

- 1) COLOUR : AS PER C&T MATRIX FROM TML STYLING.

STANDARD VALUES			
STD	L	A	B
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COLOUR SPACE		CIE	
ILLUMINATION		D65	
OBSERVER DEGREE		10	

2) TEXTURE -AS MOLDED

3) UNSPECIFIED RADII 0.5R AND DRAFT 1°.

4) GENERAL WALL THICKNESS : 2.5 mm

5) FOR LINEAR DIMENSION TOLERANCE AS PER GENERAL GRADE GROUP 130TS 12121.

6) FOR ALL OTHER DETAILS REFER CAD DATA.

7) COMPONENT TO BE MARKED AT SOME PLACE ON THE UNSEEN SURFACE WITH APPROPRIATE TERM FOR THE MATERIAL USED AS PER TS 11418. e.g. >ABS<

8) ENVIRONMENTAL TESTING AS PER TS: 75006.

9) INTERIOR/EXTERIOR PROJECTION AS PER ECE R21/R26.

10) COMPONENT SHOULD BE FREE FROM VISUAL DEFECTS LIKE SINK MARKS, FLUSHNES, FLOW LINES ETC.

11) COMPONENT TO MEET BSR TEST AS PER TST/TS/WI/163.

12) COMPONENT TO MEET CHEMICAL RESISTANCE TEST AS PER TS 76065.

13) GENERAL SEEN SURFACE WITH BLENDED UNIFORMITY.

14) SAMPLE TO BE APPROVED BY TML ERC.

15) ADDITIONAL RIBS LOCATION AND THICKNESS TO BE DECIDED BY SUPPLIER FOR PART STRENGTH, DIMENSIONS CONTROL

AVOIDING SINK MARKS.

16) MOULD DIVISION LINE THICKNESS SHOULD NOT BE MORE THAN 0.05mm.PARTING LINES ESPECIALLY FOR CLASS A SURFACE.

17) THERE HAS TO BE FORMAL DATA APPROVAL BY TATA MOTORS BEFORE ANY TOOL CUTTING.

18) ENDURANCE OF SNAPS :- NO DAMAGE OF SNAPS AFTER 10 TIMES FITMENT AND REMOVAL.

19) COMPONENT TO QUALITY CHECKING FIXTURE TO BE APPROVED BY TML FREELY WITHOUT ANY FLEXING.

20) EDGES CRITICAL FOR GAPS AND FLUSHNESS AS PER GAPS AND FLUSHNESS DETAILS TO CONFIRM AS PER AGREEMENT WITH TML ERC/QA.

21) FOR TESTING REFER: 2678 9900 00 03/ DVP ATTACHED.

22) SCRATCH RESISTANCE FORCE MINIMUM IN FOR ONSET OF WHITENING AS PER TS 75014.

23) MATERIAL : POM

MAKE: Celanese

GRADE- Duracon M90

25) LH PART IS SHOWN AND RH PART IS MIRROR OPPOSITE.

26) CAD DATA IS MASTER.

27) VIBRATION TEST AS PER AIS 006.

28) ALL MATING SURFACES WITHIN

29) ALL HOLES POSITION SHOULD BE WITHIN

30) FOR ALL MATING AND NON-MATING SURFACES, REFER 3D CAD DATA.

31) FOR DETAILED TOOL SAFE CONDITION REFER SURFACES MENTIONED IN MAGENTA COLOR IN 3D.

32) REQUIRED PART FITMENT/SNAP FITMENT/GAP & FLUSH CONDITION TO BE ACHIEVED WITH CHILD PARTS AT THE SUPPLIER END IN ASSEMBLY CONDITION.

33) FOR ANY DOUBT, SUPPLIER SHOULD ASK BEFORE TOOL DESIGN.

34) IF ANY DOUBT SUPPLIER SHOULD ASK FOR 'A', 'B' & 'C' ZONE CLARIFICATION.

35) CMM REPORT TO BE SUBMITTED W.R.T 3D DATA.

36) SAFE STEEL CONDITION SHOULD MAINTAIN IN TOOL FOR FURTHER DEVELOPMENT.

