

PMI characteristics report

DEMO-0001-A DEMO BRACKET

PMI HEALTH: AMBER · 3D PDF: PMI read from the drawn annotations

Part	DEMO-0001-A
Part name	DEMO BRACKET
Drawing	DEMO-OO001-A
Source file	DEMO-0001-A (synthetic part) (GALGA PMI demo · no customer data)
SHA-256 fingerprint	00000000000000000000000000000000000000000000000000000 00000000000000000000000000000000
Extraction	GALGA PMI v0.24.3 · 2026-10-27 22:52:28 · 28.1 s
Volume	4.07 cm ³
Envelope (mm)	70 × 45 × 4
Report date	27/10/2026, 22:52:29
Status	Pending validation

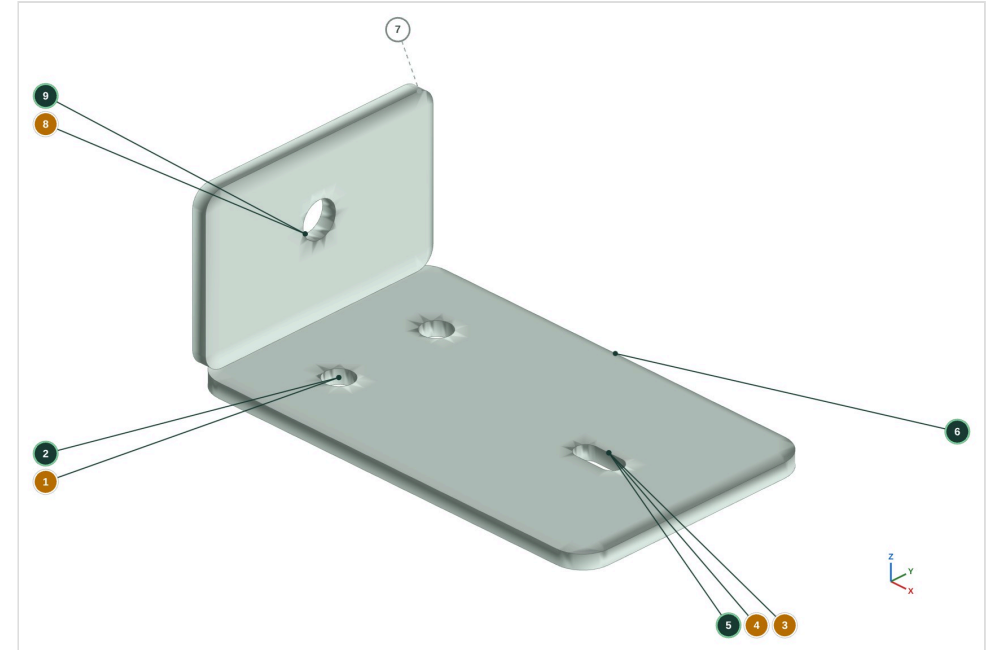
14 characteristics

0
Conforming

0
Non-
conforming

11
Not
measured

4
to review



CONFIDENTIAL — contains customer-owned technical data. Internal use.



Traceability code

GALGA|DEMO-0001-A|DEMO-00001-A||0000000000000000|v0.24.3|2026-10-27T22:52:28||2026-10-27T21:52

Validated by:
Signature:

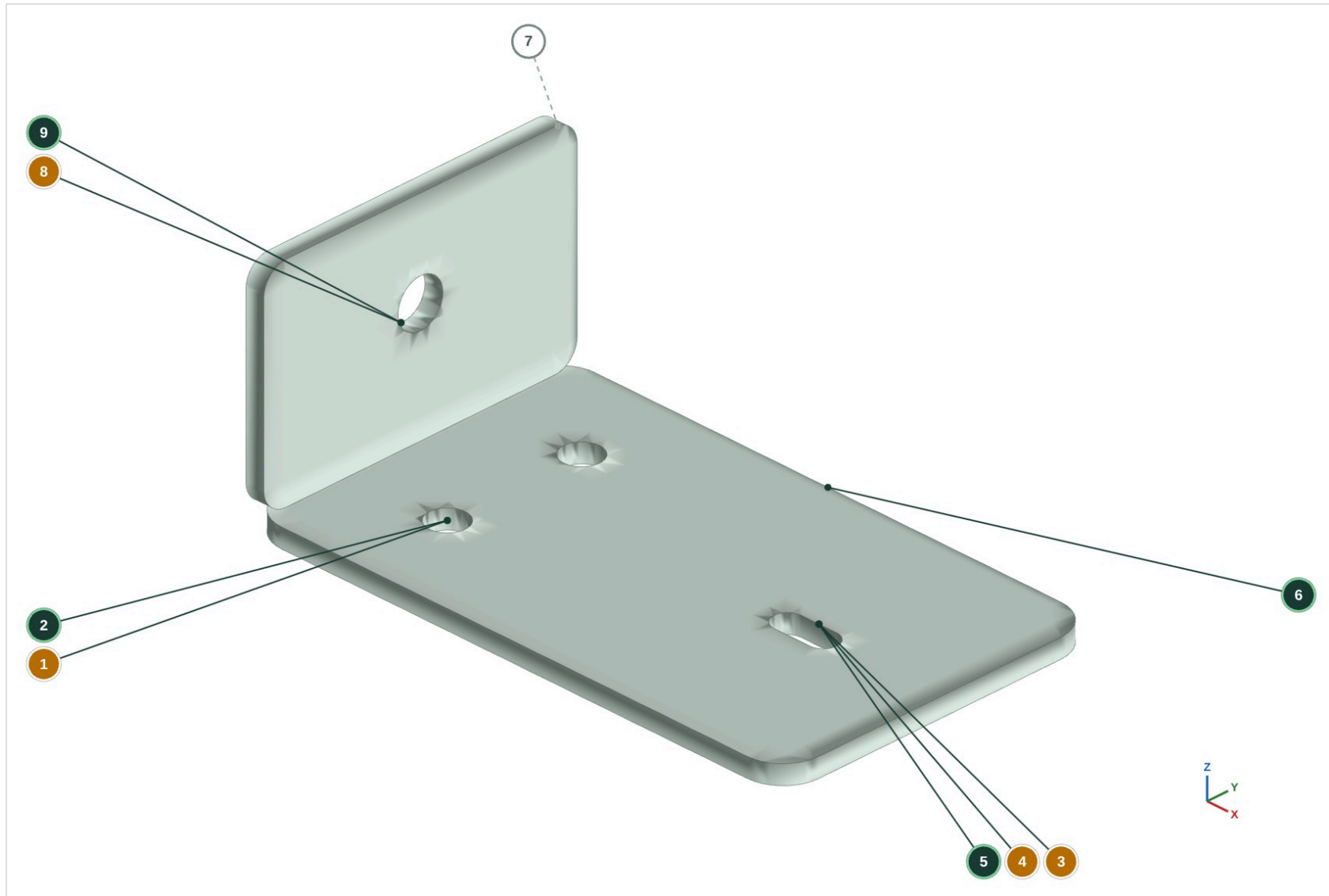
Approved by:
Signature:

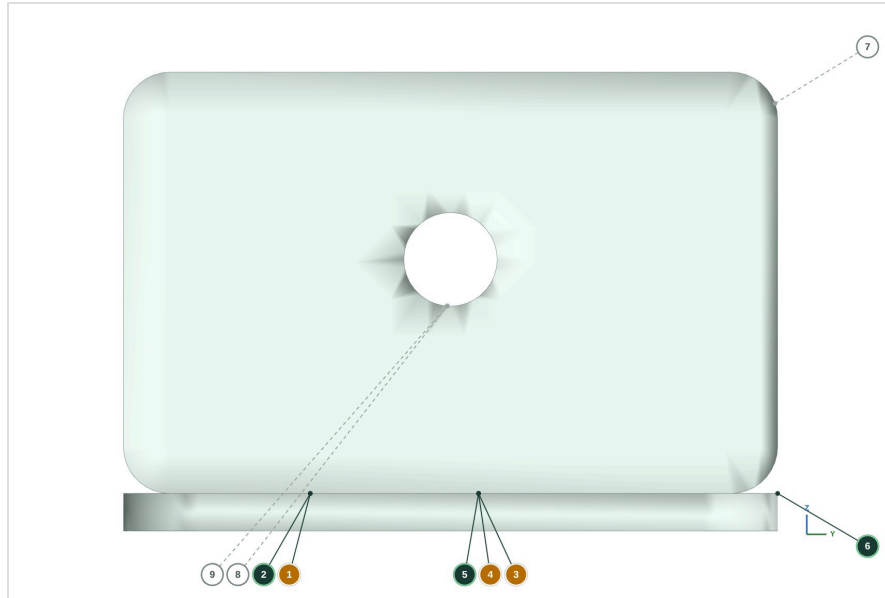
How to read this report

1. Cover: part, material, weight and status. 2. Views of the part. 3. Characteristics list. 4. Location of each characteristic on the part. 5. Datums and notes.

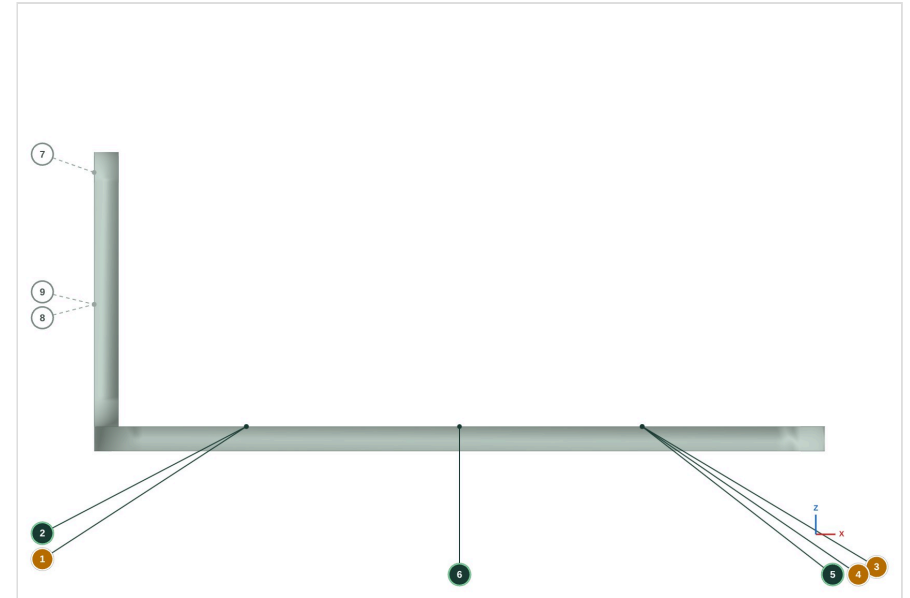
No. (balloon)	The number of each characteristic. It is the same in the PDF, the 3D viewer, the Excel file and the QIF file, and it is kept when a new model level arrives: new ones take the next free number and removed numbers are never reused.
Type	Dimensional = a dimension with a tolerance. GD&T = a geometric tolerance (position, profile, flatness...). Note requirement = a requirement written in the general notes.
Specification · LSL · USL	What the customer requires and its lower (LSL) and upper (USL) limits. A measurement inside the limits conforms.
Ⓜ (maximum material)	The tolerance grows as the hole or pin departs from its maximum-material size (bonus). This is the usual condition for checking with fixed gauge pins.
Datums A B C	The reference frame everything is measured from: where the part rests and is located. Coordinates are in mm, in the CAD system.
Source	Model = read from the PMI of the customer 3D model, not retyped. Note = taken from the text of the general notes.
Review	The system found something inconsistent (for example, the dimension text does not match the model). Confirm it with the customer before using that characteristic.
Measured · Result	Columns for metrology. In the Excel file the OK / NOK result is calculated as soon as the measurement is typed in.

