set selection DDS bit 2	0		Ready to run	3		
269	p823[0]	C	BI: Drive data set selection DDS bit 3	0		Ready to run	3		
270	p824[0]	C	BI: Drive data set selection DDS bit 4	0		Ready to run	3		
271	p826[0]	M	Motor changeover, motor number	0		Commissioning (P10,3)	2	0	15
272	p827[0]	M	Motor changeover status word bit number	0		Commissioning (P10,3)	2	0	15
273	p828[0]	C	BI: Motor changeover, feedback signal	0		Ready to run	3		
274	r830		CO/BO: Motor changeover, status word	0H			2		
275	p831[0]		BI: Motor changeover, contactor feedback, Feedback signal contactor 0	0		Operation	3		
276	r832		CO/BO: Mot. changeover, contactor feedback sig. status word	0H			2		
277	p833		Data set changeover configuration	2H		Commissioning (P10,15)	2		
278	r835		CO/BO: Motor data set changeover status word	0H			2		
279	r836		CO/BO: Command Data Set CDS selected	0H			2		
280	r837		CO/BO: Drive Data Set DDS selected	0H			2		
281	r838[0]		Motor/encoder data set selected, Motor Data Set MDS selected	0			2		
282	p839		Motor changeover contactor control delay time	0	ms	Commissioning (P10,3)	2	0	500
283	p840[0]	C	BI: ON/OFF1	VECTOR_02 : r2090.0		Ready to run	3		
284	p844[0]	C	BI: 1. OFF2	VECTOR_02 : r2090.1		Ready to run	3		
285	p845[0]	C	BI: 2. OFF2	1		Ready to run	3		
286	p848[0]	C	BI: 1. OFF3	VECTOR_02 : r2090.2		Ready to run	3		
287	p849[0]	C	BI: 2. OFF3	1		Ready to run	3		
288	p852[0]	C	BI: Enable operation	VECTOR_02 : r2090.3		Ready to run	3		
289	p854[0]	C	BI: Master ctrl by PLC	VECTOR_02 : r2090.10		Ready to run	3		
290	p855[0]	C	BI: Unconditionally release holding brake	0		Ready to run	3		
291	p856[0]	C	BI: Enable speed controller	1		Ready to run	3		
292	p857		Power unit monitoring time	6000.0	ms	Ready to run	2	100	60000
293	p858[0]	C	BI: Unconditionally close holding brake	0		Ready to run	2		

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
294	p860		BI: Line cont. fdbk sig	VECTOR_02 : r863.1		Ready to run	3		
295	p861		Line contactor monitoring time	100	ms	Ready to run	2	0	5000
296	p862		Power unit ON delay	0	ms	Ready to run	3	0	65000
297	⊞ r863		CO/BO: Drive coupling status word/control word	0H			2		
298	p864		BI: Infeed operation	1		Ready to run	2		
299	p895[0]	P	BI: Activate/de-activate power unit components	1		Ready to run	1		
300	⊞ r896		BO: Parking axis, status word	0H			2		
301	p897		BI: Parking axis selection	0		Ready to run	2		
302	⊞ r898		CO/BO: Control word sequence control	1406H			2		
303	⊞ r899		CO/BO: Status word sequence control	22B1H			2		
304	p922		PROFIdrive telegram selection	[999] Free telegram configuration with BICO		Ready to run	1		
305	p925		PROFIdrive clock synchronous sign-of-life tolerance	1		Operation	3	0	65535
306	r930		PROFIdrive operating mode	1			3		
307	r944		Counter for fault buffer changes	0			2		
308	⊞ r945[0]		Fault code	0			2		
309	⊞ r947[0]		Fault number	0			3		
310	⊞ r948[0]		Fault time received in milliseconds	0	ms		3		
311	⊞ r949[0]		Fault value	0			3		
312	p952		Fault cases, counter	0		Operation	3	0	65535
313	p970		Reset drive parameters	[0] Inactive		Commissioning (P10,30)	2		
314	p971		Save drive object parameters	[0] Inactive		Operation	1		
315	⊞ r975[0]		Drive object identification, Company (Siemens = 42)	42			2		
316	⊞ r979[0]		PROFIdrive encoder format, Header	21265			3		
317	⊞ p1000[0]	C	Macro Connector Inputs (CI) for speed setpoints	0		Ready to run	1	0	999999
318	p1001[0]	D	CO: Fixed speed setpoint 1	0.000	RPM	Operation	2	-210000	210000
319	p1002[0]	D	CO: Fixed speed setpoint 2	0.000	RPM	Operation	2	-210000	210000
320	p1003[0]	D	CO: Fixed speed setpoint 3	0.000	RPM	Operation	2	-210000	210000
321	p1004[0]	D	CO: Fixed speed setpoint 4	0.000	RPM	Operation	2	-210000	210000