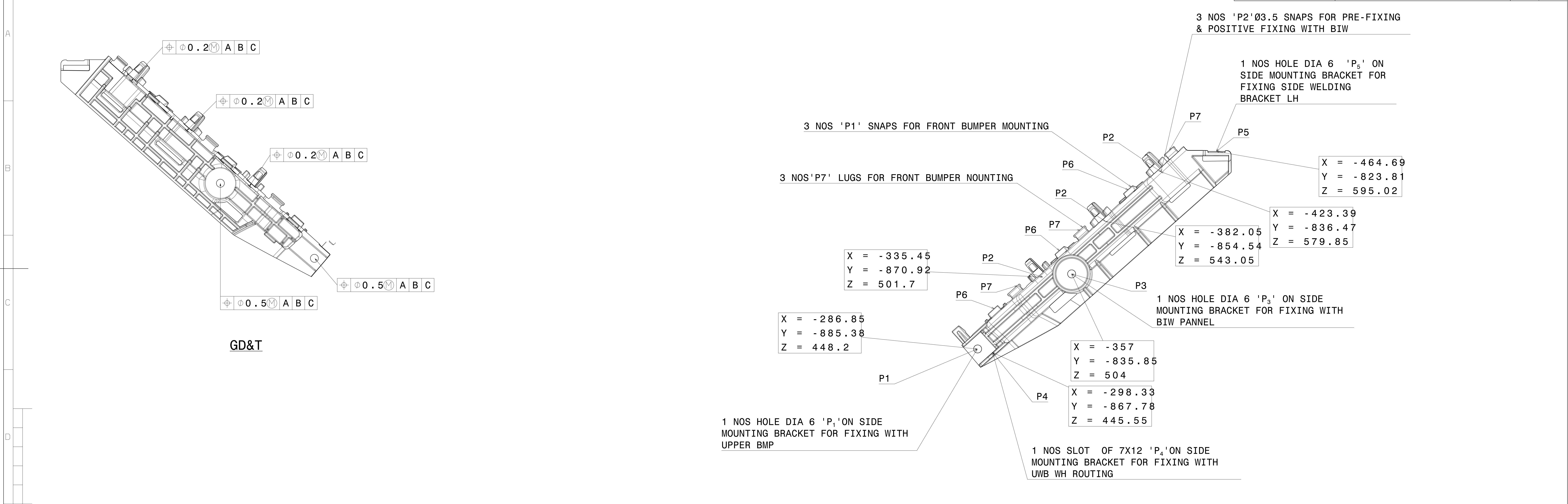
37) WHEREVER FEASIBLE, REPLACEABLE INSERTS TO BE USED AT HOLE / SLOT AREA.

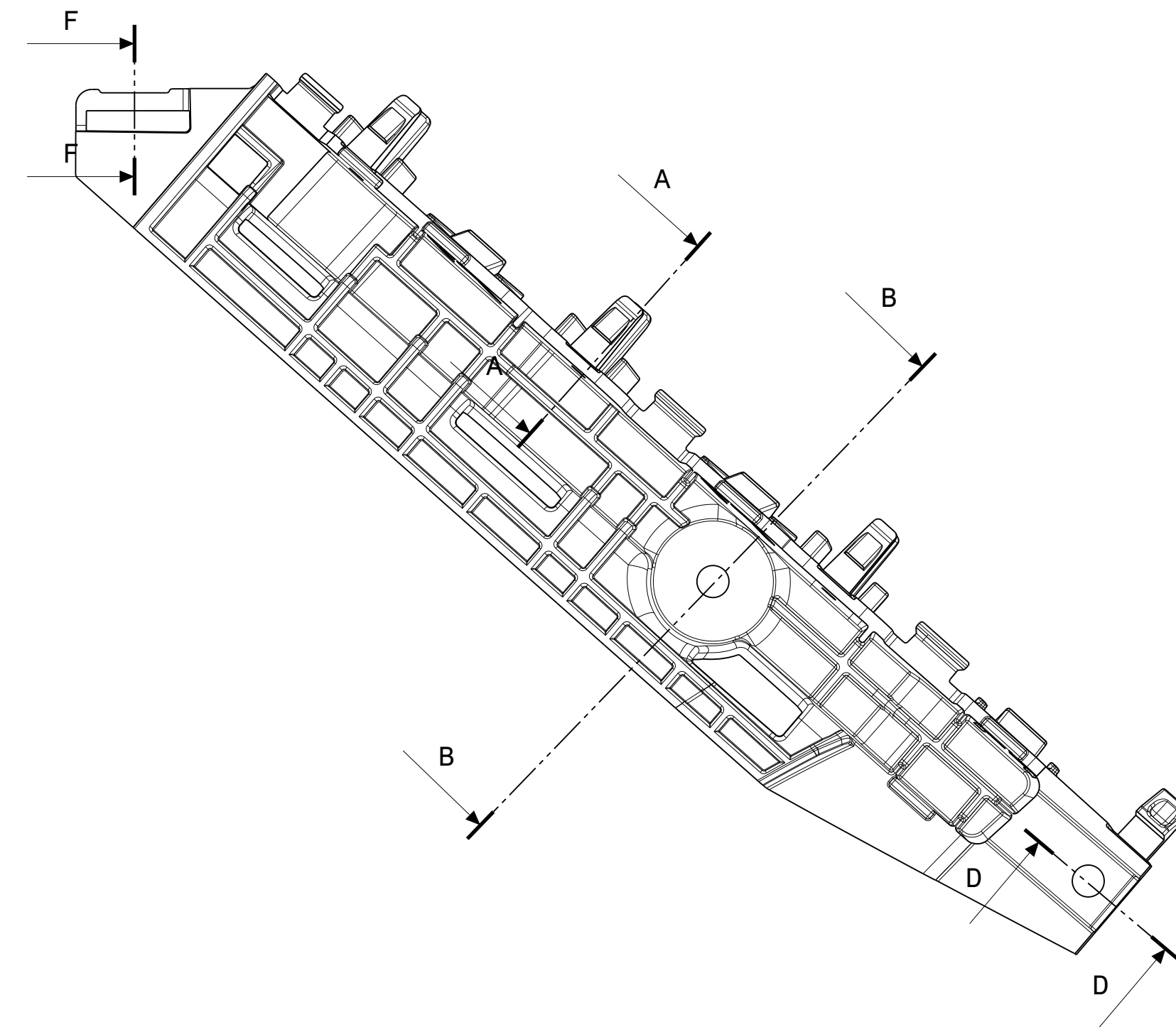
THIS HAS TO BE DISCUSSED WITH TML WHILE TOOL DESIGN.

