

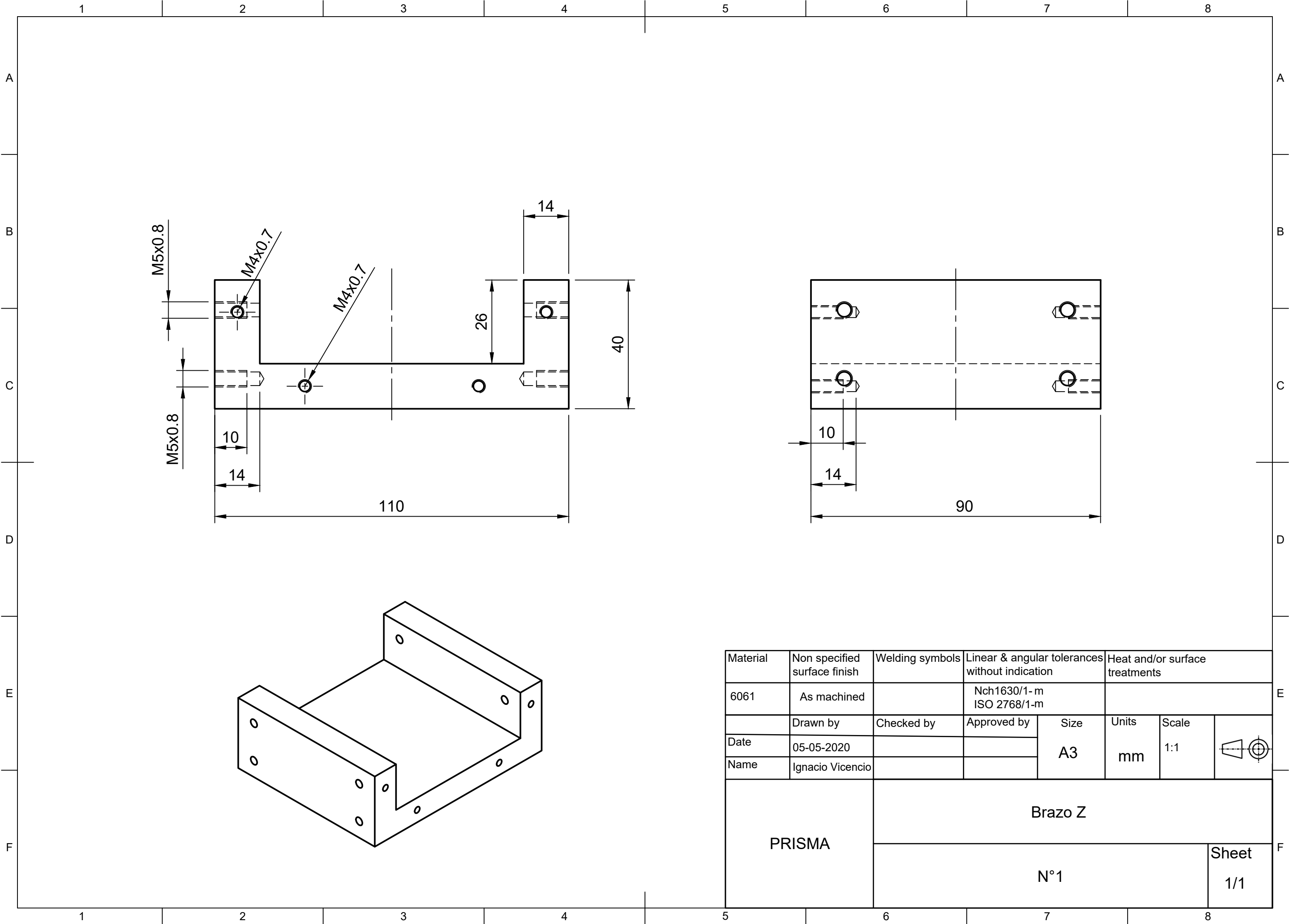
2020

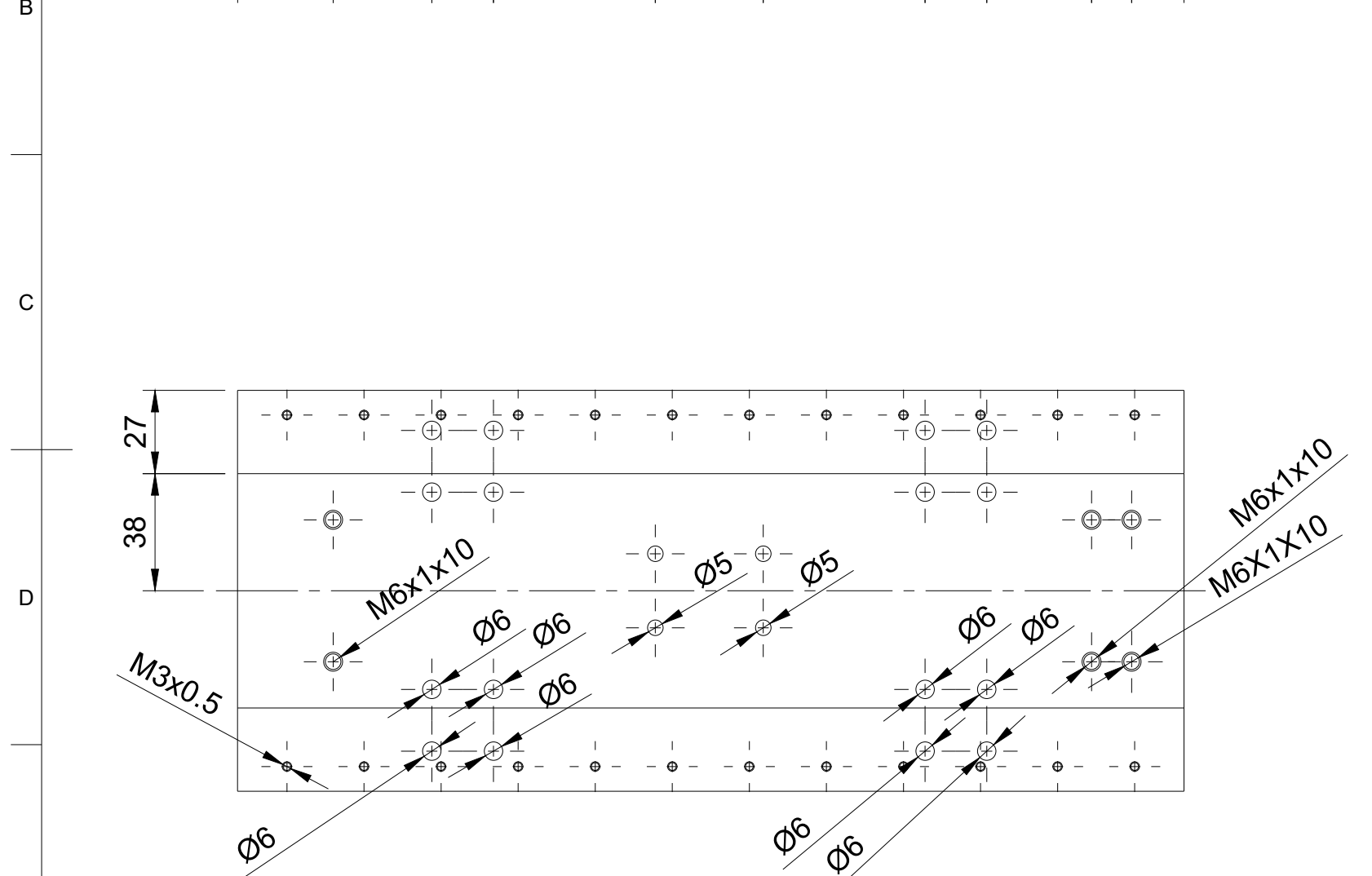
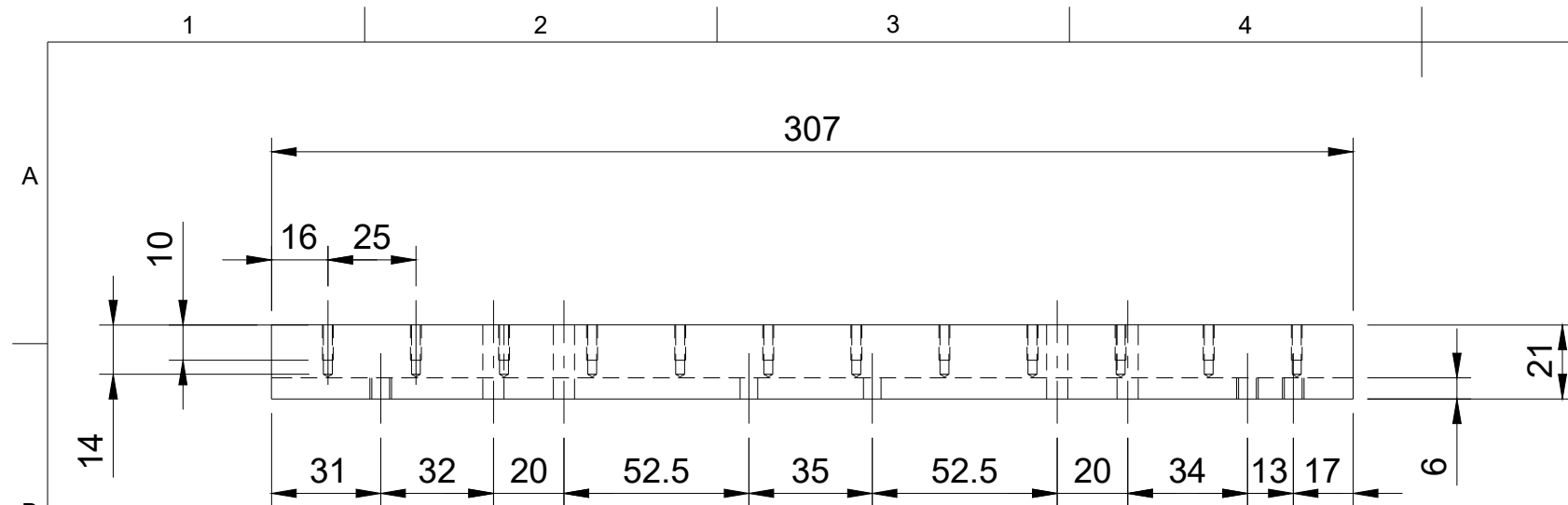
DISEÑO DE UNA FRESADORA CNC DE ESCRITORIO DE CABEZALES INTERCAMBIA

