



LAW

RESOURCES CREATING SOLUTIONS

July 15, 2002

Mr. Gary Nest
Hettich America, L. P.
6225 Shiloh Road
Alpharetta, Georgia 30202

Subject: **Laboratory Testing on Cabinet Hardware**
 Drawer Slide Testing
 LAW Project No. 30100-1-1079


Dear Mr. Nest:

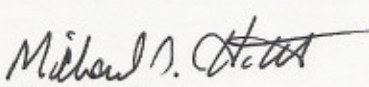
As authorized by your acceptance of our Proposal No. 30199-0-0000-2718 dated December 3, 2001, Law Engineering and Environmental Services, Inc. (LAW) has completed the requested laboratory testing on a drawer slide that was delivered to our Charlotte, North Carolina laboratory during the month of July, 2002. The drawer slide was attached to the cabinet box, which had been assembled by Hettich America prior to delivery to our laboratory. *Testing for the drawer slide was performed in general accordance with Sections 8.0 of the ANSI/BIFMA X 5.3 1998 "American National Standard for Office Furniture" and as modified by your letter via fax dated June 24, 2002. Modifications include a uniform load of 100 lbs. for the drawer slide. The results of this testing are summarized on the attached "Summary of Laboratory Testing" Sheets.*

We appreciate the opportunity to be of service to you with this project. If you should have any questions concerning this report, please do not hesitate to contact this office at (704) 357-8600.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.


Kenneth L. Owens
Laboratory Testing Engineer


Michael O. Hamlett
Laboratory Business Unit Leader

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SUMMARY OF LABORATORY TESTING

Hettich America, L. P.

LAW Project 30100-1-1079

Date Tested 7-12-02

Manufacturer's Name: Hettich America, L. P.
Manufacture's Model #: KA 5632 18" Ball Bearing Slide

Drawer Dimensions: 318 x 441 x 450 mm (W 12.5 x D 9.5 x L 18 in.)

Nominal Drawerslide Length: 450 mm (18 in.)

Parameter: Cycle Test accordance to: Section 8.0

ANSI/BIFMA X5.3 1998 Section 8.0 and 13.0

Section	Drawer Performance	Laboratory Test Performance
8.0	Cycle Test <u>50,000</u> cycles*	Passed Acceptance Level
13.0	Pull Force Test	Passed Acceptance Level

Note: The drawer slide load requirement for the cycling test was modified to 100 lbs. This load includes the weight of the drawer minus the slide weight.