General views · Iso

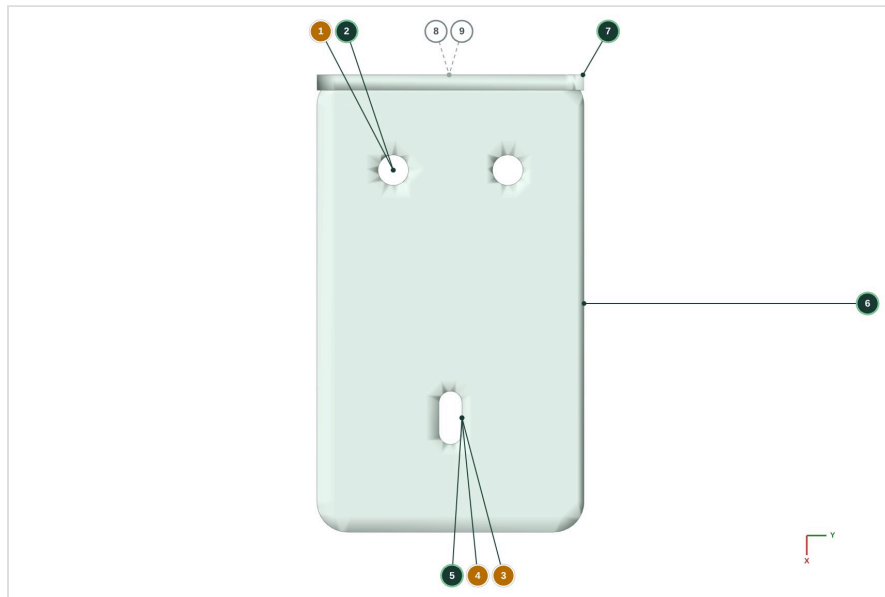




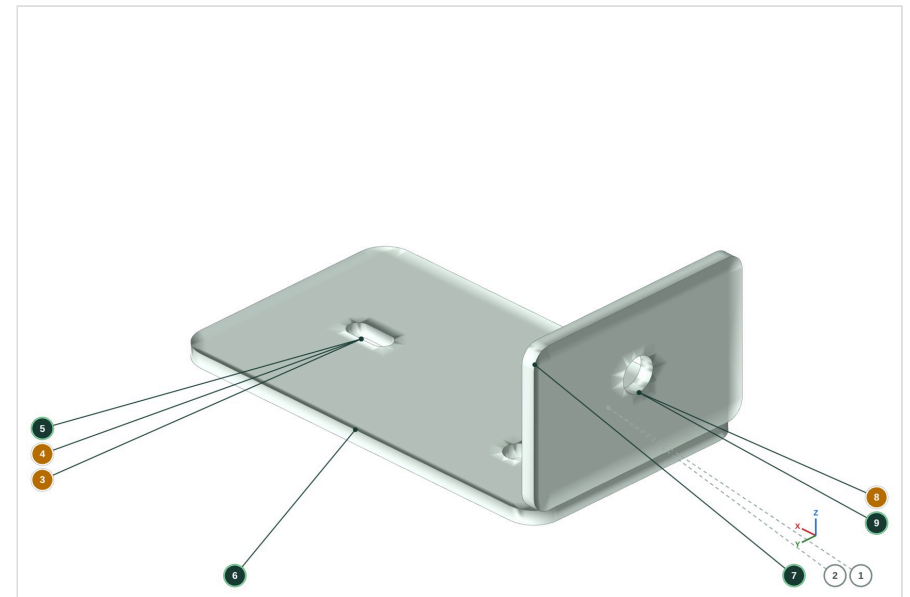
Front (X)



Side (Y)

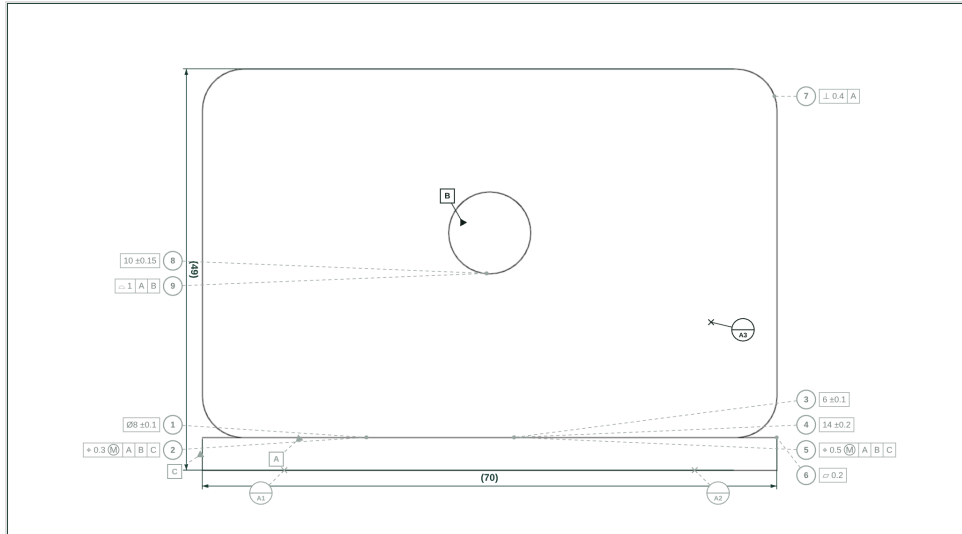


Top (Z)