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
345	p1041[0]	C	BI: Motorized potentiometer manual/automatic	0		Ready to run	3		
346	p1042[0]	C	CI: Motorized potentiometer automatic setpoint	0		Ready to run	3		
347	p1043[0]	C	BI: Motorized potentiometer accept setpoint	0		Ready to run	3		
348	p1044[0]	C	CI: Motorized potentiometer setting value	0		Ready to run	3		
349	r1045		CO: Mot. potentiometer speed setp. in front of ramp-fct. gen.	0.000	RPM		3		
350	p1047[0]	D	Motorized potentiometer ramp-up time	10.000	s	Operation	2	0	1000
351	p1048[0]	D	Motorized potentiometer ramp-down time	10.000	s	Operation	2	0	1000
352	r1050		CO: Motor. potentiometer setpoint after the ramp-function generator	0.000	RPM		3		
353	p1055[0]	C	BI: Jog bit 0	0		Ready to run	3		
354	p1056[0]	C	BI: Jog bit 1	0		Ready to run	3		
355	p1058[0]	D	Jog 1 speed setpoint	0.000	RPM	Ready to run	2	-210000	210000
356	p1059[0]	D	Jog 2 speed setpoint	0.000	RPM	Ready to run	2	-210000	210000
357	p1063[0]	D	Speed limit setpoint channel	210000.000	RPM	Operation	1	0	210000
358	p1070[0]	C	CI: Main setpoint	Input_output_component_1 : r4055[0]		Ready to run	3		
359	p1071[0]	C	CI: Main setpoint scaling	100%		Ready to run	3		
360	r1073		CO: Main setpoint effective	0.000	RPM		3		
361	p1075[0]	C	CI: Suppl setpoint	VECTOR_02 : r1050		Ready to run	3		
362	p1076[0]	C	CI: Supplementary setpoint scaling	100%		Ready to run	3		
363	r1077		CO: Supplementary setpoint effective	0.000	RPM		3		
364	r1078		CO: Total setpoint effective	0.000	RPM		3		
365	p1080[0]	D	Minimum speed	0.000	RPM	Ready to run	1	0	19500
366	p1082[0]	D	Maximum speed	1000.000	RPM	Ready to run	1	0	210000
367	p1083[0]	D	CO: Speed limit in positive direction of rotation	210000.000	RPM	Operation	2	0	210000
368	r1084		Speed limit positive effective	1000.000	RPM		3		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
395	p1141[0]	C	BI: Start ramp-function generator	VECTOR_02 : r2090.5		Ready to run	3		
396	p1142[0]	C	BI: Enable speed setpoint	VECTOR_02 : r2090.6		Ready to run	3		
397	p1143[0]	C	BI: Ramp-function generator, accept setting value	0		Ready to run	3		
398	p1144[0]	C	CI: Ramp-function generator setting value	0		Operation	3		
399	p1145[0]	D	Ramp-function generator tracking intensity.	1.1		Operation	3	0	50
400	p1148[0]	D	Ramp-function gen., tolerance for ramp-up and ramp-down active	19.80	RPM	Operation	3	0	1000
401	r1149		CO: Ramp-function generator, acceleration	0.00	1/s²		3		
402	r1150		CO: Ramp-function generator speed setpoint at the output	0.000	RPM		3		
403	p1151[0]	D	Ramp-function generator configuration	0H		Operation	2		
404	p1155[0]	C	CI: Speed controller speed setpoint 1	0		Ready to run	3		
405	p1160[0]	C	CI: Speed controller speed setpoint 2	0		Ready to run	3		
406	r1169		CO: Speed controller, speed setpoints 1 and 2	0.000	RPM		3		
407	r1170		CO: Speed controller, setpoint sum	0.000	RPM		3		
408	p1189[0]	D	Speed setpoint configuration	3H		Operation	2		
409	r1197		Fixed speed setpoint, actual number	0			3		
410	r1198		CO/BO: Control word setpoint channel	0H			3		
411	r1199		CO/BO: Ramp-function generator status word	0H			3		
412	p1200[0]	D	FlyRest oper mode	[0] Flying restart inactive		Operation	2		
413	p1203[0]	D	Flying restart search rate factor	100	%	Operation	3	10	400
414	p1208[0]		BI: AR modification infeed, Infeed fault	0		Operation	3		
415	p1210		Automatic restart, mode	[0] Disables automatic restart		Operation	2		
416	p1211		Automatic restart, start attempts	3		Operation	3	0	10
417	p1212		Automatic restart, delay time start attempts	1.0	s	Operation	3	0.1	600
418	p1213		Automatic restart, monitoring time line supply return	0.0	s	Operation	3	0	1999
419	r1214		CO/BO: Automatic restart, status	0H			3		
420	p1215		Motor holding brake configuration	[0] No motor holding brake being used		Operation	2		
421	p1216		Motor holding brake, opening time	100	ms	Operation	2	0	10000
422	p1217		Motor holding brake closing time	100	ms	Operation	2	0	10000

