



Mechanical & Hardgoods Lab

## TEST REPORT

Report No.: HL10296/2009  
Page: 1 of 3  
Date: Mar. 04, 2009

**SPAZIO CONCEPTS PTE LTD.**

32 Sungei Kadut Way, #03-03 Teambuild Industrial Building  
Singapore 728787.

The following merchandise was submitted and identified by the applicant as:

**Product Description:** Handrail  
**Style/Item No.:** GB 400-70cm  
**Manufacturer/Vendor:** SPAZIO CONCEPTS PTE LTD.

We have tested the submitted sample(s) as requested and the following results were obtained:

**Test Requested:**

For compliance with EN 12182:1999 Technical aids for disabled persons  
General requirements and test methods  
Clause No.: 13. Prevention of traps for parts of the human body  
16. Aid which support users  
18. Surfaces, corners and edges

**Test Method & Results:**

--- See attached sheets ---

**Received Date:** Jan. 24, 2009

**Testing Period:** Jan, 24, 2009 ~ Mar, 03, 2009

Signed for and on behalf of  
SGS Taiwan Ltd.

Benson Liao  
Supervisor

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**Test Result:** EN 12182:1999 Technical aids for disabled persons – General requirements and test methods

**13. Prevention of traps for parts of the human body**

**PASS**

Holes in and clearances between stationary parts that are accessible to the user and/or attendant during the intended use of an aid shall be as specified in Table 1

Table 1 Safe distance between stationary parts

To avoid	Safe distances for adults	Safe distance for children
Finger traps	Less than 8 mm or more than 25mm	Less than 5mm or more than 12 mm
Foot traps	Less than 35 mm or more than 100mm	Less than 25 mm or more than 45mm
Head traps	Less than 120 mm or more than 250 mm	Less than 60 mm or more than 250 mm
Genitalia traps	Less than 8 mm or more than 75 mm	Less than 8 mm or More than 75 mm

If the intended purpose of an aid cannot be met without a hazard caused by the size of holes and the clearance between moving parts, a warning and instructions on how to operate the aid safely shall be provided in the manufacturer's instructions.

**16. Aids which support users**

If an aid is intended to support a disabled person and/or an attendant, no part of the aid shall become detached, exhibit cracking, permanent deformation, loss of stability or any other failure when tested as following. After the test, the aid shall operate as intended by the manufacturer.

If an aid is intended to fold for transport and/or storage, it shall not fold when tested as following:

Position the support system in the least favorable position of intended use.

Apply a test load, equal to 1.5 times the maximum rated load intended by the manufacturer (including any accessories) with a tolerance of +5/-0%, to the support surface in the worst case position, in a manner that ensures that there is negligible dynamic loading.

Maintain the test load for between 60 s and 70s.

Remove the test load and inspect the aid for damage and satisfactory operation.

The maximum rated load intended by manufacturer: 100 kgf

Apply a 150 kgf test load

**Finding:** No damage or other failure was found after testing.

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Test Result: EN 12182: 1999 Technical aids for disabled persons General requirements and test methods

### 18. Surfaces, corners and edges

If not required for the intended function of an aid, all accessible edges, corners and surfaces shall be smooth and be free from burrs and sharp edges.

If not required for the intended function, aids shall not have projections. Where possible necessary protection to prevent injury and/or damage.

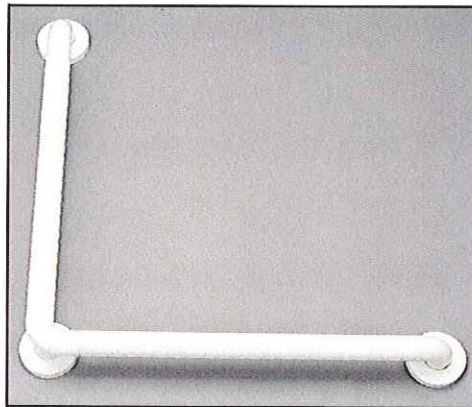


Figure 1 Appearance of the sample

#### Figure Index:

Figure 1: Appearance of the sample

#### Table Index:

Table 1: Safe distance between stationary parts

---- End of Report ---

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