

# SUMMARY: BREAK TEST RESULTS

Description	Size	Rating	Results				Average Load
			Sample 1		Sample 2		
	(mm)	(kN)	Load (kN)	Failure mode	Load (kN)	Failure mode	(kN)
Bail Out	7.5	16	18.40	Rope at the end of the stitching	18.13	Rope at the end of the stitching	18.27
Sirius	8	12.8	13.89	Rope at the end of the stitching	16.05	Rope at the end of the stitching	14.97
Ocean Polyester	8	22	18.09	Rope at the end of the stitching			
Armor-Prus Poly	8	24	17.82	Rope at the end of the stitching	17.67	Rope at the end of the stitching	17.75
Spectra Speed	8	28	18.87	Stitching	18.87	Stitching	18.87
Armor-Prus	8	28	22.20	Rope at the end of the stitching	23.22	Rope at the end of the stitching	22.71
Yale Beeline	8	36	26.58	Stitching	23.20	Rope at the end of the stitching	24.89
Sirius	10	23	24.99	Rope at the end of the stitching	23.67	Rope at the end of the stitching	24.33
Ocean Polyester	10	33	29.34	Rope at the end of the stitching	31.02	Rope at the end of the stitching	30.18
Yale Beeline	10	34	24.60	Rope at the end of the stitching			
Spectra Speed	10	43	23.9	Both the rope and stitching	20.07	Stitching	21.99
Armor-Prus	10	43	25.62	Stitching	23.79	Stitching	24.71
KM III	11	30	36.30	Rope at the end of the stitching			
Edelrid Super Static	11	31	26.40	Rope at the end of the stitching	25.65	Rope at the end of the stitching	26.03
Escalator	11	36	29.22	Rope at the end of the stitching			
Sterling Tri Tech	12	37	35.64	Rope at the end of the stitching			

Tests conducted by SAI GLOBAL, Christchurch

# TEST REPORT

**CUSTOMER:** Shift 2 Ltd  
Po Box 204-364  
Auckland  
New Zealand

**CUSTOMER REFERENCE:** Anna Tregoweth

**TEST SPECIFICATION:** Tensile testing of webbing and stitching

**ITEM TESTED:** One (1) rope samples, approximately 250mm long section with a stitched in eyelet at each end.

Description	Size (mm)	Rating (kN)
Sterling Tri Tech	12	37

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	35.64	Rope at the end of Stitching

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**Tested By:**  
James Knudsen



**Checked By:**  
A L Carson



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Description	Size (mm)	Rating (kN)
Escalator	11	36

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	29.22	Rope at the end of Stitching

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Description	Size (mm)	Rating (kN)
Edeleid Super Static	11	31

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	26.40	Rope at the end of Stitching
2	25.65	Rope at the end of Stitching

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Description	Size (mm)	Rating (kN)
KM 111	11	30

**DATE OF TEST:** 2 November 2012

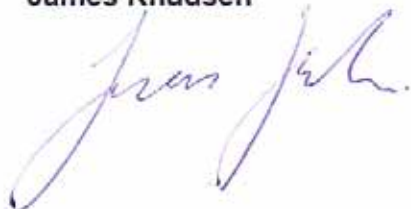
**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	36.30	Rope at the end of the Stitching

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**ITEM TESTED:** Two (2) rope samples, approximately 250mm long section with a stitched in eyelet at each end.

Description	Size (mm)	Rating (kN)
Amor - Prus	10	43

**DATE OF TEST:** 2 November 2012

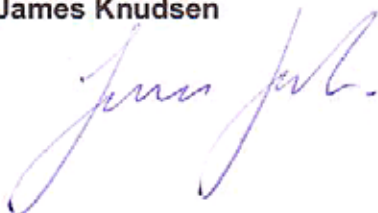
**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	25.62	Stitching
2	23.79	Stitching

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Description	Size (mm)	Rating (kN)
Spectra Speed	10	43

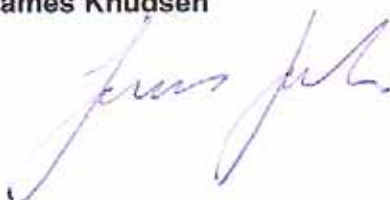
**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	23.91	Both the Rope and Stitching
2	20.07	Stitching

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Description	Size (mm)	Rating (kN)
Beeline	10	34

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	24.60	Rope at the end of Stitching

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**ITEM TESTED:** Two (2) rope samples, approximately 250mm long section with a stitched in eyelet at each end.