VICENCIO BETANZO, IGNACIO MARTIN

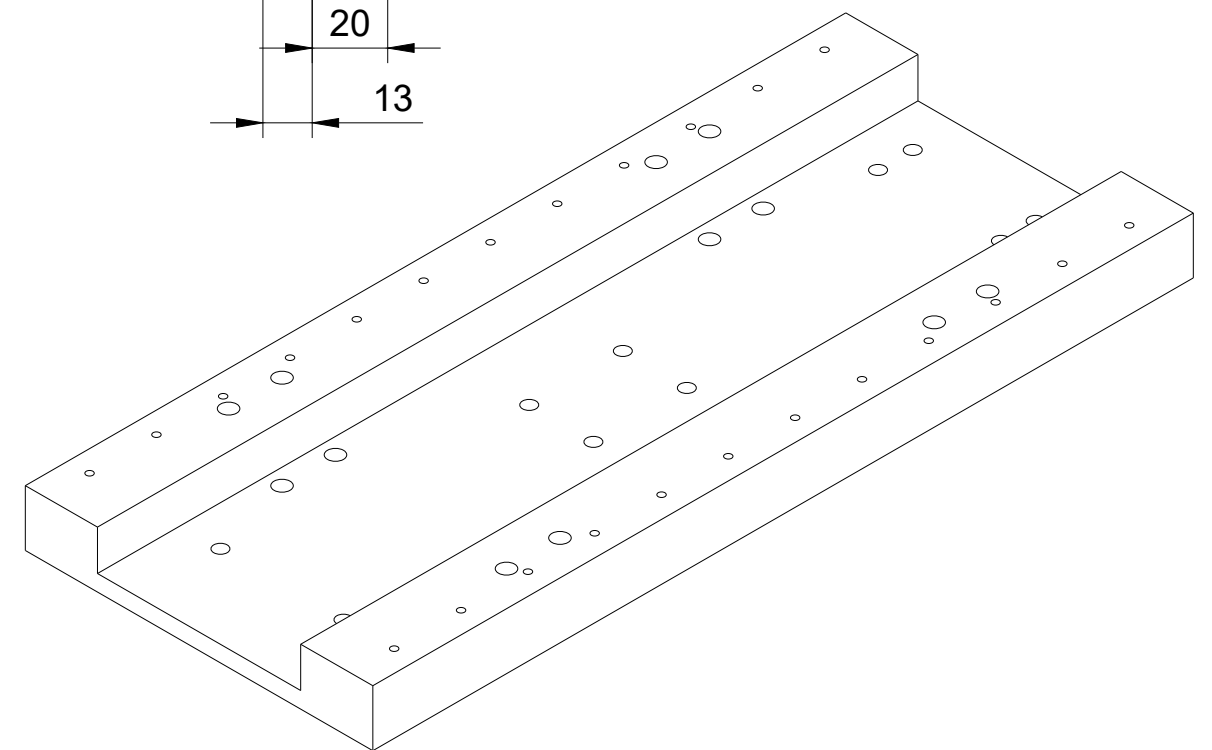
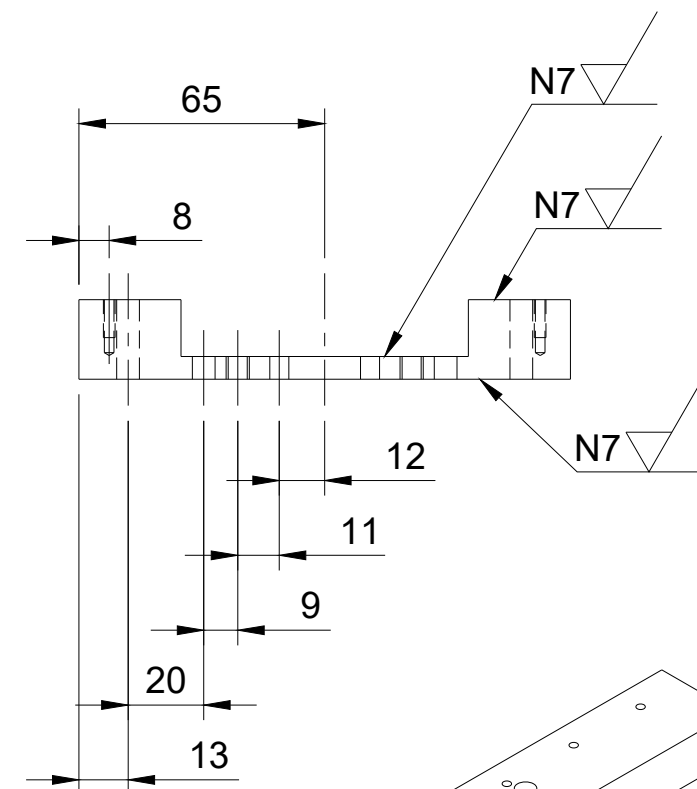
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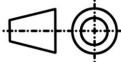
Repositorio Digital USM, UNIVERSIDAD TECNICA FEDERICO SANTA MARIA

