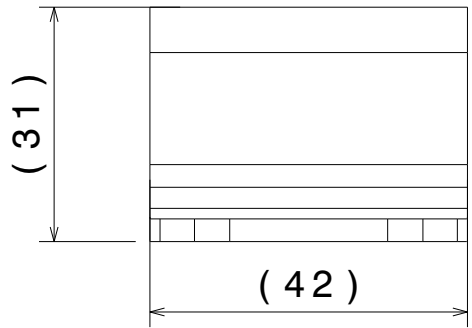
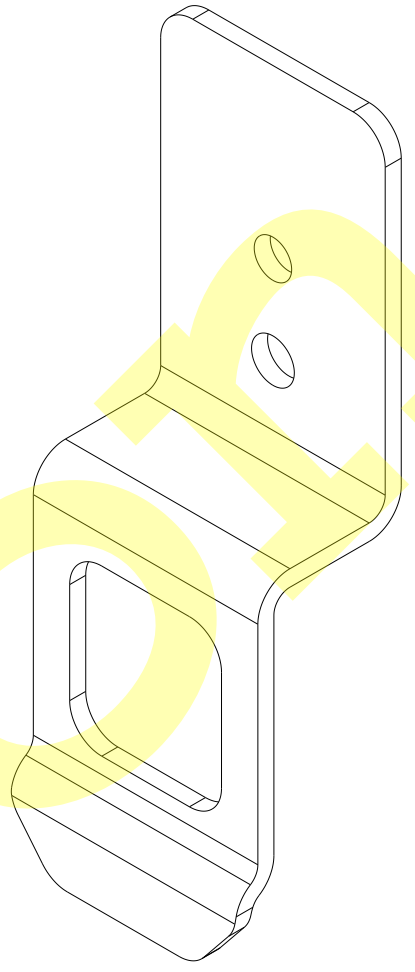


Allgemeintoleranzen nach General tolerances acc. to			MBN 11012-20
Symbol	Tolerance Tolerance -Art -Wert -type -value	Bedeutung / Meaning	
	0	Bezugsstellen nach Datum Targets according to MBN 11012-1	
	1 X Y Z	Flächenformtoleranz fuer umgeformte Flächen Surface tolerance for formed surfaces	
	2 X Y Z	Linienformtoleranz fuer geschnittene Kanten Line tolerances for cut edges	
	1 X Y Z	Positionstoleranz fuer Loecher Position tolerance for holes	
	0.4 X Y Z	Positionstoleranz Bezugsloecher (Bezugselemente) fuer die nicht fixierte Raumrichtung Position tolerance for locating holes (reference elements) of the non-defined direction of space	
	+0.2 -0.1	Lochdurchmesser allg. bzw. Formkontur General hole diameter or shape	
	±0.1	Durchmessertoleranz Bezugsloecher und Bezugsbohrungen Tolerance of diameter for locating holes and datum holes	
	+2	Biegeradien Bending radii	
	+0.3	Zulaessiger Stanzgrat Permissible burr height	

Reference points in vehicle axis system						
Datum	X	Y	Z	Views	Sheet/Location	Notes
A1	-448.25	-414.00	338.90	Front View	SH1/M5	Ref on bottom surface of the part
A2	-448.25	-445.00	290.80	Front View	SH1/K4	
A3	-448.25	-413.00	290.80	Front View	SH1/M4	
B4	-448.25	-429.00	297.10	Front View	SH1/K5	Ref on center point of hole
B5	-448.25	-429.00	313.60	Front View	SH1/K5	Ref on center point of hole
C6	-448.25	-429.00	297.10	Front View	SH1/M5	