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
473	p1322[0]	D	V/f control programmable characteristic frequency 2	0.00	Hz	Operation	3	0	3000
474	p1323[0]	D	V/f control programmable characteristic voltage 2	0.0	Vrms	Operation	3	0	10000
475	p1324[0]	D	V/f control programmable characteristic frequency 3	0.00	Hz	Operation	3	0	3000
476	p1325[0]	D	V/f control programmable characteristic voltage 3	0.0	Vrms	Operation	3	0	10000
477	p1326[0]	D	V/f control programmable characteristic frequency 4	50.00	Hz	Operation	3	0	10000
478	p1327[0]	D	V/f control programmable characteristic voltage 4	660.0	Vrms	Operation	3	0	10000
479	⊞ p1330[0]	C	CI: V/Hz control independent voltage setpoint	0		Ready to run	3		
480	p1335[0]	D	Slip compensation, scaling	0.0	%	Operation	2	0	600
481	p1336[0]	D	Slip compensation limit value	250.00	%	Operation	2	0	600
482	r1337		Actual slip compensation	0.00	%		3		
483	p1338[0]	D	V/f mode resonance damping gain	1.00		Operation	3	0	100
484	p1339[0]	D	V/f mode resonance damping filter time constant	20.00	ms	Operation	3	1	1000
485	p1340[0]	D	I_max frequency controller proportional gain	0.000		Operation	3	0	0.5
486	p1341[0]	D	I_max frequency controller integral time	2.100	s	Operation	3	0	50
487	r1343		I_max controller frequency output	0.00	RPM		3		
488	r1344		I_max controller voltage output	0	Vrms		3		
489	p1345[0]	D	I_max voltage controller proportional gain	0.120		Operation	3	0	100000
490	p1346[0]	D	I_max voltage controller integral time	0.053	s	Operation	3	0	50
491	p1349[0]	D	V/f mode resonance damping maximum frequency	45.00	Hz	Operation	3	0	3000
492	p1350[0]	D	Soft starting	[0] Off		Operation	3		
493	⊞ p1356[0]	C	CI: V/f control, angular setpoint	0		Operation	3		
494	p1358[0]	D	Angular difference, symmetrizing, actual angle	0		Operation	3	0	1
495	r1359		CO: Angular difference	0.00	°		3		
496	⊞ p1400[0]	D	Speed control configuration	8021H		Operation	2		
497	⊞ p1401[0]	D	Flux control configuration	EH		Operation	3		
498	⊞ p1402[0]	D	Closed-loop current control and motor model configuration	1H		Operation	3		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
576	p1540[0]	C	CI: Torque limit speed controller upper scaling	100%		Ready to run	3		
577	p1541[0]	C	CI: Torque limit. speed controller lower scaling	100%		Ready to run	3		
578	p1545[0]	C	BI: Activates travel to a fixed stop	0		Ready to run	3		
579	r1547[0]		CO: Torque limit for speed controller output, Upper limit	12447.65	Nm		3		
580	p1551[0]	C	BI: Torque limit variable/fixed signal source	1		Operation	3		
581	p1552[0]	C	CI: Torque limit upper scaling without offset	100%		Ready to run	3		
582	p1554[0]	C	CI: Torque limit lower scaling without offset	100%		Ready to run	3		
583	p1555[0]	C	CI: Power limit	100%		Ready to run	3		
584	p1556[0]	D	Power limit scaling	0.00		Ready to run	2	0	3.40282E+38
585	p1569[0]	C	CI: Supplementary torque 3	VECTOR_02 : r3841		Ready to run	2		
586	p1570[0]	D	CO: Flux setpoint	100.0	%	Operation	2	50	200
587	p1574[0]	D	Voltage reserve dynamic	10.0	Vrms	Operation	3	0	150
588	p1580[0]	D	Efficiency optimization	0	%	Operation	2	0	100
589	p1582[0]	D	Flux setpoint smoothing time	20	ms	Operation	3	4	5000
590	p1584[0]	D	Field weakening operation, flux setpoint smoothing time	0	ms	Operation	3	0	20000
591	p1586[0]	D	Field weakening characteristic, scaling	100.0	%	Operation	3	80	120
592	p1596[0]	D	Field weakening controller integral-action time	50	ms	Operation	3	10	10000
593	r1598		CO: Total flux setpoint	0.0	%		3		
594	p1610[0]	D	Torque setpoint static (SLVC)	55.0	%	Operation	2	0	200
595	p1611[0]	D	Supplementary accelerating torque (SLVC)	30.0	%	Operation	2	0	200
596	p1616[0]	D	Current setpoint smoothing time	40	ms	Operation	3	4	10000
597	r1650		Current setpoint torque-generating before filter	-0.00	Arms		3		
598	r1651		CO: Torque setpoint, function generator	0.00	Nm		3		
599	p1655[0]		CI: Current setpoint filter natural frequency tuning, Filter 1	100%		Operation	3		
600	p1656[0]	D	Activates current setpoint filter	1H		Operation	3		
601	p1657[0]	D	Current setpoint filter 1 type	[1] Low pass: PT2		Operation	3		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
602	p1658[0]	D	Current setpoint filter 1 denominator natural frequency	1999.0	Hz	Operation	3	0.5	16000
603	p1659[0]	D	Current setpoint filter 1 denominator damping	0.700		Operation	3	0.001	10
604	p1660[0]	D	Current setpoint filter 1 numerator natural frequency	1999.0	Hz	Operation	3	0.5	16000
605	p1661[0]	D	Current setpoint filter 1 numerator damping	0.700		Operation	3	0	10
606	p1662[0]	D	Current setpoint filter 2 type	[1] Low pass: PT2		Operation	3		
607	p1663[0]	D	Current setpoint filter 2 denominator natural frequency	1999.0	Hz	Operation	3	0.5	16000
608	p1664[0]	D	Current setpoint filter 2 denominator damping	0.700		Operation	3	0.001	10
609	p1665[0]	D	Current setpoint filter 2 numerator natural frequency	1999.0	Hz	Operation	3	0.5	16000
610	p1666[0]	D	Current setpoint filter 2 numerator damping	0.700		Operation	3	0	10
611	p1699		Filter data acceptance	0		Operation	3	0	1
612	p1715[0]	D	Current controller P gain	0.240		Operation	3	0	100000
613	p1717[0]	D	Current controller integral-action time	6.40	ms	Operation	3	0	1000
614	r1728		De-coupling voltage, in-line axis	0	Vrms		3		
615	r1729		De-coupling voltage, quadrature axis	0	Vrms		3		
616	r1732		CO: Direct-axis voltage setpoint	0.0	Vrms		3		
617	r1733		CO: Quadrature-axis voltage setpoint	0.0	Vrms		3		
618	p1740[0]	D	Gain resonance damping for sensorless closed loop control	0.025		Operation	3	0	10
619	p1744[0]	D	Motor model speed threshold stall detection	40.00	RPM	Operation	3	0	210000
620	p1745[0]	D	Motor model error threshold stall detection	60.0	%	Operation	3	0	1000
621	⊞ p1750[0]	D	Motor model configuration	0H		Operation	3		
622	⊞ r1751		Motor model status	E00DH			3		
623	p1752[0]	D	Motor model changeover speed operation with encoder	200.0	RPM	Operation	3	0	210000
624	p1753[0]	D	Motor model changeover speed hysteresis operation with encoder	25.0	%	Operation	3	0	90
625	p1755[0]	D	Motor model changeover speed sensorless operation	66.7	RPM	Operation	3	0	210000

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
626	p1756		Motor model changeover speed hysteresis sensorless operation	75.0	%	Operation	3	0	95
627	p1758[0]	D	Motor model changeover delay time closed/open-loop control	1000	ms	Operation	3	100	10000
628	p1759[0]	D	Motor model changeover delay time open/closed loop control	0	ms	Operation	3	0	2000
629	p1760[0]	D	Motor model with encoder speed adaptation Kp	0.240		Operation	3	0	100000
630	p1761[0]	D	Motor model with encoder speed adaptation Tn	150	ms	Operation	3	0	1000
631	p1764[0]	D	Motor model without encoder speed adaptation Kp	0.480		Operation	3	0	100000
632	p1767[0]	D	Motor model without encoder speed adaptation Tn	31	ms	Operation	3	1	200
633	r1770		Motor model speed adaptation proportional component	0.00	RPM		3		
634	r1771		Motor model speed adaptation I comp.	0.00	RPM		3		
635	r1779		Motor model absolute flux	0.00	%		3		
636	⊞ p1780[0]	D	Motor model adaptation configuration	34H		Operation	3		
637	p1781[0]	D	Motor model Rs adaptation integral time	1000	ms	Operation	3	10	10000
638	r1782[0]	D	Motor model Rs adaptation corrective value	0.00000	Ohm		3		
639	p1783[0]	D	Motor model Rs adaptation Kp	0.100		Operation	3	0	1
640	p1785[0]	D	Motor model Lh adaptation Kp	0.000		Operation	3	0	1
641	p1786[0]	D	Motor model Lh adaptation integral time	1000	ms	Operation	3	10	10000
642	r1787[0]	D	Motor model Lh adaptation corrective value	0.03940	mH		3		
643	p1800[0]	D	Pulse frequency	1.250	kHz	Operation	2	1	16
644	r1801		Actual pulse frequency	0.000	kHz		3		
645	p1802[0]	D	Modulator mode	[4] SVM/FLB without overcontrol		Ready to run	3		
646	p1803[0]	D	Maximum modulation depth	106.0	%	Operation	3	20	150
647	p1820[0]	D	Direction reversal output phases	[0] Off		Commissioning (P10,3)	3		
648	p1821[0]	D	Direction reversal rotating field	[0] No direction of reversal		Commissioning (P10,3)	3		
649	p1825		Converter valve threshold voltage	0.8	Vrms	Operation	3	0	100