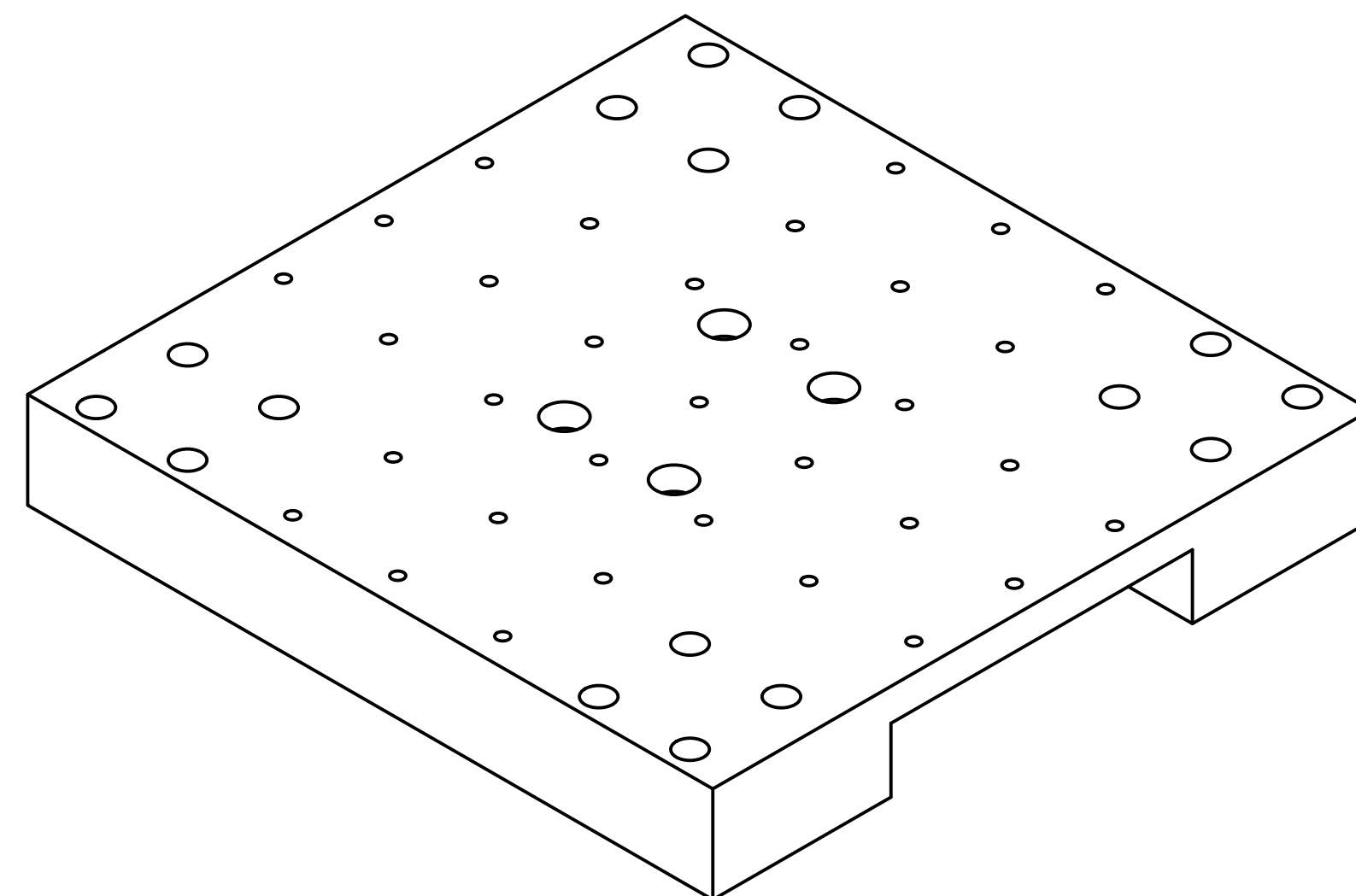
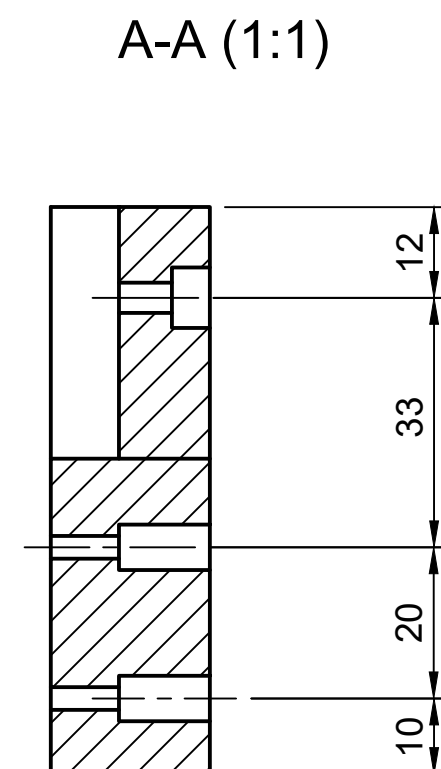
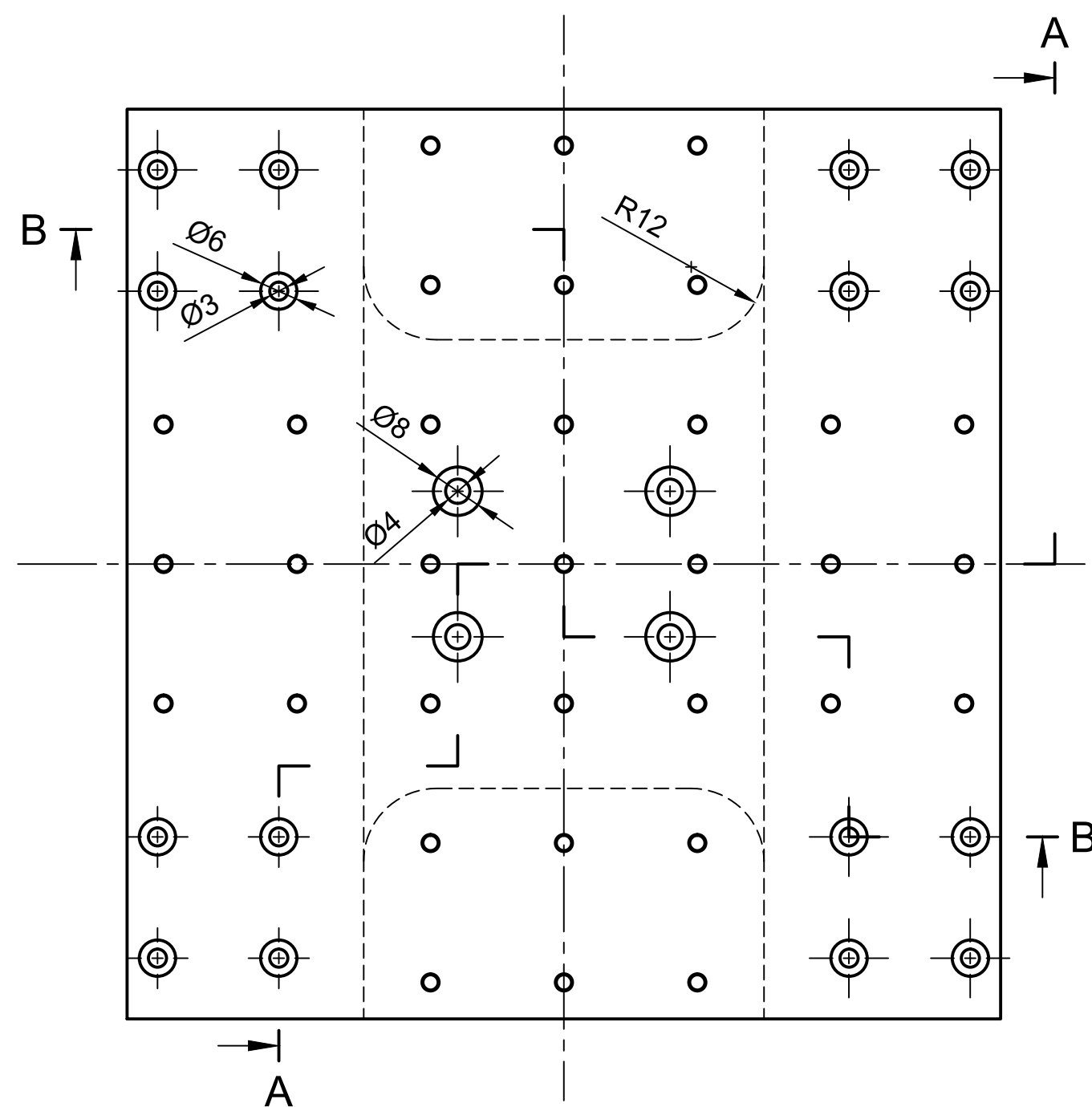
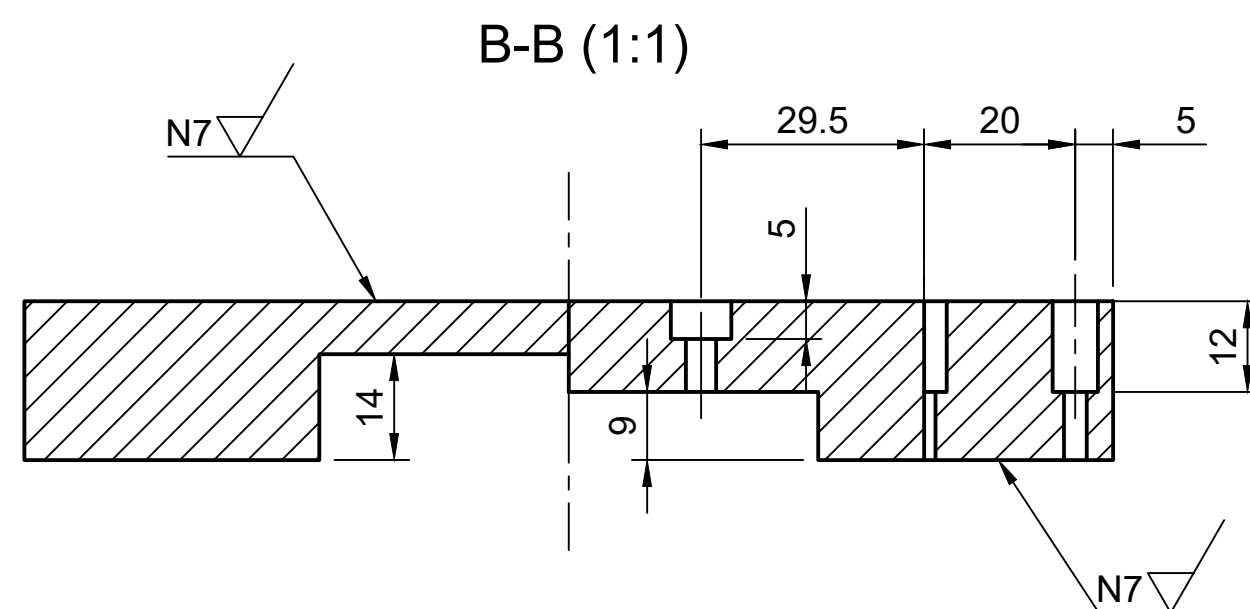
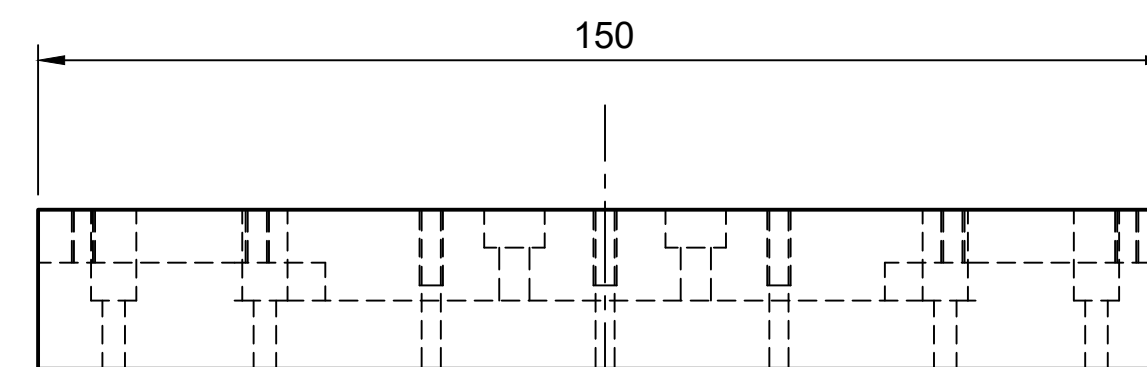
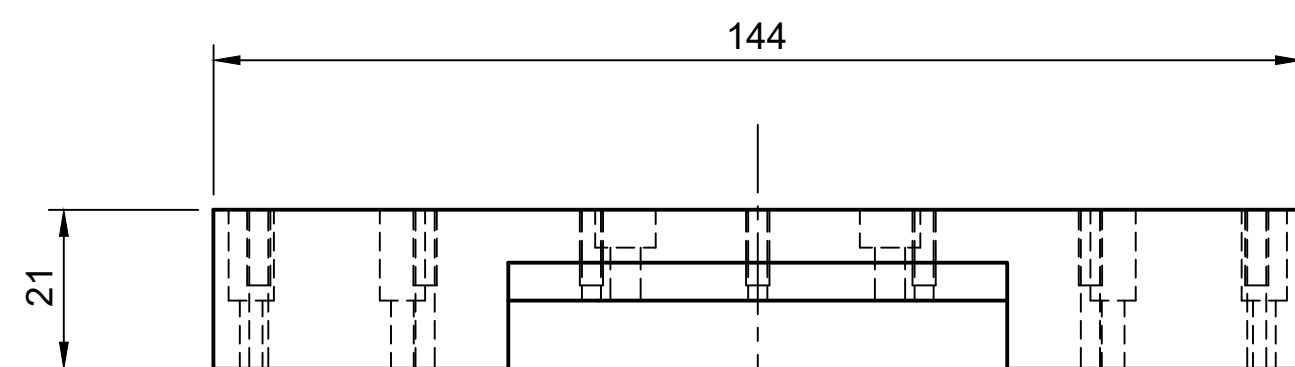