LEGISLATIVE NOTE:

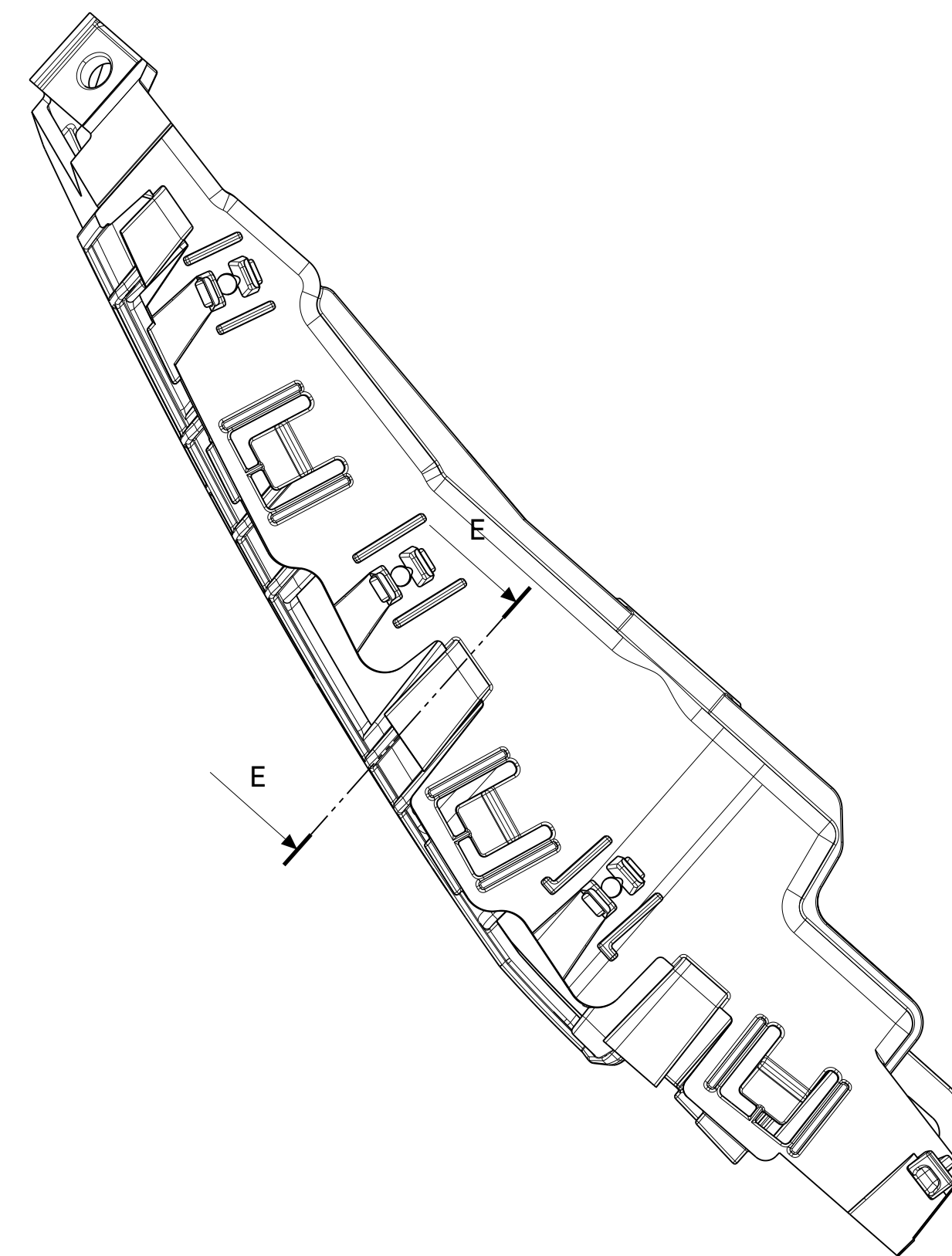
- 1) COMPLIANCE WITH RRR AND ELV DIRECTIVE (2000/53/EC AND 2005/64/EC)
REFER TS: 11414 FOR DESIGN FOR RECYCLING GUIDELINES.
- 2) HAZARDOUS MATERIAL CONTENT IN COMPONENT :- TO MEET THE EEC
DIRECTIVE 2000/53/EC AND FOR DESIGN FOR RECYCLING TS 11414.
- 3) PART MATERIAL WEIGHT DATA SUBMISSION AND HAZARDOUS MATERIAL
DECLARATION AS PER TS: 11420, SUPPLIER TO SUBMIT/DECLARE THE SAME FOR
ASSEMBLY LEVEL AND PART LEVEL.

