

Professional Engineering Services



Bill Klementowski, P.E.
271 Patrice Terrace
Williamsville, NY 14221
(716) 633-6353 fax: 633-5176

Rev. A 4/28/05

November 1, 2004

Kee Industrial Products, Inc.
100 Stradtman Street
Buffalo, NY 14206
Attn: Mr. Pavel Tretyakov

SUBJECT: Testing of Roof Top Railing System

REFERENCES: 1607.7.1 of the Building Code of NYS (International Code Council),
Loads on handrails and Guards

ATTACHMENTS: Photographs, 2 Sheets, with Figure 4 and Test Results
Calibration Certificate for Dilon Dynamometer, by Quality Inspection
Services, dated 9/5/04, traceable to NIST

Dear Mr. Tretyakov:

Testing was conducted on 9/27/04 for your KeeGuard Contrator Fall Protection system shown in Figure 4 and the photographs. The tests simulated a loading of 50 # / lineal foot specified in the referenced document. The configuration was tested in both directions shown in Figure 4.

In addition, two test pulls were made with a point load to failure, as shown in Figure 4.

When loaded gradually at 50 # / ft., the system slid on the black top parking lot at 400# in one direction and 450# in the other direction. Please see Figure 4. The force was distributed over eight (8) feet as shown in Figure 4 and the photographs. The system, therefore, withstood 50# per lineal foot in both directions as specified in the referenced document. The test pulls with a point load resulted in 250# each, as shown in Figure 4.

Sincerely,



William Klementowski

Brendan Smith, CWI
QIS Inspector

qiskee4.rpt

JOB DESCRIPTION
QIS Tests at Kee Industrial
100 Stradtman Street
Buffalo, NY

Professional Eng Services
Bill Klementowski, P.E.
271 Patrice Terrace
Williamsville, NY 14221
(716) 633-6353

PHOTO NO. 9645
BY WTK
DESCRIPTION
Test configuration. See Figure 4



PHOTO NO. 9648
DESCRIPTION Side view



PHOTO NO. 9647
DESCRIPTION Base



DESCRIPTION
Tests at Kee Industrial
30 Stradtman Street
Buffalo, NY

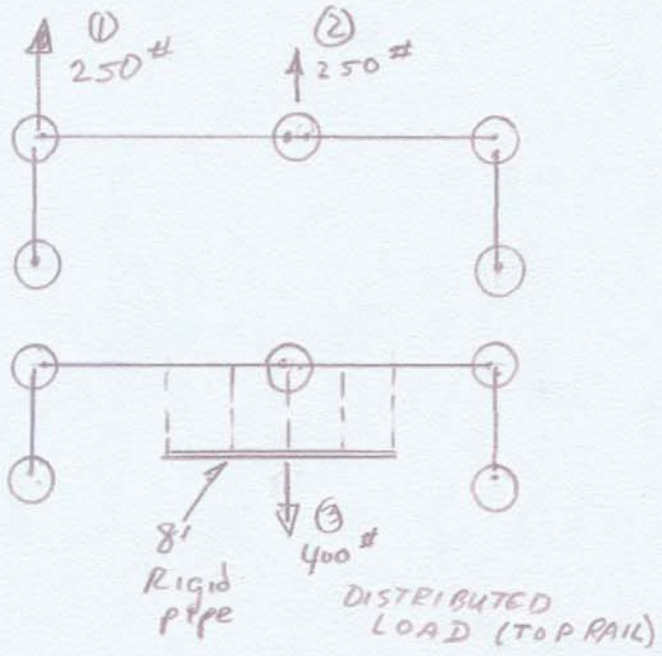
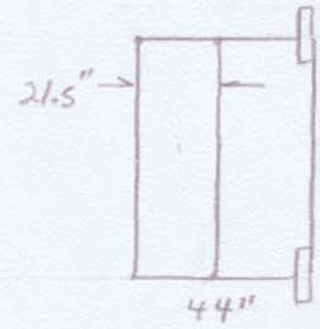
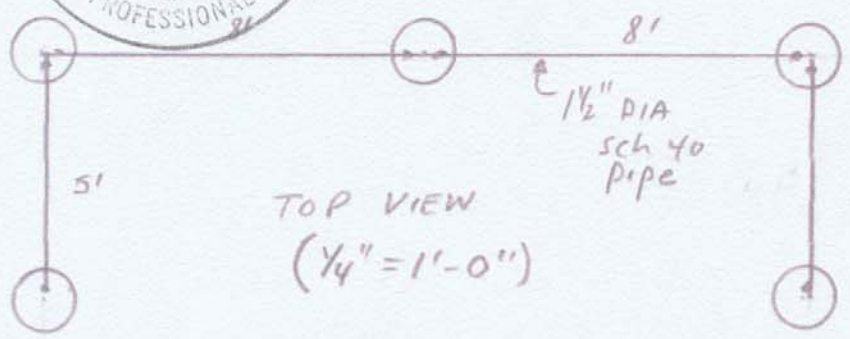
Professional Eng Services
William T. Klementowski, P.E.
11 Patrice Terrace
Williamsville, NY 14221
(716) 633-6353

