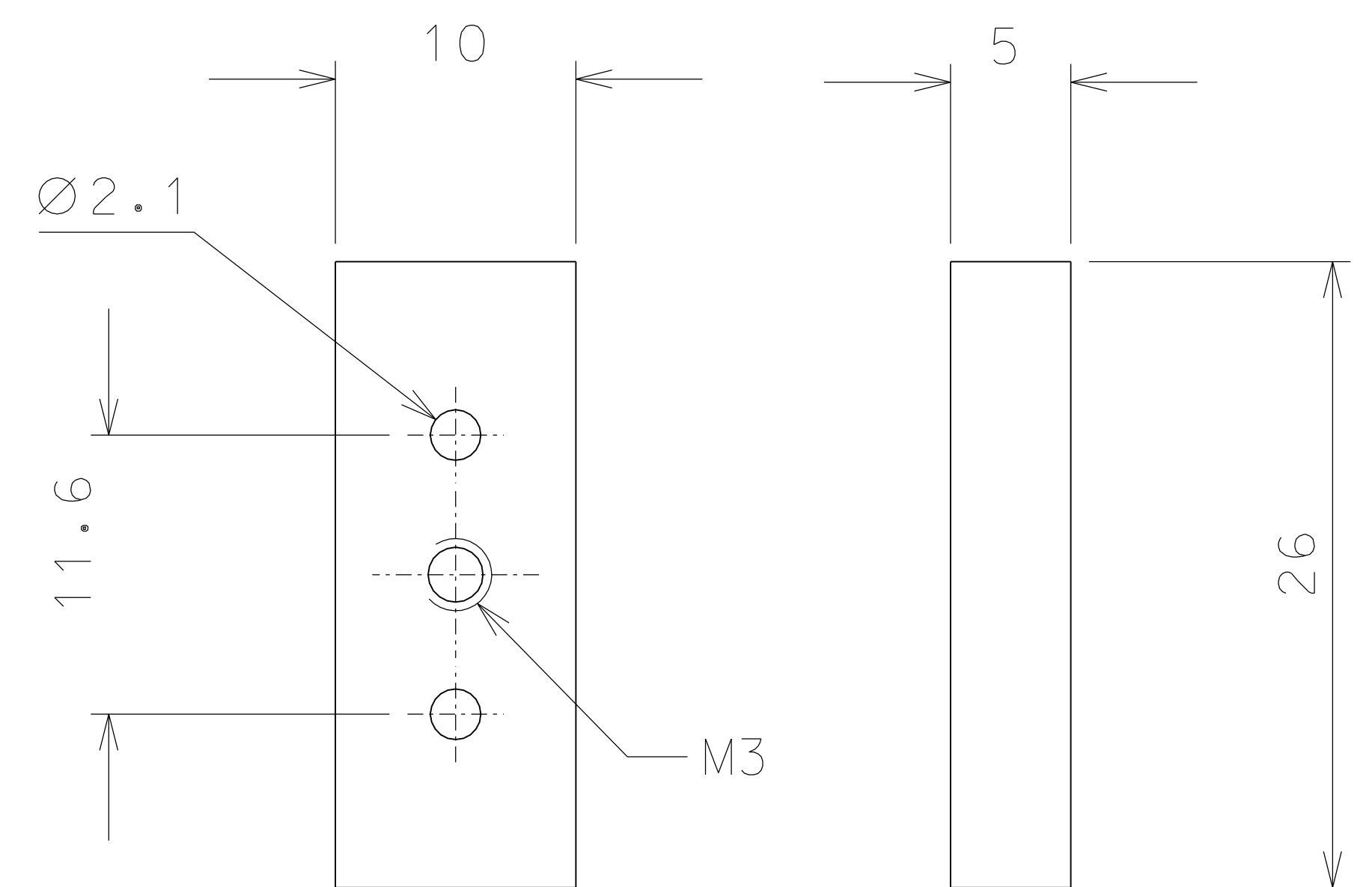


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Type	Material	Thickness	Width	Tensile Strength
1	Alluminium 6009-T6	0.050	4	320 Mpa
2	Cu-Be C17000 TM 08	0.032	2	950 Mpa
3	Alluminium 7001-T6	0.035	3	625 MPa
4	Tungsten Carbide	0.030	4	344 MPa
5	Tungsten	0.032	2.5	750 MPa
6	Niobium	0.075	4	207 MPa
7	Maraging	0.030	1	1800 MPa
8	Titanium	0.070	4	220 MPa
9	Alluminium EN 6082	0.200	4	for mechanical tuning only
10		0.000	0	