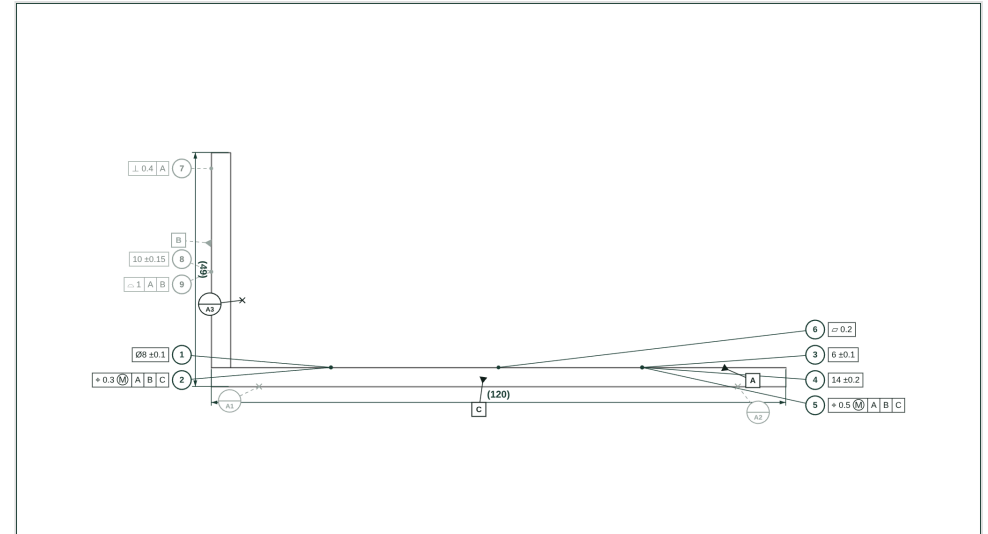


Iso 2

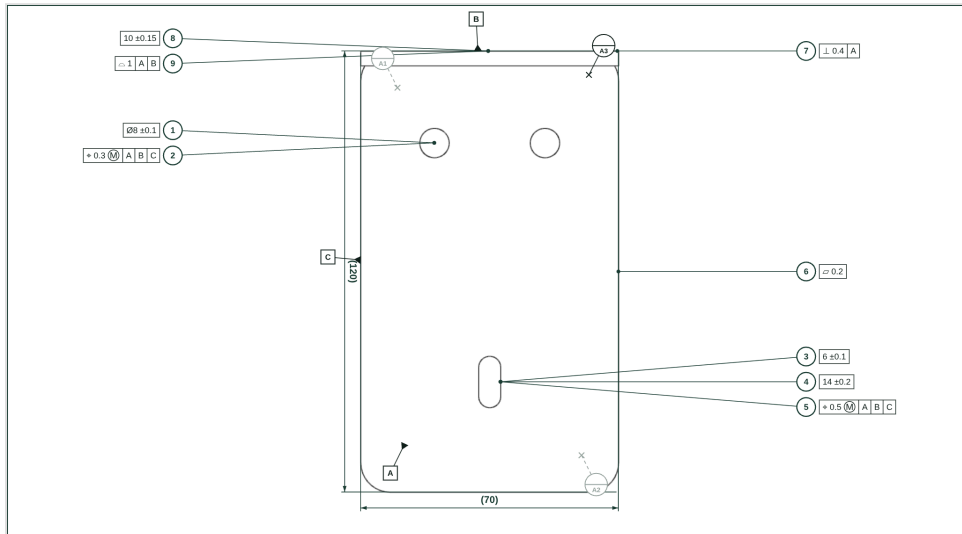
Drawing views



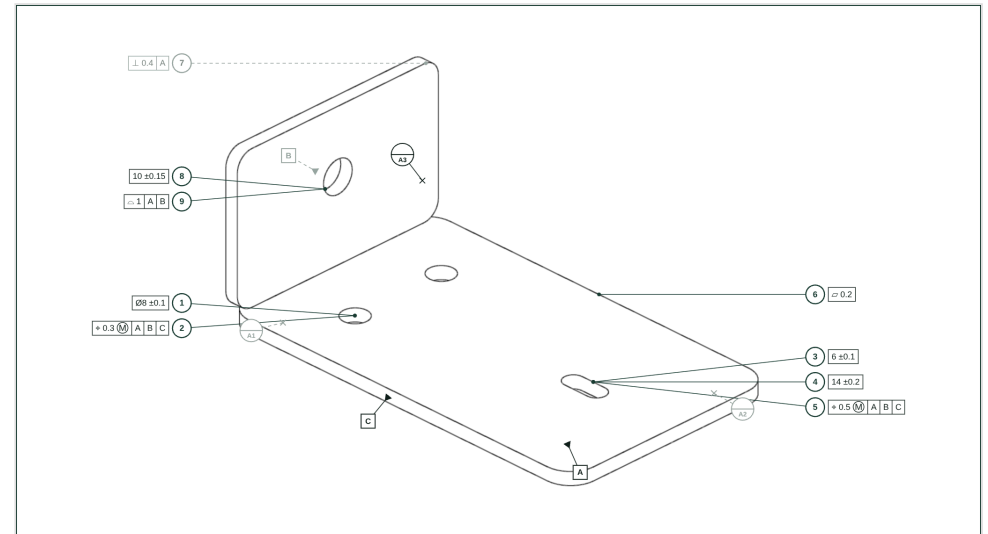
Front (X)



Side (Y)



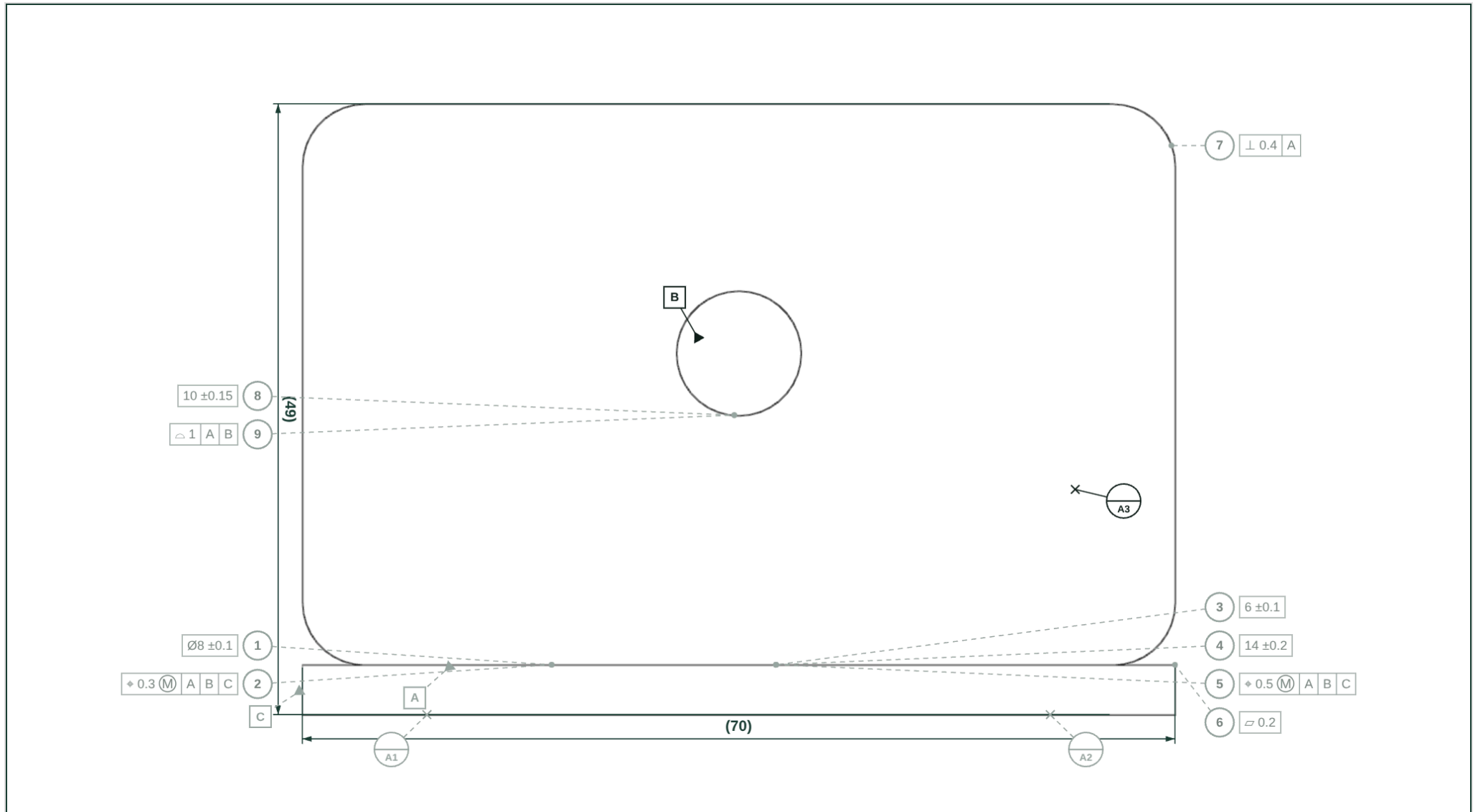
Top (Z)



