

Laboratory Test Report
Cable management - Cable tray systems and cable ladder systems

Test Report No. ITC/TEST/NN/2212/02-D
Discipline..... Electrical
Group..... Wiring and Accessories
Date of issue..... 01-02-2023
Sample date in..... 17-12-2022
Date of Performance..... 18-12-2022 To 27-01-2023
Applicant..... Mr. Jatin Timbadia
Customer..... **Parmar Industries**
GAT NO.13 & 20 SAHAJPUR INDUSTRIAL AREA
VILLAGE-SHAJAPUR TAL - DAUND DIST, Pune -
Solapur Rd, Pune, Maharashtra 412202(INDIA)

Sample description..... Cable ladder
Sample Condition..... OK
Customer Reference..... N/A
Trade mark / Manufacturer..... Parmar Industries
Model / Type / Reference..... N/A
Ratings..... 300mm(W)*100mm(H)*2500mm(L)*2mm(Thk)
Test method(s)..... Safe working load test has been performed as per
customer specification using test method IEC 61537

Overall verdict

Pass ☒
Fail ☐

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Possible test case verdicts:


- Test case does not apply to the test object.....N/A
- Test object meets the requirement.....P (Pass)
- Test object does not meet the requirement.....F (Fail)
- Test case does not evaluated to the test object..... NE

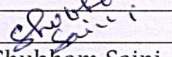
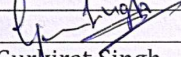
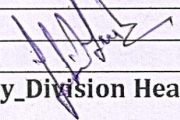
General remarks:

- "See enclosure##" refers to additional information related to this report in the annexes section.
- "See table ##" refers to a table appended to this report in the annexes section.
- "See figure ##" refers to an image, picture or drawing appended to this report in the annexes section
- "See *" highlights those clauses which are not in our NABL Scope.
- Throughout this report, a comma is used as decimal separator.
- Overall Verdict is applicable to the clauses against which Testing has been performed, not to the clauses where it is N/A (Not Applicable).
- The results of this report is against the sample received through the customer only.
- The laboratory is not responsible for the authenticity of the data / documents submitted by the customer.
- The laboratory will perform the testing at ambient temperature unless Environmental Conditions are not specified in the Testing Standard.
- Measurement uncertainty will be mentioned in the Table i.e Test Details.
- If Test Verdict has been given in this Report. The Decision Rule as per ILAC G8:2009 where guard Value ($W=1u$) will be made ($TL=AL+W$), whether Decision Rule will only be applied if the measured value is within the Guard Band. In such case Reference of this clause will be given by marking.
- The list of documents submitted by the customer is mentioned as under:

List of Documents	Remarks
Marking Plate of DUT	N/A
Ratings of DUT	N/A
Labels of DUT	N/A
Instruction Manual	N/A
Circuit Diagram	N/A
General Assembly Diagram	N/A
Bill of Material/ Critical Component List	N/A
Please specify, if any other	-

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General Product Information:
Cable Ladder Dimensions: 300mm(W)*100mm(H)*2500mm(L)*2mm(Thk)
Pictures of Tested Sample


 Shubham Saini Testing Engineer	 Gurkirat Singh Reviewed By_Testing Supervisor	 Sahil Singh Authorized By_Division Head
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IEC 61537			
Clause	Requirement - Test	Results - Remarks	Verdict
10	Mechanical properties		
10.4	Test for SWL of cable tray lengths and cable ladder lengths mounted in the horizontal plane running horizontally on a single span installation		-
	The test is carried out on cable tray length(s) or cable ladder length(s) to verify the declared SWL when used as a single beam over a single span with the cable tray or cable ladder in the flat and horizontal plane.	In Compliance	P
	The samples shall be placed on fixed, rigid supports a and b which shall be horizontal and level with a width of 45 mm \pm 5 mm as shown in Figure 4.	Refer Annexure A	-
	The test shall be carried out in accordance with 10.2.	In Compliance	P
	The practical mid-span deflection at the SWL shall not exceed 1/100 th of the span.	Refer table A	-