Bottom view
Scale: 1:1

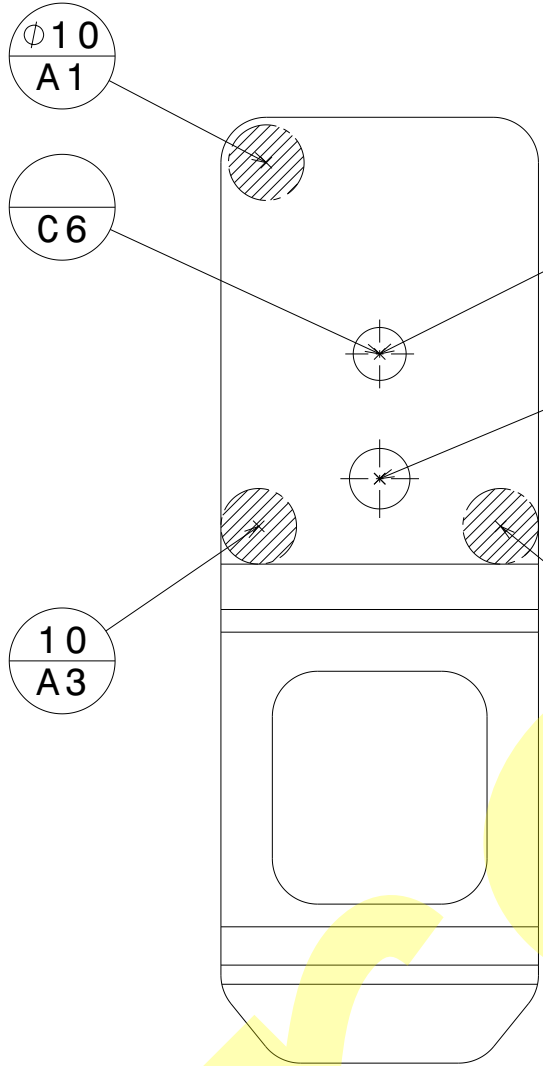


Isometric view
Scale: 1:1

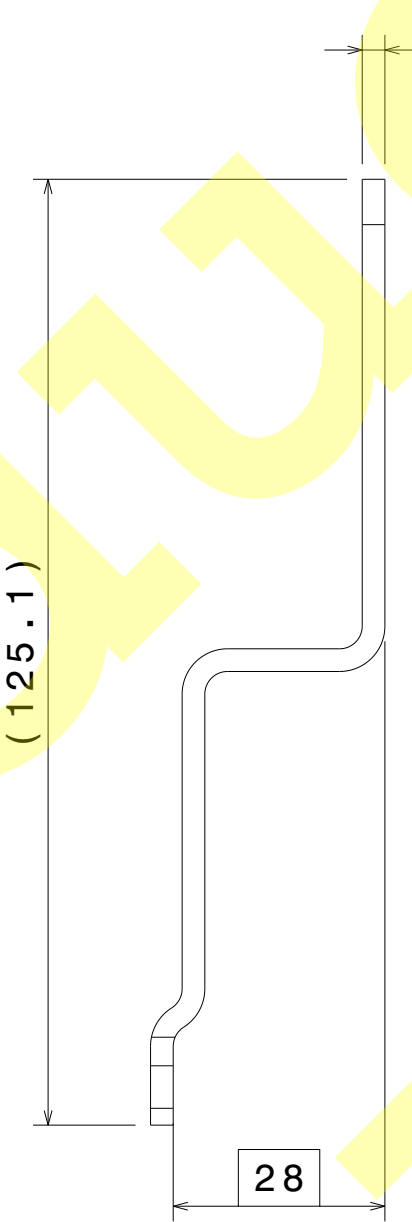
SPPC Sum Up

Internal	1	◆
Internal Followed	0	◇
Customer	0	◆
Customer Followed	0	◇
Safety and/or Regulation	1	◇
Other	0	◇