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
650	p1828		Compensation valve lockout time phase U	2.89	µs	Operation	3	0	1E+06
651	p1829		Compensation valve lockout time phase V	2.89	µs	Operation	3	0	1E+06
652	p1830		Compensation valve lockout time phase W	2.89	µs	Operation	3	0	1E+06
653	p1832		Dead time compensation current level	23.2	Arms	Operation	3	0	10000
654	⊞ r1837		Gating unit configuration	410H			3		
655	⊞ p1840[0]	D	Actual value correction configuration	1H		Ready to run	3		
656	p1900		Motor data identification and rotating measurement	[0] Inhibited		Ready to run	1		
657	⊞ p1909[0]	M	Motor data identification control word	60H		Ready to run	3		
658	p1910		Motor data identification selection	[0] Inhibited		Ready to run	2		
659	⊞ p1959[0]	D	Rotating measurement configuration	1FH		Ready to run	2		
660	p1960		Rotating measurement selection	[0] Inhibited		Ready to run	2		
661	p1961		Saturation characteristic speed to determine	40	%	Operation	3	26	75
662	p1965		Speed_ctrl_opt speed	40	%	Operation	3	10	75
663	p1967		Speed_ctrl_opt dynamic factor	100	%	Operation	3	1	400
664	r1968		Speed_ctrl_opt dynamic factor actual	0.00000	%		3		
665	r1973		Rotating measurement, encoder test pulse number determined	0			3		
666	p1982[0]	M	Pole position identification selection	[0] Pole position identification off		Ready to run	3		
667	r1984		Pole position identification, angular difference	0.00	°		3		
668	r1985		Pole position identification, saturation characteristic	0	Arms		3		
669	r1987		Pole position identification trigger characteristic	0	%		3		
670	p1991[0]	M	Motor changeover, angular commutation correction	0	°	Ready to run	3	-180	180
671	p1999[0]	M	Ang. commutation offset calibr. and pole position ID - scaling	100	%	Operation	3	10	5000
672	p2000		Reference speed reference frequency	1000.00	RPM	Ready to run	2	6	210000
673	p2001		Reference voltage	1000	Vrms	Ready to run	3	10	100000
674	p2002		Reference current	1357.50	Arms	Ready to run	3	0.1	100000

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
735	r2131		CO: Actual fault code	0			3		
736	r2132		CO: Actual alarm code	0			3		
737	⊞ r2133[0]		Fault value for float values	0			3		
738	⊞ r2134[0]		Alarm value for float values	0.00			3		
739	⊞ r2135		CO/BO: Status word faults/alarms 2	0H			2		
740	⊞ r2136[0]		Fault time removed in days	0			3		
741	⊞ r2138		CO/BO: Control word faults/alarms	0H			2		
742	⊞ r2139		CO/BO: Status word faults/alarms 1	0H			2		
743	p2140[0]	D	Hysteresis speed 2	4.98	RPM	Operation	3	0	300
744	p2141[0]	D	Speed threshold 1	9.95	RPM	Operation	3	0	210000
745	p2142[0]	D	Hysteresis speed 1	4.98	RPM	Operation	3	0	300
746	⊞ p2144[0]	C	BI: Motor stall monitoring enable (negated)	0		Operation	3		
747	⊞ r2145[0]		Alarm time received in days	0			3		
748	⊞ r2146[0]		Alarm time removed in days	0			3		
749	⊞ p2148[0]	C	BI: Ramp-function generator active	VECTOR_02 : r1199.2		Operation	3		
750	⊞ p2149[0]	D	Monitoring configuration	1H		Operation	3		
751	p2150[0]	D	Hysteresis speed 3	4.98	RPM	Operation	3	0	300
752	⊞ p2151[0]	C	CI: Speed setpoint for messages/signals	VECTOR_02 : r1170		Ready to run	3		
753	p2153[0]	D	Speed actual value filter time constant	50	ms	Operation	3	0	1E+06
754	⊞ p2154[0]	C	CI: Speed setpoint 2	0		Ready to run	3		
755	p2155[0]	D	Speed threshold 2	597.00	RPM	Operation	3	0	210000
756	p2156[0]	D	On delay, comparison value reached	0.0	ms	Operation	2	0	10000
757	p2161[0]	D	Speed threshold 3	9.95	RPM	Operation	3	0	210000
758	p2162[0]	D	Hysteresis speed n_act > n_max	99.50	RPM	Operation	2	0	60000
759	p2163[0]	D	Speed threshold 4	100.00	RPM	Operation	2	0	210000
760	p2164[0]	D	Hysteresis speed 4	10.00	RPM	Operation	2	0	200
761	p2166[0]	D	Off delay n_act = n_set	200.0	ms	Operation	2	0	10000
762	p2167[0]	D	Switch-on delay n_act = n_set	1000.0	ms	Operation	2	0	10000

