

## Nisku

2801 - 5<sup>th</sup> Street Nisku, AB T9E 0C2 Ph: 780-955-7222 Fax: 780-955-2433

## Cranbrook

857 Industrial Rd #1 Cranbrook, BC V1C 4C7 Ph: 250-426-4294 Fax: 250-489-4104

#### Calgary

4865 - 35A Street SE Calgary, AB T2B 3M7 Ph: 403-720-3210 Fax: 403-720-3215

## Sparwood

Elk Valley Industrial Rd Sparwood, BC VOB 2G0 Ph: 250-425-2119 Fax: 250-425-0557

#### Kamloops

1272 Dalhousie Drive Kamloops, BC V2C 6G3 Ph: 250-374-8955 Fax: 250-374-5858



# WIRE ROPE, RIGGING & INDUSTRIAL SUPPLIES

#### SHAW'S ENTERPRISES LTD. ("SEL")

Shaw's Enterprises Ltd. "SEL" was incorporated under the provisions of the Business Corporations Act (Alberta) on January 6th, 1997 and is part of the Shaw's group of Companies where Shaw's has been servicing customers for 52 years, since 1959.

#### **Business Background**

SEL manufactures, sells, and services a wide array of Wire Rope, Rigging, & Industrial Products. The company services a wide range of industrial sectors including mines and drilling contractors in both Alberta and British Columbia and has a customer base of well over 700 active customers.

#### Sales Network

SEL's sales representatives and staff have a combined experience of over 100 years. They have concentrated on forming a strong relationship between the company and the customers, resulting in quality service at a competitive price. Our sales and technical staff will work with you to design and manufacture custom lifting slings or devices to fit your applications.

#### Manufacturing

SEL manufactures wire rope slings and products as well as nylon web and synthetic slings for various applications. Our pledge to quality, service and support make SEL the right company for all your rigging and wire rope requirements. The raw materials and inventory required by SEL to service its customers are purchased from both Canadian and International manufacturers / vendors.

#### **Company Facilities**

The head office of Shaw's is located in Nisku, Alberta and operates with management and administrative staff from the Shaw's group of companies. The Shaw's Group has a total of five operating locations in Alberta and British Columbia. (AB. - Calgary & NIsku, B.C. - Cranbrook, Kamloops, & Sparwood).

Nisku - This location operates out of a 30,000 square foot building on a 4 - acre site.

 $\label{eq:calgary-This location operates out of a 13,000 square foot building on a 1 - acresite.$ 

# **INSPECTION OF RIGGING HARDWARE**

#### **INSPECTION FREQUENCY PER ASME B30.26**

A VISUAL INSPECTION SHALL BE PERFORMED BY THE USER OR DESIGNATED PERSON EACH DAY BEFORE THE RIGGING HARDWARE IS USED.

A PERIODIC INSPECTION SHALL BE PERFORMED BY A DESIGNATED PERSON, AT LEAST ANNUALLY. THE RIGGING HARDWARE SHALL BE EXAMINED AND A DETERMINATION MADE AS TO WHETHER THEY CONSTITUTE A HAZARD. WRITTEN RECORDS ARE NOT REQUIRED.

SEMI-PERMANENT AND INACCESSIBLE LOCATIONS WHERE FREQUENT INSPECTIONS ARE NOT FEASIBLE SHALL HAVE PERIODIC INSPECTIONS PERFORMED.

## **REJECTION CRITERIA PER ASME B30.26**

MISSING OR ILLEGIBLE MANUFACTURER'S NAME OR TRADEMARK AND/OR RATED LOAD	ADDITIONALLY INSPECT WIRE ROPE CLIPS FOR:
IDENTIFICATION (OR SIZE AS REQUIRED)	1. INSUFFICIENT NUMBER OF CLIPS
A 10% OR MORE REDUCTION OF THE ORIGINAL	2. INCORRECT SPACING BETWEEN CLIPS
DIMENSION	3. IMPROPERLY TIGHTENED CLIPS
BENT, TWISTED, DISTORTED, STRETCHED, ELONGATED, CRACKED OR BROKEN LOAD BEARING COMPONENTS.	4. INDICATIONS OF DAMAGED WIRE ROPE OR WIRE ROPE SLIPPAGE
EXCESSIVE NICKS, GOUGES, PITTING & CORROSION.	5. IMPROPER ASSEMBLY
INDICATIONS OF HEAT DAMAGE INCLUDING	ADDITIONALLY, INSPECT WEDGE SOCKETS FOR:
WELDING SPATTER OR ARC STRIKES, EVIDENCE OF UNAUTHORIZED WELDING.	1. INDICATIONS OF DAMAGED WIRE ROPE OR WIRE ROPE SLIPPAGE
LOOSE OR MISSING NUTS, BOLTS, COTTER PINS, SNAP RINGS, OR OTHER FASTENERS AND RETAINING DEVICES.	2. IMPROPER ASSEMBLY