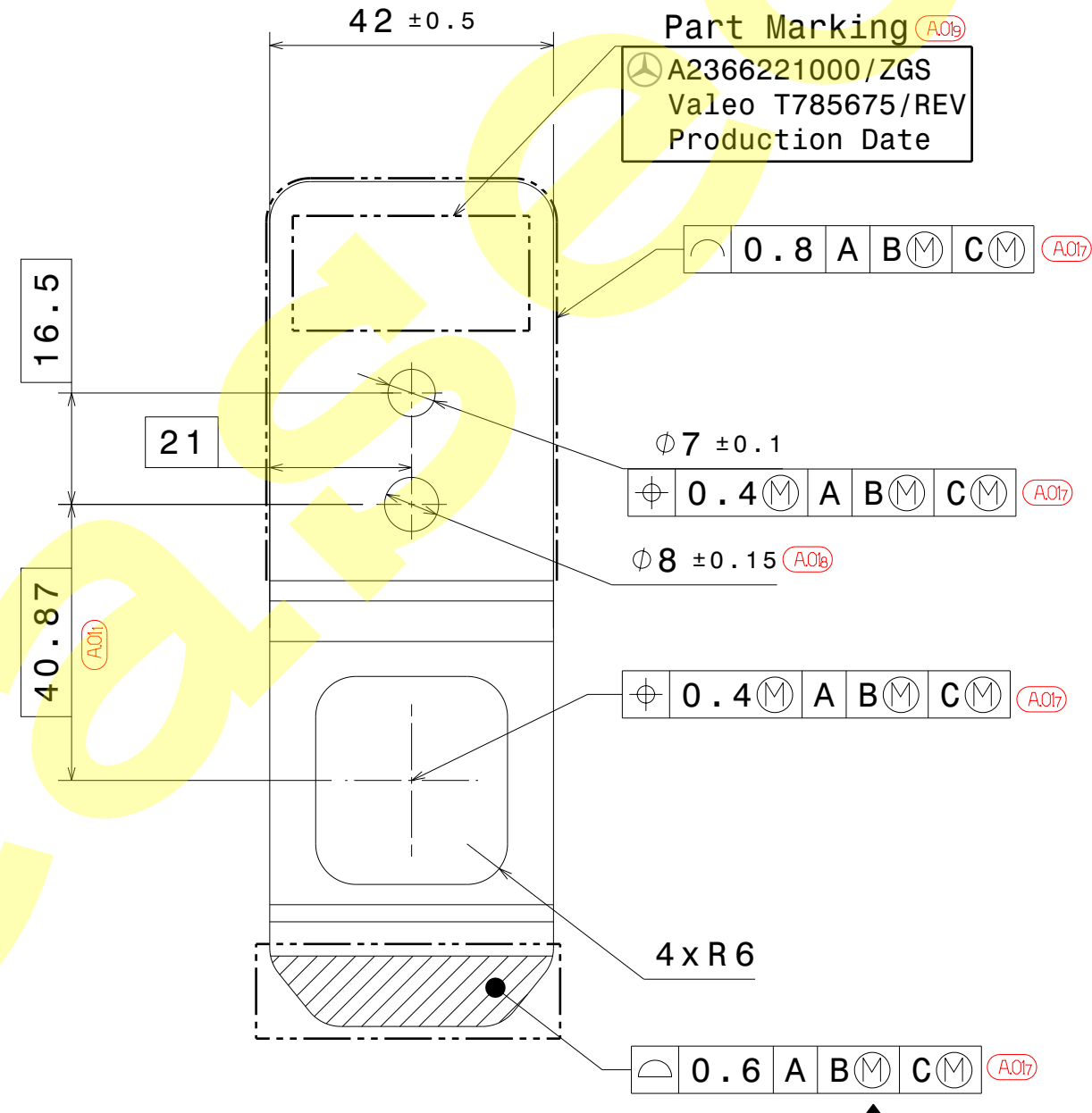
◆	SIGNIFICANT CHARACTERISTICS Cpk ≥ 1.66	1
◇	FUNCTIONAL CHARACTERISTICS Cpk ≥ 1.33	0
<F>	FUNCTIONAL CHARACTERISTICS WITHOUT CAPABILITY REQUIREMENT	2



Front view
Scale: 1:1



Left view
Scale: 1:1



Rear view
Scale: 1:1

General Requirements:

- 1)Max. burr height and/or max. sharp edges 10% of wall thickness, Max0.3mm.
- 2)Part marking position - See drawing reference :
According to customer MBN 10435 (logo, customer part number, ZGS)
According to Valeo requirement (logo, part number, daily production date, material, country of origin)
- 3)Form / shape : refer to CAD model provided in the defined revision level - CAD revision level is always master
- 4)Corrosion requirements: see coating definition in svrf
- 5)Gaging: supplier must demonstrate capability for SPPC relevant characteristics using statistical analysis
- 6)Formability: forming/stamping simulation to be presented by supplier and to be approved by Valeo
- 7)<Note removed>
- 8)GD&T symbology: Daimler MBN 11011i
- 9)Weight tolerance: +- 5%
- 10)No change in manufacturing process or product design without Valeo approval
- 11)All tests of functional and material DBL by Daimler to be performed and documented by supplier
- 12)Forming limitations
Max.allowable thinning: 17%
Max.allowable thickening: 10%
- 13)<Note removed>
- 14)Testing of the thickness ZNi-coating each check on each batch (no additional test).
- 15)RPA-yearly corrosion testing mandatory.
- 16)General tolerances acc. to MBN_11012-20
- 17)Regulation Note:

R Marking	Regulation Theme	Standard number (Including Revision) for Global Product	Regulation number (Including Revision)
<N-R3> 	-Material Restrictions	- Valeo BRDS (Latest Revision)	1907/2006/EC
		- TD0C_100363499 Rev A (Regulation standard)	2000/53/EC
		- Customer document DBL8585	GBT 30512:2014

A.01	TCO_100747001_01	K.GANESH / P.KUNZELMANN	2022/02/17	1)Basic Din. corrected 40.87 was 40.97. (SH1/H4) 2)General note 1 updated Max0.3mm was Max0.2mm (SH1/L3) 3)General note 4 updated Corrosion requirements: see coating definition in svrf was see coating definition in svrf to respect Daimler FVVO A0030061699. (SH1/M2) 4)General note 15 updated RPA-yearly was RPA-all 6 months. (SH1/M1) 5)General note 16 updated MBN_11012-20 was MBN36012. (SH1/M1) 6)Regulation table updated. (SH1/P1) 7)MMC modifier added in Feature control frame. (SH1/F5, E4, E3) 8)Feature control frame removed. (SH1/F4) 9)Part marking area added. (SH1/E5) 10)General note 14 updated Testing of the thickness ZNi-coating each check on each batch (no additional test) was Testing of the thickness ZNi-coating every batch. (SH1/K1) 11)General note 7 & 13 removed. (SH1/O2) 12)Optical and Aesthetic requirements are removed. 13)Views orientation changed as per FEM orientation.
A	TCO_100620310_01	R.VIJAYAN / C.D.NGUYEN	2021/04/26	Initial drawing for W-Release. (3D:R02V12)
REV	ECO NUMBER	RESPONSIBLE	DATE	DESCRIPTION OF CHANGE
All units shown are in millimeters (mm), unless otherwise indicated. All surface finish is in micrometers (µm), unless otherwise indicated.				
Reason:		Checked		Customer: MERCEDES-BENZ REV
		Tech. Checked		Part A2366221000 ZGS 002
Interchangeability				Drawing
Former Part N°	Rev	Prototype Drw	Rough Part N°	Dev Code BR236
MATERIAL Steel HC420LA 1.0556 acc. UNI EN 10268				APPROVED BY P.KUNZELMANN
TREATMENT COATING ZNi acc. DBL 8451.66				APPROVED DATE 2022/03/08
TITLE & DESCRIPTION Front End Module ABSORBER X-BRACKET				ESTIMATED MASS 120.8g
				CREATED BY Rubykumar V
				CREATION DATE 2021/04/26
Valeo Thermal Front End Germany Valeostrasse 1, 74321 Bietigheim-Bissingen		DRAWING NUMBER DRW_T785675_001		DRAWING REV. A.01
		PART NUMBER	T785675	
		SCALE 1 : 1	SIZE A1	SHEET 1 / 1

Drawing assumes ISO-14405 E
(envelope Principle) ,
unless otherwise specified.