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
791	p3111[0]	C	BI: External fault 3, enable	1		Operation	3		
792	p3112[0]	C	BI: External fault 3 enable negated	0		Operation	3		
793	r3113		CO/BO: NAMUR message bit bar	0H			3		
794	p3660[0]		VSM input line supply voltage, voltage scaler	0.00	%	Ready to run	3	0	100000
795	r3661[0]		CO: VSM input line supply voltage u1 - u2	0.00	V		3		
796	r3662[0]		CO: VSM input line supply voltage u2 - u3	0.00	V		3		
797	r3664[0]		CO: VSM temperature evaluation, status	0H			3		
798	p3665[0]		VSM temperature evaluation, sensor type	[0] No sensor		Ready to run	3		
799	r3666[0]		CO: VSM temperature KTY	0.0	°C		3		
800	p3667[0]		VSM line filter overtemperature alarm threshold	150.00	°C	Ready to run	3	0	301
801	p3668[0]		VSM line filter overtemperature shutdown threshold	180.00	°C	Ready to run	3	0	301
802	p3669[0]		VSM line filter overtemperature hysteresis	3.00	K	Ready to run	3	1	50
803	p3670[0]		VSM 10 V input CT gain	1.000	A	Ready to run	3	0	1000
804	r3671[0]		CO: VSM 10 V input CT 1 actual value	0.00	A		3		
805	r3672[0]		CO: VSM 10 V input CT 2 actual value	0.00	A		3		
806	r3673[0]		CO: VSM 10 V input 1 actual value	0.00	V		3		
807	r3674[0]		CO: VSM 10 V input 2 actual value	0.00	V		3		
808	p3800[0]	D	Sync-line-drive activation	[0] Sync-line-drive de-activated		Ready to run	2		
809	p3801[0]	D	Sync-line-drive, drive object number	1		Ready to run	2	1	62
810	p3802[0]	C	BI: Sync-line-drive enable	0		Ready to run	2		
811	r3803		CO/BO: Sync-line-drive control word	0H			2		
812	r3804		CO: Sync-line-drive target frequency	0.00	Hz		2		
813	r3805		CO: Sync-line-drive frequency difference	0.00	Hz		2		
814	p3806[0]	D	Sync-line-drive frequency difference threshold value	0.10	Hz	Operation	2	0	1
815	r3808		CO: Sync-line-drive phase difference	0.00	°		2		
816	p3809[0]	D	Sync-line-drive phase setpoint	0.00	°	Operation	2	-180	179.9
817	p3811[0]	D	Sync-line-drive frequency limiting	0.20	Hz	Operation	2	0	1
818	r3812		CO: Sync-line-drive correction frequency	0.00	Hz		2		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
819	p3813[0]	D	Sync-line-drive phase synchronism threshold value	2.00	°	Operation	2	1	20
820	r3814		CO: Sync-line-drive voltage difference	0.00	Vrms		2		
821	p3815[0]	D	Sync-line-drive voltage difference threshold value	10.00	%	Operation	2	0	10
822	⊞ r3819		CO/BO: Sync-line-drive status word	0H			2		
823	p3820[0]	D	Friction characteristic, value n0	73.67	RPM	Ready to run	2	0	210000
824	p3821[0]	D	Friction characteristic, value n1	76.00	RPM	Ready to run	2	0	210000
825	p3822[0]	D	Friction characteristic, value n2	90.00	RPM	Ready to run	2	0	210000
826	p3823[0]	D	Friction characteristic, value n3	113.33	RPM	Ready to run	2	0	210000
827	p3824[0]	D	Friction characteristic, value n4	136.67	RPM	Ready to run	2	0	210000
828	p3825[0]	D	Friction characteristic, value n5	160.00	RPM	Ready to run	2	0	210000
829	p3826[0]	D	Friction characteristic, value n6	300.00	RPM	Ready to run	2	0	210000
830	p3827[0]	D	Friction characteristic, value n7	533.33	RPM	Ready to run	2	0	210000
831	p3828[0]	D	Friction characteristic, value n8	766.67	RPM	Ready to run	2	0	210000
832	p3829[0]	D	Friction characteristic, value n9	1000.00	RPM	Ready to run	2	0	210000
833	p3830[0]	D	Friction characteristic, value M0	0.00	Nm	Ready to run	2	-1E+06	1E+06
834	p3831[0]	D	Friction characteristic, value M1	0.00	Nm	Ready to run	2	-1E+06	1E+06
835	p3832[0]	D	Friction characteristic, value M2	0.00	Nm	Ready to run	2	-1E+06	1E+06
836	p3833[0]	D	Friction characteristic, value M3	0.00	Nm	Ready to run	2	-1E+06	1E+06
837	p3834[0]	D	Friction characteristic, value M4	0.00	Nm	Ready to run	2	-1E+06	1E+06
838	p3835[0]	D	Friction characteristic, value M5	0.00	Nm	Ready to run	2	-1E+06	1E+06
839	p3836[0]	D	Friction characteristic, value M6	0.00	Nm	Ready to run	2	-1E+06	1E+06
840	p3837[0]	D	Friction characteristic, value M7	0.00	Nm	Ready to run	2	-1E+06	1E+06

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
892	p9319		SI motion fine resolution G1_XIST1 (Motor Module)	11		Commissioning (P10,95)	3	2	18
893	p9320		SI motion spindle pitch (Motor Module)	10.0000	mm	Commissioning (P10,95)	3	0.1	8388
894	⊞ p9321[0]		SI motion gearbox encoder/load denominator (Motor Module), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
895	⊞ p9322[0]		SI motion gearbox encoder/load numerator (Motor Module), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
896	p9326		SI motion encoder assignment (Motor Module)	1		Commissioning (P10,95)	3	1	3
897	⊞ p9328[0]		SI Motion Sensor Module Node Identifier (Motor Module)	0H		Commissioning (P10,95)	3	0H	FFH
898	p9330		SI motion standstill tolerance (Motor Module)	1.000	mm	Commissioning (P10,95)	3	0	100
899	⊞ p9331[0]		SI motion SLS limit values (Motor Module), Limit value SLS1	2000.00	mm/min	Commissioning (P10,95)	3	0	1E+06
900	p9342		SI motion act val comparison tol (crosswise) (Motor Module)	0.1000	mm	Commissioning (P10,95)	3	0.001	360
901	p9346		SI motion SSM velocity limit (Motor Module)	20.00	mm/min	Commissioning (P10,95)	3	0	1E+06
902	p9348		SI motion SBR actual velocity tolerance (Motor Module)	300.00	mm/min	Commissioning (P10,95)	3	0	120000
903	p9349		SI motion slip velocity tolerance (Motor Module)	6.00	mm/min	Commissioning (P10,95)	3	0	6000
904	p9351		SI Motion SLS changeover delay time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
905	p9352		SI Motion transition time STOP C to SOS (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
906	p9353		SI Motion transition time STOP D to SOS (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
907	p9355		SI motion transition time STOP F to STOP B (Motor Module)	0.00	µs	Commissioning (P10,95)	3	0	6E+08
908	p9356		SI motion pulse cancelation delay time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	6E+08
909	p9357		SI motion pulse cancelation test time (Motor Module)	100000.00	µs	Commissioning (P10,95)	3	0	1E+07

