Choose certainty.
Add value.

Technical Report No. 64.190.12.00115.01A

Rev. 00
Dated 2012-05-20

Client:	Eastern sports industrial co.,ltd No.2 Wayaobei Industrial Zone,Wulian Community,Longcheng Street,Longgang District,Shenzhen,China
Test subject:	Product: TRUSS Type: ES-SQ29, ES-BSQ305, ES-SQ40
Test specification:	According to the client's requirements. Details see Clause 3.
Purpose of examination:	Test according to the test specification.
Test result:	Details see the test result in Clause 3.

1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use:
Truss

1.2 Technical Data

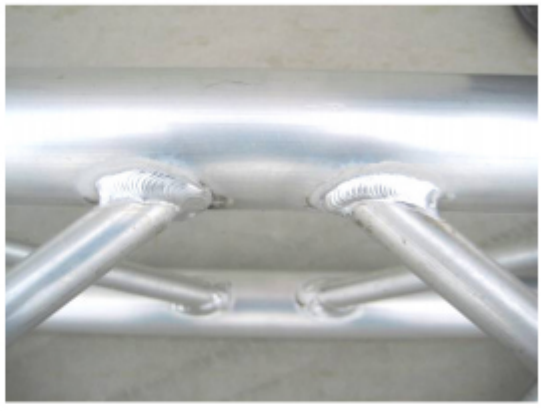
ES-SQ29
Max. length of single truss: 3000 mm
Net Weight: 20,0 kg (3000 mm)
Material: aluminium alloy
Main tube: Ø50 x 3 mm
Brace tube: Ø20 x 2 mm

ES-BSQ305
Max. length of single truss: 3046 mm
Net Weight: 23,0 kg (3046 mm)
Material: aluminium alloy
Main tube: Ø50 x 3 mm
Brace tube: Ø25 x 2 mm

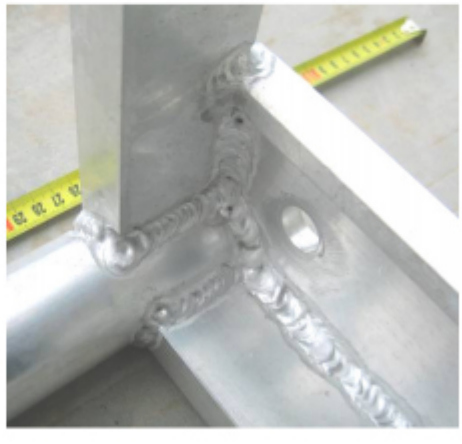
ES-SQ40
Max. length of single truss: 3000 mm
Net Weight: 22,6 kg (3000 mm)
Material: aluminium alloy
Main tube: Ø50 x 3 mm
Brace tube: Ø25 x 2 mm

1.3 Product Photos

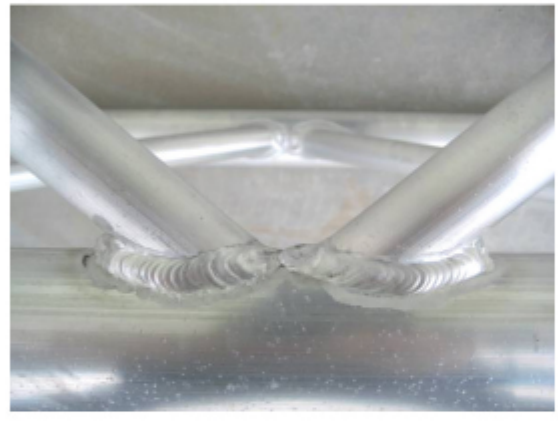
ES-SQ29
Single truss with max. length (3000 mm)



ES-BSQ305
Single truss with max. length (3046 mm)



ES-SQ40
Single truss with max. length (3000 mm)



2 Order

2.1 Date of Purchase Order

2012-04-30

2.2 Receipt of Test Sample

2012-05-18

2.3 Date of Testing

From 2012-05-18 to 2012-05-20

2.4 Points of Non-compliance or Exceptions of the Test Procedure

NA

3 Test Results

Client's requirements:
Measure the sample's deflection under specified loads. The ways in which the load applied are concentrically placed and uniformly distributed respectively.

Test method:
The sample is supported by two rigid frames at two ends to reach a certain span tested according to Figure 1. The load is then concentrically placed and the deflection under this loading condition is measured accordingly.

The sample is supported by two rigid frames at two ends to reach a certain span tested according to Figure 2. The load is then uniformly distributed on the sample and the deflection under this loading condition is measured accordingly.

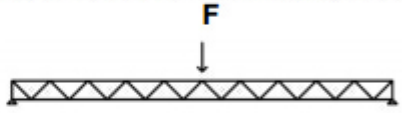


Figure 1

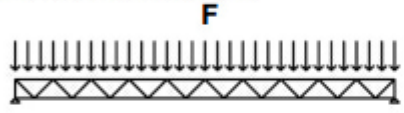


Figure 2

Results:

ES-SQ29

Span (m)	Concentrated load (kg)	Deflection (mm)	Uniformly distributed load (kg)	Deflection (mm)
8	500	40	900	45
10	400	60	800	70
12	350	90	700	100
14	300	130	600	150
16	250	153	500	170

ES- BSQ305

Span (m)	Concentrated load (kg)	Deflection (mm)	Uniformly distributed load (kg)	Deflection (mm)
8	500	53	1000	68
10	400	75	800	105
12	300	70	600	95
14	250	115	500	160
16	200	150	400	175

ES-SQ40

Span (m)	Concentrated load (kg)	Deflection (mm)	Uniformly distributed load (kg)	Deflection (mm)
10	700	50	1600	75
12	600	70	1200	85
14	500	95	1000	128
16	400	120	850	145
18	300	125	700	180

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