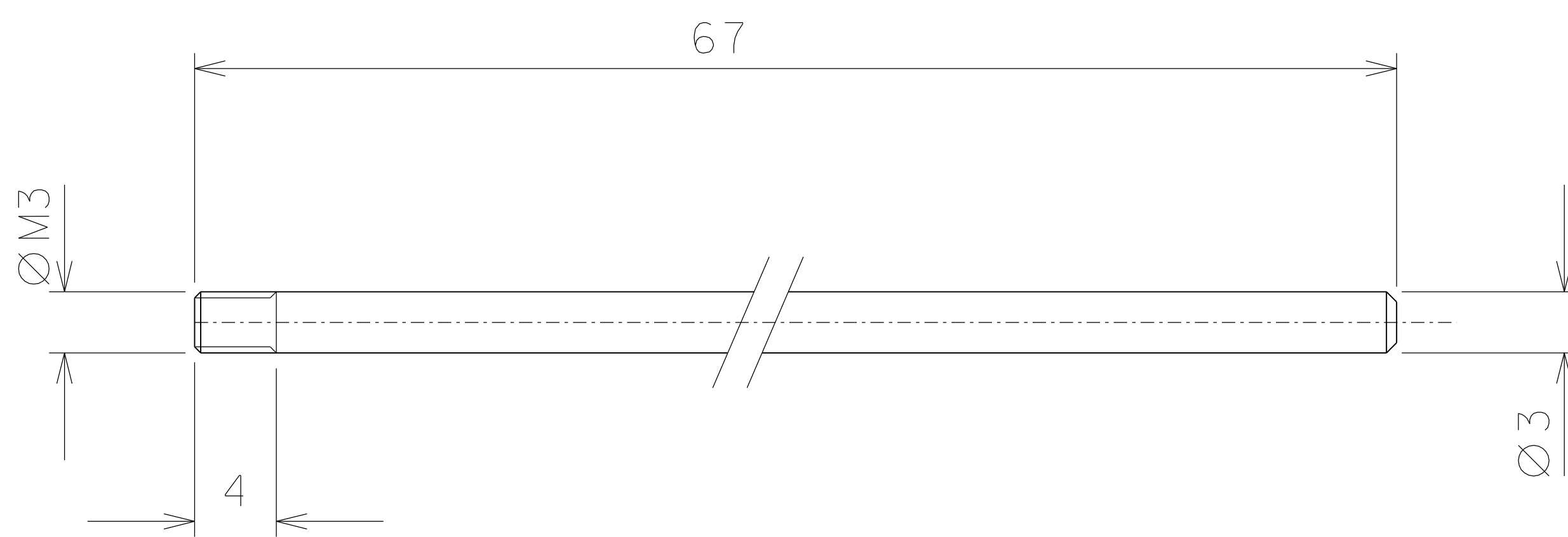
The flexure must be electropolished after Electric Discharge Machining to eliminate all EDM rugosity and discharge debris. The thickness is intended after electropolishing.

Note: Load 3 Kg
 loading to 25% of Tensile Strength
 $3 / (0.25 \times 2 \times \text{width} \times \text{TS}) = \text{thickness}$