TOLERANCES FOR THERMOPLASTICS UNLESS OTHERWISE SPECIFIED (TOLERANCE ON FORM IS WITH BLENDED UNIFORMITY)			Material Description Size Spec. Std. No. : PDM (Duracore M90) 2.5 mm Thick			SEPT-202423PU158 PDM-251			b --- UPV3 RELEASE			TACO JGM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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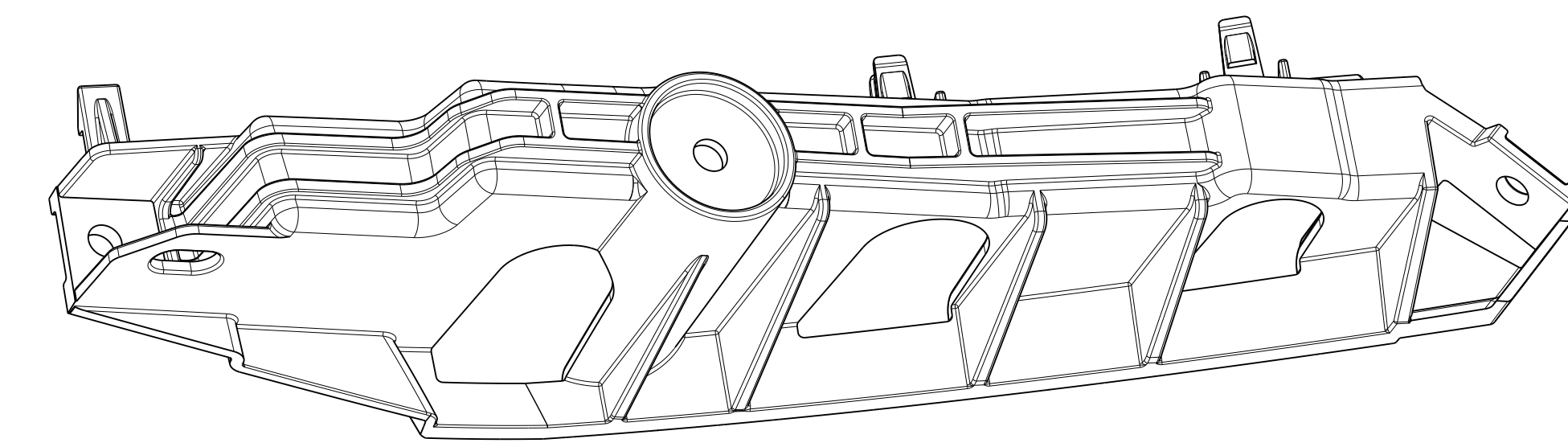




