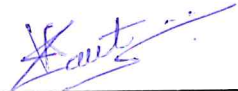


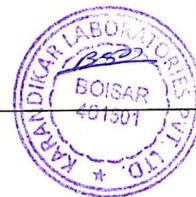


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KARANDIKAR LABORATORIES PVT LTD

F # 07 b.8 Rev. 00

TEST REPORT		
REPORT NO	KLPL/BTG/25/01-124	
LOCATION OF PERFORMANCE OF TEST	Test Laboratory	
DATE OF ISSUE	17.05.2025	
TOTAL NO OF PAGES	3 + Annexure	
NAME AND ADDRESS OF ORGANIZATION REQUESTING SERVICE:	M/s. Metalmech Engineering Plot No. 4246, Road - E, Dared, Phase-3, G.I.D.C., Jamnagar - 361001, Gujrat.	
SERVICE REQUEST DETAILS	Challan No: D81	Dated: 29.01.2025
ITEM RECEIVED ON	31.01.2025	
PRODUCT (Including Model/type Ref.)	MM AXL Series of Aluminium Enclosures, Size: Ref. Page No.02 of This Report Model No: AXL Series Drawing No: MM-AXL-WE	
SERIAL NO	----	
SCOPE	Impact test as per IEC 60079-0:2017 & As per customer Requirements.	
TESTING COMPLETED ON	05.02.2025	
The test results presented in this report relate only to the specific object tested, and the assessment results relate only to the documents listed in the documents list of this report. The report number, page number and total number of pages must be included on all pages of this report. This report shall not be reproduced except in full. Where values of uncertainty of measurements are given, these are expressed at the 95% confidence level unless otherwise specified *EUT-Equipment Under Test		
FINAL CONCLUSION: The sample tested meets the requirement of test specified in the scope of this report.		
This report was written by:		This report was verified and approved by:
BHAVESH RAWATE  TESTING ENGINEER Karandikar Laboratories Pvt. Ltd.		VIKRANT RAUT  SR. TESTING ENGINEER Karandikar Laboratories Pvt. Ltd.



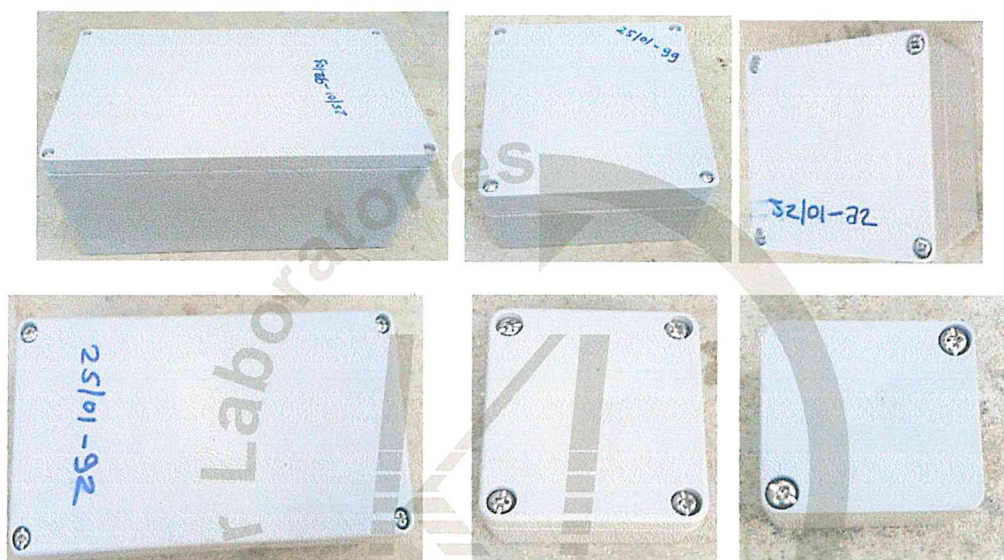
SAMPLE DESCRIPTION

Product Name: MM AXL Series of Aluminium Enclosure

Drawing No: MM-AXL-WE

Model : AXL Series

Serial No : ----



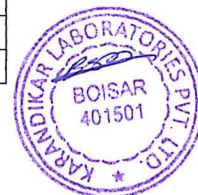
Photographs of EUT

Sr. No	Standard & Customer Requirements	Test Name	Page No
1	IEC 60079-0:2017	Impact Test	03