Iso

Orthographic line views generated from the 3D model. Dimensions in brackets = overall reference dimensions; the others are dimensions measured in the viewer. ▲ = datum feature, ⊖ = datum target. Grey = hidden behind the part. Annotations whose leader does not end on the part are in the characteristics list. Values in mm.

Drawing views · Front



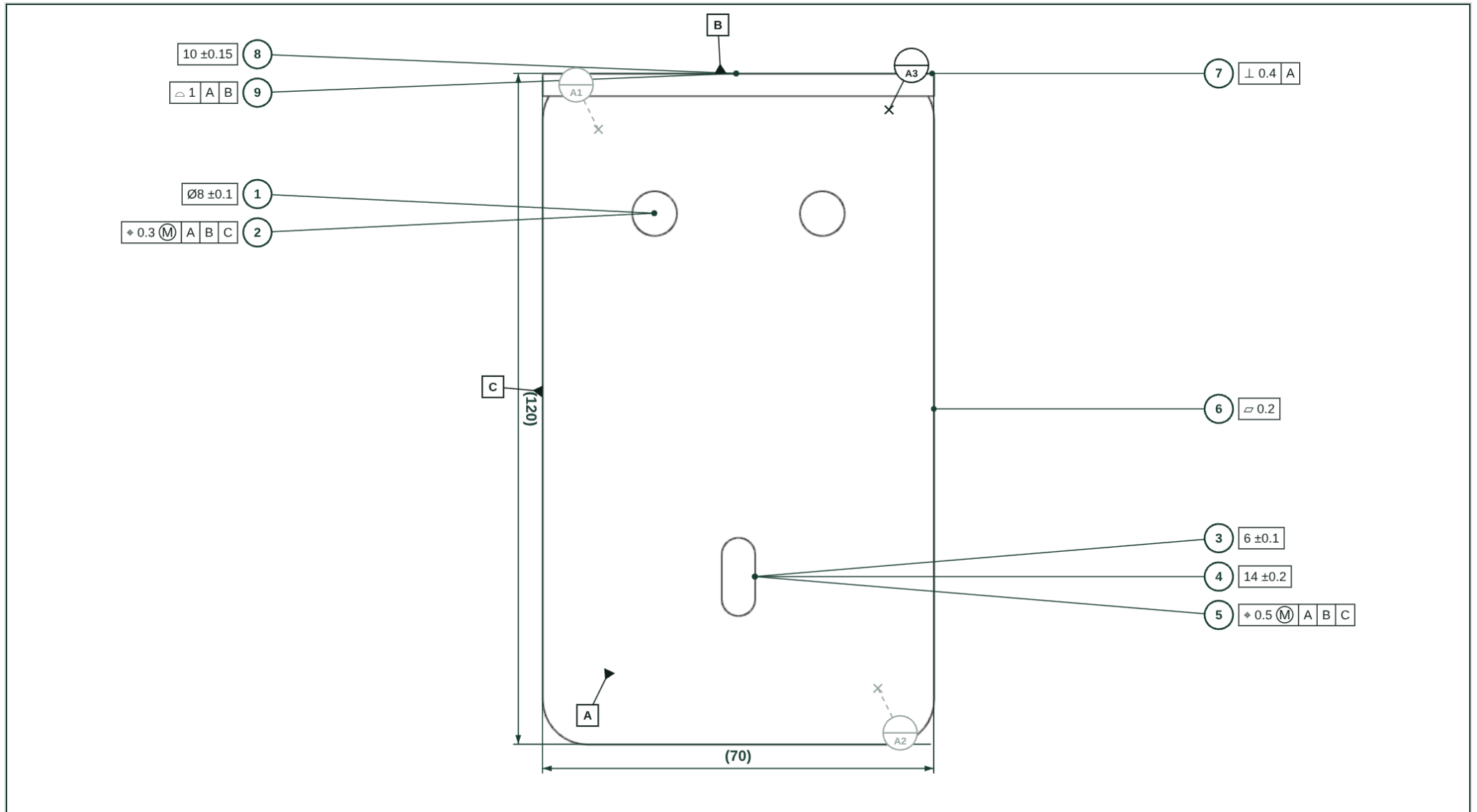
The drawing shows a mechanical part with the following features and points:

- Point 1:** Located on the top horizontal surface of the main body, with a diameter tolerance of $\varnothing 8 \pm 0.1$.
- Point 2:** Located on the bottom horizontal surface of the main body, with a circular runout tolerance of $\phi 0.3$ (M) and a surface texture symbol.
- Point 3:** Located on the top horizontal surface of the flange, with a parallelism tolerance of $\parallel 0.2$.
- Point 4:** Located on the bottom horizontal surface of the flange, with a parallelism tolerance of $\parallel 0.2$.
- Point 5:** Located on the bottom horizontal surface of the flange, with a circular runout tolerance of $\phi 0.5$ (M) and a surface texture symbol.
- Point 6:** Located on the top horizontal surface of the flange, with a parallelism tolerance of $\parallel 0.2$.
- Point 7:** Located on the top horizontal surface of the flange, with a perpendicularity tolerance of $\perp 0.4$ (A).
- Point 8:** Located on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Point 9:** Located on the top horizontal surface of the flange, with a circular runout tolerance of $\Delta 1$ (A, B).
- Point 10:** Located on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Point 11:** Located on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Point 12:** Located on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .