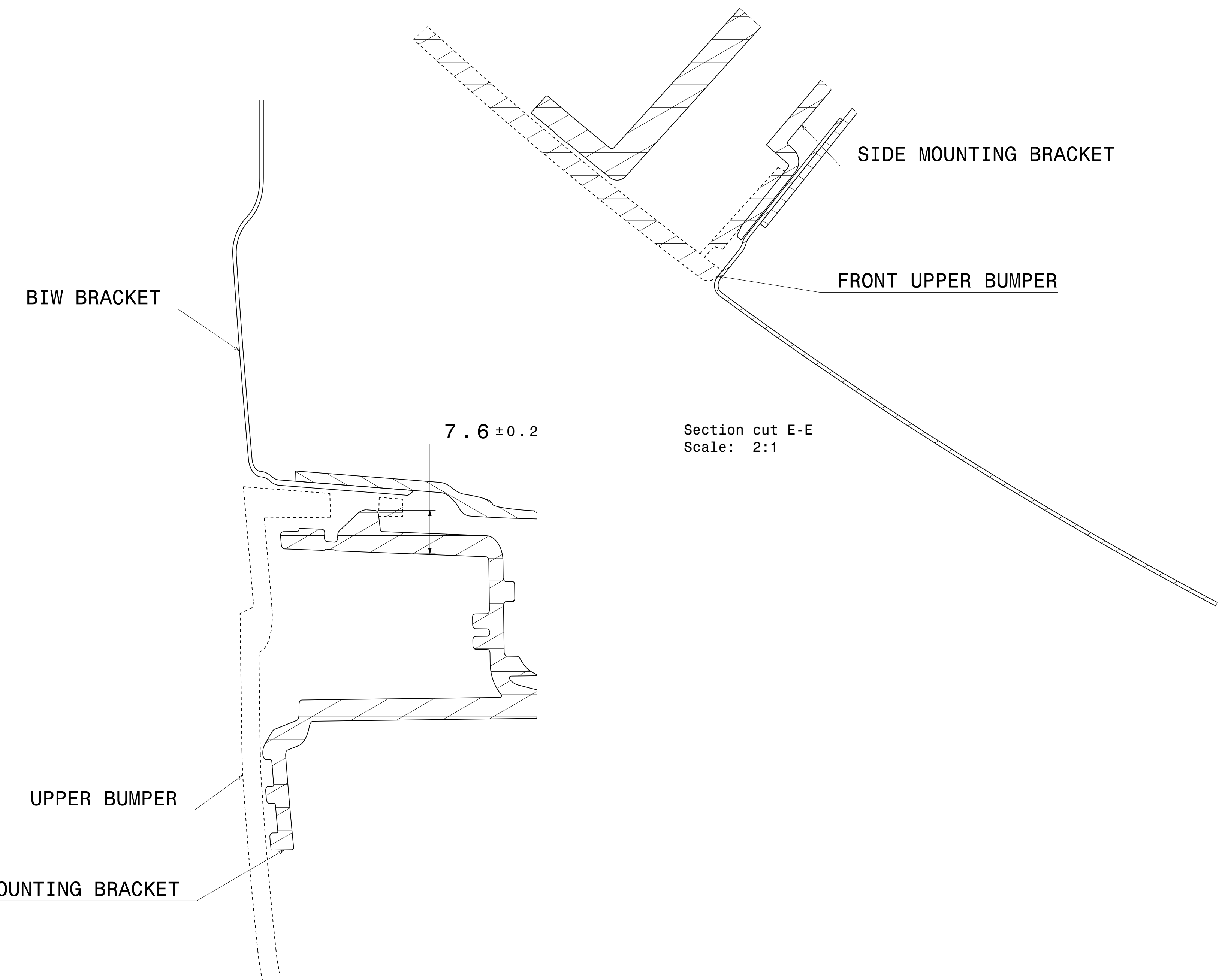
Left view
Scale: 1:1



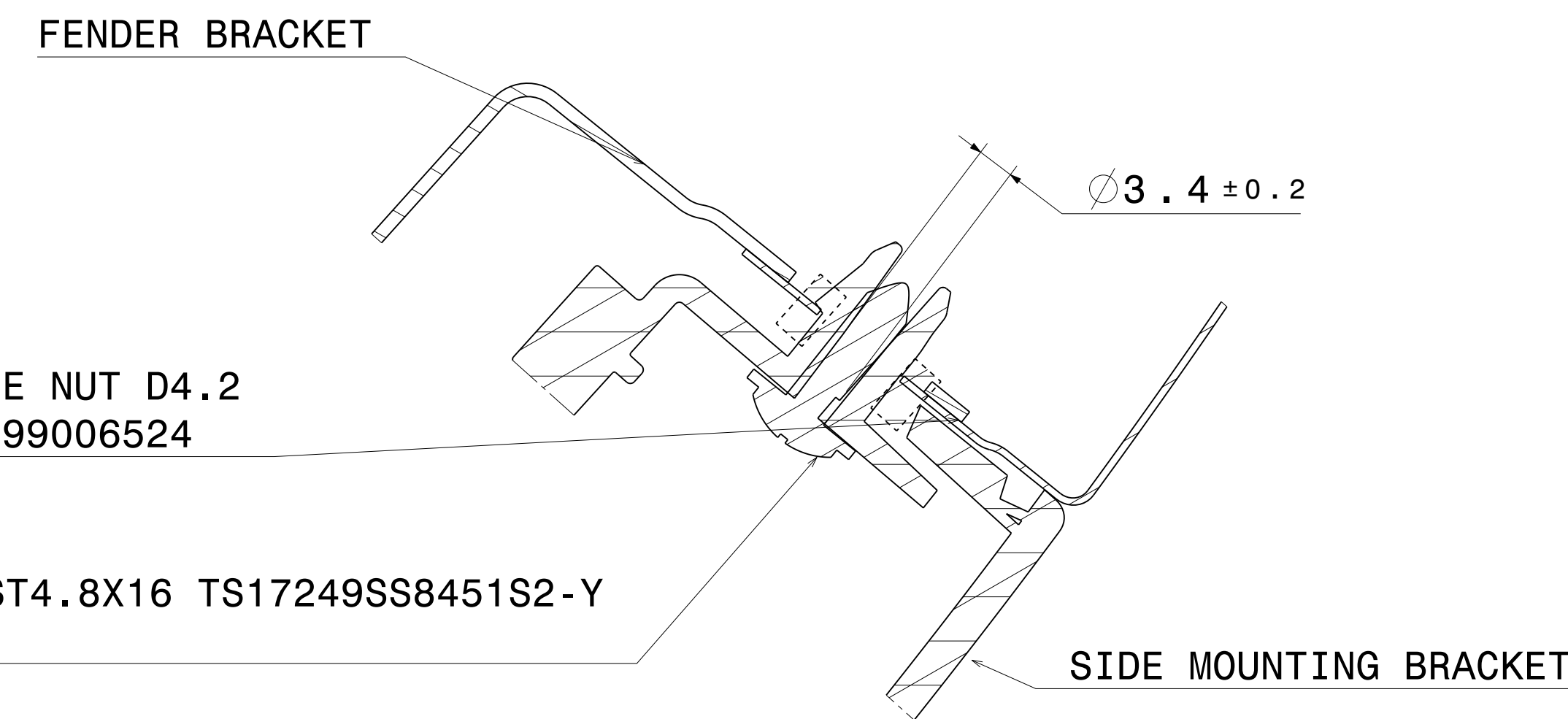
Auxiliary view A
Scale: 1:1



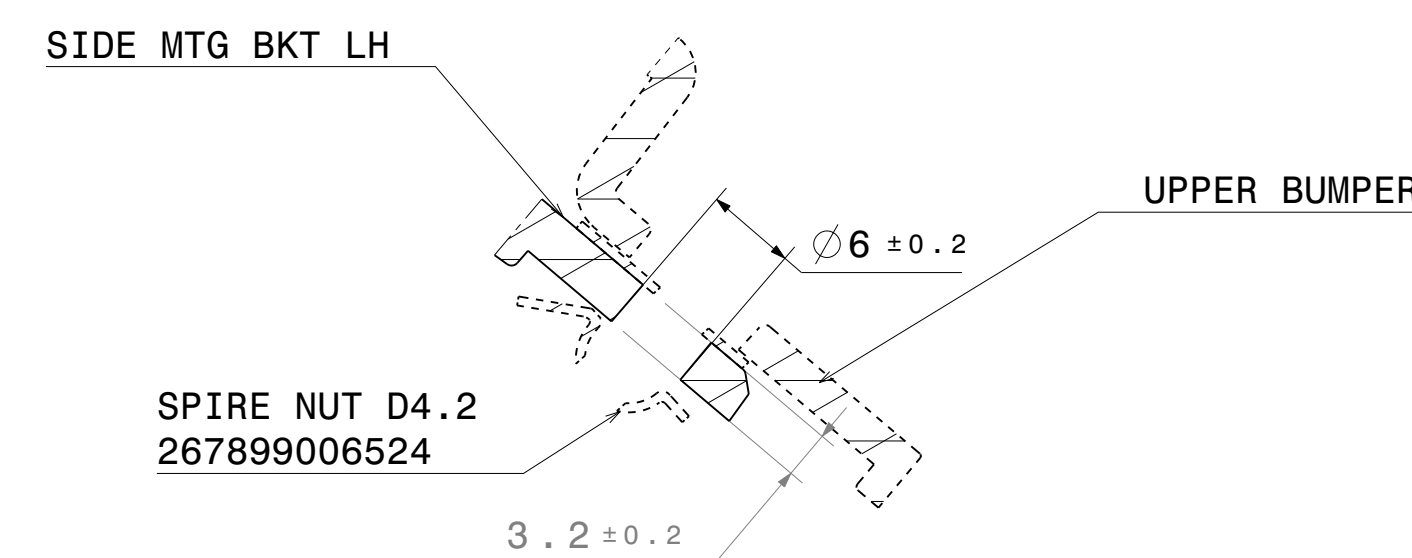
Auxiliary view F
Scale: 1:1



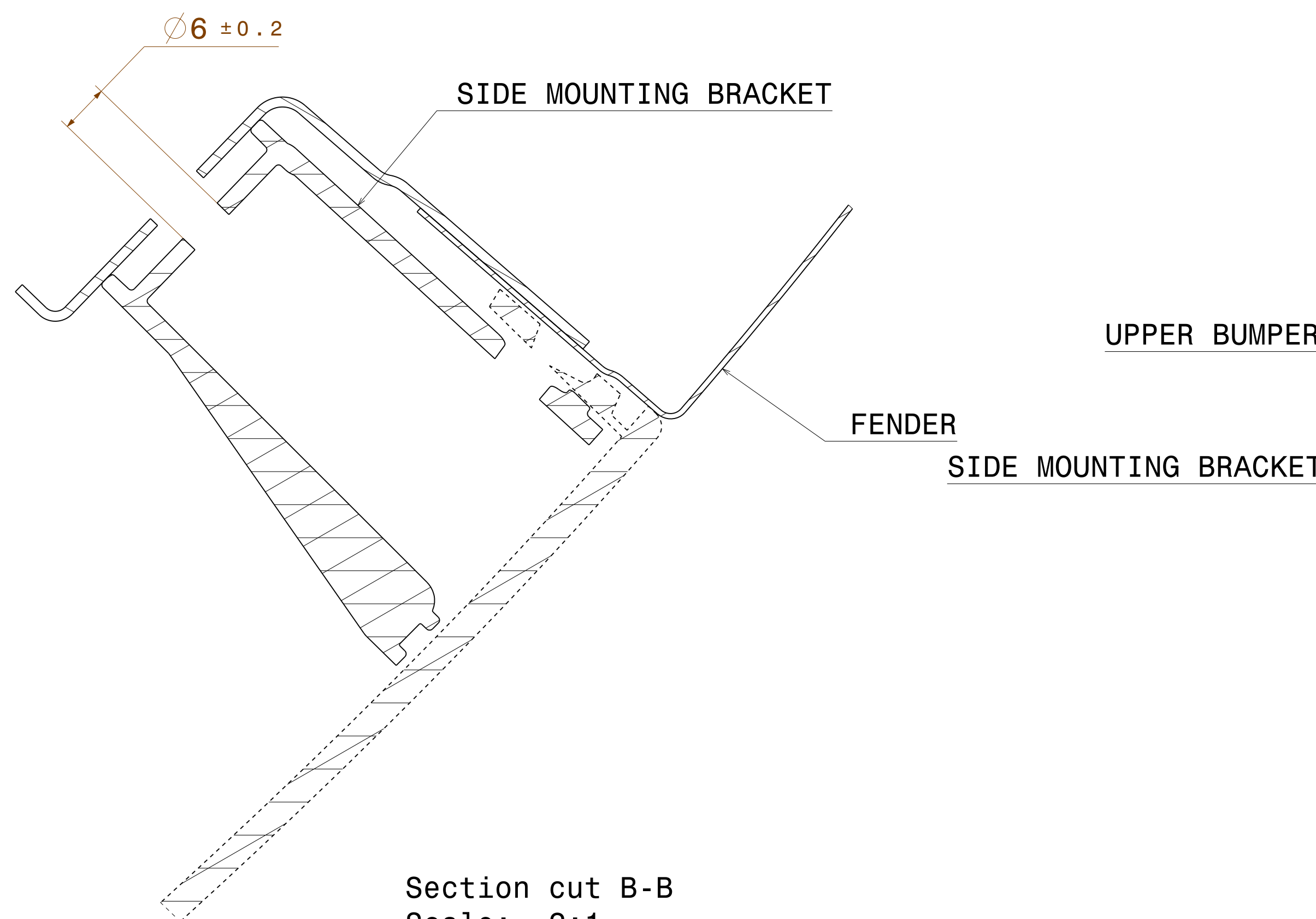
Section cut C-C
Scale: 2:1



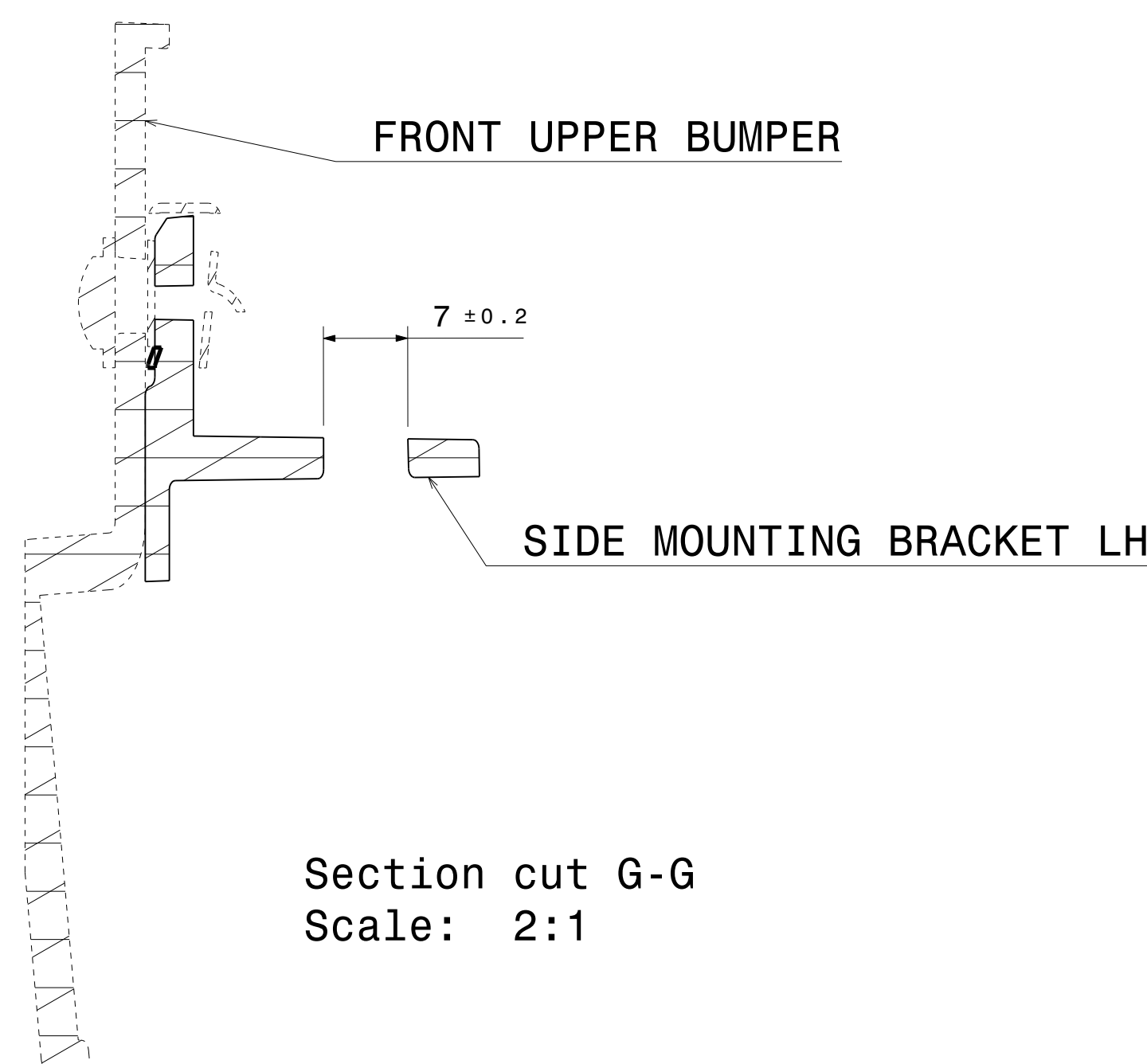
Section cut A-A
Scale: 2:1



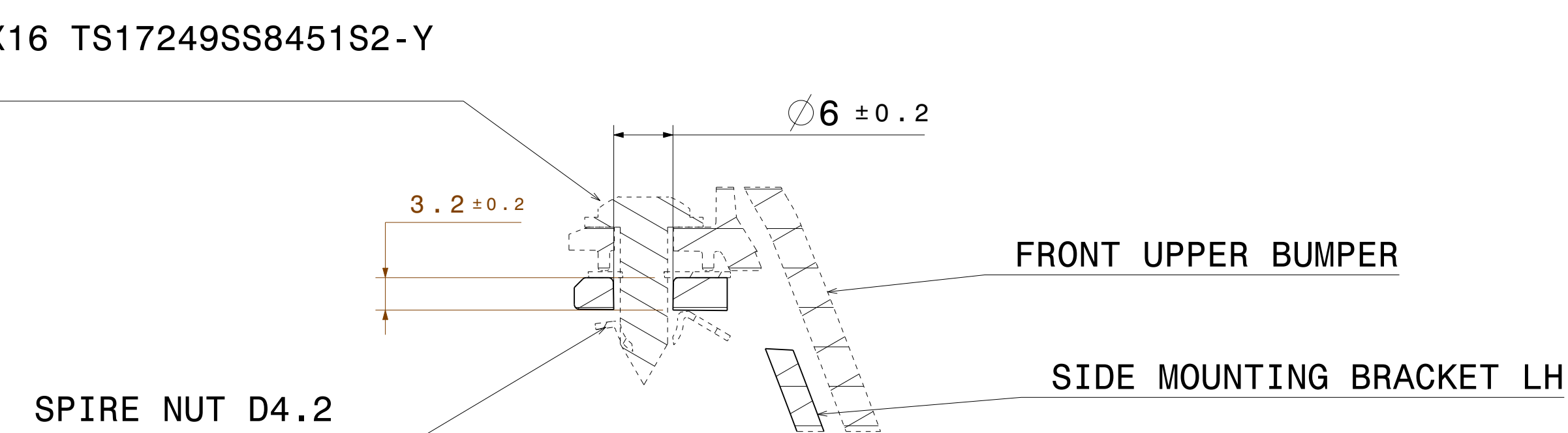
Section cut D-D
Scale: 2:1



Section cut B-B
Scale: 2:1



Section cut G-G
Scale: 2:1



Section cut F-F
Scale: 2:1

TOLERANCES FOR THERMOPLASTICS UNLESS OTHERWISE SPECIFIED (TOLERANCE ON FORM IS WITH BLENDED UNIFORMITY)	
MATING SURFACE	$\square 0.6 A B C$
NON-MATING SURFACE	$\square 1.0 A B C$
EDGES	$\square 1.0 A B C$
HOLE LOCATION	$\Phi 1.0 \textcircled{M} A B C$
WALL THICKNESS	± 0.25
HOLE SIZE	± 0.25

For all vehicles Components & Assemblies.
Tata Group Mark & Part No. to be marked as