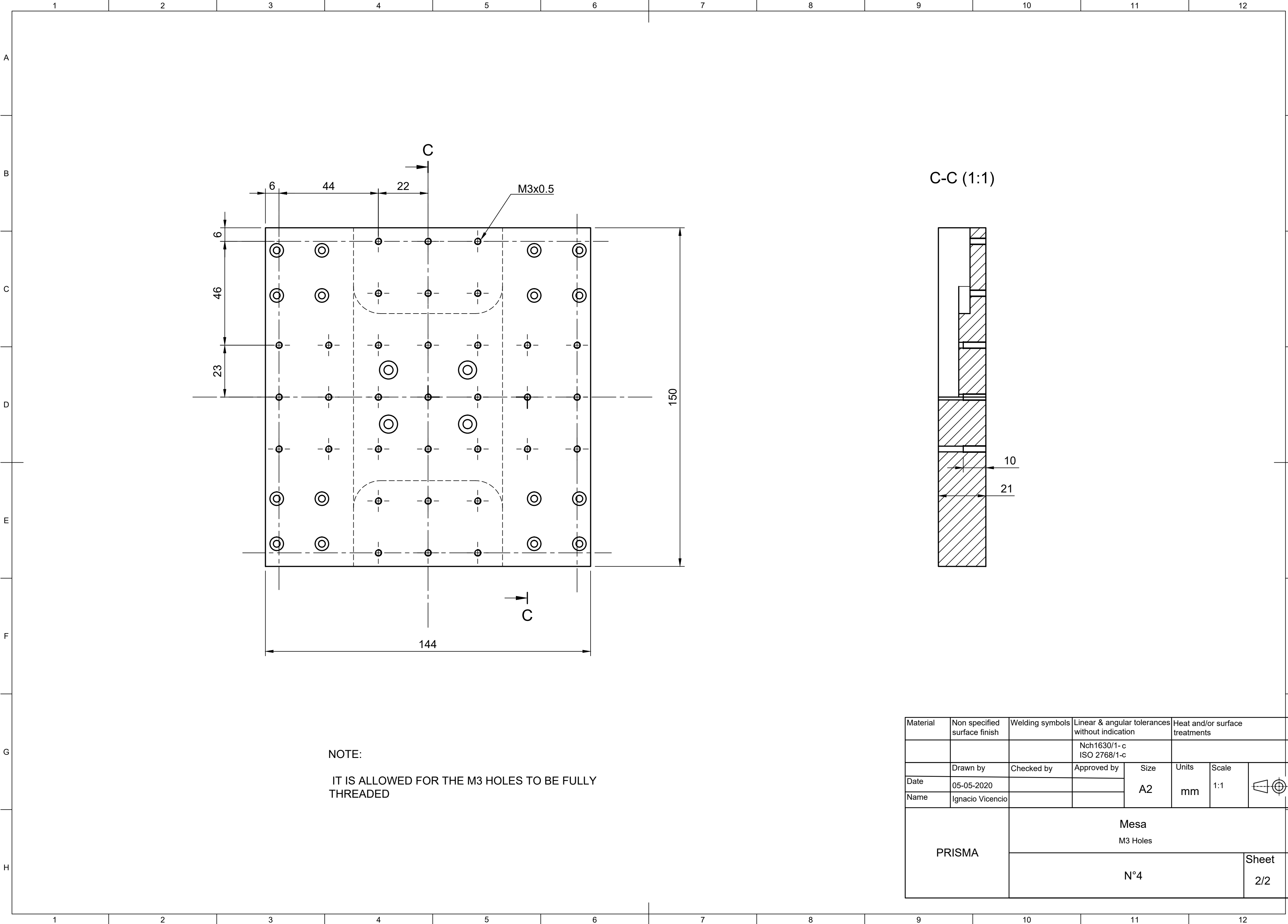
NOTE: PLEASE REMOVE ALL BURRS AND SHARP EDGES R0.5 OR CHAMFER MAX.



Material	Non specified surface finish	Welding symbols	Linear & angular tolerances without indication	Heat and/or surface treatments			
6061	As machined		Nch1630/1-m ISO 2768/1-m				
	Drawn by	Checked by	Approved by	Size	Units	Scale	
Date	24-03-2020			A3	mm	1:2	
Name	Ignacio Vicencio						
PRISMA		Carro X					
		N°2					Sheet 1/1



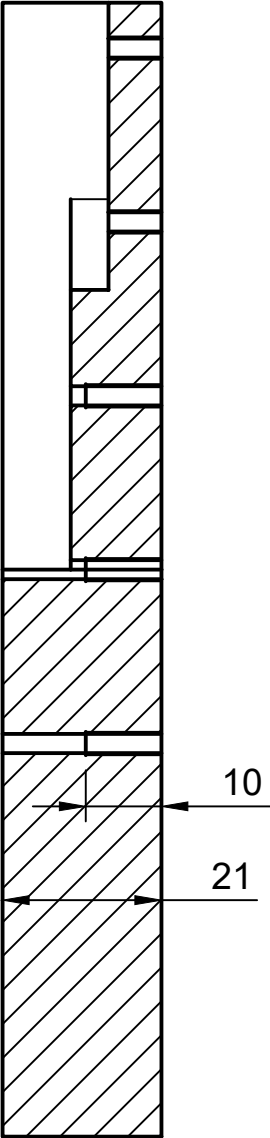
Material	Non specified surface finish	Welding symbols	Linear & angular tolerances without indication		Heat and/or surface treatments		
6061	As machined		Nch1630/1-m ISO 2768/1-m				
	Drawn by	Checked by	Approved by	Size A2	Units	Scale	
Date	05-05-2020				mm	1:1	
Name	Ignacio Vicencio						
PRISMA		Mesa					
		N°3					Sheet 1/2



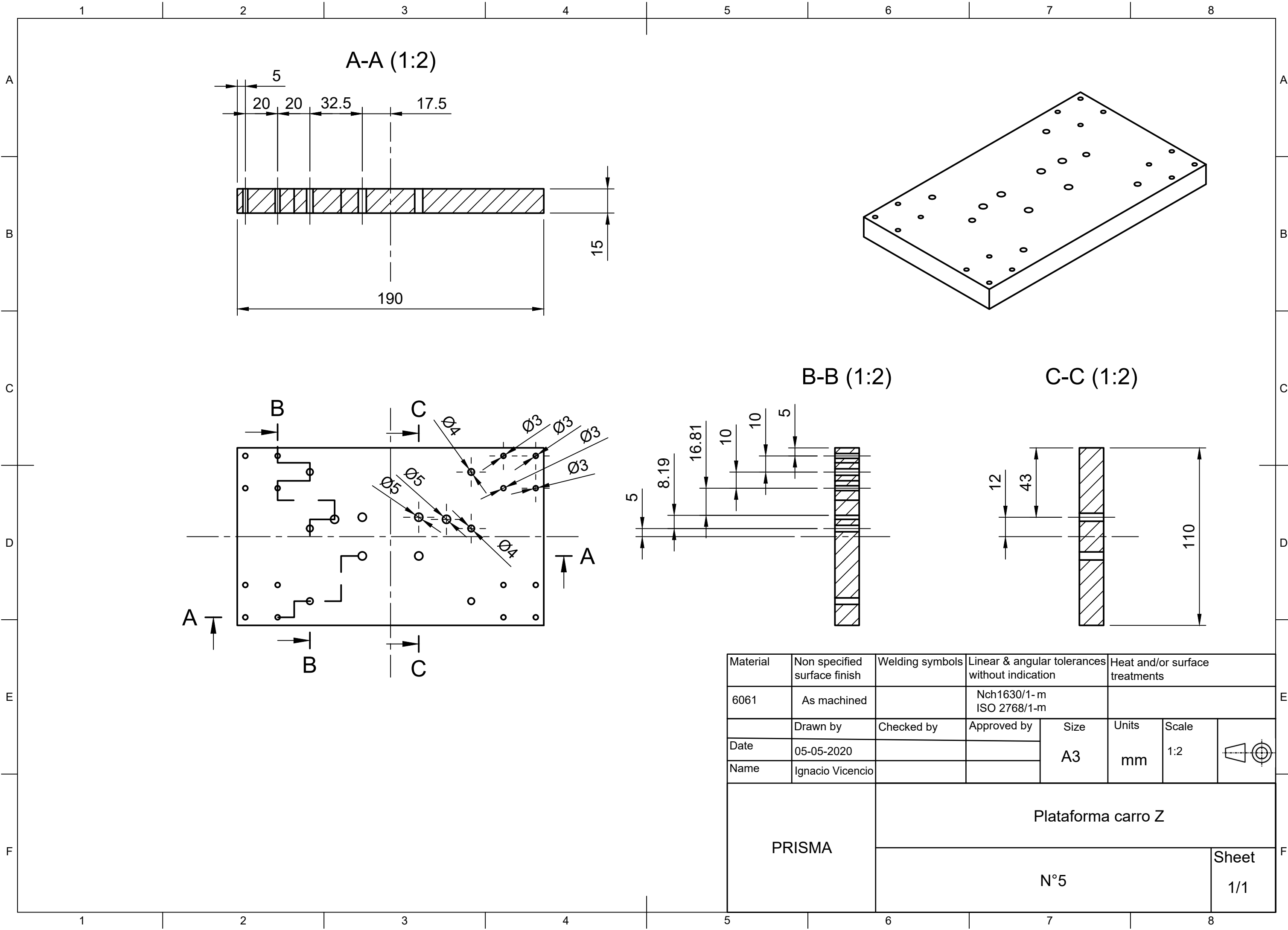
NOTE:

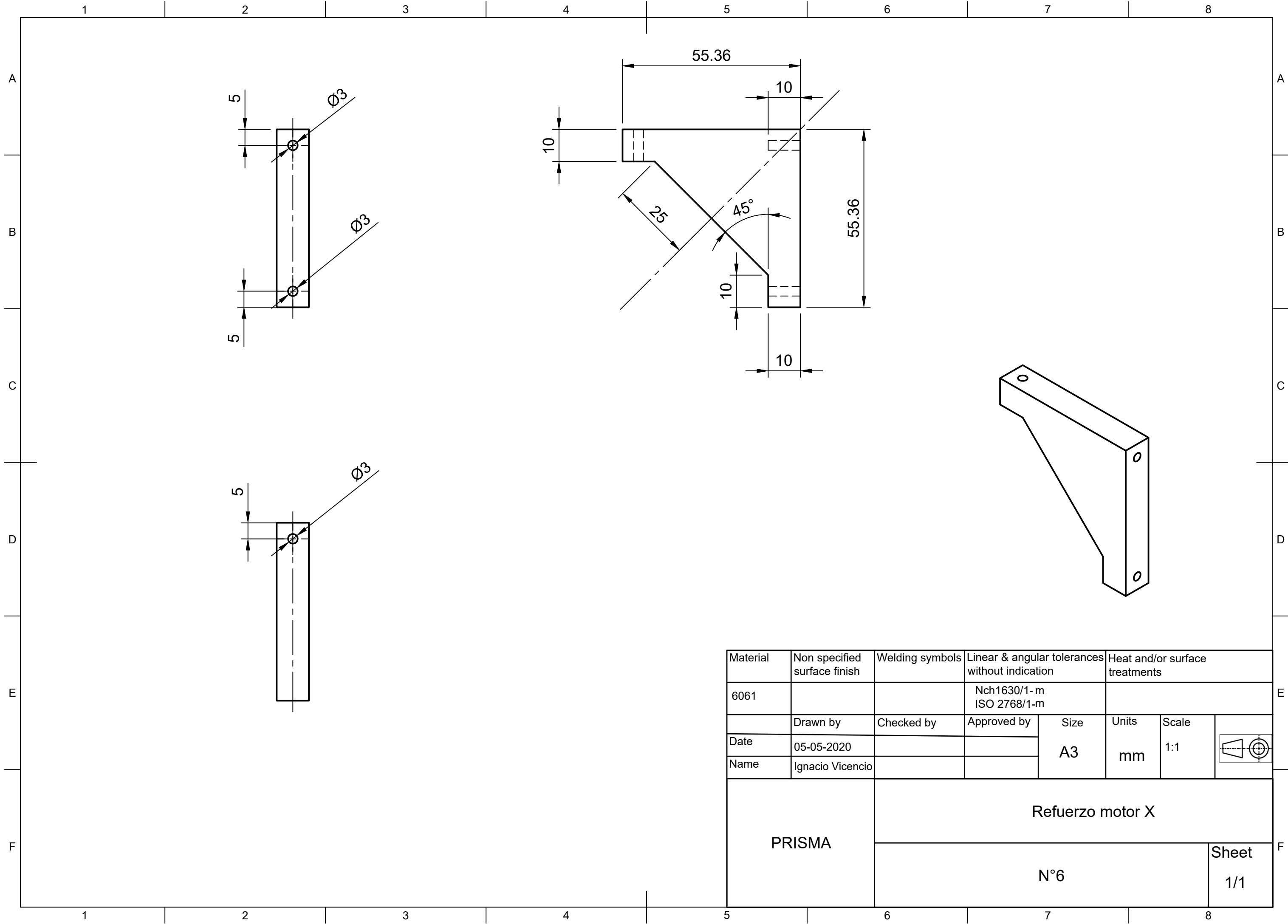
IT IS ALLOWED FOR THE M3 HOLES TO BE FULLY THREADED

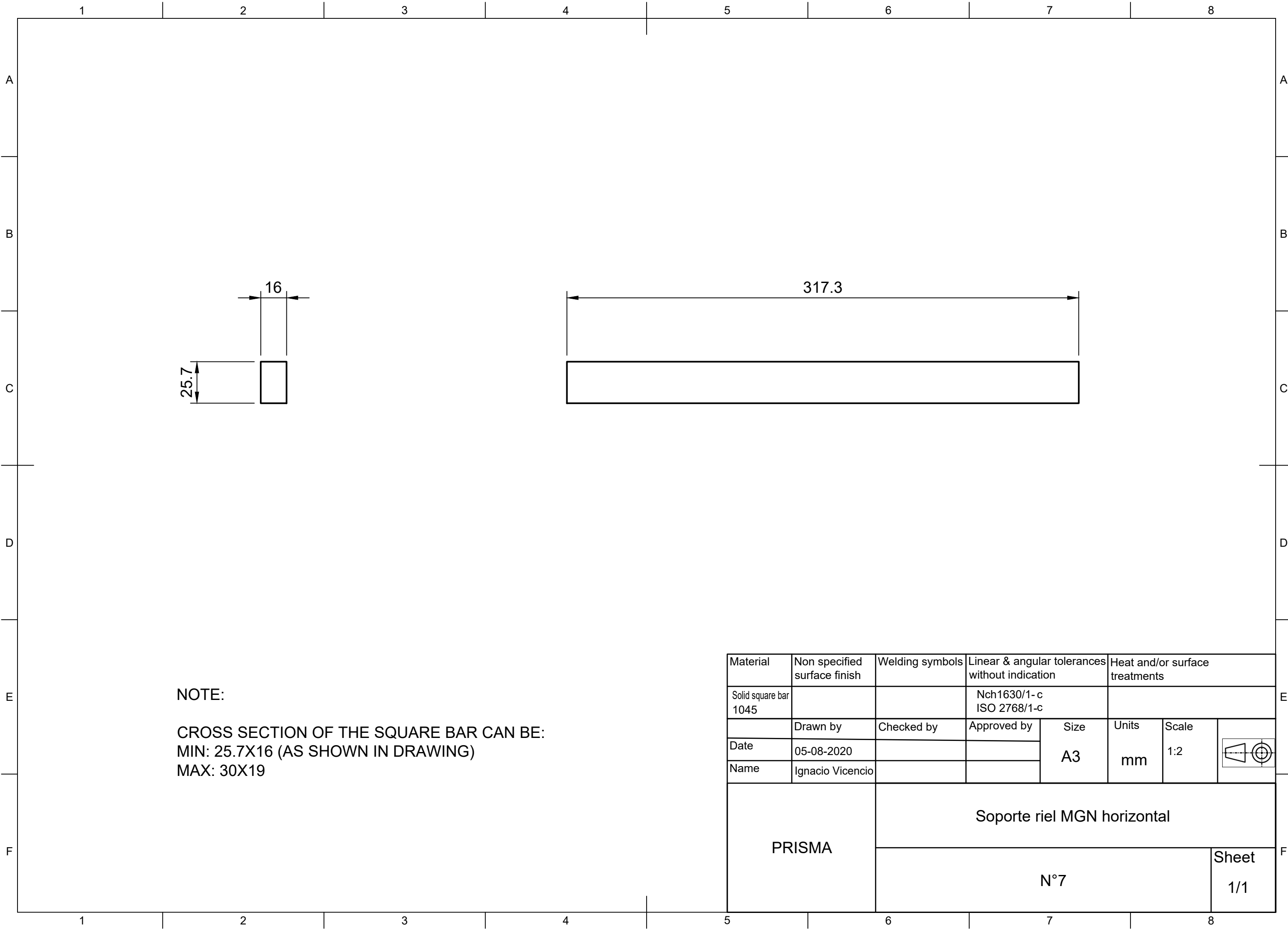
C-C (1:1)



Material	Non specified surface finish	Welding symbols	Linear & angular tolerances without indication		Heat and/or surface treatments		
			Nch1630/1- c ISO 2768/1-c				
	Drawn by	Checked by	Approved by	Size A2	Units mm	Scale 1:1	
Date	05-05-2020						
Name	Ignacio Vicencio						
PRISMA		Mesa M3 Holes					
		N°4					Sheet 2/2

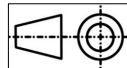


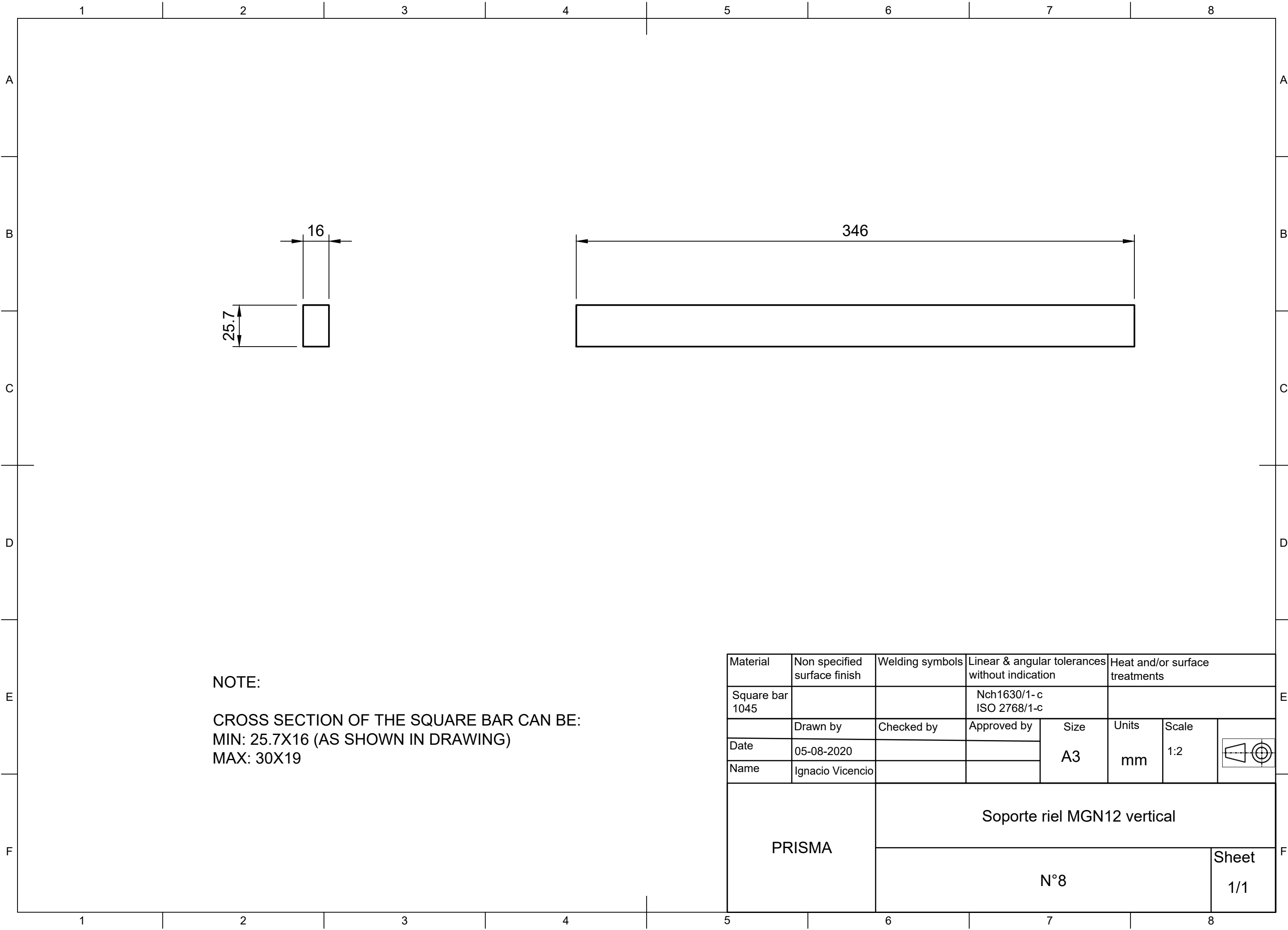




NOTE:

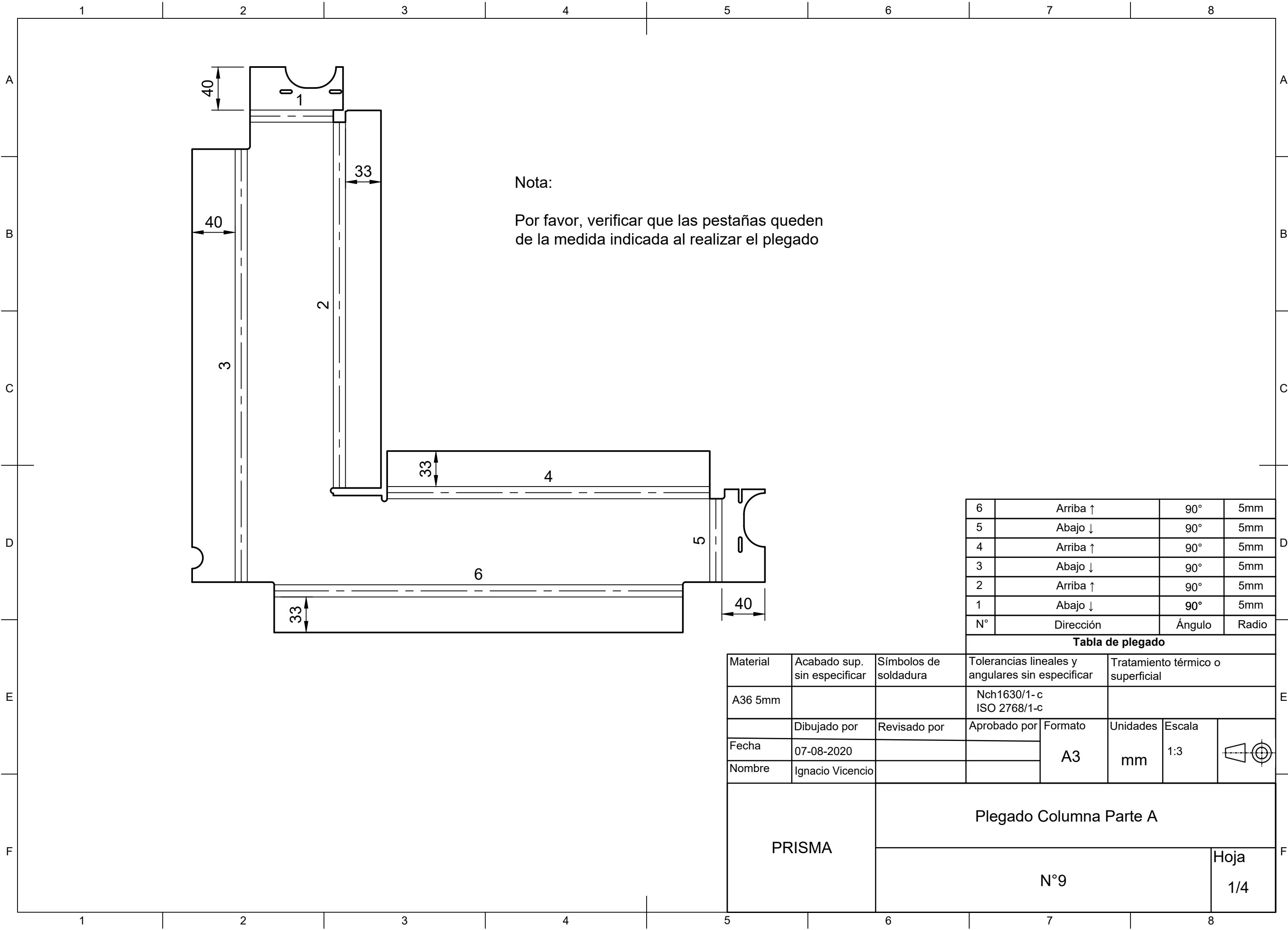
CROSS SECTION OF THE SQUARE BAR CAN BE:
MIN: 25.7X16 (AS SHOWN IN DRAWING)
MAX: 30X19

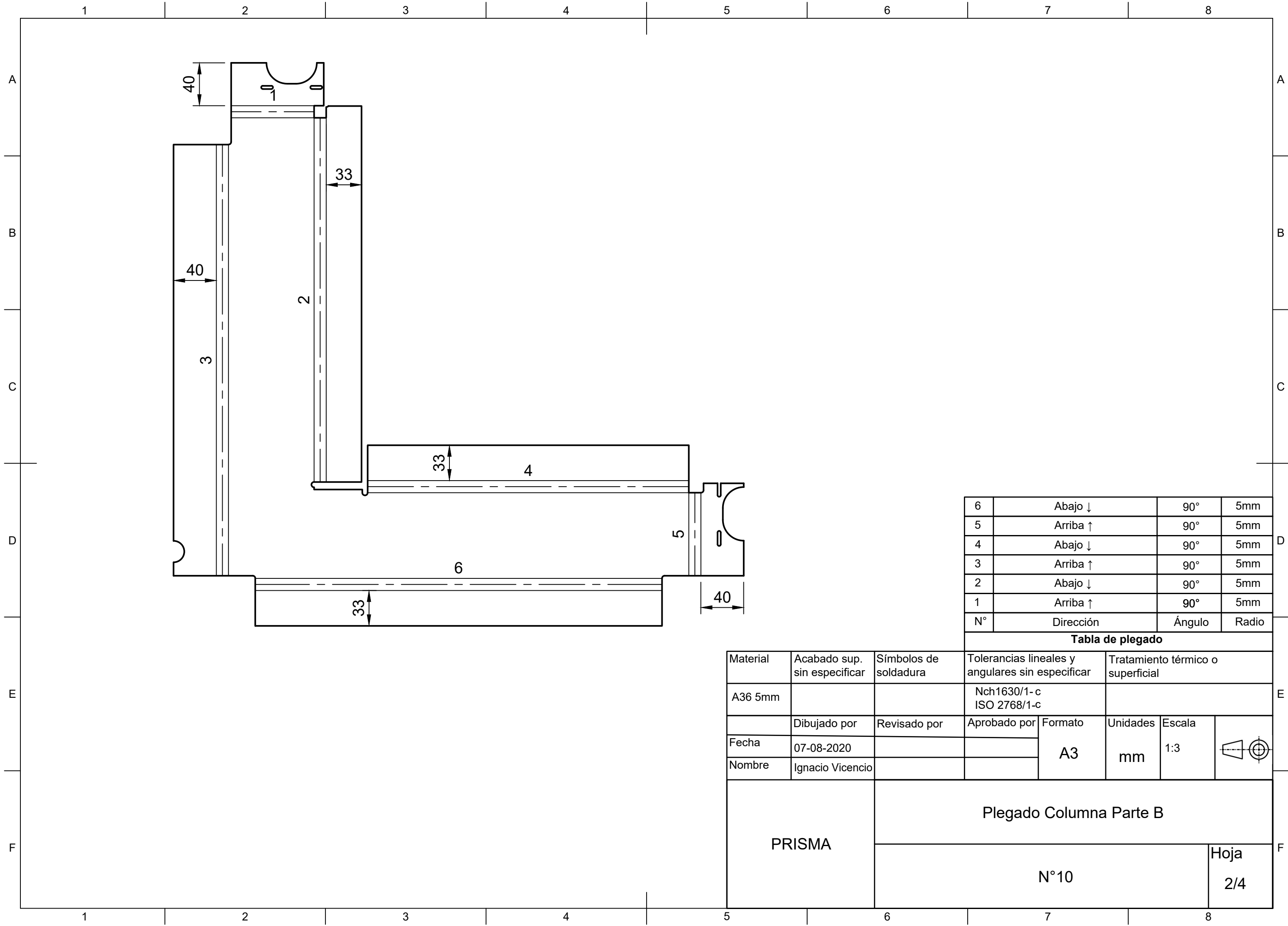
Material	Non specified surface finish	Welding symbols	Linear & angular tolerances without indication		Heat and/or surface treatments		
Solid square bar 1045			Nch1630/1- c ISO 2768/1-c				
	Drawn by	Checked by	Approved by	Size A3	Units	Scale	
Date	05-08-2020				mm	1:2	
Name	Ignacio Vicencio						
PRISMA		Soporte riel MGN horizontal					
		N°7					Sheet 1/1



NOTE:
CROSS SECTION OF THE SQUARE BAR CAN BE:
MIN: 25.7X16 (AS SHOWN IN DRAWING)
MAX: 30X19

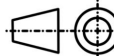
Material	Non specified surface finish	Welding symbols	Linear & angular tolerances without indication		Heat and/or surface treatments		
Square bar 1045			Nch1630/1- c ISO 2768/1-c				
	Drawn by	Checked by	Approved by	Size A3	Units	Scale	
Date	05-08-2020				mm	1:2	
Name	Ignacio Vicencio						
PRISMA		Soporte riel MGN12 vertical					
		N°8					Sheet 1/1