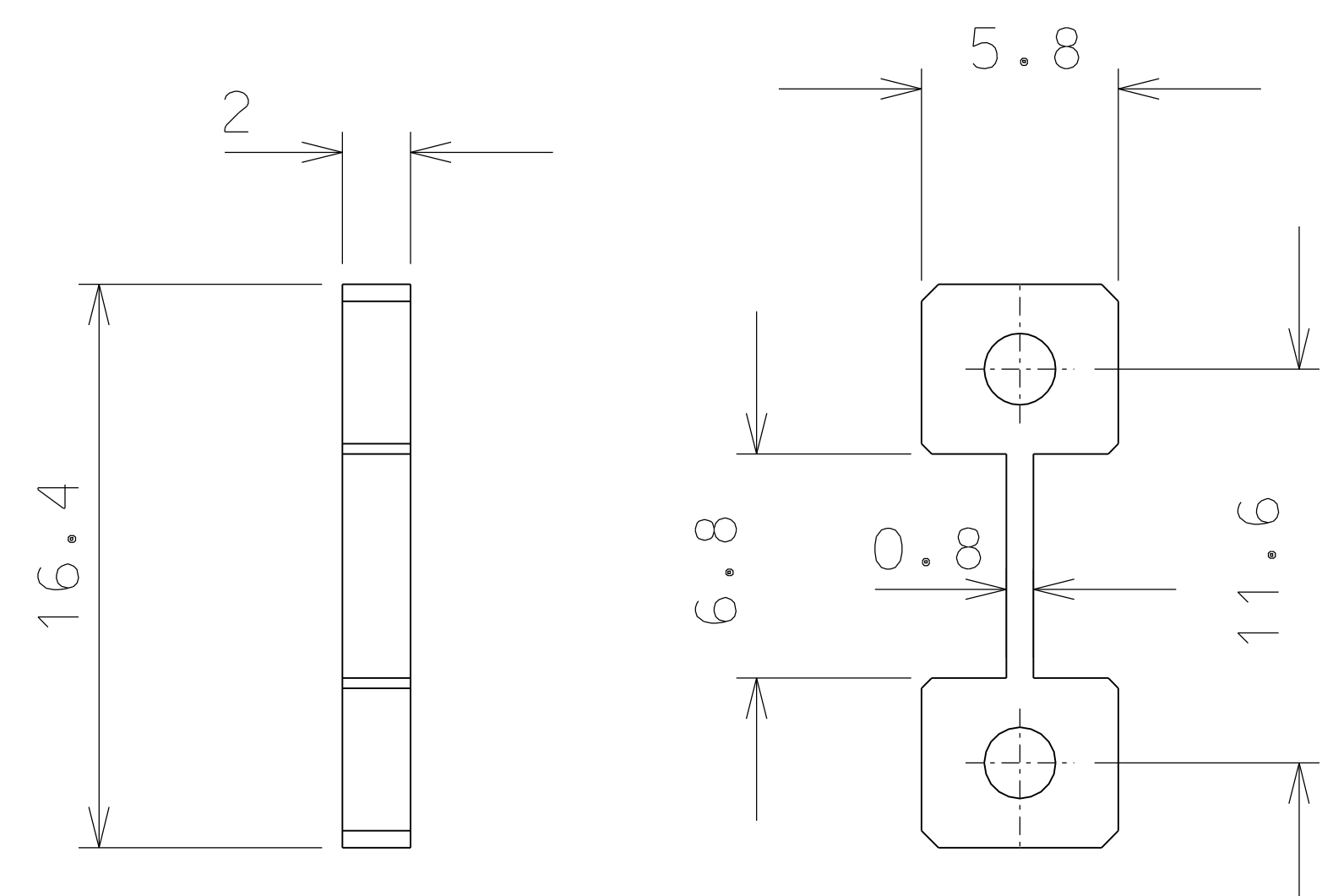


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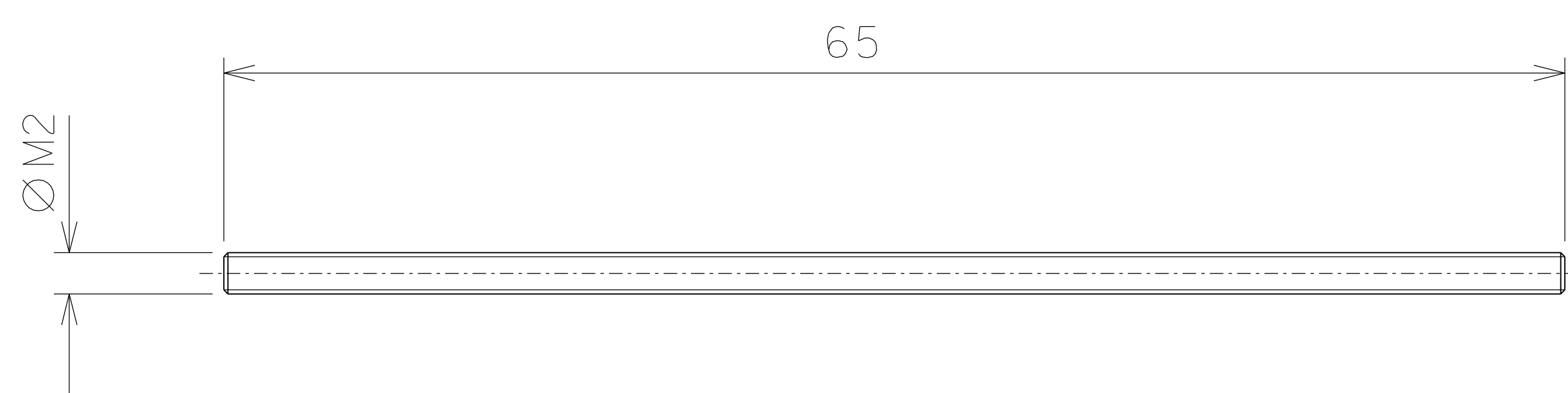
43



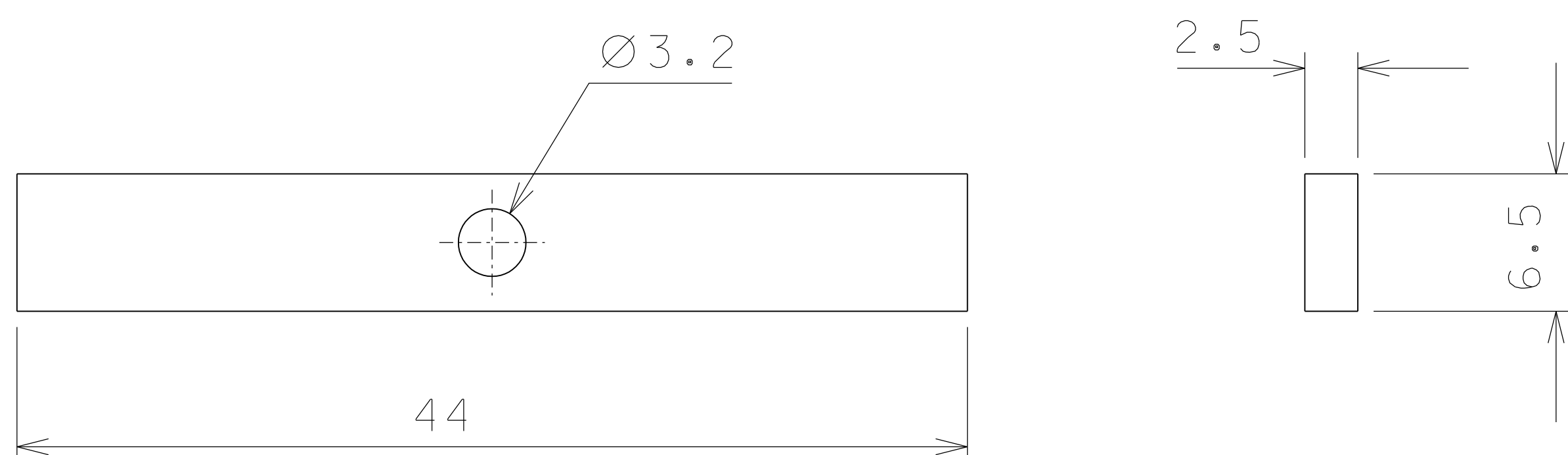
44



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ref.	note	date	signature
	added dimension part 31	14-10-08	
modifications			
43	1	AISI 304	2/1
42	1	AISI 304	2/1
31			2.5/1
46	2	AISI 304	2/1
45	2	AISI 304	2/1
44	1	AISI 304	2.5/1
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear TOLL.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular TOLL.	± 1	± 30'	± 20'	± 10' referred to the shortest side			
designed for				R.De Salvo			
draw. by				G.Gennaro-PROMECC			
date				9-04-08			
title				LIGO PROJECT			
TILTMETER				scale 1/1			
DETAILS				LIGO-D081014-01-D			
detail from				1002		A 2	