## ADDITIONAL REJECTION CRITERIA PER ASME B30.10 - HOOKS

ANY VISIBLY APPARENT BEND OR TWIST FROM THE PLANE OF THE UNBENT HOOK

ANY DISTORTION CAUSING AN INCREASE IN THROAT OPENING OF 5%, NOT TO EXCEED 1/4"

## INSPECTION OF SUINGS

## **INSPECTION FREQUENCY PER ASMF B30.9**

A VISUAL INSPECTION FOR DAMAGE SHALL BE PERFORMED BY THE USER PR DESIGNATED PERSON. FACH DAY OR SHIFT THE SLING IS LISED

A COMPLETE INSPECTION FOR DAMAGE SHALL BE PERFORMED PERIODICALLY BY A DESIGNATED PERSON AT LEAST ANNUALLY

WRITTEN RECORDS OF MOST RECENT PERIODIC INSPECTION SHALL BE MAINTAINED.

# **REJECTION CRITERIA PER ASME B30.9**

MISSING OR ILLEGIBLE SLING IDENTIFICATION: EVIDENCE OF HEAT DAMAGE: SLINGS THAT ARE KNOTTED: FITTINGS THAT ARE PITTED. CRACKED, BENT TWISTED, GOLIGED, OR BROKEN: OTHER CONDITIONS INCLUDING VISIBLE DAMAGE THAT CAUSE DOUBT AS TO THE CONTINUED USE OF THE SUNG

WIRE ROPE	
SLINGS	

EXCESSIVE BROKEN WIRES FOR STRAND -LAID AND SINGLE PART SLINGS TEN BANDOMLY DISTRIBUTED BROKEN WIRES IN ONE BOPE LAY OR FIVE BROKEN WIRES IN ONE STRAND IN ONE BOPE LAY

SEVERE LOCALIZED ABBASION OB SCRAPING, KINKING, CRUSHING, BIRDCAGING

ANY OTHER DAMAGE RESULTING IN DAMAGE TO THE ROPE STRUCTURE

SEVERE CORBOSION OF THE ROPE OR END ATTACHMENTS

C	H	A	Ν		
SI		N	G	S	

WELD SPLATTER

CRACKS OR BREAKS	ACID OR CAUSTIC BURNS	acid or Burns
EXCESSIVE WEAR,	MELTING OR	
NICKS, OR GOUGES	CHARRING OF ANY	EVIDENC
	PART OF THE SLING	DAMAGE
STRETCHED		
CHAIN LINKS OR	HOLES, TEARS, CUTS,	HOLES, T
COMPONENTS	OR SNAGS	ABRASIV
		SNAGS T
BENT, TWISTED	BROKEN OR WORN	THE COR
OR DEFORMED	STITCHING IN LOAD	
CHAIN LINKS OR	BEARING SPLICES	BROKEN
COMPONENTS		CORE YA
	EXCESSIVE ABRASIVE	
EXCESSIVE PITTING	WEAR	WELD SP
OR CORROSION		THAT EXP
	DISCOLORATION	YARNS
LACK OF ABILITY	AND BRITTLE OF	
OF CHAIN OR	STIFF AREAS ON	DISCOLO
COMPONENTS TO	ANY PART OF THE	BRITTLE
HINGE FREELY	SLINGS, WHICH MAY	AREAS 0
	MEAN OURMICAL	