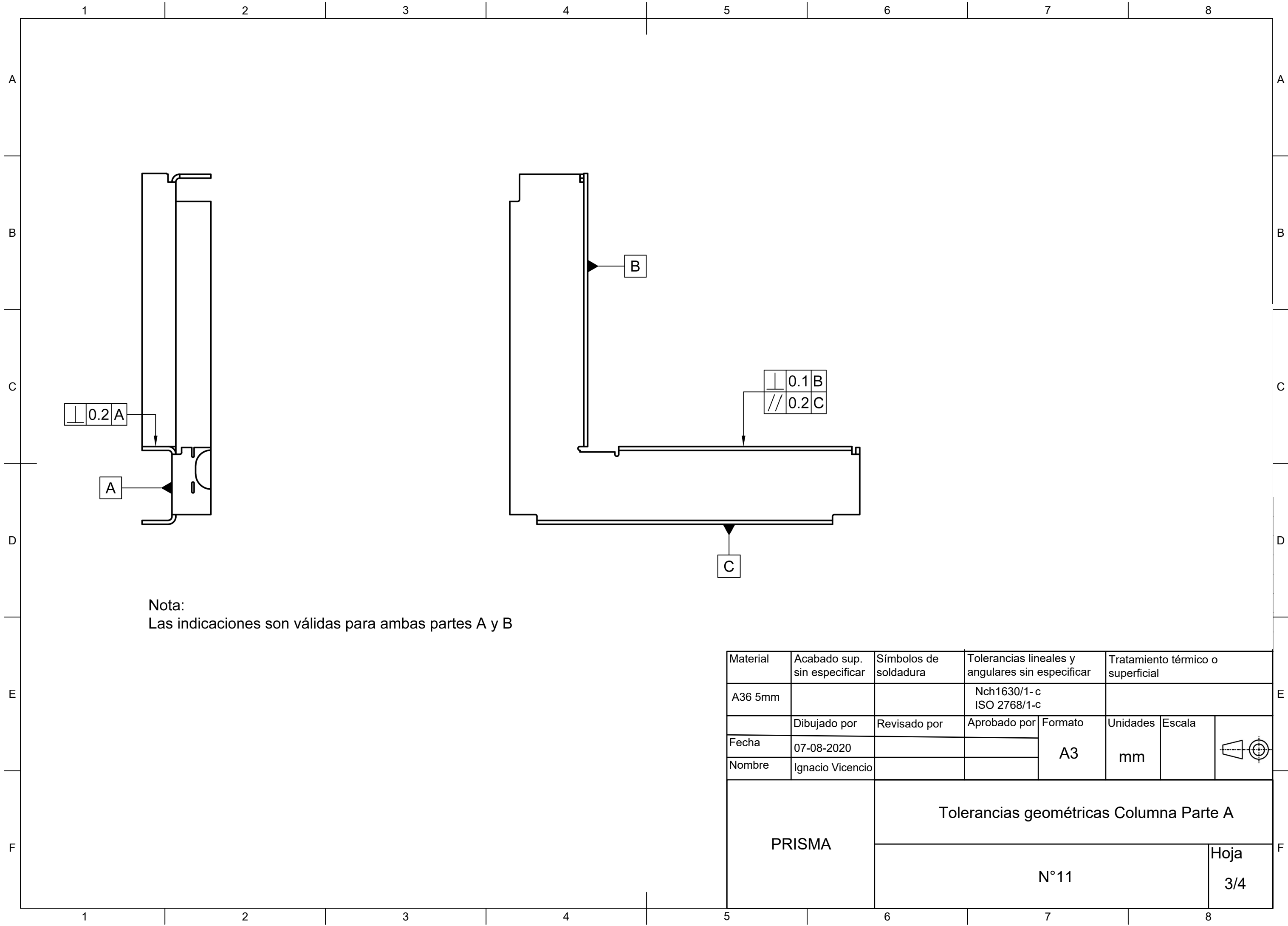


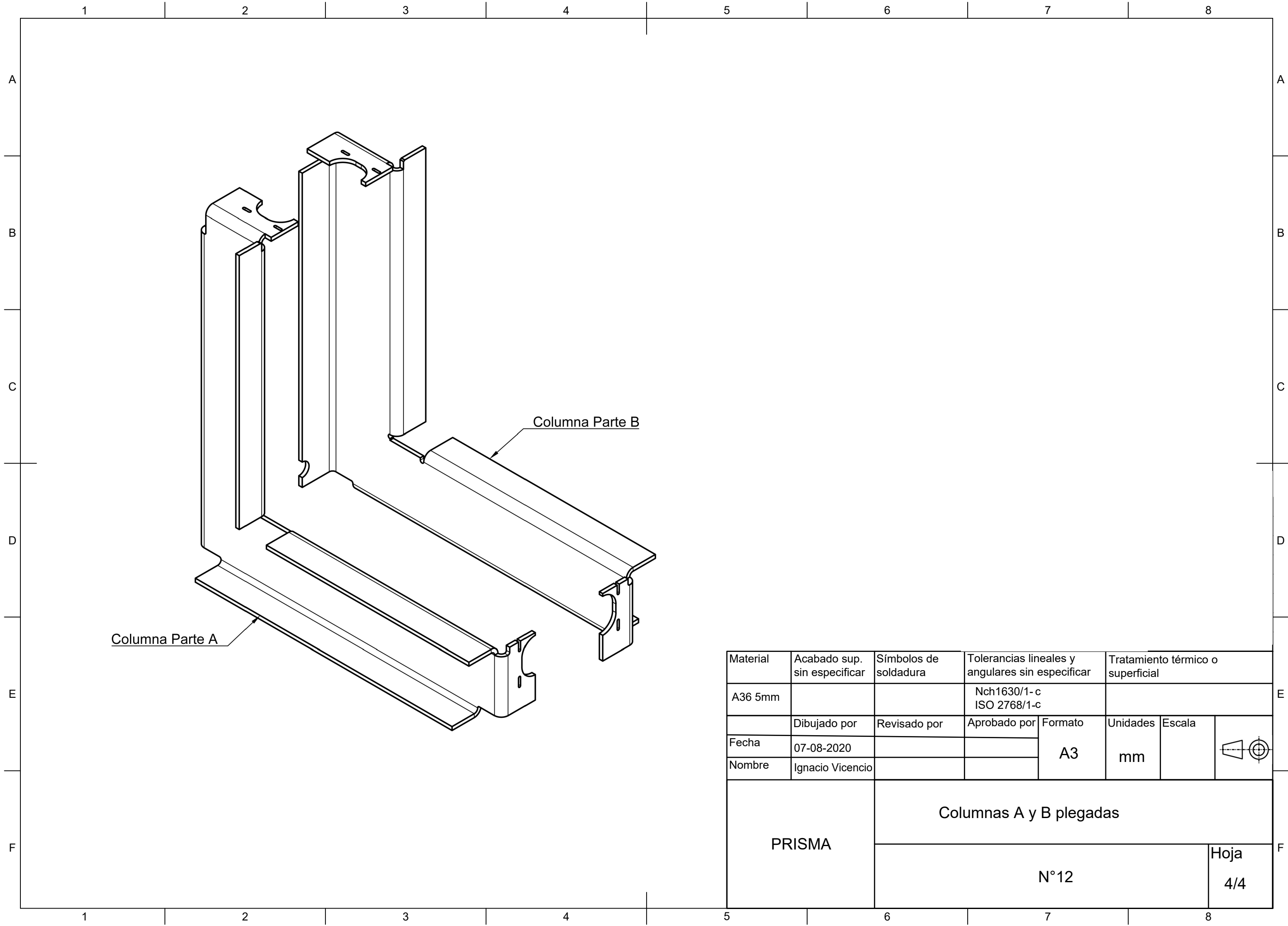


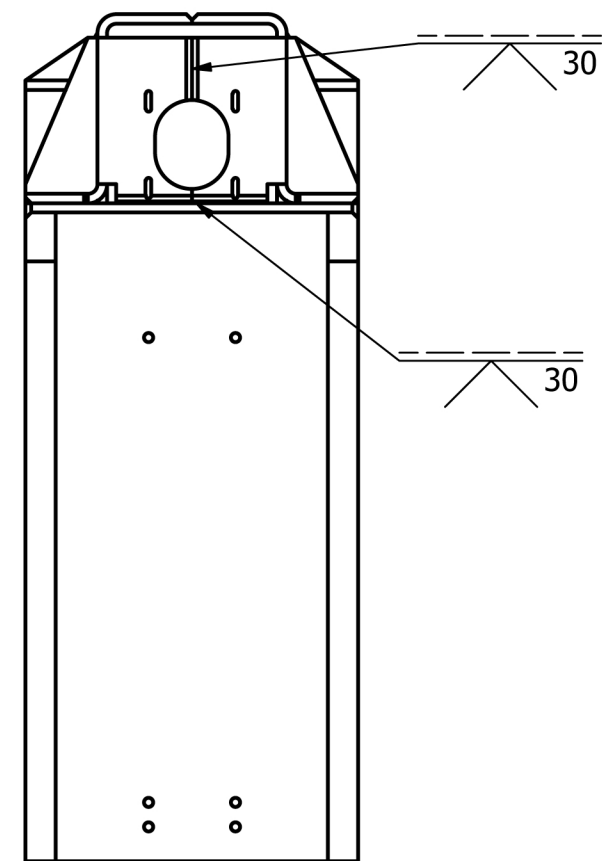
6	Abajo ↓	90°	5mm
5	Arriba ↑	90°	5mm
4	Abajo ↓	90°	5mm
3	Arriba ↑	90°	5mm
2	Abajo ↓	90°	5mm
1	Arriba ↑	90°	5mm
N°	Dirección	Ángulo	Radio

Tabla de plegado

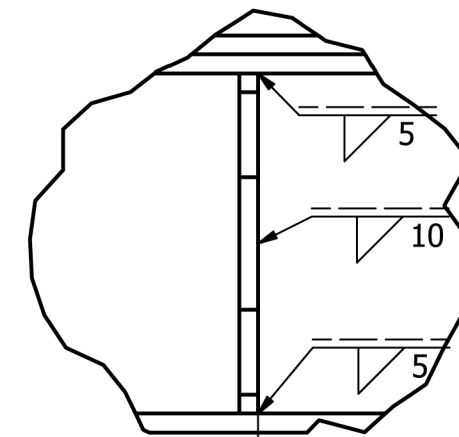
Material	Acabado sup. sin especificar	Símbolos de soldadura	Tolerancias lineales y angulares sin especificar		Tratamiento térmico o superficial		
A36 5mm			Nch1630/1-c ISO 2768/1-c				
	Dibujado por	Revisado por	Aprobado por	Formato A3	Unidades	Escala	
Fecha	07-08-2020				mm	1:3	
Nombre	Ignacio Vicencio						
PRISMA		Plegado Columna Parte B					
		N°10					Hoja 2/4