	Parameter	Dataset	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
931	p9500		SI motion monitoring clock cycle (Control Unit)	12.00	ms	Commissioning (P10,95)	3	0.5	25
932	⊞ p9501		SI motion enable safety functions (Control Unit)	0H		Commissioning (P10,95)	3		
933	p9502		SI motion axis type (Control Unit)	[0] Linear axis		Commissioning (P10,95)	3		
934	p9510		SI Motion clock-cycle synchronous PROFIBUS master	[0] No clock-cycle synchronous PROFIBUS master		Commissioning (P10,95)	3		
935	⊞ p9516		SI motion motor encoder config., safety-relevant functions (CU)	0H		Commissioning (P10,95)	3		
936	p9517		SI motion linear scale grid division (Control Unit)	16000.00	nm	Commissioning (P10,95)	3	0	2.5E+08
937	p9518		SI motion encoder pulses per revolution (Control Unit)	2048		Commissioning (P10,95)	3	0	100000
938	p9519		SI motion fine resolution G1_XIST1 (Control Unit)	11		Commissioning (P10,95)	3	2	18
939	p9520		SI motion spindle pitch (Control Unit)	10.0000	mm	Commissioning (P10,95)	3	0.1	8388
940	⊞ p9521[0]		SI motion gearbox encoder/load denominator (Control Unit), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
941	⊞ p9522[0]		SI motion gearbox encoder/load numerator (Control Unit), Gearbox 1	1		Commissioning (P10,95)	3	1	2147000000
942	p9526		SI motion encoder assignment second channel	1		Commissioning (P10,95)	3	1	3
943	p9530		SI motion standstill tolerance (Control Unit)	1.000	mm	Commissioning (P10,95)	3	0	100
944	⊞ p9531[0]		SI motion SLS (SG) limit values (Control Unit), Limit value SLS1	2000.00	mm/min	Commissioning (P10,95)	3	0	1E+06
945	p9533		SI motion SLS setpoint velocity limiting (Control Unit)	80.000	%	Operation	3	0	100
946	p9542		SI motion act val comparison tol (crosswise) (Control Unit)	0.1000	mm	Commissioning (P10,95)	3	0.001	360
947	p9546		SI motion SSM (SGA n < nx) velocity limit n_x (CU)	20.00	mm/min	Commissioning (P10,95)	3	0	1E+06
948	p9548		SI motion SBR actual velocity tolerance (Control Unit)	300.00	mm/min	Commissioning (P10,95)	3	0	120000
949	p9549		SI motion slip velocity tolerance (Control Unit)	6.00	mm/min	Commissioning (P10,95)	3	0	6000

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
971	p9700		SI Motion copy function	[0] [00 hex] Copy function ended		Operation	3		
972	p9701		Acknowledge SI motion data	[0] [00 hex] Data unchanged		Operation	3		
973	p9705		BI: SI Motion: Test stop signal source	0		Commissioning (P10,95)	3		
974	⊞ r9710[0]		SI motion diagnostics result list 1, Result list, second channel	0H			3		
975	⊞ r9711[0]		SI motion diagnostics result list 2, Result list, second channel	0H			3		
976	r9712		SI motion diagnostics position action value motor side	0			3		
977	⊞ r9713[0]		SI motion diagnostics position action value load side, Load-side actual value on the Control Unit	0			3		
978	r9714		SI motion diagnostics velocity actual value load side	0			3		
979	⊞ r9719		CO/BO: SI motion control signals 2	0H			3		
980	⊞ r9720		CO/BO: SI Motion control signals integrated in the drive	0H			3		
981	⊞ r9721		CO/BO: SI motion status signals	0H			3		
982	⊞ r9722		CO/BO: SI motion status signals integrated in the drive	0H			3		
983	⊞ r9723		CO/BO: SI Motion diagnostic signals integrated in the drive	0H			3		
984	r9724		SI Motion crosswise comparison clock cycle	0.00	ms		3		
985	r9725		SI motion, diagnostics STOP F	0			3		
986	⊞ r9728[0]		SI motion actual checksum, SI parameters, Checksum over SI parameters for motion monitoring	C7D5F7C4H			3		
987	⊞ p9729[0]		SI motion reference checksum, SI parameters, Checksum over SI parameters for motion monitoring	0H		Commissioning (P10,95)	3	0H	FFFFFFFFH
988	⊞ r9733[0]		CO: SI Motion effective setpoint speed limiting, Setpoint limiting positive	0.0000	RPM		3		
989	⊞ r9735[0]		SI motion diagnostics result list 3, Result list, second channel	0H			3		
990	⊞ r9736[0]		SI motion diagnostics result list 4, Result list, second channel	0H			3		
991	⊞ r9737[0]		SI motion diagnostics result list 5, Result list, second channel	0H			3		
992	⊞ r9738[0]		SI motion diagnostics result list 6, Result list, second channel	0H			3		

	Parameter	Data set	Parameter text	Offline value VECTOR_02	Unit	Modifiable to	Access level	Minimum	Maximum
1019	p9850		SI SGE changeover tolerance time (Motor Module)	500000.00	µs	Commissioning (P10,95)	3	0	2E+06
1020	p9852		SI Safe Stop 1 delay time (Motor Module)	0.00	ms	Commissioning (P10,95)	3	0	300000
1021	p9858		SI transition time STOP F to STOP A (Control Unit)	0.00	µs	Commissioning (P10,95)	3	0	3E+07
1022	r9870[0]		SI version safety functions integrated in drive (Motor Module), Safety Version (major release)	2			3		
1023	r9871		SI common functions (Motor Module	DH			3		
1024	r9872		CO/BO: SI status list (Motor Module)	0H			2		
1025	r9880		SI monitoring clock cycle (Motor Module)	16.00	ms		3		
1026	r9881[0]		SI Motion Sensor Module Node Identifier second channel	30H			3		
1027	r9890[0]		SI version (Sensor Module), Safety Version (major release)	0			3		
1028	r9894[0]		SI crosswise comparison list (Motor Module)	1			3		
1029	r9895		SI diagnostics STOP F (Motor Module)	0			2		
1030	r9898		SI actual checksum SI parameters (Motor Module)	73DA52EDH			3		
1031	p9899		SI reference checksum SI parameters (Motor Module)	0H		Commissioning (P10,95)	3	0H	FFFFFFFFH