AXL Series of Aluminium Enclosures

Sr.No.	Dimension L X W X H in mm	Model Number
1	45 X 50 X 30	MM AXL B 01
2	64 X 58 X 34	MM AXL B 02
3	64 X 98 X 34	MM AXL B 03
4	80 X 75 X 57	MM AXL B 04
5	80 X 125 X 57	MM AXL B 05
6	80 X 175 X 57	MM AXL B 06
7	80 X 250 X 57	MM AXL B 07
8	100 X 100 X 81	MM AXL B 08
9	120 X 122 X 81	MM AXL B 09

Sr.No.	Dimension L X W X H in mm	Model Number
10	120 X 122 X 91	MM AXL B 10
11	140 X 140 X 91	MM AXL B 11
12	160 X 160 X 91	MM AXL B 12
13	180 X 180 X 101	MM AXL B 13
14	120 X 220 X 81	MM AXL B 14
15	120 X 220 X 91	MM AXL B 15
16	160 X 260 X 91	MM AXL B 16
17	230 X 400 X 181	MM AXL B 17



1. Test Name: Impact Test

i. **Test Purpose:** To verify that a unit can withstand a specified impact.

ii. **Test Procedure:**

Sr. No.	Procedure	Remark
1	Before test EUT shall be visually inspected.	Followed
2	Select the appropriate type of impact head and impact energy level as specified in the Standard.	Followed
3	Before each test, check that the surface of the impact head is in good condition as specified in the Standard.	Followed
4	weakest points of the enclosure shall be selected.	Followed
5	Impact test shall be conducted at 7J using impact head of 1kg dropped vertically from a height 0.7m.	Followed
6	Point of impact: 1. surface on body 2. on top cover 3. joint between top cover & body 4. on locking arrangement & on hinges.	Followed
7	Impact head was removed only after it came to rest.	Followed
8	Acceptance Criteria: Samples withstood the impact without visual evidence of damage.	Followed

iii. **Equipment Used :**

Equipment name	Equipment Id. No./Sr. No.	Re-calibration Date
Impact Guide Tube	K&A 1170-18A	N/A
Impact Head Bob	K&A 1170-18	09.12.2025

iv. **Observation :**

Ambient Temperature: 29°C & Relative Humidity: 58%RH

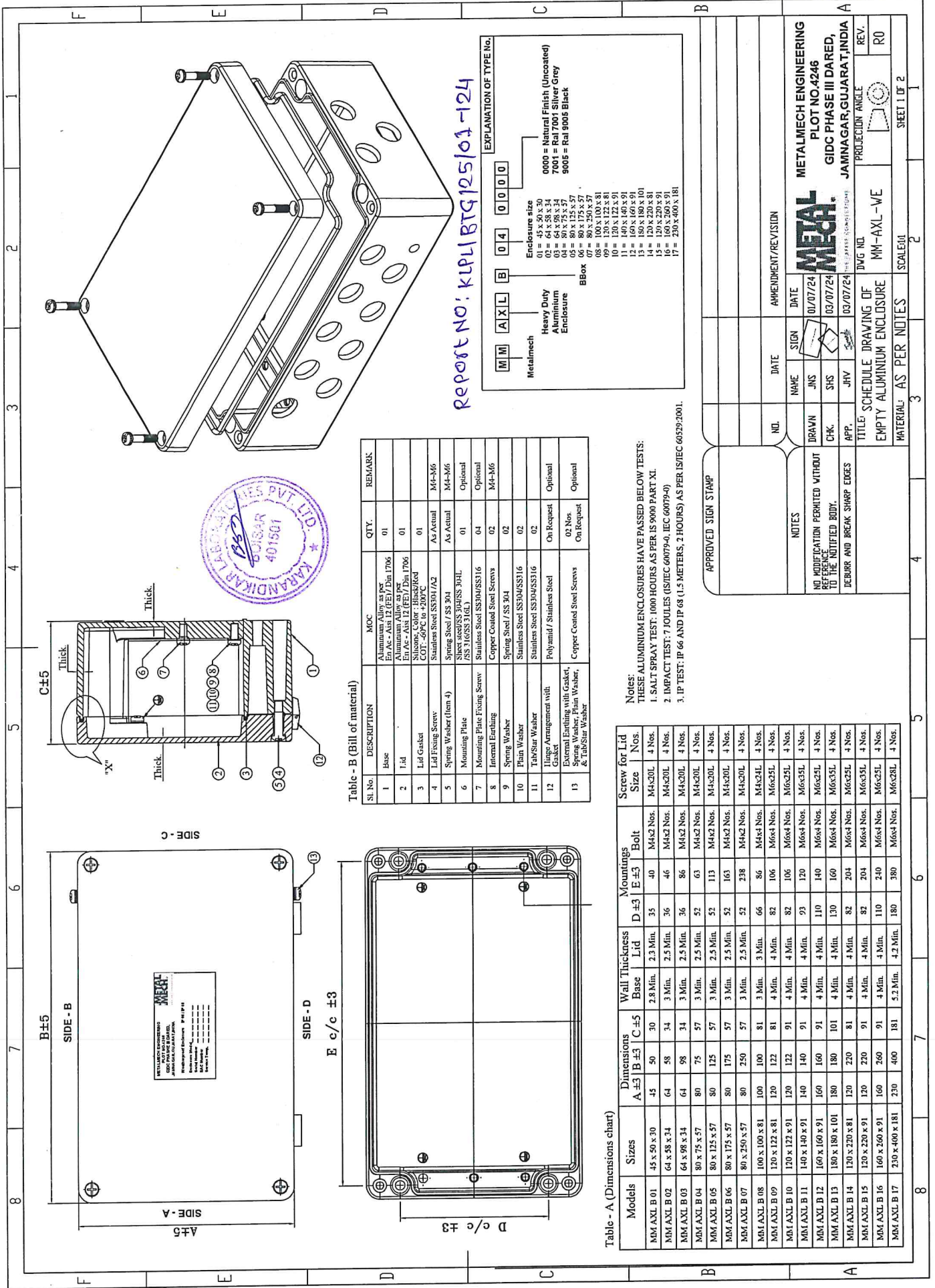
Test start on: 05.02.2025 & Test completed on: 05.02.2025

