

EASTERN REGIONAL OFFICE

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**Load Testing of Hand Rail**

Tested For: Kingsford Products Inc.

310 Baltimore-Somerset Road

P.O Box 75

Baltimore, OH 43105

Date: April 17, 2003

PO: PAF

Lab No: 030344

Date Received: 4/15/03

Date Tested: 4/15/03

Work Order: G1623 Rev. 1

On April, 17, 2003, a representative of NDT Group Physical Testing Department, Mr. Pete Merther, was at the Kingsford Products Baltimore, OH facility to conduct load testing of hand rail products identified as below in accordance with BOCA Section 1067.7.1

The testing was witnessed by Mr. Roland Harrison and Mr. Jim Barber of Kingsford Products.

The following tests were performed using a come-along and a calibrated load cell on the railing assembly. The railing was assembled using Kingsford Products Installation Instructions in a concrete floor.

13. 200 pound concentrated load at center in the vertical down direction
14. 50 pound / foot uniform load in the vertical down direction
15. 200 pound concentrated load at center in horizontal direction
16. 50 pound / foot uniform load in the horizontal direction

Sample ID: 6' Summit 4" spacing w/ swivel attachment on one side and spindle attachment on the other side. 36" installed height. Secured in concrete with 4-1/4" wedge anchors on each post 1" embedment.

<u>Load Case</u>	<u>Comments</u>
1. 200 pound concentrated load at center in the vertical down direction	No Visible Damage
2. 50 pound / foot uniform load in the vertical down direction (300 pounds)	No Visible Damage
3. 200 pound concentrated load at center in horizontal direction	No Visible Damage
4. 50 pound / foot uniform load in the horizontal direction (300 Pounds)	No Visible Damage

Meets Requirements of BOCA

Respectfully Submitted,


 J. Peter Merther, PE
 NDTG Mechanical

Testing was performed in accordance with accepted industry practice as well as the test methods referenced. NDTG has no direct knowledge of the origin, sampling procedure, or condition of the samples, and makes no claim as to the suitability for final use of the material. This test report applies only to those items tested. This report shall not be reproduced except in full without the written consent of NDTG.