per IS 11806

For M1& N1 class of vehicles, applicable standards are: T511414, T511418, T511419, T511420.

Material Description	Size Spec.	Std. No. :
POM (Duracon M90)		

Classification of characteristic:

- Critical ▲ Key Instruction
- ◐ Major (None) Minor
- Applies to upper limit
- ◐ Applies to lower limit

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	PPPD	TACO
	CHKD	SSP
	APPD	PPD



 TATA AutoComp systems Ltd	Drg./Part Design
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Interiors & Plastic Division
Hinjewadi, Pune, India - 411057

SEPT-2022	23P1U58 ADD:251	b	---	UPV3 RELEASE		TACO	JCM
JAN-2024	23P1U58 ADD:131	a	---	UPV2 RELEASE		TACO	SSP
NOV-2023	23P1U58 ADD:058	NR	---	NEW RELEASE		TACO	SSP
Date		Mod No.	S. No	Zone	Modification		DRN CHKD
DATE	Envelope (Diagonals) (mg) (L x W x H)		Fin mass in kg		Surface protection as per Std.		
10/11	<div><div>A</div><div>20x8x10x165</div></div>		0.1kg		-----		
10/11			Tot. as per std.		-----		
10/11			Product/Group No.		Replaces Drg. -----		
<div><div>5481</div></div>		Reference Drg. No. -----					
		Opp. Hand Drg./Pt. No. -----					
		Drg./Part No.					
tion		5481 8850 63 17					
RACKET_LH							
Sheet No.		3	of	3	Sheets		

1	2	3	4	5	6	7	8	9	10	11	12		
5468 8850 63 17										Do not scale the drg	Unless otherwise stated ① All dimns. in mm.	Non/mat dim	To/paralines 10, μ, α
										If in doubt, Ask	② Drg drawn to first angle projection	----	--

A

B

C

D

E

F

G

H

TOLERANCES FOR THERMOPLASTICS UNLESS OTHERWISE SPECIFIED (TOLERANCE ON FORM IS WITH BLENDED UNIFORMITY)		For all vehicles Components & Assemblies, Tata Group Mark & Part No. to be marked as per IS 11608		For M18 M1 class of vehicles, applicable standards are: IS11414, IS11416, IS11419, IS11420.		