

South African Bureau of Standards
 1 Dr Lategan Road, Groenkloof
 Private Bag X191, Pretoria, 0001
 Tel (012) 428-7911 Fax (012) 344-1568
 Int. code +27 12

Suid-Afrikaanse Buro vir Standaarde
 Dr Lateganweg 1, Groenkloof
 Privaatsak X191, Pretoria, 0001
 Tel (012) 428-7911 Faks (012) 344-1568
 Int. kode +27 12

Order No: 0324

Enquiries: M Selemela

Phone: 428-6409

Report No: 5415/1192219/S26

Date: 2002-02-12

Page: 1 of 1

Safbin Systems
 19 Ameshoff Street
 BRAAMFONTEIN
 JOHANNESBURG
 2000

TESTING OF PANEL HINGES

1. DESCRIPTION OF SAMPLE

The sample consisted of four test pieces each having different joining methods.

2. OBJECT OF TEST

To determine the maximum tensile load the sample could withstand.

3. TEST METHOD

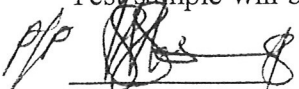
Each specimen was gripped in the jaws of a calibrated tensile testing machine. A tensile load was gradually applied until failure occurred and the maximum load recorded.

4. TEST RESULTS

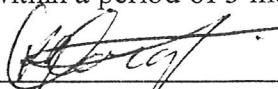
When tested the results obtained were as follows:

Specimen	Type of joint	Max. Load, kN
A1	Non-welded straight hinge	4,2
A2	Welded straight hinge	4,1
B1	Welded V-hinge	5,9
B2	Non-welded V-hinge	4,4

Test sample will be disposed of if not collected within a period of 3 months of the date of this report.



M Selemela
TECHNICIAN



KJ Voigt
HEAD: MECHANICAL ENGINEERING

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

Hierdie verslag het slegs betrekking op die spesifieke monster(s) wat getoets is, soos hierin geïdentifiseer. Dit impliseer nie dat die kwaliteit en/of prestasie van die betrokke artikel(s) deur die SABS goedgekeur is nie en die toetsresultate is nie van toepassing op 'n soortgelyke artikel wat nie getoets is nie. (Sien ook die volledige voorwaardes op die rugkant van amptelike toetsverslae.)

2.2 Drop test

The container was filled with 400 kg dummy commodity and drop from a height of 100 mm ten times.

Conditions:

Temperature, °C : 23 ± 2

Relative Humidity, % : 50 ± 2

Drop height, mm : 100

Result : 100% Pass

Note: All the clip-locks were secure after inspection, no permanent deformation was visible.

Two additional drops were conducted, a 300 mm drop that showed no sign of failure and a 500 mm drop where after two non spring steel clips (mild steel) on the long sides of the container deformed. A permanent deformation of 24 mm and 11 mm was recorded.

2.3 Incline impact test

A fully loaded container (400 kg) was placed on a incline plane tester as described in ISO 2244-1985(E). Three impacts were done on all four sides of the container, starting from a impact distance of 300 mm, there after 500 mm and 800 mm.

Results: The container was visually checked after every impact for any permanent deformation or fractures. None was to be found.


G.A. Haslam
HEAD: PACKAGING DIVISION


A.E. Dekker
SUPERVISOR