WEB SI INGS

MEAN CHEMICAL OR ULTRAVIOLET / SUNLIGHT DAMAGE ROUNDSUINGS

D OR CAUSTIC

CE OF HEAT

TEARS, CUTS. /F WEAR OR THAT EXPOSE RE YARNS

OR DAMAGED RNS

PLATTERS POSES CORE

ORATION AND OR STIFF ON ANY PART OF THE SLINGS WHICH MAY MEAN CHEMICAL OR OTHER DAMAGE

## RESPONSIBILITY

## USER RESPONSIBILITY

1. UTILIZE APPROPRIATE RIGGING GEAR SUITABLE FOR OVERHEAD LIFTING

2. UTILIZE THE RIGGING GEAR WITHIN INDUSTRY STANDARDS AND THE MANUFACTURER'S RECOMMENDATIONS

3. CONDUCT REGULAR INSPECTION AND MAINTENANCE OF THE RIGGING GEAR

4. PROVIDE EMPLOYEES WITH TRAINING TO MEET OSHA AND ASME (B30.9, B30.26, ETC.) REQUIREMENTS

## MANUFACTURER'S RESPONSIBILITY



1. PRODUCT AND APPLICATION INFORMATION

2. PRODUCT THAT IS CLEARLY IDENTIFIED; NAME OR LOGO; LOAD RATING AND SIZE; TRACEABILITY

3. PRODUCT PERFORMANCE; WORKING LOAD LIMIT; DUCTILITY; FATIGUE PROPERTIES; IMPACT PROPERTIES

4. PRODUCT TRAINING AND TRAINING; RESOURCES

	CRUSDI STACKLES											
Nominal Size (IN) Diameter of Bow	CARBON MAXIMUM WORKING LOAD (TONS)	ALLOY MAXIMUM WORKING LOAD (TONS)	INSIDE WIDTH AT PIN (INCHES)	DIAMETER OF PIN (INCHES)								
3/16	1/3	-	.38	.25								
1/4	1/2	-	.47	.31								
5/16	3/4	-	.53	.38								
3/8	1	2	.66	.44								
7/16	1 - 1/2	2.6	.75	.50								
1/2	1/2 2		.81	.63								
5/8	3 - 1/4	5	1.06	.75								
3/4	4 - 3/4	7	1.25	.88								
7/8	6 - 1/2	9.5	1.44	1.00								
1	8 - 1/2	12.5	1.69	1.13								
1 - 1/8	9 - 1/2	15	1.81	1.25								
1 - 1/4	12	18	2.03	1.38								
1- 3/8	13 - 1/2	21	2.25	1.50								
1 - 1/2	17	30	2.38	1.63								

## **CROSBY © SHACKLES**

USE SCREW PIN SHACKLES WHEN PICKING AND PLACING, TIGHTEN PIN BEFORE EACH LIFT

USE BOLT SHACKLES IN PERMANENT OR LONG TERM INSTALLATIONS VISUAL VERIFICATION OF PROPER HOOK ENGAGEMENT IS REQUIRED IN ALL CASES

