



Product Service

Technical Report No. 028-71380885-3
dated 2011-01-07

**Choose certainty.
Add value.**

Client: Jensen Swing Productions Inc.
Wheatlands Rd 9327
Ciraolo, Charvet
US 92071 Santee

Manufacturing location: No information available

Test object: Swing seat (cradle seat)
(no item number available)
Color blue, weight (incl. connector) 1,80 Kg
EN 1176-2:2008 paragraph 4.6 impact attenuation of seats

Test specifications:

Purpose of examination: Test of the impact attenuation and average surface compression of a swing seat for playground swings

Test result: The seat complies with the requirement EN 1176-2:2008 4.6

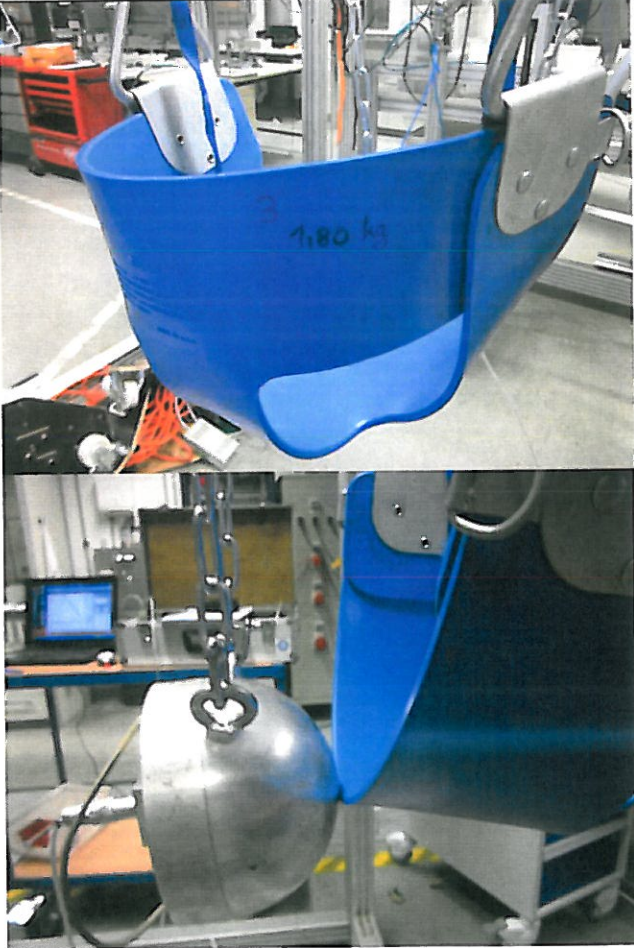
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1 Description of the test subject

1.1 Function

Swing seats for public use
Cradle seat

1.2 Technical data

Item	Weight	Picture
Seat 3	1,80 kg	



Product Service

2 Order

2.1 Date of Purchase Order

14/09/2010

2.2 Date of receipt of test subject / Sampling date

13/12/2010

3 Test procedure

The swing seat was tested according to the requirements of EN 1176-2:2008 sec. 4.6
The seat was suspended with 6 mm standard chains length 180 cm .
The seat was elevated to a position of 60° angle of the suspending members, and then released freely. The seat hit the test ball horizontally in line with the center of gravity.
The impact is repeated 10 times, the average acceleration is calculated.
The test ball was covered with carbon copy paper to receive the dimension of the contact surface between seat and test ball.

3.1 Test equipment

Testball	
Manufacturer:	HE-Datentechnik
Type	HIC@The Beach 011C
Measuring board	
manufacturer	National Instruments
Type	NI DAQ USB 9215A
Tri-axial accelerometer	
manufacturer:	Entran
Type	EGCS3-A-500

4 Results

Seat	Weight	Acceleation (max. 50g)	contact area	ave. compression (max. 90 N/cm ²)
3 (blue)	1,80 kg	7,8 g	10 cm ²	14 N/cm ²



Product Service

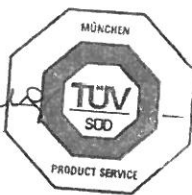
5 Remarks:

None

6 Summary:

Seat 3 fulfills the requirements for maximum acceleration, and the average compression

Project Manager

F. Danner The logo for TÜV SÜD with the handwritten signature 'F. Danner' written across it. The logo contains the text 'MÜNCHEN' at the top and 'PRODUCT SERVICE' at the bottom.

Dipl.-Ing. (FH) Franz Danner
MUC TRF 4