



Product Service

Technical Report No. 028-71375881-6
dated 2010-10-22

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

Manufacturing location: No information available

Test object: Swing seat S 180

Test specifications: EN 1176-2:2008 paragraph 4.6 impact attenuation of seats

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

Test result: See chapter 4


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1 Description of the test subject

1.1 Function

Swing seats for public use

1.2 Technical data

Item	Weght	Picture
Seat S180	1,01 kg	

2 Order

2.1 Date of Purchase Order

29/07/2010

2.2 Date of receipt of test subject / Sampling date

06/09/2010

3 Test procedure

The swing seat was tested according to the requirements of EN 1176-2:2008 sec. 4.6
The seat S180 was fixed to a distance of 400 mm between the fixation points of the shackles to obtain a practical situation.

The seat was suspended with 6 mm standard chains length 240 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.



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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	Acceleration (max. 50g)	contact area	ave. compression (max. 90 N/cm ²)
S180	1,01 kg	10,2 g	2,31 cm ²	44 N/cm ²

5 Remarks:

None

6 Summary:

Seat S180 fulfills the requirements for maximum acceleration and average compression

Project Manager

Checked by

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



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Pictures of the test

