

**PRÄMETA**

**Test Report**

Nr. IWQ MBL 733 1375/1

**Customer:** PRÄMETA GmbH & Co KG  
Hardtgenbuscher Kirchweg 111

51107 Köln

**Unit:** Hinge 2820S51 with cup Type 2030S  
(sample delivered by the client)

**Commission:** Test in accordance with ANSI/BHMA A156.9-2001  
Grade 1

**Finding:**

Test scope: static load and resistance to wear within fitness-for-use testing. The hinges with cup were mounted on a chipboard serving as support material.

The tests were carried out in accordance with ANSI/BHMA A156.9-2001 Grade 1 - clauses 4.1 to 4.4 for grade 1.

The conditions of installation of the hinges was defined by the manufacturer.

The fatigue testing was performed by using 100 000 cycles.

The following parameters were determined:

| Parameter             | Initial state | 100 000 cycles | Desired value |
|-----------------------|---------------|----------------|---------------|
| Closing force         | 2,3 N         | 1,5 N          | min. 1,1 N    |
| Vertical deflection   | ./.           | 0,7 mm         | 0,76 mm       |
| Horizontal deflection | ./.           | 0,4 mm         | 0,51 mm       |

The values result from the mean values determined at the three doors.  
For individual values see the test report.

**In summary may be stated:**

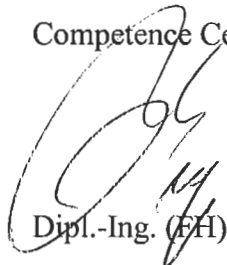
**The hinge 2820S51 with cup type 2030S submitted to test complies with the requirements in accordance with ANSI/BHMA A156.9-2001 (Grade 1) clause 4.1 to 4.4.**

For details concerning test methods and results see the following pages.

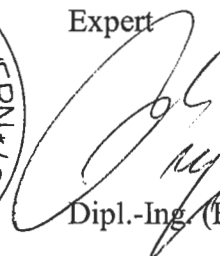
Nuernberg, 16.07.2003  
IWQ hy/kr

**LGA - PRODUCT** Division  
Institute for Product Testing  
and Quality Assurance

Competence Centre IWQ MBL

  
Dipl.-Ing. (FH) R. Heym



Expert  
  
Dipl.-Ing. (FH) R. Heym

This test report consists of 7 pages.