MAKE SURE SLINGS ARE IN BASE OF THE HOOK AND THAT THE LATCH IS NOT FOULED

	re pe		Ċ	····										
					2	LEG BRIDL	E		3 LEG BRIDL	E	4	LEG BRIDL	E	
WIRE ROPE	LBS. PER FT.	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	W.L.L LBS.	W.L.L. LBS,	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	W.L.L. LBS.	
DIA.		VERT.	CHOKER	BASKET	30 DEG.	45 DEG.	60 DEG.	30 DEG.	45 DEG.	60 DEG.	30 DEG.	45 DEG.	60 DEG.	
1/4"	0.116	1,300	960	2,600	1,300	1,820	2,200	1,940	2,800	3,400	2,600	3,600	4,400	
5/16"	0.18	2,000	1,480	4,000	2,000	2,800	3,400	3,000	4,200	5,200	4,000	4,600	7,000	
3/8"	0.26	2,800	2,200	5,600	2,800	4,000	5,000	4,400	6,000	7,400	5,800	8,200	10,000	
7/16"	0.35	3,800	2,800	7,600	3,800	5,400	6,800	5,800	8,200	10,000	7,800	11,000	13,400	
1/2"	0.46	5,000	3,800	10,000	5,000	7,200	8,800	7,600	10,800	12,200	10,200	14,200	17,600	
9/16"	0.59	6,400	4,800	12,800	6,400	9,000	11,000	9,600	13,600	16,600	12,800	18,000	22,000	
5/8"	0.72	7,800	5,800	15,600	7,800	11,000	13,600	11,800	16,600	20,000	15,600	22,000	28,000	
3/4"	1.04	11,200	8,200	22,400	11,200	15,800	19,400	16,800	24,000	30,000	22,000	32,000	38,000	
7/8"	1.42	15,200	11,200	30,400	15,200	22,000	26,000	22,000	32,000	40,000	30,000	42,000	52,000	
1"	1.85	19,600	14,400	39,200	19,600	28,000	34,000	30,000	42,000	52,000	40,000	56,000	68,000	
1-1/8"	2.34	24,000	18,200	48,000	24,000	34,000	42,000	36,000	52,000	62,000	48,000	68,000	84,000	
1-1/4"	2.89	30,000	22,000	60,000	30,000	42,000	52,000	44,000	62,000	76,000	60,000	84,000	102,000	
1-3/8"	3.50	36,000	26,000	72,000	36,000	50,000	62,000	54,000	76,000	92,000	72,000	100,000	124,000	
1-1/2"	4.16	42,000	32,000	84,000	42,000	60,000	74,000	64,000	90,000	110,000	84,000	120,000	146,000	
1-5/8"	4.88	48,000	36,000	98,000	48,000	70,000	84,000	74,000	104,000	126,000	98,000	138,000	170,000	
1-3/4"	5.67	56,000	42,000	112,000	56,000	80,000	98,000	84,000	120,000	148,000	114,000	160,000	196,000	
1-7/8"	6.50	64,000	48,000	128,000	64,000	92,000	112,000	96,000	136,000	168,000	128,000	182,000	224,000	
2"	7.39	74,000	56,000	148,000	74,000	104,000	126,000	110,000	156,000	190,000	146,000	208,000	254,000	
BREAKIN	WORKNEN LOAD UMTE AR EARD ON COMMONE OF THE WORKNEY LOAD UMT ANTE CANCELLE AR EARD ON A SAMETY ACTION OF 5 BREAMANE STRUCTURE ON TRAVELES YOU WIRK OFFE (V-7-YR154Y5 CAS511-27) 637 54,455 V-97 20 500 CLOADING													
					W	ww.shaws	-industria	l.com						
Nisk Phor	801 - 5th Stre cu, AB, TS ne: 780-955 x: 780-955-2	9E 0C2 -7222	Calga Phone	35A Street S.E. <b>ry, AB</b> , T2B 37 <b>: 403-720-321</b> : 403-720-3215	v17	857 Industrial Road <i>≢</i> 1 Cranbrook, BC, V1C 4C7 Phone: 250-426-4294 Fax: 250-489-4104			250 Elk Valley Ind. Road, Box 1750 Sparwood, BC, V0B 260 Phone: 250-425-2119 Fax: 250-425-0557			1272 Dalhousie Drive Kamloops, BC, V2C 6G3 Phone: 250-374-8955 Fax: 250-374-5858		

## WIRE ROPE SLING CONNECTIONS AND HITCHES

#### **CONNECTION TO FITTINGS**

USE A THIMBLE TO PROTECT SLING AND INCREASE D/d

NEVER PLACE EYE OVER A FITTING SMALLER DIAMETER OR WIDTH THAN THE ROPE'S DIAMETER.



NEVER PLACE A SLING EYE OVER A FITTING WITH A DIAMETER OR WIDTH GREATER THAN ONE HALF THE LENGTH OF THE EYE



## **CHOKER CAPACITY**

A CHOKER HITCH HAS 75% OF THE CAPACITY OF A SINGLE LEG SLING ONLY IF THE ANGLE OF CHOKE IS 120 DEGREES OR GREATER. A CHOKE ANGLE LESS THAN 120 DEGREES CAN RESULT IN A CAPACITY AS 40% OF A SINGLE LEG.



#### BASKET HITCH CAPACITY



A BASKET HITCH HAS TWICE THE CAPACITY OF A SINGLE LEG ONLY IF D/d RATIO IS 25/1 AND THE LEGS ARE VERTICAL.