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Manufacturer:	S.C. ICPE ACTEL S.A.
End user:	PETAL SA
Equipment:	Pupitru Comanda
Description:	INSTALATIE INOVATOARE PENTRU CIMENTARE SI OPERATIUNI SPECIALE
Draw. no. / Revision:	M878/E22-1.1
Responsible for project:	Eng. Marin Cristinel
Designed:	Ing. Marin Cristinel
Checked by:	Ing. Laurentiu Codreanu
Approved by:	Ing. Potarniche Ion

Creation date: 12-Aug-08
Modification date: 01-Nov-22

-A81
Option
<K50>
SMC30 1)

-X520
1 NC
2 SSI_CLK
3 SSI_CLK*
4 P_Encoder 5V/24V
5 P_Encoder 5V/24V
6 P_Sense
7 M_Encoder(M)
8 NC
9 M_Sense
10 R
11 R*
12 B*
13 B
14 A*/SSI_DAT*
15 A/SSI_DAT

/1.7 WR/SMC
-X500 1..8 DSA

RDY

OUT >5V

/1.2 SMC_P24
-X524 + P24
2) + ' NC

/1.2 SMC_M
M M
2) M' M

PE

-X521
1 A
2 A*
3 B
4 B*
5 R
6 R*
7 CTRL
8 M

-X531
1 P_Encoder 5V/24V
2 M_Encoder
3 - Temp
4 + Temp
5 NC
6 NC
7 NC
8 NC

No.	
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1)	See the operating instructions
2)	Jumper already in the connector
.	

6SL3720-1TG41-0AA0-Z
D02+K08+K50+K90+M27+M87
Y11+X30

100

Project: N-W91238151130001_E_AB
ELCAD-VERSION: 7.4.0
D:/ABLAGE/ANLAGEN/000123815I_130_AB/N-W91238151130001_E_AB.pro
ELCAD-Projektstruktur: Circuit diagram | | 4 | |

				Date	07.05.2008	Siemens AG A&D LD Nürnberg Vo	SINAMICS S120 CABINET MODULE N-W91238151130001
				Drawn	SYSTEM		
AB	-	07.05.08	Syst.	Appr.			Circuit diagram
Rev.	Remarks	Date	Name	Norm	s. Artus-Symbol	Orig./Repl.f./Repl.by	

	TE001.001
	+H.A50
FS-SP	Sheet4+
	57 Sh.

No.
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Auxiliary busbars

Mains voltage
-X100 1 2 — 20_L1 /1.1, 20_L2 /1.1

230V

24V
5 6 — 1_P24 /1.2, 1_M /1.3

6SL3720-1TG41-0AA0-Z
D02+K08+K50+K90+M27+M87
Y11+X30

100

Project: N-W91238151130001_E_AB
ELCAD-VERSION: 7.4.0
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ELCAD-Projektstruktur: Circuit diagram | |5| |

				Date	07.05.2008		Siemens AG A&D LD Nürnberg Vo	SINAMICS S120 CABINET MODULE N-W91238151130001	TE001.001 +H.A50
				Drawn	SYSTEM				
AB	-	07.05.08	Syst.	Appr.					FS-SP Sheet5+
Rev.	Remarks	Date	Name	Norm	s. Artus-Symbol	Orig./Repl.f./Repl.by		Circuit diagram	57 Sh.

No.
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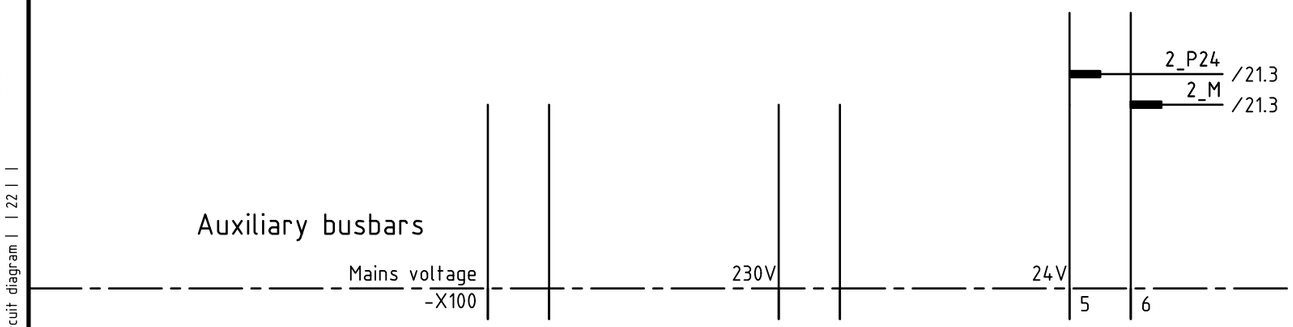


6SL3730-1TH41-8BC0-Z
D02+M87+Y11+X30

100

Project: N-W912381511300001_E_AB
ELCAD-VERSION: 7.4.0
D:/ABLAGE/ANLAGEN/000123815I_130_AB/N-W912381511300001_E_AB.pro
ELCAD-Projektstruktur: Circuit diagram | |22| |

				Date	07.05.2008			TE003.001
				Drawn	SYSTEM			+H.A50
AB	-	07.05.08	Syst.	Appr.				Sheet22+
Rev.	Remarks	Date	Name	Norm	s. Artus-Symbol	Orig./Repl.f./Repl.by	FS-SP	57 Sh.

