ITS Intertek Testing Services

Date

March 4, 1998

Report No.

284-4797-1

Client No.

L19154

Page 1 of 2

Description

Static Load Testing of "Safe-T-Strap"

Client

Safe-T-Strap

20 Bermondsey Road,

Toronto, Ontario M4B 1Z5

Attention: Mr. R. Vallance

This test report covers the tension load testing carried out on three types of end configurations of new safety line straps submitted by the client March 3, 1998. Tests were performed March 3, and 4, 1998 in our laboratory using a Baldwin/UTS universal testing machine.

TEST SPECIMENS

Six of the safety line straps (samples 2 to 7) were nominal 49" in length by 2" wide with a 'D' ring at each end held by a stitched loop formed by the webbing. The 'D' Rings were identified with markings "4MH2" on one side, and "8781" on the other side. Four of the safety line straps (samples 1, 8 to 10) were nominal 39" in length by 2" wide with a stitched loop formed by the webbing at each end. The stitching was identified as Double Zig Zag Stitching. One of the safety line straps (sample 11) was nominal 39" in length by 2" wide with a stitched loop formed by the webbing at each end. The stitching was identified as Single Zig Zag Stitching.

PROCEDURE

Samples 2 to 7 safety line straps were tested with a 3/4" diameter steel pin inserted through the "D" rings. The strap was loaded in tension until failure occurred. The ultimate load, and the failure mode were noted.

Samples 1, and 8 to 11 safety line straps were tested with a 3/4" diameter steel pin inserted through each of the web's loops. The strap was loaded in tension until failure occurred. The ultimate load, and the failure mode were noted.

Cont'd.....

^{1.} This report is for the exclusive use of ITS's client and is provided pursuant to the agreement between ITS and its client. ITS's responsibility and liability are limited to the terms and conditions of the agreement. ITS assumes no liability to any party, other than to the client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report.

Only the client is authorized to copy or distribute this report and then only in its entirety. Any use of the ITS name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by ITS.

The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product or service is or has ever been under an ITS certification program.

- Page 2 of 2 -

RESULTS

| Sample | Configuration | Web Colour | Ultimate Load | Failure Mode |
|--------|---------------|--|---------------|--------------------------------|
| | | annanna an | (lbs) | |
| 1 | Loop | Yellow | 6,991 | Webbing at start of stitching. |
| 2 | Loop/D Ring | White | 6,875 | Webbing at start of stitching. |
| 3 | Loop/D Ring | Gold | 7,211 | Webbing at start of stitching. |
| 4 | . Loop/D Ring | Gold | 7,276 | Webbing at start of stitching. |
| 5 | Loop/D Ring | White | 6,464 | Webbing at start of stitching. |
| 6 | Loop/D Ring | White | 6,996 | Webbing at start of stitching. |
| 7 | Loop/D Ring | Gold | 7,214 | Webbing at start of stitching. |
| 8 | Loop | Yellow | 6,987 | Webbing at start of stitching. |
| 9 | Loop | Yellow | 6,849 | Webbing at start of stitching. |
| 10 | Loop | Gold | 6,867 | Webbing at start of stitching. |
| 11 | Loop | Gold | 7,278 | Webbing at start of stitching. |

Tested and Reported By: Vern W. Jones and Robert M. Obuchi

Respectfully submitted,

INTERTEK TESTING SERVICES NA LTD.

Robert M. Obuchi, P. Eng. Physical Testing Services

rnysical lesting Servi

RMO:VWJ:mro 2cc Client Q like w/

Vern W. Jones, C.E.

Manager

Physical Testing Laboratory

June 3, 1998 File: 298-0220 Report: 03

Safe-T-Strap

20 Bermondsey Road Toronto, Ont M4B 1Z5

Attention: Mr. Dennis Hugo

Re: Tensile Testing of Nylon Industrial Strap-Double D.

Safe-T-Strap supplied one nylon Industrial Strap-Double D for the determination of the ultimate tensile load on May 22, 1998.

The industrial strap was fabricated from 2" wide nylon webbing, with a 4" D-ring on one end and a 3 ½" D-ring on the other end. A 16" long green fabric sleeve was stitched in place near the 4" D-ring to protect the nylon strapping.

The strap was wrapped around a 6" x 8" steel beam and feed through the 4" Dring. The beam was placed on the upper crosshead of test machine and the 3 ½" Dring was attached to the lower crossshead using a 1 ½" Ø pin.

The ultimate load of strap was 8000 lbs. The failure location was along the top edge of the stitching pattern on the loop for the 3 ½" D-ring. The 3 ½" D-ring was elongated by approximately one half inch.

Testing was performed on Levelton's Baldwin universal test machine, Model BTE-120, verified annually to the requirements of ASTM E 4.

Any questions, please feel free to call the undersigned.

Sincerely, Levelton Engineering Ltd.

James Coulman, GradTech.
Materials and Corrosion Division

Reviewed by: John Davidson, EIT.



Levelton Engineering Ltd.

150-12791 Clarke Place Richmond, B.C. Canada V6V 2H9

Tel: 604 278-1411 Fax: 604 278-1042 E-Mail: levelton@unixg.ubc.ca Web Site: www.levelton.com

Construction Materials
Building Science
Geotechnical
Metallurgy and Corrosion
Environmental
Analytical Chemistry
Physical Testing