CAPACI	ry % of						
ANGLE SINGLE LEG							
90 200%							
60	170%						
45	140%						
30	100%						

#### MULTIPLE LEG SLINGS

TRIPLE LEG SLINGS HAVE 50% MORE CAPACITY THAN DOUBLE LEG SLINGS (AT THE SAME SLING ANGLE) ONLY IF THE CENTER OF GRANTY IS IN CENTER OF CONNECTION POINTS AND LEGS ARE ADJUSTED PROPERLY (THEY MUST HAVE AN EQUAL SHARE OF THE LOAD).

QUAD (4 LEG) SLINGS OFFER IMPROVED STABILITY BUT PROVIDE INCREASED CAPACITY ONLY IF ALL LEGS SHARE AN EQUAL SHARE OF THE LOAD.

Alloy Chain	<b>Q</b>										
GRADE 80	SINGLE LEG		2 LEG BRIDLE		3 & 4 LEG BRIDLE						
	WLL LBS,	WLL LBS.	WLL LBS.	WLL LBS.	WLL LBS.	WLL LBS.	W.L.L. LBS.				
DIA.	VERT.	30 DEG.*	45 DEG.*	60 DEG.*	30 DEG.	45 DEG.	60 DEG.				
9/32" (7mm)	3,500	3,500	4,900	6,100	5,200	7,400	9,100				
3/8" (10mm)	7,100	7,100	10,000	12,300	10,600	15,100	18,400				
1/2" (13mm)	12,000	12,000	17,000	20,800	18,000	25,500	31,200				
5/8" (16mm)	18,100	18,100	25,600	31,300	27,100	38,400	47,000				
3/4" (20mm)	28,300	28,300	40,000	49,000	42,400	60,000	73,500				
7/8" (22mm)	34,200	34,200	48,000	59,200	51,300	72,500	88,900				
	GRADE 80										
	Queenee Q										
GRADE 100	SINGLE LEG		2 LEG BRIDLE			& 4 LEG BRID.	LE				
GRADE 100	WLL LBS.	WLL LBS.	WLL LBS		WLL LBS.	WLL LBS.					
DIA.	90 DEG.	60 DEG.	45 DEG.	30 DEG.	60 DEG.	45 DEG.	30 DEG.				
5/16" (8mm)	5,700	9,900	8,100	5,700	14,800	12,100	8,500				
3/8" (10mm)	8,800	15,200	12,400	8,800	22,900	18,700	13,200				
1/2" (13mm)	15,000	26,000	21,200	15,000	39,000	31,800	22,500				
5/8" (16mm)	22,600	39,100	32,000	22,900	58,700	47,900	33,900				



2801 - 5th Stewet Nielwa, AJB, T3E 002 Phone: 780-955-7222 Fax: 780-955-7433 4585 - 35A Street S.E. Calgary, AB, T2B 3M7 Photos: 403-720-0210 Fax: 403-723-0215 www.shaws-industrial.com 657 Industrial Bood PI Crawbrook, BC, V10 407 Phone: 280-428-4294 Fax: 251-482-4104

250 Elk Velloy Ind. Rost, Box 1750 Sperwood, BC, Vi8 250 Phone: 280-426-2119 Fac: 220-425-527 1272 Dalhcusis Drive Kamloopa, BC, V22 958 Phone: 250-374-6865 Fee: 250-674-5853

