

# Test Report

No.: 64.190.23.0413.01-00

Dated: 2023-07-27

**Applicant:** GUANGXI EVENT-BROTHER STAGING PRODUCTIONS CO.,LTD.  
**Address:** Room.909&911,Zonghe Building,Jianlong Industrial Zone,No.96 Jinkai Road,Nanning City,Guangxi,China  
**Sample Submission:** The sample was submitted by applicant and identified.  
**Product Name:** Aluminum truss  
**Order No.:** /  
**Identification/Style No.:** HD-520  
**Manufacturer:** EVENT-BROTHER(FOSHAN)STAGING EQUIPMENT MANUFACTURING CO.,LTD  
**Country of Origin:** China  
**Buyer:** /  
**Export to:** /  
**Receipt Date of Sample:** 2023-07-20  
**Date of Testing:** From 2023-07-20 to 2023-07-27  
**Test Result:** Refer to the data listed in following pages

## Test Specification(s) or Test Item(s):

1. Loading test according to client's requirements

## Conclusions:

See Test Results

Hardline Laboratory

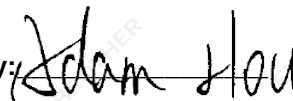
TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch Testing Center

Tested By:



Steven Pan  
Project Handler

Reviewed By:



Adam Hou  
Designated Reviewer



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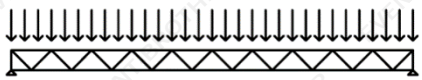


**Description of the test subject:**

<b>1</b>	<b>Product Description</b>	<b>Aluminum truss</b>	
<b>2</b>	<b>Dimensions</b>	Overall Dimension:	17m L x 520mm W x 520mm H
		Main tube (mm):	Dia. 50 x T 4.0
		Vice tube in horizontal direction (mm):	Dia. 50 x T 2.0/ Dia. 30 x T 2.0
		Terminal vice tube (mm):	Dia. 50 x T 3.0
		Brace tube (mm):	Dia. 30 x T 2.0
		Triangular aluminum plate (mm):	155 x T 12.0
Sample photo(s)			
<p>The photograph shows a long, straight line of aluminum trusses extending into the distance in a large indoor space, likely a warehouse or exhibition hall. The trusses are made of silver-colored metal tubes connected by triangular gusset plates. In the foreground, there's some clutter like boxes and bags. A white label is stuck to one of the trusses, which contains the following information:  <b>EVENT-BROTHER</b>          MODEL NO.: EB-5200          Series: Roll Truss          Size (mm): 520x520          Joint Length: 600          Distributed Loading weight: 120kg/m  <b>Material:</b>          Main tube: 50x50x4mm AL6061-T6          GUSSET: 155x12mm AL6061-T6          DATE: JULY 2021          P.B.L. 10 years warranty</p>			

### Test Results

#### 1. Loading test according to client's requirements

Test item	Requirement ~ Test	Measuring result ~ Remark	Verdict
Loading test	<p>The nominal loads were applied and the deflections were measured.</p> <p>Uniformly distributed load (UDL)</p> <p>The truss was supported by two rigid frames at two ends to reach a certain span tested according to Figure 1.</p> <p>Then the specified nominal load was uniformly distributed on the truss.</p> <p>Measured the deflection under this loading condition.</p> <p>Check if any damage during and after test.</p> <p>Load</p>  <p>Figure 1</p>	<p>Details see the following table 1 and table 2</p>	/

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Table 1

Item	Test Data
Span, (m)	16
Uniformly distributed load, (kg)	1200
Test results	No visible damage was found during and after test.

Remark: Measuring points are marked every one meter.

Loading point	1	2	3	4	5	6	7	8
Distance from bottom of truss to the ground prio to Test, (mm)	1091	1092	1091	1090	1086	1083	1085	1086
Distance from bottom of truss to the ground in loading Test, (mm)	1061	1036	1010	995	975	956	953	950
Measured deflection, (mm)	30	56	81	95	111	127	132	136

Loading point	9	10	11	12	13	14	15
Distance from bottom of truss to the ground prio to Test, (mm)	1085	1080	1075	1072	1083	1089	1094
Distance from bottom of truss to the ground in loading Test, (mm)	953	957	965	979	1005	1035	1063
Measured deflection, (mm)	132	123	110	93	78	54	31

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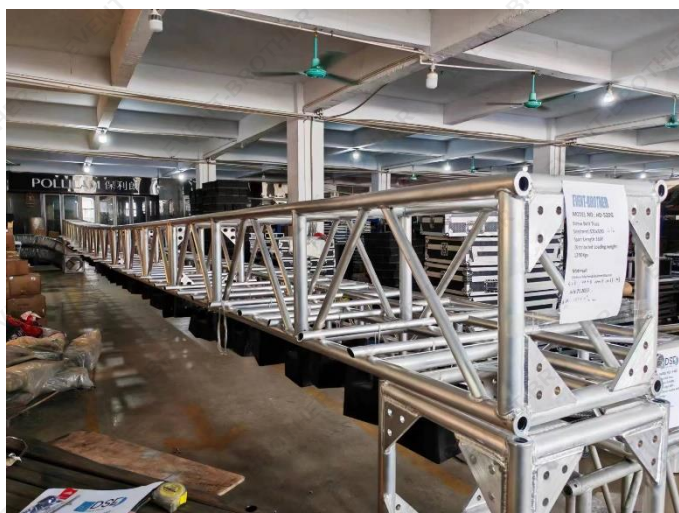
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Table 2

Span, (m)	Uniformly distributed load, (kg)	Central deflection, (mm)
16	1200	134

## TESTING PHOTO



## Remark:

1. The test results exclusively based on the submitted sample.

-End of Test Report-