No visual damage was observed on the aluminium enclosures.

v. **Conclusion:** EUT withstood the impact(s) applied without visual evidence of damage.



End of the Test Report



REPORT NO: KLPL BTG125101-124

EXPLANATION OF TYPE NO.	
[M] [M]	Metalmach
[A] [X] [L]	Heavy Duty Aluminium Enclosure
[B] [0] [0] [0] [0]	Enclosure size
01 = 45 x 50 x 30	0000 = Natural Finish (Uncoated)
02 = 64 x 58 x 34	7001 = Rail 7001 Silver Grey
03 = 64 x 98 x 34	9005 = Rail 9005 Black
04 = 80 x 75 x 37	
05 = 80 x 125 x 57	
06 = 80 x 175 x 57	
07 = 80 x 250 x 57	
08 = 100 x 100 x 81	
09 = 120 x 122 x 81	
10 = 120 x 122 x 91	
11 = 140 x 140 x 91	
12 = 160 x 160 x 91	
13 = 180 x 180 x 101	
14 = 120 x 220 x 81	
15 = 120 x 220 x 91	
16 = 160 x 260 x 91	
17 = 230 x 400 x 181	

APPROVED SIGN STAMP

NOTES		DATE		SIGN		NAME	
NO MODIFICATION PERMITTED WITHOUT REFERENCE TO THE NOTIFIED BODY.		01/07/24		JMS		JMS	
DEBURR AND BREAK SHARP EDGES		03/07/24		SHS		SHS	
		03/07/24		JHV		JHV	
TITLE: SCHEDULE DRAWING OF EMPTY ALUMINUM ENCLOSURE		JWG NO.		MM-AXL-WE		REV. R0	
MATERIAL: AS PER NOTES		SCALE: 1:1		SHEET 1 OF 2			

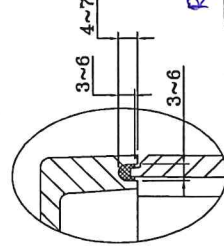
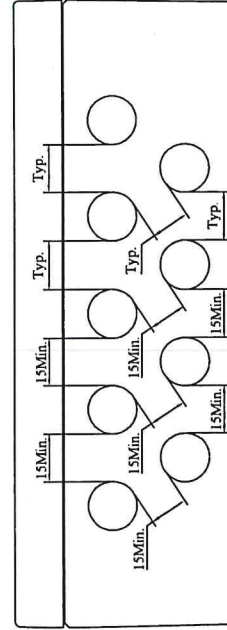
METALMECH ENGINEERING
 PLOT NO. 4246
 GIDC PHASE III DARED,
 JAMNAGAR, GUJARAT, INDIA

