

Test Report

No.: GZHGR2010006315

Date: MAY 13, 2010

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FREE WHEELCHAIR MISSION
9341 IRVINE BLVD. IRVINE, CALIFORNIA, USA 92618

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : WHEELCHAIRS
SGS Ref No. : SHD201006095
Item No. : GEN-2
Order No. : 1 TEST
Buyer : FREE WHEELCHAIR MISSION
Supplier : SHENGLI
Manufacturer : SHENGLI
Exported to : DEVELOPING COUNTRIES
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : MAR 19, 2010
Test Performing Date : MAR 19, 2010 TO MAY 12, 2010
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Co., Ltd.



William Cao
Supervisor

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I Test Conducted: Base on ISO 7176-16: 1997 Wheelchairs - Part 16: Resistance to ignition of upholstered parts-Requirements and test methods

This test was conducted as per ISO 8191-1:1987 Furniture – Assessment of the ignitability of upholstered furniture Part 1 Ignition source: smouldering cigarette and ISO 8191-2:1988 Furniture – Assessment of the ignitability of upholstered furniture Part 2 Ignition source: match – flame equivalent.

1. Conditioning

Prior to testing the sample was,

Conditioned at least 16 hours in an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5%

At time of testing: Temperature between 10°C ~ 30°C and Relative humidity between 15% ~ 80%

2. Test results

1) Foam in Yellow & Fabric

i) ISO 8191-1:1987 Smouldering Cigarette Test

Clause 4.1 Progressive Smouldering Cigarette Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and requires active extinction;	NO	NO
b) Any test assembly that smoulders until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly that smoulders to the extremities of the specimen ,viz upper or lower margins , either side or to its full thickness, within the duration of the test;	NO	NO
d) Any test assembly that, on final examination shows evidence of charring other than discoloration, for more than 100mm in any direction apart from upwards from the closest part of the original position of source.	NO	NO
Clause 4.2 Flaming Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and requires active extinction;	NO	NO
b) Any test assembly that burns until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly on which any flame front reaches the lower margin , either side or passes through its full thickness within the duration of the test;	NO	NO

Clause 10.3 Final examination	NO		
On final examination whether progressive smouldering is observed when dismantle assembly and examine internally			
Extent of damage of horizontal	Width (mm)	8	8
	Length (mm)	14	13
	Depth (mm)	3	2

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Test duration: 1 hour

Sub-Conclusion:

[] Ignition Occurred (I); [] Ignition did not occur (NI)

ii) ISO 8191-2:1988 Flame Test

Clause 4.1 Progressive Smouldering Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;	NO	NO
b) Any test assembly that smoulders until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly that smoulders to the extremities of the specimen, viz upper or lower margins, either side or to its full thickness, within the duration of the test;	NO	NO
d) Any test assembly that, on final examination, shows evidence of charring other than discoloration, for more than 100mm in any direction apart from upwards from the closest part of the original position of source.	NO	NO
Clause 4.2 Flaming ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;	NO	NO
b) Any test assembly that burns until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly on which any flame front reaches the lower margin , either side or passes through its full thickness within the duration of the test;	NO	NO

If progressive smouldering ignition or flaming ignition of the upholstery components is observed after 120s from the burner tube, up to 1 h after the application of the ignition source	NO	NO
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Clause 10.3 Final examination	NO		
On final examination whether progressive smouldering is observed when dismantle assembly and examine internally			
Extent of damage of horizontal	Width (mm)	23	21
	Length (mm)	26	25
	Depth (mm)	2	3

Sub-Conclusion:

[] Ignition Occurred (I); [] Ignition did not occur (NI)

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2) Foam in Gray & Fabric

i) ISO 8191-1:1987 Smouldering Cigarette Test

Clause 4.1 Progressive Smouldering Cigarette Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and requires active extinction;	NO	NO
b) Any test assembly that smoulders until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly that smoulders to the extremities of the specimen ,viz upper or lower margins , either side or to its full thickness, within the duration of the test;	NO	NO
d) Any test assembly that, on final examination shows evidence of charring other than discoloration, for more than 100mm in any direction apart from upwards from the closest part of the original position of source.	NO	NO
Clause 4.2 Flaming Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and requires active extinction;	NO	NO
b) Any test assembly that burns until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly on which any flame front reaches the lower margin , either side or passes through its full thickness within the duration of the test;	NO	NO

Clause 10.3 Final examination	NO		
On final examination whether progressive smouldering is observed when dismantle assembly and examine internally			
Extent of damage of horizontal	Width (mm)	9	8
	Length (mm)	13	12
	Depth (mm)	2	2

Test duration: 1 hour

Sub-Conclusion:

[] Ignition Occurred (I); [√] Ignition did not occur (NI)

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ii) ISO 8191-2:1988 Flame Test