Description	Size (mm)	Rating (kN)
Ocean Polyester	10	33

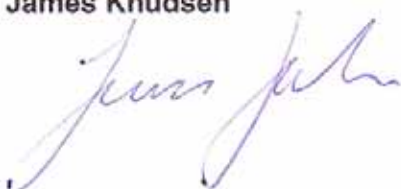
**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	29.34	Rope at the start of Stitching
2	31.02	Rope at the end of Stitching

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**ITEM TESTED:** Two (2) rope samples, approximately 250mm long section with a stitched in eyelet at each end.

Description	Size (mm)	Rating (kN)
Sirius	10	23

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	24.99	Rope at the end of Stitching
2	23.67	Rope at the end of Stitching

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Description	Size (mm)	Rating (kN)
Beeline	8	36

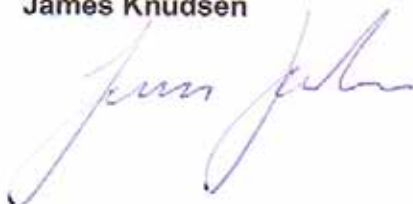
**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	26.58	Stitching
2	23.20	Rope at the end of Stitching

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**ITEM TESTED:** Two (2) rope samples, approximately 250mm long section with a stitched in eyelet at each end.

Description	Size (mm)	Rating (kN)
Aarmor- Prus	8	28

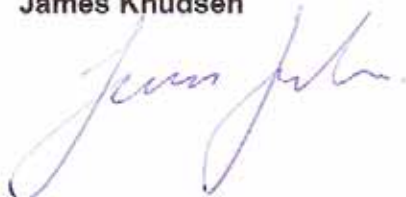
**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	22.20	Rope at the end of Stitching
2	23.22	Rope at the end of Stitching

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Description	Size (mm)	Rating (kN)
Spectra Speed	8	28

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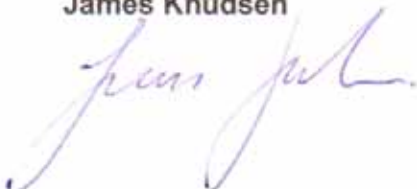
**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	18.87	Stitching
2	18.87	Stitching

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Description	Size (mm)	Rating (kN)
Armor-Prus Poly	8	24

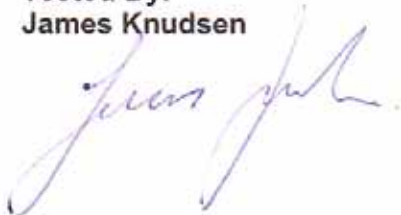
**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.


Sample	Ultimate tensile load (kN)	Failure Mode
1	17.82	Rope at end of Stitching
2	17.67	Rope at end of Stitching

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Description	Size (mm)	Rating (kN)
Ocean Polyester	8	22

**DATE OF TEST:** 2 November 2012

**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	18.09	Rope at end of Stitching

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Description	Size (mm)	Rating (kN)
Sirius	8	12.8

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**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	13.89	Rope at end of Stitching
2	16.05	Rope at end of Stitching

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Description	Size (mm)	Rating (kN)
Bail Out	7.5	16

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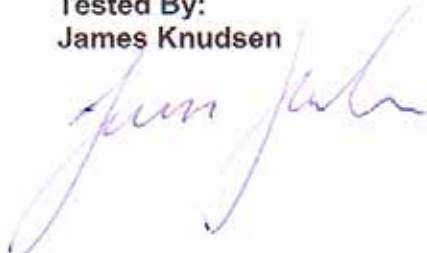
**RESULTS:** The sample was subjected to a steadily increasing tensile load via 12mm diameter pins through a sewn eyelet in each end.

Sample	Ultimate tensile load (kN)	Failure Mode
1	18.40	Rope at end of Stitching
2	18.13	Rope at end of Stitching

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