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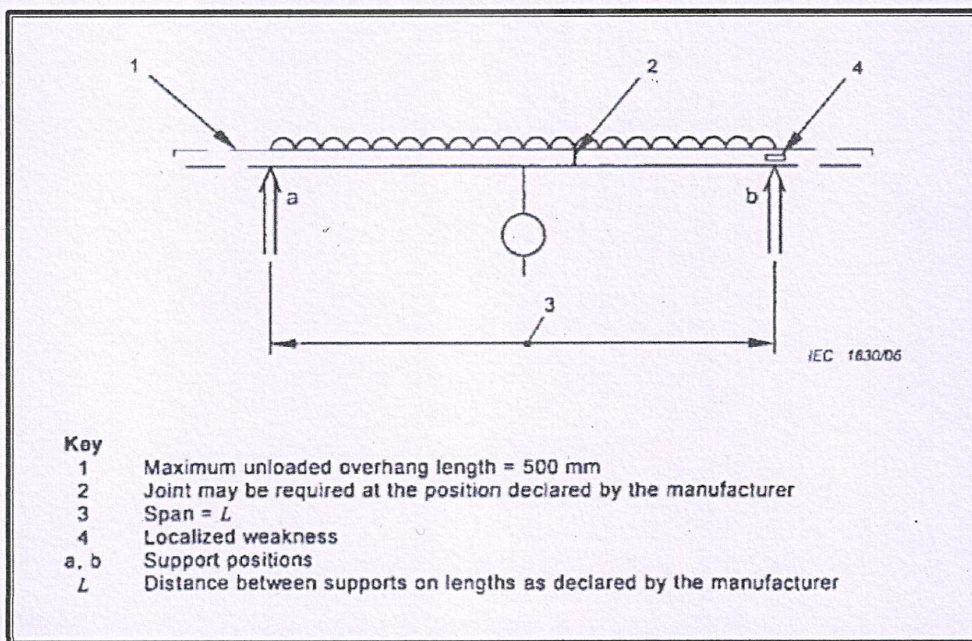
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IEC 61537			
Clause	Requirement - Test	Results - Remarks	Verdict

Annex - A

Safe Working Load (SWL) Test as per Cl.no. 10.4

Test Procedure:



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IEC 61537			
Clause	Requirement - Test	Results - Remarks	Verdict

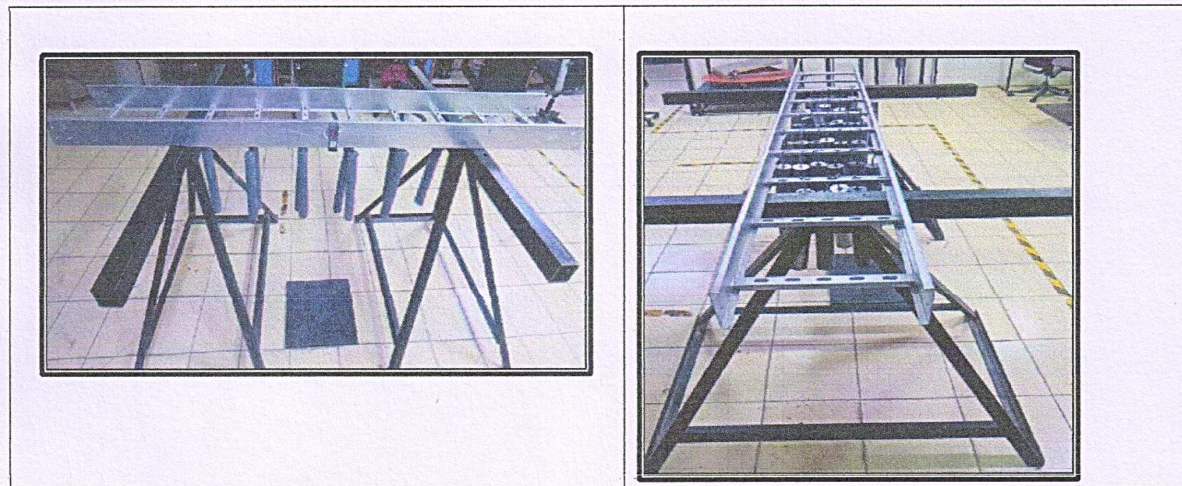
Table: A

Safe working Load (SWL):

Sr.no.	Size (in mm)	Length (in mm)	Support Span (in mm)	Load (Kg) (UDL)	Deflection (in mm)	Remark
1	2500 mm x 1200 mm x 100mm	2500	1500	25	1mm	Measured Deflection is within limit
2	2500 mm x 1200 mm x 100mm	2500	1500	50	3mm	
3	2500 mm x 1200 mm x 100mm	2500	1500	75	4mm	
4	2500 mm x 1200 mm x 100mm	2500	1500	100	6mm	
5	2500 mm x 1200 mm x 100mm	2500	1500	125	7mm	
6	2500 mm x 1200 mm x 100mm	2500	1500	150	9mm	
7	2500 mm x 1200 mm x 100mm	2500	1500	175	13mm	
8	2500 mm x 1200 mm x 100mm	2500	1500	200	16mm	

Note: UDL: Uniform distributed Load, Kg: Kilogram, mm : Millimetre.

SWL Photograph



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