# Web Slings

WEB WIDTH	SINGLE PLY SLING TYPE	LBS VERTICAL	LBS CHOKER	LBS BASKET	WEB WIDTH	DOUBLE PLY SLING TYPE	LBS VERTICAL	LBS CHOKER	LBS BASKET
1"	EE1-901	1,600	1,200	3,200	1"	EE2-901	3,200	2,500	6,400
2"	EE1-902	3,200	2,500	6,400	2"	EE2-902	6,400	5,000	12,800
3"	EE1-903	4,800	3,800	9,600	3"	EE2-903	8,860	7,000	17,720
4"	EE1-904	6,400	5,000	12,800	4"	EE2-904	11,400	9,000	22,800
5"	EE1-905	8,000	6,000	16,000	5"	EE2-905	14,250	11,400	28,500
6"	EE1-906	9,600	7,600	19,200	6"	EE2-906	17,000	13,000	34,000
8"	EE1-908	12,800	10,250	25,600	8"	EE2-908	22,800	18,000	45,600
10"	EE1-910	15,000	12,000	30,000	10"	EE2-910	24,000	19,000	48,000
12"	EE1-912	19,000	15,000	38,000	12"	EE2-912	30,000	24,000	60,000
	WIDTH 1" 2" 3" 4" 5" 6" 8" 10"	WIDTH SLING TYPE   1" EE1-901   2" EE1-902   3" EE1-903   4" EE1-904   5" EE1-906   6" EE1-906   8" EE1-908   10" EE1-910	WIDTN SUBRCTYPE VERTICAL   1" EE1-901 1,600   2" EE1-902 3,200   3" EE1-903 4,800   4" EE1-904 6,400   5" EE1-905 8,000   6" EE1-905 9,600   8" EE1-908 12,800   10" EE1-910 15,000	WIDTH SLIME TYPE VERTICAL CHORES   1" EE1-901 1,600 1,200   2" EE1-902 3,200 2,500   3" EE1-903 4,800 5,000   5" EE1-904 6,400 5,000   6" EE1-905 9,600 7,600   8" EE1-908 12,800 10,250   10" EE1-910 15,000 12,000	WODTI SUMPLTVE VETICAL CHOICEA AddRET   11 EE1-9001 1,600 1,200 3,200 2,200 6,400   2" EE1-902 3,200 2,500 6,400 3,000 9,600   4" EE1-904 6,400 5,000 12,800 6,700 12,800   5" EE1-906 9,000 7,600 19,200 10,250 25,600   6" EE1-906 3,000 10,000	Worth Subir Vyr. Vertrick Column Call Worth   11 EE1-902 3,200 1,600 1,000 1,000 1,000   12 EE1-902 3,200 5,500 6,640 2''   37 EE1-903 4,800 5,000 12,200 4''   57 EE1-905 6,000 5,000 12,200 4''   56'' EE1-906 9,000 7,600 19,200 6''   66'' EE1-908 19,000 10,250 25,600 6''   67'' EE1-908 15,000 12,000 10'' 10''	WIDTI SUMP TVP VERTICAL CHARER BARKET WIDTI SUMP TVP   1* EE1-901 1,800 1,200 3,200 1* EE2-902   2* EE1-902 3,200 2,500 6,400 2* EE2-902   3* EE1-903 4,800 3,000 12,800 4* EE2-905   5* EE1-904 6,400 5,000 12,800 4* EE2-905   6* EE1-905 9,000 7,000 19,200 6* EE2-906   6* EE1-906 12,000 10,500 152 EE2-905 EE2-906   6* EE1-906 10,000 10,500 10,000 6* EE2-906   6* EE1-906 12,000 10,500 10,000 6* EE2-906   6* EE1-906 12,000 10,000 5* EE2-906 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000	With T State Type Vertinut Charles Description State Type Vertinut State Type Vertinut   11 EE1-900 1,600 1,200 2,200 6,400 2 EE2-901 3,200 1 EE2-902 6,400   2" EE1-902 3,000 2,500 6,400 9,600 37 EE2-903 8,800   4" EE1-905 6,000 6,000 1,200 5" EE2-903 1,400   5" EE1-905 6,000 6,000 1,200 5" EE2-903 1,400   6" EE1-905 6,000 1,000 15" EE2-903 1,700   6" EE1-905 9,000 7,000 19,200 6" EE2-906 1,700   8" EE1-908 1,2,000 1,200 6" EE2-908 1,700   8" EE1-908 1,2,000 1,200 6" EE2-908 2,800   10" EE1-910 1,5,000 1,200 6.000	Worth Subi PTVF Vertical Colores FASHS Worth Subi PTVF Vertical Colores   11 EE1-900 1,600 1,200 3,200 3,200 2,500   2' EE1-902 3,200 2,500 6,400 2'' EE2-902 6,400 5,000   3'' EE1-903 4,800 3,000 9,500 7 EE2-903 6,400 5,000   4'' EE1-905 6,000 6,000 16,000 5'' EE2-903 1,4200 1,1400   5'' EE1-606 9,000 7,000 13,000 5'' EE2-905 1,42,50 1,400   6'' EE1-606 9,000 1,200 6''' EE2-905 1,200 1,700 13,000   6'' EE1-606 9,000 0,000 6''' EE2-905 2,2400 18,000   6''' EE1-908 12,000 13,000 6''' EE2-908 2,4000 18,000   10'' EE1-910 15,