Material Description Size Spec. Std. No. : POM (Duracon M90) 2.5 mm Thick		Classification of characteristic: ● Critical ▲ Key Instruction ● Major (None) Minor ● Applies to upper limit ● Applies to lower limit		This drawing is the sole property of Tata Motors It should not be copied or communicated to any person without the written approval of Tata Motors Limited.		2022 PPPD TACO 10/11 CHWD SSP 10/11 APPD RBB 10/11 Scale 1:1		Product/Group No. 5481		Replaces Drg. ----- Reference Drg.No. ----- App. Hand Drg./Plt.No. -----		Drg./Part Designation SIDE MOUNTING BRACKET_LH		5481 8850 63 17		Sheet No. of Sheets A0	
		SEPT-2024 23PU158 ADD:251		b ---		UPV3 RELEASE		TACO/JCM		JAN-2024 23PU158 ADD:151		a ---		UPV2 RELEASE		TACO/SSP		NOV 2023 23PU158 ADD:068		NR --- NEW RELEASE		TACO/SSP	
MATING SURFACE		0.6 A B C		NON-MATING SURFACE		1.0 A B C		EDGES		1.0 A B C		HOLE LOCATION		Φ 1.00 A B C		WALL THICKNESS		±0.25		HOLE SIZE		±0.25	