METALMECH

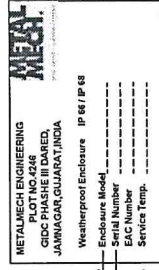
Cable Entry Details : Table - C

Sr. No.		Maximum Nos. of Cable Entries on each side of enclosure											
		MM AXL B 01		MM AXL B 02		MM AXL B 03		MM AXL B 04		MM AXL B 05		MM AXL B 06	
		Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C
01	Max. upto M12 or 1/4" NPT	01 No.	01 No.	01 No.	01 No.	01 No.	01 No.	01 No.	01 No.	02 Nos.	02 Nos.	02 Nos.	02 Nos.
02	Max. upto M16 or 3/8" NPT	-	-	-	-	-	-	01 No.	01 No.	01 No.	01 No.	01 No.	01 No.
03	Max. upto M20 or 1/2" NPT	-	-	-	-	-	-	01 No.	01 No.	02 Nos.	02 Nos.	01 No.	01 No.
04	Max. upto M25 or 3/4" NPT	-	-	-	-	-	-	-	-	-	-	01 No.	01 No.
05	Max. upto M32 or 1" NPT	-	-	-	-	-	-	-	-	-	-	01 No.	01 No.
06	Max. upto M40 or 1 1/4" NPT	-	-	-	-	-	-	-	-	-	-	-	-

Sr. No.		Maximum Nos. of Cable Entries on each side of enclosure											
		MM AXL B 10		MM AXL B 11		MM AXL B 12		MM AXL B 13		MM AXL B 14		MM AXL B 15	
		Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C	Side B/D	Side A/C
01	Max. upto M12 or 1/4" NPT	04 Nos.	04 Nos.	06 Nos.	04 Nos.	05 Nos.	05 Nos.	07 Nos.	05 Nos.	02 Nos.	02 Nos.	11 Nos.	03 Nos.
02	Max. upto M16 or 3/8" NPT	03 Nos.	02 Nos.	04 Nos.	02 Nos.	03 Nos.	03 Nos.	07 Nos.	05 Nos.	02 Nos.	02 Nos.	11 Nos.	03 Nos.
03	Max. upto M20 or 1/2" NPT	03 Nos.	02 Nos.	03 Nos.	02 Nos.	02 Nos.	02 Nos.	04 Nos.	03 Nos.	01 No.	01 No.	06 Nos.	02 Nos.
04	Max. upto M25 or 3/4" NPT	02 Nos.	01 No.	02 Nos.	01 No.	02 Nos.	02 Nos.	03 Nos.	02 Nos.	01 No.	01 No.	05 Nos.	02 Nos.
05	Max. upto M32 or 1" NPT	01 No.	01 No.	02 Nos.	01 No.	02 Nos.	02 Nos.	02 Nos.	02 Nos.	03 Nos.	01 No.	04 Nos.	01 No.
06	Max. upto M40 or 1 1/4" NPT	-	-	-	-	01 No.	01 No.	02 Nos.	01 No.	03 Nos.	-	03 Nos.	01 No.
07	Max. upto M50 or 1 1/2" NPT												
08	Max. upto M63 or 2" NPT												
09	Max. upto M75 or 2 1/2" NPT												
10	Max. upto M90 or 3" NPT												
11	Max. upto M100 or 3 1/2" NPT												

Detail "x"
Tongue & Groove Arrangement

Report No: KLPLRKG/25/01-124



Self adhesive Name Plate Sticker

APPROVED SIGN STAMP

NOTES		NO.	DATE	AMENDMENT/REVISION	
NO MODIFICATION PERMITTED WITHOUT REFERENCE TO THE NOTIFIED BODY.		DRAWN	JMS	DATE	01/07/24
DEBURR AND BREAK SHARP EDGES		CHKD	SHS		03/07/24
		APP.	JHV		03/07/24
TITLE: SCHEDULE DRAWING OF EMPTY ALUMINIUM ENCLOSURE		DWG. NO.		MM-AXL WE	
MATERIAL: AS PER NOTES		SCALE: 1:1		SHEET 2 OF 2	

Amateur