Type 5	WEB WIDTH	SINGLE PLY SLING TYPE	LBS VERTICAL	LBS CHOKER	LBS BASKET	WEB WIDTH	DOUBLE PLY SLING TYPE		LBS CHOKER	LBS BASKET
	1"	EN1-901	3,200	2,500	6,400	1"	EN2-901	6,400	5,000	12,800
	2"	EN1 -902	6,400	5,000	12,800	2"	EN2-902	12,500	10,000	25,000
	3"	EN1-903	9,600	7,600	19,200	3"	EN2-903	17,500	14,000	35,000
	4"	EN1-904	12,500	10,000	25,000	4"	EN2-904	23,500	18,000	47,000
ecc ecc	5"	EN1-905	16,000	12,800	32,000	5"	EN2-905	27,500	22,000	55,000
	6"	EN1-906	19,200	15,300	38,400	6"	EN2-906	32,500	26,000	65,000
	8"	EN1-908	25,600	20,000	51,200	8"	EN2-908	40,960	32,700	81,920
	10"	EN1-910	32,000	25,600	64,000	10"	EN2-910	48,000	38,000	96,000
	12"	EN1-912	38,000	30,720	76,000	12"	EN2-912	53,000	43,000	106000

#### STEEL FITTINGS

Type 1	WEB WIDTH	SINGLE PLY SLING TYPE		LBS CHOKER	LBS BASKET	WEB WIDTH	DOUBLE PLY SLING TYPE		LBS CHOKER	LBS BASKET
	2"	TC1-902	3,200	2,500	6,400	2"	TC2-902	6,400	5,000	12,800
	3"	TC1-903	4,800	3,800	9,600	3"	TC2-903	8,860	7,000	17,720
	4"	TC1-904	6,400	5,000	12,800	4"	TC2-904	11,400	9,000	22,800
	5"	TC1-905	8,000	6,000	16,000	5"	TC2-905	14,250	11,400	28,500
	6"	TC1-906	9,600	7,600	19,200	6"	TC2-906	17,000	13,000	34,000
	8"	TC1-908	12,800	10,250	25,600	8"	TC2-908	22,800	18,000	45,600
	10"	TC1-910	15,000	12,000	30,000	10"	TC2-910	24,000	19,000	48,000
	12"	TC1-912	19,000	15,000	38,000	12"	TC2-912	30,000	24,000	60,000

Type 2	WEB WIDTH	SINGLE PLY SLING TYPE	LBS VERTICAL	LBS CHOKER	LBS BASKET	WEB WIDTH	DOUBLE PLY SLING TYPE	LBS VERTICAL	LBS CHOKER	LBS BASKET
	2"	TT1-902	3,200		6,400	2"	TT2-902	6,400		12,800
Ŷ	3"	TT1-903	4,800		9,600	3"	TT2-903	8,860		17,720
	4"	TT1-904	6,400		12,800	4"	TT2-904	11,400		22,800
ra i	5"	TT1-905	8,000		16,000	5"	TT2-905	14,250		28,500
<u>u</u>	6"	TT1-906	9,600		19,200	6"	TT2-906	17,000		34,000
	8"	TT1-908	12,800		25,600	8"	TT2-908	22,800		45,600
	10"	TT1-910	15,000		30,000	10"	TT2-910	24,000		48,000
$\vee$	12"	TT1-912	19,000		38,000	12"	TT2-912	30,000		60,000

**WORKING LOADS ARE CALCULATED ON A 5:1 SAFETY FACTOR** 



2801 - 5th Senet Misica, AJB, THE 0C2 Phone: 780-955-7222 Fax: 780-955-2433 4805 - 35A Street S.E. Colgany, AB, T26 3H7 Phone: 408-720-8216 Fax: 408-720-8215 www.shaws-industrial.com 87 Industed Read A Granbrook, BC, VIC 407 Phone: 280-430-434 Fac: 281-482-4104

25% EB: Vallay Ind., Roed, Box 17%0 Sparwood, BO, W8 260 Phone: 250-425-2119 Fax: 250-425-087 1272 Dathrasis Drive Kantoope, BC, V2C 852 Phone: 250-374-3955 Fee: 250-374-3955