Clause 4.1 Progressive Smouldering Ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;	NO	NO
b) Any test assembly that smoulders until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly that smoulders to the extremities of the specimen, viz upper or lower margins, either side or to its full thickness, within the duration of the test;	NO	NO
d) Any test assembly that, on final examination, shows evidence of charring other than discoloration, for more than 100mm in any direction apart from upwards from the closest part of the original position of source.	NO	NO
Clause 4.2 Flaming ignition	1 st	2 nd
a) Any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;	NO	NO
b) Any test assembly that burns until it is essentially consumed within the test duration;	NO	NO
c) Any test assembly on which any flame front reaches the lower margin , either side or passes through its full thickness within the duration of the test;	NO	NO

If progressive smouldering ignition or flaming ignition of the upholstery components is observed after 120s from the burner tube, up to 1 h after the application of the ignition source	NO	NO
--	----	----

Clause 10.3 Final examination	NO		
On final examination whether progressive smouldering is observed when dismantle assembly and examine internally	NO		
Extent of damage of horizontal	Width (mm)	19	17
	Length (mm)	24	23
	Depth (mm)	3	2

Sub-Conclusion:

[] Ignition Occurred (I); [] Ignition did not occur (NI)

Remark:

This test was subcontracted to SGS other qualified subcontractor. SGS Ref No.: AJD201001161.

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II .Test Conducted: Base on ISO 7176-8:1998 Wheelchairs - Part 8: Requirements and test methods for static, impact and fatigue strengths**1. Scope**

This part of ISO 7176 specifies requirements for static, impact and fatigue strength of wheelchairs including scooters intended for users whose mass does not exceed 100 kg. It specifies the test methods for determining whether the requirements have been met. It also specifies requirements for disclosure of the test results.

The test methods may also be used to verify manufacturers' claims that a product exceeds the minimum requirements of this part of ISO 7176.

A reference configuration is specified for adjustable wheelchairs and scooters to enable test results to be used for the comparison of performance.

It applies to occupant- and attendant-propelled manual wheelchairs and electrically powered wheelchairs intended to provide indoor and outdoor mobility for people with disabilities. For electrically powered wheelchairs, it applies to those with a maximum speed of not more than 15 km/h where not more than two wheels are driven and which have three or more wheels located on two parallel, transverse axes.

The application of this part of ISO 7176 is limited to wheelchairs with a maximum occupant mass of 100 kg because this is the maximum mass of test dummy available in ISO 7176-11. Further work is needed to investigate the effects of the lifestyle of people with larger body masses.

2. Test preparation for wheelchair

When a particular test procedure has specific set-up requirements, use the set-up procedure specified in that particular test procedure. All other set-up procedures shall be carried out in accordance with clause 6.

3. Sequence of tests

The sequence of tests shall be as follows.

4.1 Static strength tests (clause 8)

The static strength tests may be performed in any order.

4.2 Impact strength tests (clause 9)

The impact strength tests may be performed in any order.

4.3 Two-drum fatigue test (clause 10)**4.4 Kerb drop fatigue test (clause 10)**

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4. Test Results: Details shown as following table

<u>Clauses</u>	<u>Test Items</u>	<u>Results</u>
4	Requirements	---
4.1	Strength requirements	---
	When tested in accordance with clauses 8, 9 and 10, a single wheelchair shall meet all the following requirements at the conclusion of all the tests.	
	a) No component shall be fractured or have visible cracks.	
	b) No nut, bolt, screw, locking-pin, adjustable component or similar item shall have become detached after having been tightened, adjusted or refitted once. However, in addition, footrests may be adjusted after each of the two footrest impact tests.	Pass
	c) No electrical connector shall be displaced or disconnected.	Detail see
	d) All parts intended to be removable, folding or adjustable shall operate as described by the manufacturer.	table 1
	e) All power-operated systems shall operate as described by the manufacturer.	
	f) Handgrips shall not be displaced.	
	g) Any multiposition or adjustable component shall not be displaced from the preset position, except as permitted in 4.1b).	
	h) No component or assembly of parts shall exhibit deformation, free play or loss of adjustment that adversely affects the function of the wheelchair.	
4.2	Disclosure requirements	---
	Manufacturers shall disclose in their specification sheets, in the manner and sequence specified in ISO 7176-15, the following:	
	a) the model designation and/or any other information that will uniquely identify the wheelchair model;	---
	b) the mass of the test dummy used in the test;	
	c) whether the wheelchair meets the strength requirements of this part of ISO 7176.	

