

# 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:** 1. 1607.7.1 of the Building Code of NYS (International Code Council),  
Loads on handrails and Guards

**ATTACHMENTS:** Photographs, 2 Sheets  
Figure 2 Test Configuration and Results  
Calibration Certificate for Dillon 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 Fall Protection system shown in Figure 2 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 2

When loaded gradually, the system slid on the black top parking lot at 400# in one direction and 400# in the other direction of probable use. Please see Figure 2. The force was distributed over eight (8) feet as shown in Figure 2 and the photographs. The system, therefore, withstood 50# per lineal foot in both directions as specified in the referenced document.

Sincerely,



William Klementowski

Brendan Smith, CWI  
QIS Inspector

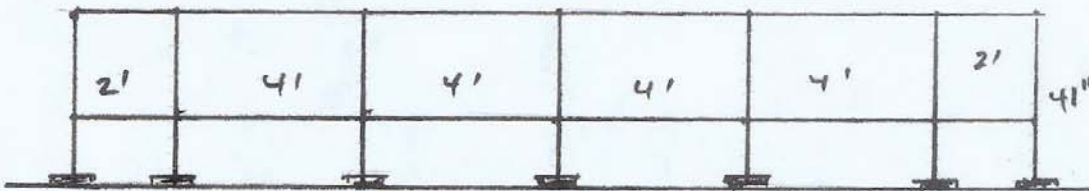
Professional Engineering Services

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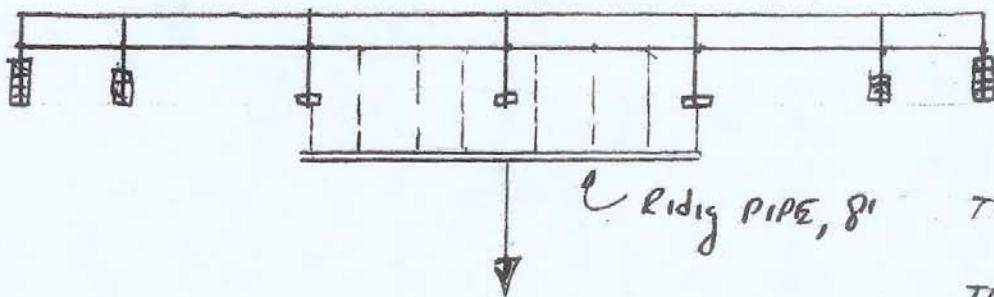
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KEE INDUSTRIAL  
PRODUCTS, INC.  
100 STRADTMAN  
BUFFALO, NY  
11/1/04

FIGURE 2



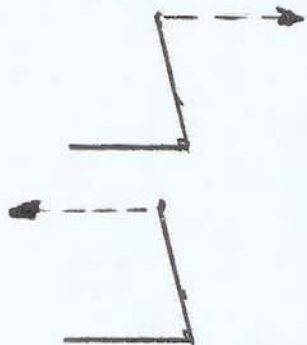
SCALE: 1/4" = 1'-0"



Rigid PIPE, 8'