# **Polyester Round Slings**

		0	B	U	/25	/25			
CODE NUMBER	COLOUR	VERTICAL	CHOKER	90[]BASKET	30(JBASKET	45[]BASKET	APPROX. DIA. INCHES	APPROX. WEIGHT/FT IN POUNDS	
SL 30	Purple	3,000	2,400	6,000	5,200	4,200	.75	.25	
SL 40	Black	4,000	3,200	8,000	6,900	5,600	.80	.35	
SL 60	Green	6,000	4,800	12,000	10,300	8,400	.90	.40	
SL 90	Yellow	9,000	7,200	18,000	15,500	12,600	1.00	.50	
SL 120	Tan	12,000	9,600	24,000	20,600	16,800	1.25	.75	
SL 140	Red	14,000	11,200	28,000	24,100	19,600	1.30	.85	
SL 170	Orange	17,000	13,600	34,000	29,300	23,800	1.60	.95	
SL 230	Blue	23,000	18,400	46,000	39,500	32,200	1.65	1.25	
SL 260	Orange	26,000	20,800	52,000	44,700	36,400	1.75	1.45	
SL 320	Grey	32,000	25,600	64,000	55,000	44,800	2.15	1.75	
SL 400	Orange	40,000	32,000	80,000	68,800	56,000	2.45	2.25	
SL 540	Brown	54,000	43,200	108,000	92,900	75,600	3.00	2.75	
SL 680	Olive Green	68,000	54,400	136,000	117,000	95,200	3.25	3.60	
SL 900	Black	90,000	72,000	180,000	155,000	126,000	3.75	4.10	
Rated Capacities in Pounds DO NOT EXCEED RATED CAPACITIES									

WIRE ROPE CLIPS		/er saddle <b>a dead hors</b> Lleable clips for <b>any c</b>					
SIZE (INCHES)	NUMBER OF CLIPS	TURNBACK LENGTH (IN)	TORQUE FT - LBS.				
1/8	2	3 - 1/4	4.5				
3/16	2	3 - 3/4	7.5				
1/4	2	4 - 3/4	15				
5/16	2	5 - 1/4	30				
3/8	2	6 - 1/2	45				
7/16	2	7	65				
1/2	3	11 - 1/2	65				
9/16	3	12	95				
5/8	3	12	95				
3/4	4	18	130				
1	5	26	225				
FOR SCAFFOLD, PERSONNEL HOIST, AND SCAFFOLD APPLICATIONS, ANSI A17.1 AND A10.4. DO NOT RECOMMEND U-BOLT CLIPS. CROSBY RECOMMENDS FIST GRIP CLIPS FOR TIE OFF LINES FOR FALL PROTECTION.							
SIZE (INCHES)	NUMBER OF CLIPS	TURNBACK LENGTH (IN)	TORQUE FT - LBS.				
3/16	2	4	30				
1/4	2	4	30				
5/16	2	5	30				
3/8	2	5 - 1/4	45				
			65				
7/16	2	6 - 1/2	65				
7/16	2 3	6 - 1/2 11	65 65				
1/2	3	11	65				
1/2 9/16	3	11 12 - 3/4	65 130				

SOME STANDARDS MAY REQUIRE A MINIMUM OF 3 WIRE ROPE CLIPS. THE NUMBER OF CLIPS SHOWN IS BASED UPON USING RRL DR RLL WIRE ROPE, 6 X 19 OR 6 X 37 CLASS, FC OR IWRC; IPS OR XIP, XXIP, ALSO APPLIES TO ROTATION-RESISTANT RRL WIRE ROPE, 19 X 7 CLASS, IPS, XIP, XXIP SIZES 1 - 3/4 INCH AND SMALLER. IF A PULLEY (SHEAVE) IS USED FOR TURNING BACK THE WIRE ROPE, ADD ONE ADDITIONAL CLIP. CLIPS ARE 80% EFFICIENT UNDER 1" AND 90% 1" AND ABOVE.



APPLY FIRST CLIP ONE BASE WIDTH FROM DEAD END APPLY SECOND CLIP AS NEAR THE THIMBLE AS POSSIBLE 3 APPLY ALL ADDITIONAL CLIPS EVENLY BETWEEN THE FIRST TWO