PROJECT NO. 9646
BY WTK
DESCRIPTION
Make up of Base

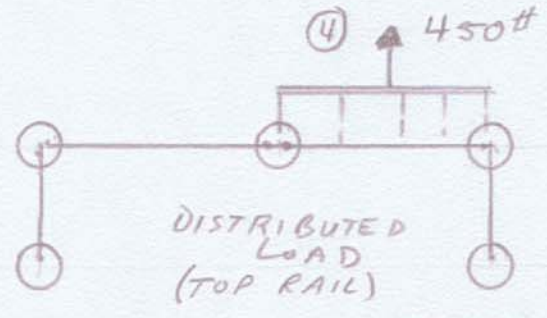
200-8, 95#



FIGURE 4



① OR ② 250# LOAD @ TOP RAIL, POINT LOAD



DISTRIBUTED LOAD (TOP RAIL)



Quality Inspection Services, Inc.

Materials Testing Division

401 William Gaiter Pkwy • Suite 5 • Buffalo, New York 14215
(716) 831-1404 • Fax (716) 831-1408

Visit Us At: www.qisi.com E-Mail: Buffalo@qisi.com

Load Indicating Device CALIBRATION CERTIFICATE

Customer: Q.I.S.I
S/N: Q-0042
Manufacturer: Dillon

P.O. Number: N/A
Range: 0-5000 lb

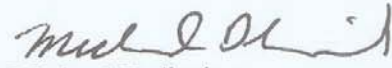
Equipment Used: Universal Testing Machine
Serial Number: 88355
Manufacturer: Tinius Olsen
Calibration Due Date: 10/16/04
Range: 0 - 400k

Traceable to the National Institute of Standards and Technology

Load Applied (lb)	As Found Readings	As Left Readings	+ Or - Error	Percent of Error
100	100	100	0	0
200	200	200	0	0
500	500	500	0	0
1000	1000	1000	0	0
2000	2000	2000	0	0
3000	3000	3000	0	0
4500	4500	4500	0	0

Results: Acceptable
Remarks:

Date of Calibration: 9/9/04
Calibration Due Date: 9/9/05
Lab # 65 - 1702


Michael Dolinsky
Quality Inspection Services
Materials Testing Laboratory



Sustaining Member



2004 Edison Avenue
Jacksonville, Florida 32204
(904) 359-0747 * Fax (904) 359-0771
Toll Free (800) 927-3575

318 North Morrison Street
Warren, Pennsylvania 16365
(814) 726-1988 * Fax: (814) 726-7850

P. O. Box 352
Garnerville, New York 10923
(845) 429-2000

401 William Gaiter Pkwy, Suite 5
Buffalo, New York 14215
(716) 831-1404 * Fax (716) 831-1408

186 Warwick Ave.
Buffalo, New York 14215
(716) 836-0131 * Fax (716) 836-9608

6730 Myers Road
East Syracuse, New York 13057
(315) 431-4291 * Fax (315) 431-4292

1576 Sweet Home Road
Amherst, New York 14228
(716) 568-0154 * Fax: (716) 636-5921

For Job Satisfaction... Think Q.I.S.