Other features include:

- Feature A1:** A circular feature on the bottom horizontal surface of the main body, with a circular runout tolerance of $\phi 0.3$ (M) and a surface texture symbol.
- Feature A2:** A circular feature on the bottom horizontal surface of the flange, with a circular runout tolerance of $\phi 0.5$ (M) and a surface texture symbol.
- Feature A3:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A4:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A5:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A6:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A7:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A8:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A9:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A10:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A11:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .
- Feature A12:** A circular feature on the top horizontal surface of the flange, with a circular runout tolerance of 10 ± 0.15 .

Drawing views · Top

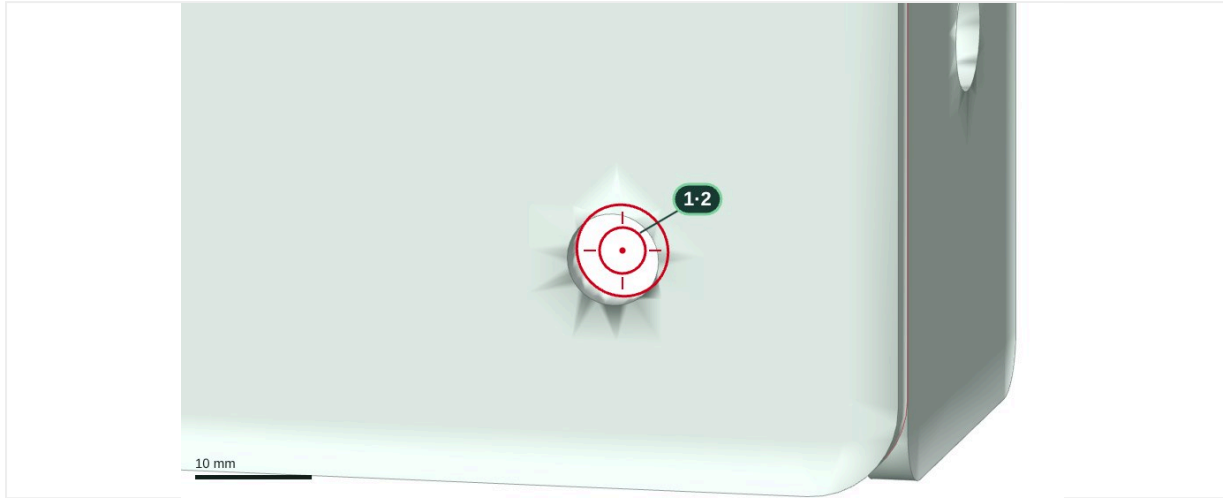


Characteristics list

No.	Type	Characteristic	Specification	LSL	USL	Method	Measured	Result	Source	Remarks
1	Dimensional	Diameter Ø (2×) 25 ; 20 ; 4	Ø8 ±0.1	7.9	8.1				Geometrical Tolerance.1	review: dimension interpreted: «2X Ø8+0,1» → «2X Ø8±0,1»
2	GD&T	⊕ Position (2×) 25 ; 20 ; 4	⊕ 0.3 (M) A B C		≤ 0.3				Geometrical Tolerance.1	
3	Dimensional	Width 90 ; 38 ; 4 (≈)	6 ±0.1	5.9	6.1				Geometrical Tolerance.2	review: dimension interpreted: «6+0,1 x 14+0,2» → «6±0,1 x 14±0,2»
4	Dimensional	Length 90 ; 38 ; 4 (≈)	14 ±0.2	13.8	14.2				Geometrical Tolerance.2	review: dimension interpreted: «6+0,1 x 14+0,2» → «6±0,1 x 14±0,2»
5	GD&T	⊕ Position 90 ; 38 ; 4 (≈)	⊕ 0.5 (M) A B C		≤ 0.5				Geometrical Tolerance.2	
6	GD&T	▱ Flatness 60 ; 70 ; 4	▱ 0.2		≤ 0.2				Geometrical Tolerance.3	
7	GD&T	⊥ Perpendicularity 0 ; 69.7 ; 45.6 (≈)	⊥ 0.4 A		≤ 0.4				Geometrical Tolerance.4	
8	Dimensional	Feature size 0 ; 34.7 ; 24 (≈)	10 ±0.15	9.85	10.15				Geometrical Tolerance.5	review: dimension interpreted: «010+0,15» → «010±0,15»
9	GD&T	⌒ Profile of a surface 0 ; 34.7 ; 24 (≈)	⌒ 1 A B		≤ 1				Geometrical Tolerance.5	
10	General GD&T	⌒ General Surfaces	⌒ 1 A B C		≤ 1				Note 3 (UOS)	
11	General GD&T	⊕ Holes	⊕ 0.5 (M) A B C		≤ 0.5				Note 4 (UOS)	
12	Note requirement	Parting line	5. PARTING LINE MISMATCH 0.1 MM MAX.						Note 5	
13	Note requirement	Regrind	6. MAXIMUM ALLOWABLE REGRIND CONTENT 10% BY WEIGHT.						Note 6	
14	Note requirement	Parting line	8. PARTING LINE MISMATCH 0.25 MM MAX ON NON VISIBLE AREAS.						Note 8	

Location of each characteristic

1 2 Geometrical Tolerance.1



Position X ; Y ; Z (mm, model coordinates)

25 ; 20 ; 4

Ø8 hole of the part closest to the annotation (its leader does not reach the part in the model); its wall in red.