Table 1- Results of static, impact and fatigue strengths

<u>Clauses</u>	<u>Test Items</u>	<u>Results</u>
8	static strength	---
8.1	Principle	---
8.2	Wheelchair preparation	---
8.3	Selection of loading pad	---
8.4	Armrests: resistance to downward forces -- Test method	Pass

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<u>Clauses</u>	<u>Test Items</u>	<u>Results</u>
8.5	Footrests: resistance to downward forces -- Test method	Pass
8.6	Tipping levers -- Test method	NA
8.7	Handgrips -- Test method	Pass
8.8	Armrests: resistance to upward forces -- Test method	Pass
8.9	Footrests: resistance to upward forces -- Test method	Pass
8.10	Push handles: resistance to upward load -- Test method	Pass
8.11	Records	---
9	impact strength	---
9.1	Principle	---
9.2	Wheelchair preparation	---
9.3	Backrest: resistance to impact -- Test method	Pass
9.4	Handrim: resistance to impact - Test method	Pass
9.5	Castors: resistance to impact -- Test method	Pass
9.6	Footrests: resistance to impact -- Test method	---
9.6.1	General	---
9.6.2	Preparation	---
9.6.3	Lateral impact	Pass
9.6.4	Longitudinal impact	Pass
9.7	Front structure: resistance to impact -- Test method	---
9.7.1	Preparation	---
9.7.2	Frontal impact	NA
9.7.3	Offset impact	NA
9.8	Records	---
10	Fatigue tests	---

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<u>Clauses</u>	<u>Test Items</u>	<u>Results</u>
10.1	Principle	---
10.2	Preparation of test wheelchair for fatigue tests	---
10.3	Restraints of test dummy	---
10.4	Two-drum test	---
10.4.1	Test machine settings	---
10.4.2	Manual wheelchair tests	Pass
10.4.3	Preliminary current measurement for electric wheelchairs	NA
10.4.4	Electrical wheelchair tests	NA
10.5	Drop test	Pass

Remark:

- 1) This test was subcontracted to SGS other qualified subcontractor. SGS Ref No.: HL40317/2010.
- 2) NA – Not applicable.
- 3) NT – Not test as per client's request.

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III. Test Conducted: Base on ISO 7176-3:2003 Wheelchairs - Part 3: Determination of effectiveness of brakes

5. Scope

This part of ISO 7176 specifies test methods for the measurement of the effectiveness of brakes of manual wheelchairs and electrically powered wheelchairs, including scooters, intended to carry one person, with a maximum speed not exceeding 15 km/h. It also specifies disclosure requirements for the manufacturer.

6. Details of sample

Wheelchair height	: 962mm(maximum), 887mm(minimum)
Wheelchair length	: 1128mm(sample 1#), 1151mm(sample 2#)
Wheelchair width	: 722mm
Mass of the Wheelchair	: 19.80kg(sample 1#), 19.76kg(sample 2#)
Wheelchair type	: pneumatic type
Serial and Batch numbers	: NA
Method of operation	: manual operation

7. Test preparation for wheelchair

Prepare the test wheelchair as follows before commencing the sequence of tests.

- a) Set up the wheelchair with the test dummy as specified in ISO 7176-22 and add restraints to minimize movement. If a human test driver is used, set up the wheelchair as specified in ISO 7176-2 and with the driver in a position similar to that specified for the test dummy.

<u>Adjustable parameter</u>	<u>Value/position/measure</u>
Backrest angle	17.2°
Sear plane angle	12.9°
Castor stem angle	2°
Distance between the brake blocks and their contract surfaces	43mm
Calculated seat-to-back angle	94.3°
Dummy size	100kg
The mass of the driver and weights	NA
Dummy seat-to-back angle	92.7°

- b) For wheelchairs with adjustable brakes, adjust the brakes as specified by the manufacturer in the user manual or, if the manufacturer gives no specification for adjustment, adjust the brakes to give a maximum operating force as specified in this standard.

<u>Means of operation</u>	<u>Maximum operating force as specified in this standard N</u>	<u>Operating force as specified by manufacture N</u>
Hand	60±5	NA
Foot, push	100±10	NA
Foot, pull	60±5	NA
Finger	13.5±5	NA

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8. Test Results: Details shown as following table

<u>Clauses</u>	<u>Test Items</u>	<u>Results</u>
7	Brake performance	---
7.1	General	---
7.2	Parking brakes	Detail please see remark 1
7.3	Running brakes, normal operation	NA
7.4	Running brakes, operation by reverse command	NA
7.5	Running brakes, emergency operation	NA
8	Parking brakes fatigue	Pass

Remark:

- 1) When the wheelchair facing downhill, the wheel skidded at a angle of 11.9°
When the wheelchair facing uphill, the wheel skidded at a angle of 16.0°
- 2) The operating force of the brake can not be adjusted, and its actually operating force of parking brake is 142N.
- 3) NA – Not applicable.
- 4) NT – Not test as per client’s request.

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PHOTO APPENDIX



sample 1# (footrest of type A)



sample 1# (footrest of type A)



sample 1# (footrest of type A)



sample 1# (footrest of type A)

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sample 2# (footrest of type B)



sample 2# (footrest of type B)



sample 2# (footrest of type B)



sample 2# (footrest of type B)

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Photos below are from the report of AJD201001161



Fabric

Foam in Yellow

Foam in Gray

End of Report

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