Siemens AG
A&D LD
Nürnberg Vo

SINAMICS S120 CABINET MODULE
N-W912381511300001

Circuit diagram

4)

-A1-L1

/23.7 U1 — 1U1 — 1U2 — 1_U1 /29.1
/23.7 V1 — 1V1 — 1V2 — 1_V1 /29.1 — 97)
/23.7 W1 — 1W1 — 1W2 — 1_W1 /29.1

4)

-A1-L1.1

1W1 — 1W2 — 1_U2 /21.1
1V1 — 1V2 — 1_V2 /21.1 — 98)
1U1 — 1U2 — 1_W2 /21.1

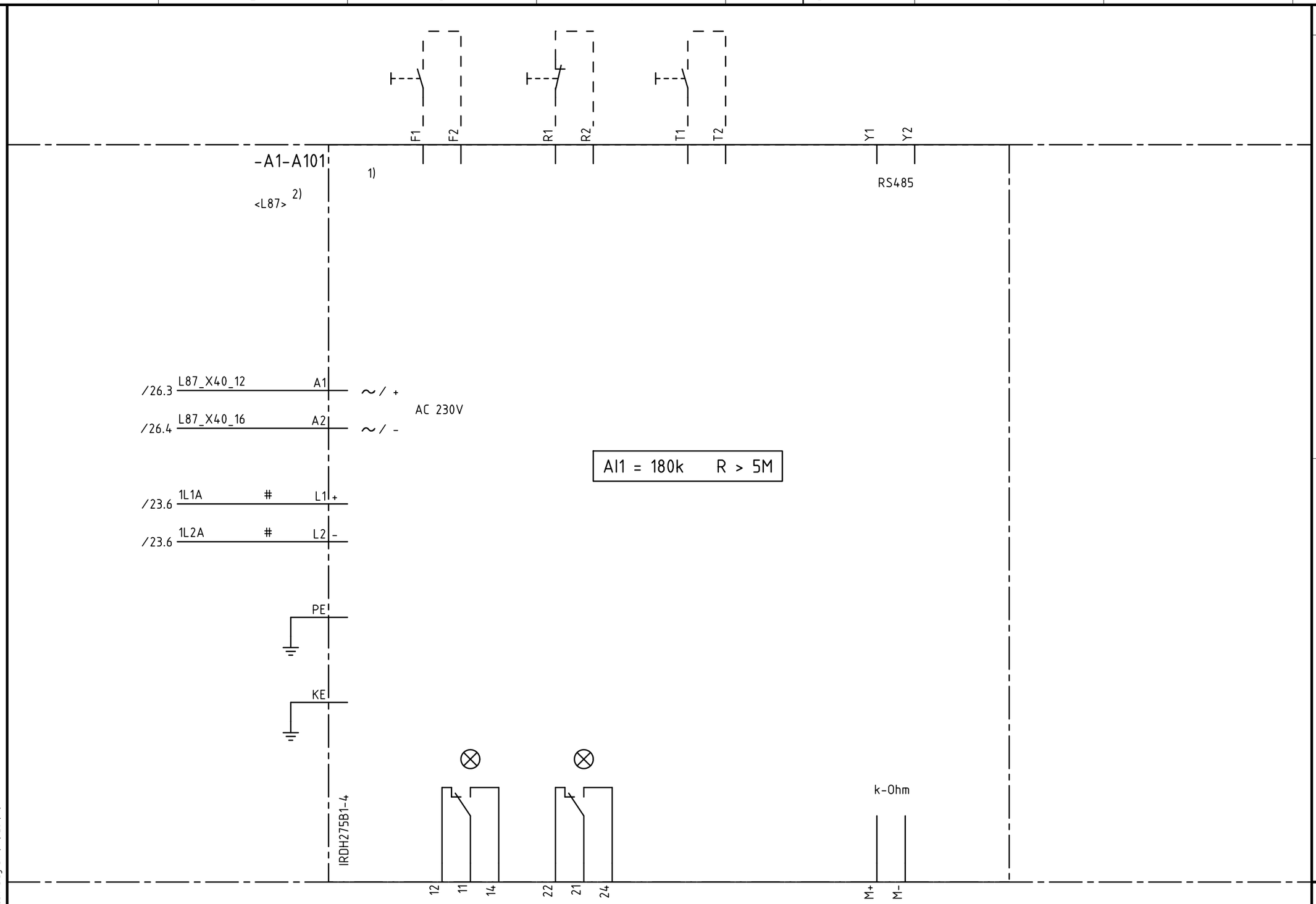
No. < >	
4)	Line reactor
97)	Connection to Infeed
98)	Connection to Infeed 2

6SL3700-0LG43-2BA0-Z
D02+K76+L25+L43+L87+M87
Y11

100

Project: N-W91238151130001_E_AB
ELCAD-VERSION: 7.4.0
D:/ABLAGE/ANLAGEN/000123815I_130_AB/N-W91238151130001_E_AB.pro
ELCAD-Projektstruktur: Circuit diagram | | 24 | |

				Date	07.05.2008	Siemens AG A&D LD Nürnberg Vo	SINAMICS S120 CABINET MODULE N-W91238151130001	TE003.002 +H.A25
				Drawn	SYSTEM			
AB	-	07.05.08	Syst.	Appr.				FS-SP Sheet24+
Rev.	Remarks	Date	Name	Norm	s. Artus-Symbol	Orig./Repl.f./Repl.by	Circuit diagram	57 Sh.



No. < >

1) See the operating instructions
2) Insulation monitor
.
\# Short circuit-proof configuration
.

6SL3700-0LG43-2BA0-Z
D02+K76+L25+L43+L87+M87
Y11

100

Project: N-W91238151130001_E_AB
ELCAD-VERSION: 7.4.0
D:/ABLAGE/ANLAGEN/000123815 1_130_AB/N-W91238151130001_E_AB.pro
ELCAD-Projektstruktur: Circuit diagram | | 28 | |

				Date	07.05.2008		Siemens AG A&D LD Nürnberg Vo	SINAMICS S120 CABINET MODULE N-W91238151130001	TE003.002
				Drawn	SYSTEM				+H.A25
AB	-	07.05.08	Syst.	Appr.					
Rev.	Remarks	Date	Name	Norm	s. Artus-Symbol	Orig./Repl.f./Repl.by		Circuit diagram	FS-SP Sheet 28+ 57 Sh.

39.		**?**		**XI1.24**
		Pupitru ACF		**Dulap actionare (D1)**
40.	**Alimentare Pupitru ACF, 230Vca, 50Hz**	**X1**	***12x1.5 mm2***	**X23**
41.	**Alimentare rezistenta incalzire Pupitru**	**X2**		**X24**
42.	**Stop de urgenta**	**X3**		**X25**
43.		**X4**		**X26**
44.	**Alimentare Pupitru ACF, 230Vca, 50Hz**	**X5**		**X27**
45.		**X6**		**X28**
46.	**Impunere turatie**	**X7**		**X29**
47.		**X8**		**X30**