1 Diameter Ø

Ø8 ±0.1

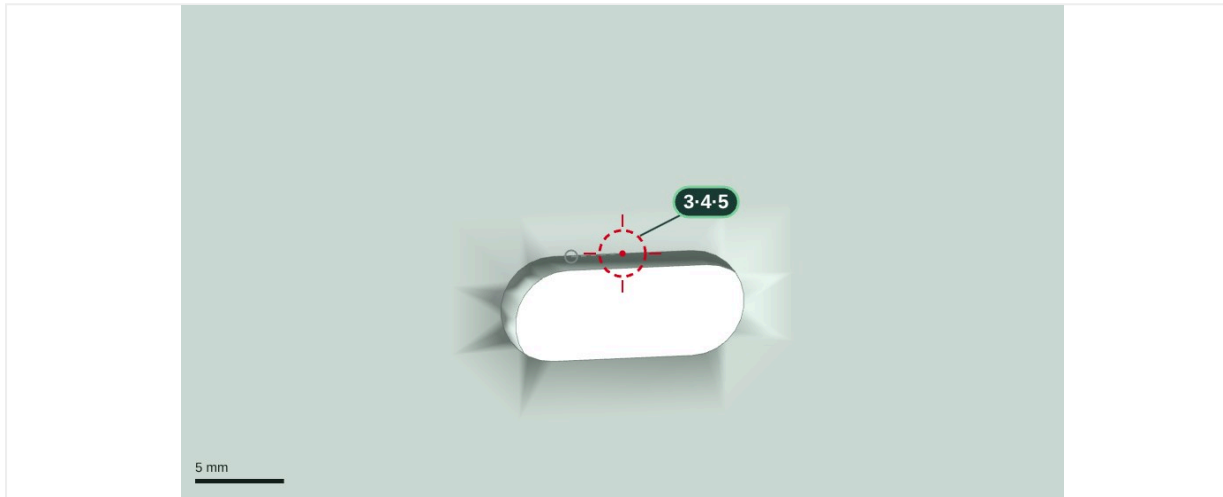
2 Position

± 0.3 (M) | A | B | C

original text:

2X Ø8±0,1
± 0,300 A B C

3 4 5 Geometrical Tolerance.2



Position X ; Y ; Z (mm, model coordinates)

90 ; 38 ; 4

Approximate: the leader does not reach the part in the model; the nearest surface point is marked (leader end in grey). Confirm against the drawing.

3 Width

6 ±0.1

4 Length

14 ±0.2

5 Position

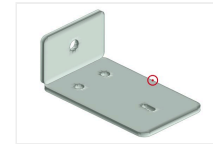
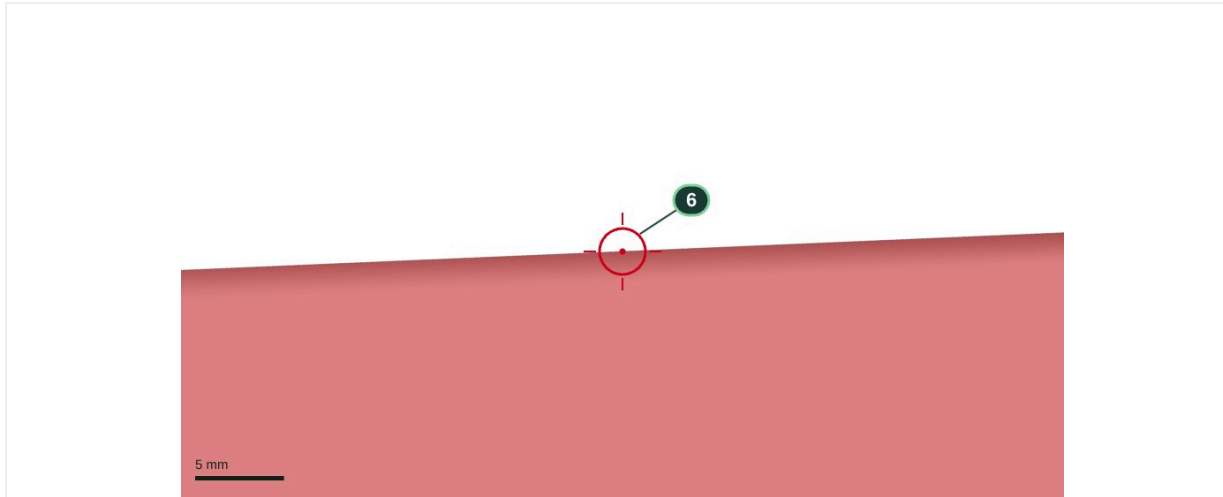
± 0.5 (M) | A | B | C

original text:

6±0,1 x 14±0,2

Location of each characteristic

6 Geometrical Tolerance.3



Position X ; Y ; Z (mm, model coordinates)

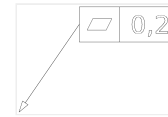
60 ; 70 ; 4

Point where the leader touches the part; in red, the face of the part at that point.

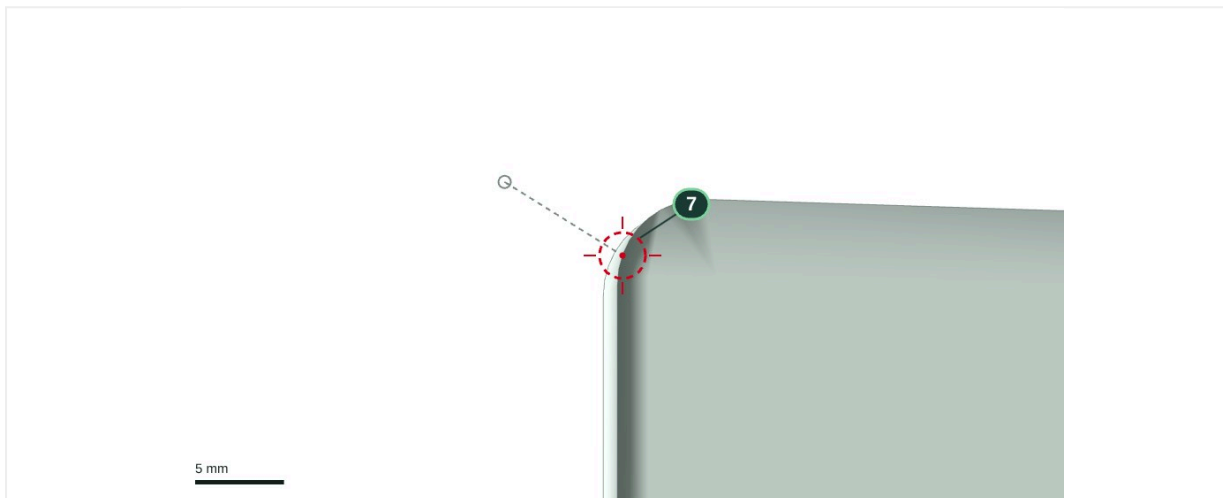
6 ▱ Flatness

▱ 0.2

original text:



7 Geometrical Tolerance.4



Position X ; Y ; Z (mm, model coordinates)

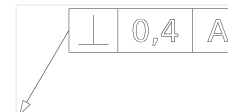
0 ; 69.71 ; 45.65

Approximate: the leader does not reach the part in the model; the nearest surface point is marked (leader end in grey). Confirm against the drawing.

7 ⊥ Perpendicularity

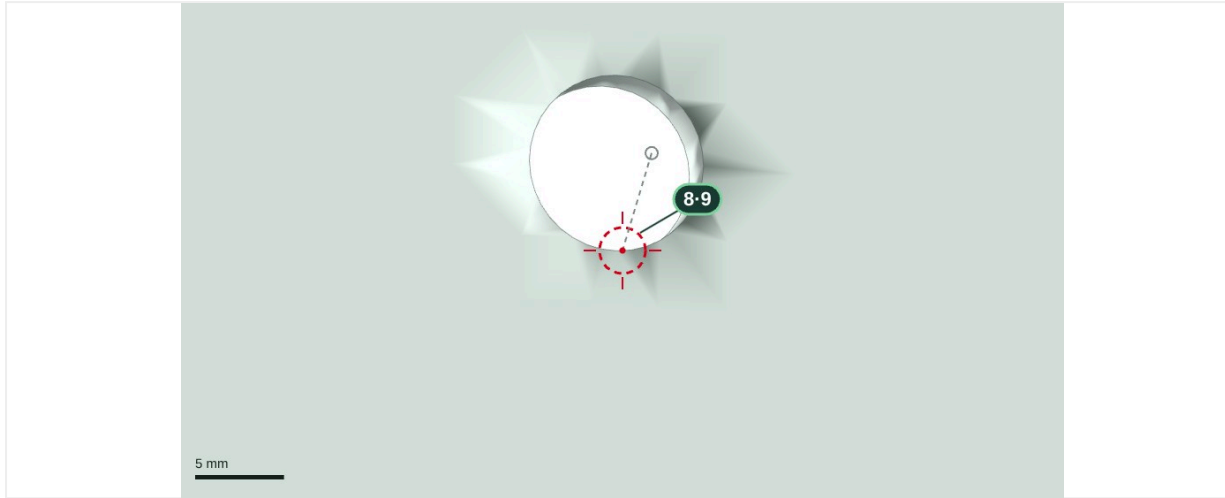
⊥ 0.4 | A

original text:



Location of each characteristic

8 9 Geometrical Tolerance.5



Position X ; Y ; Z (mm, model coordinates)

0 ; 34.65 ; 24.02

Approximate: the leader does not reach the part in the model; the nearest surface point is marked (leader end in grey). Confirm against the drawing.

8 Feature size

10 ±0.15

9  Profile of a surface

 1 | A | B

original text:



Datum reference frame (datums and targets)

Datum	Type	X ; Y ; Z (mm)	Feature	PMI	Remarks
A	Datums	106.8 ; 12 ; 4	Geometrical Tolerance.2 6.0±0.1 (?)	Datum Feature.1	
A1	Datum targets	10 ; 10 ; 0		Datum Target.1	
A2	Datum targets	110 ; 60 ; 0		Datum Target.2	
A3	Datum targets	6.5 ; 62 ; 18.1		Datum Target.3	
B	Datums	0 ; 31.9 ; 30	Geometrical Tolerance.5 10.0±0.15 (?)	Datum Feature.2	
C	Datums	56.9 ; 0 ; 2		Datum Feature.3	

Alerts and open points

Priority	Topic	Text	Action
MEDIUM	Contradictory requirements: Parting line	note 5: «5. PARTING LINE MISMATCH 0.1 MM MAX.» vs note 8: «8. PARTING LINE MISMATCH 0.25 MM MAX ON NON VISIBLE AREAS.»	Confirm with the customer whether these are different requirements (e.g. mismatch between halves vs. parting line / flash height) or one contradicts the other; meanwhile design the mould to the most restrictive value.
MEDIUM	ISO 2768-m on a plastic part (from the customer profile)	ISO 2768 is for machined parts; for plastic moulded parts the standard is ISO 20457 (or DIN 16742), with TG groups and W / NW dimensions.	Confirm the general tolerance with the customer and review the profile.
LOW	Datum A associated by proximity	Datum A is 21.1 mm from Geometrical Tolerance.2 (6.0±0.1).	Confirm on the 3D model.
LOW	Datum B associated by proximity	Datum B is 10.1 mm from Geometrical Tolerance.5 (10.0±0.15).	Confirm on the 3D model.

General drawing notes (original text)

- | | |
|---|--|
| 1 | 1. ALL DIMENSIONS IN MM. INTERPRET PER ASME Y14.5-2018. |
| 2 | 2. UNLESS OTHERWISE SPECIFIED: |
| 3 | 3. GENERAL SURFACES: 1.0/A/B/C |
| 4 | 4. HOLES: 0.5(M)/A/B/C |
| 5 | 5. PARTING LINE MISMATCH 0.1 MM MAX. |
| 6 | 6. MAXIMUM ALLOWABLE REGRIND CONTENT 10% BY WEIGHT. |
| 7 | 7. PART MUST BE FREE OF BURRS, FLASH AND SHARP EDGES. |
| 8 | 8. PARTING LINE MISMATCH 0.25 MM MAX ON NON VISIBLE AREAS. |