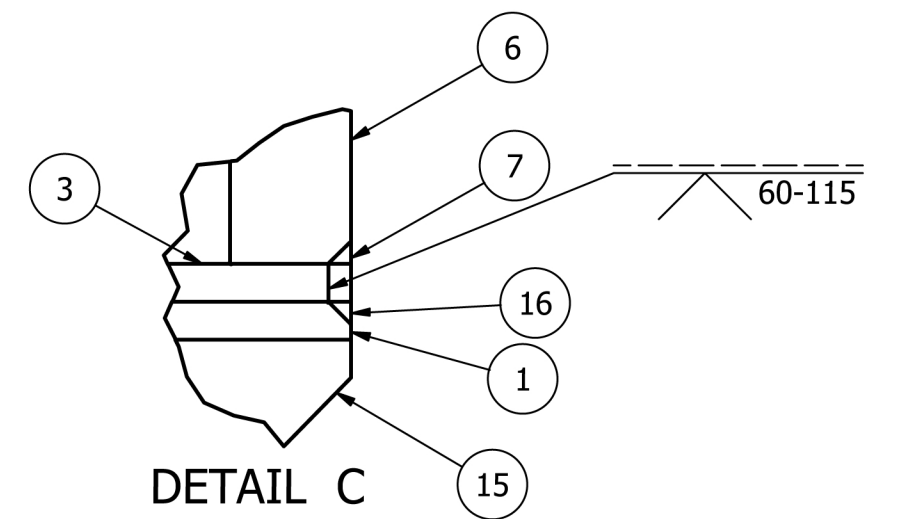




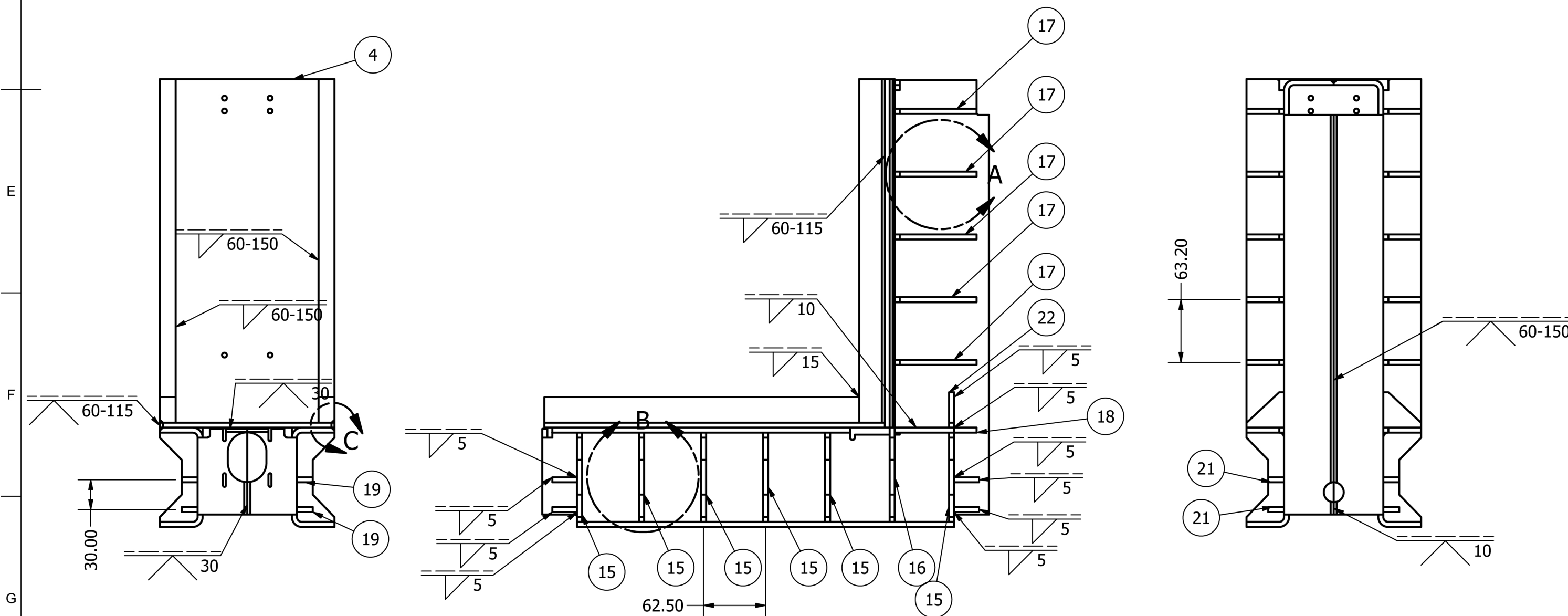
DETALLE A: NERVIOS HORIZONTALES
ESCALA 1/2



DETALLE B: NERVIOS VERTICALES
ESCALA 1/2



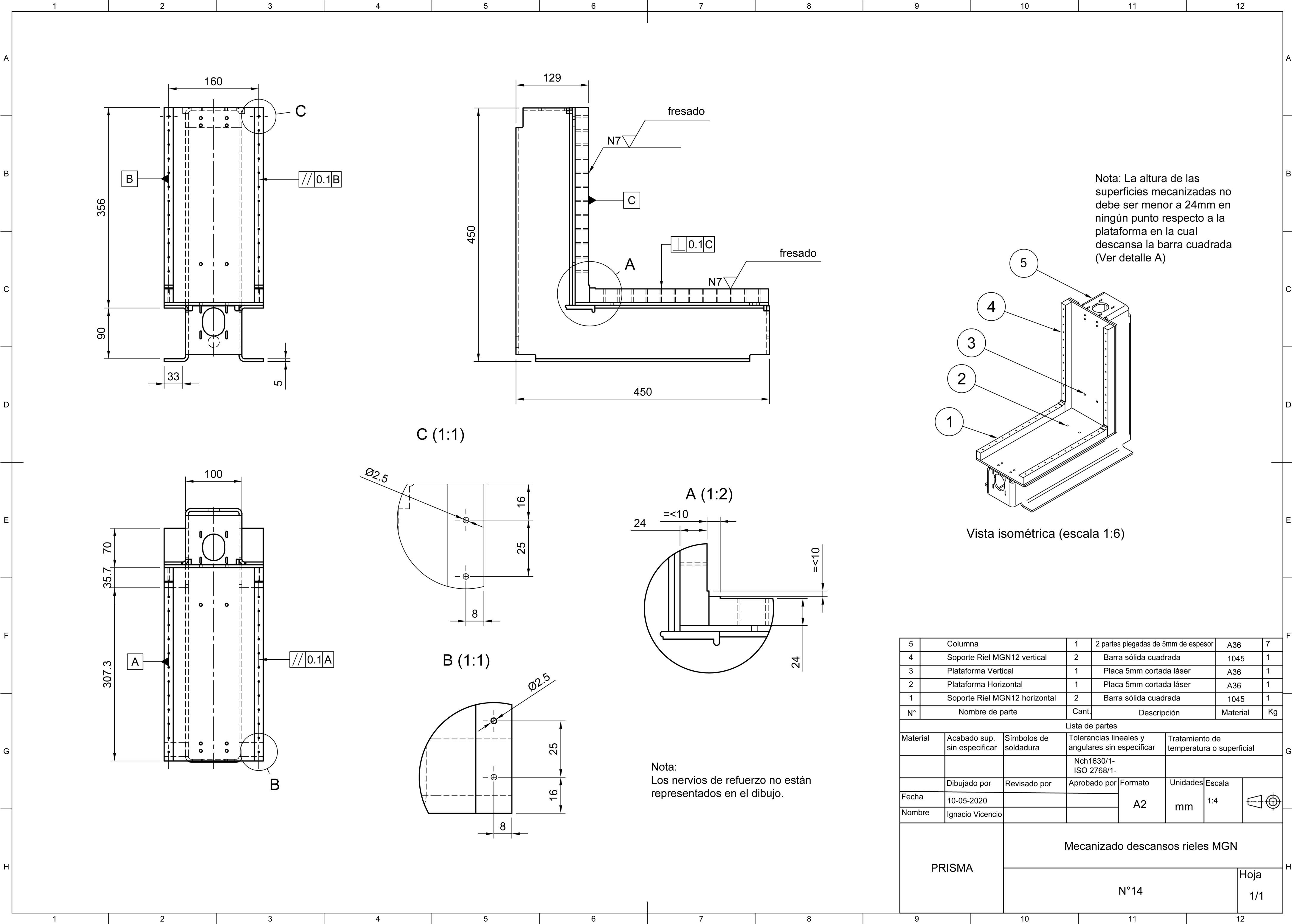
DETAIL C
SCALE 1"

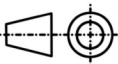


0.11

22	Nervio F	2		A36 5mm			
21	Nervio E	4		A36 5mm			
20	Nervio E	4		A36 5mm			
19	Nervio E	4		A36 5mm			
18	Nervio D	2		A36 5mm			
17	Nervio C	10		A36 5mm			
16	Nervio B	2		A36 5mm			
15	Nervio A	12		A36 5mm			
13	Nervio F	2		A36 5mm			
12	Nervio E	4		A36 5mm			
11	Nervio C	10		A36 5mm			
10	Nervio B	2		A36 5mm			
9	Nervio A	12		A36 5mm			
7	Soporte Riel MGN vertical	2		A36			
6	Soporte Riel MGN horizontal	2		A36			
4	Plataforma vertical	1		A36 5mm			
3	Plataforma horizontal	1		A36 5mm			
1	Columna Parte B	1		A36 5mm			
N°	Nombre de parte	Cant.	Comentario	Material	Kg		
Lista de materiales							
Material	Acabado sup. sin especificar	Símbolos de soldadura	Tolerancias lineales y angulares sin especificar		Proceso		
		Nch 1334 ISO 2553	Nch1630/1-c ISO 2768/1-c		MIG o TIG		
	Dibujado por	Revisado por	Aprobado por	Formato A2	Unidades	Escala	
Fecha	05-08-2020				mm	1:4	
Nombre	Ignacio Vicencio						
PRISMA		Montaje estructura					
		N°13				Hoja 1/1	

H



5	Columna	1	2 partes plegadas de 5mm de espesor		A36	7	
4	Soporte Riel MGN12 vertical	2	Barra sólida cuadrada		1045	1	
3	Plataforma Vertical	1	Placa 5mm cortada láser		A36	1	
2	Plataforma Horizontal	1	Placa 5mm cortada láser		A36	1	
1	Soporte Riel MGN12 horizontal	2	Barra sólida cuadrada		1045	1	
N°	Nombre de parte	Cant.	Descripción		Material	Kg	
Lista de partes							
Material	Acabado sup. sin especificar	Símbolos de soldadura	Tolerancias lineales y angulares sin especificar		Tratamiento de temperatura o superficial		
			Nch1630/1-ISO 2768/1-				
	Dibujado por	Revisado por	Aprobado por	Formato A2	Unidades	Escala	
Fecha	10-05-2020				mm	1:4	
Nombre	Ignacio Vicencio						
PRISMA		Mecanizado descansos rieles MGN					
		N°14				Hoja 1/1	