TOP VIEW

TEST CONFIGURATION  
FOR  
TEST LOAD DISTRIBUTION



LIFT weights @ 250#  
SLIDE @ 400#

LIFT WEIGHTS @ N/A  
SLIDE @ 400#



**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. 9638**

**BY WTK**

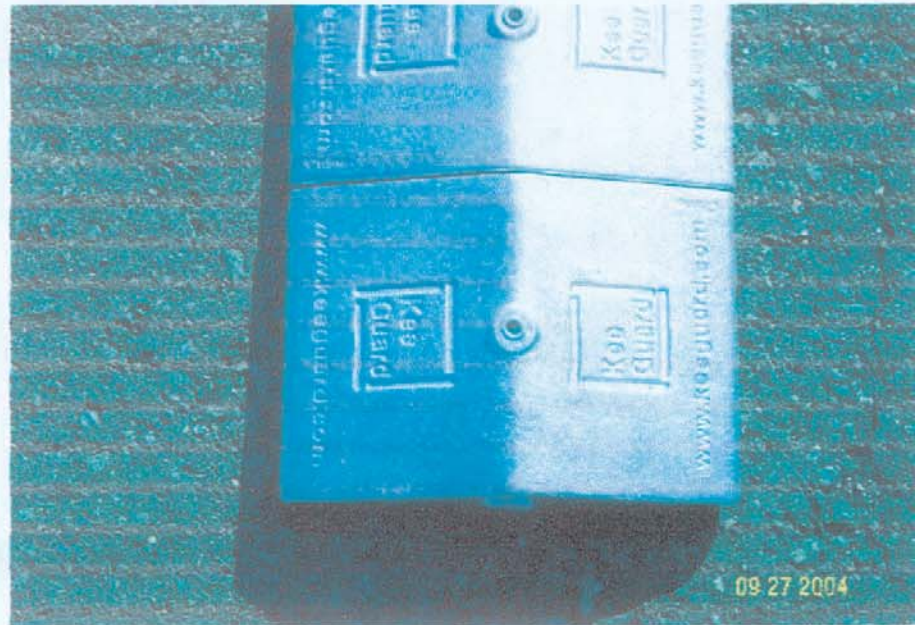
**DESCRIPTION** Test Setup for Roof Top Railing System. See Figure 2



**PHOTO NO. 9622**

**BY WTK**

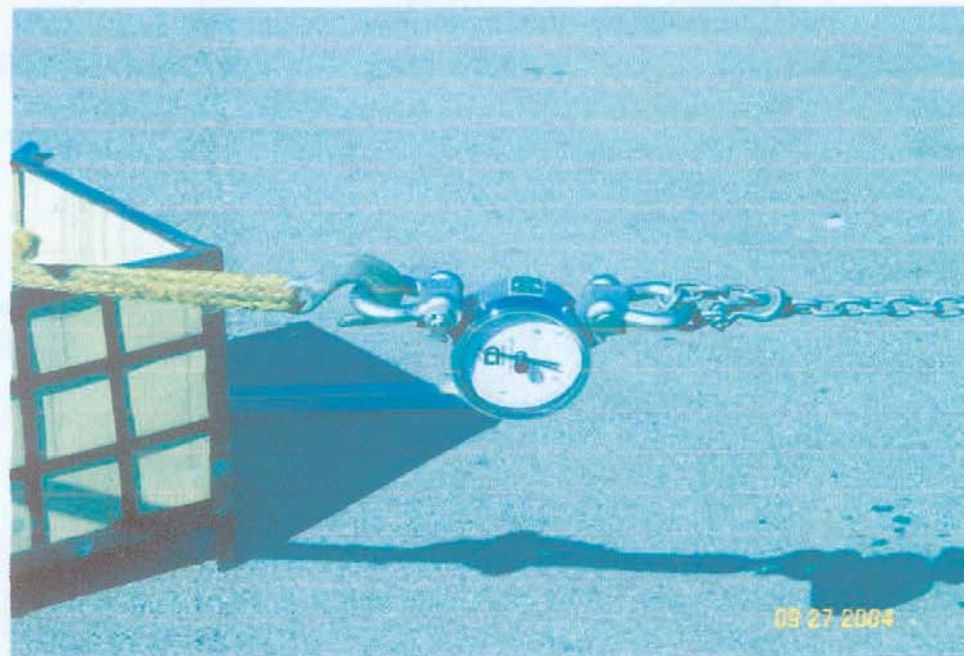
**DESCRIPTION** Base weight



**PHOTO NO. 9635**

**BY WTK**

**DESCRIPTION** Test configuration for Dillon Dynamometer



**JOB DESCRIPTION**  
QIS Tests at Kee Industrial  
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**PHOTO NO.** 969634  
**BY** WTK  
**DESCRIPTION** Test pulling into weights



**PHOTO NO.** 9636  
**BY** WTK  
**DESCRIPTION** Test pulling away from weights



**PHOTO NO.** 9620  
**BY** WTK  
**DESCRIPTION** Dillon Dynamometer





# 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](http://www.qisi.com) E-Mail: [Buffalo@qisi.com](mailto: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:** Timius 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

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