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# RIGGERS CARD

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For Safe Working Lives.

## CHAIN SLINGS TO AS3775

GRADE 80

GRADE 100

WORKING LOAD LIMIT (W.L.L.) IN TONNES UNDER GENERAL CONDITIONS OF USE									
CHAIN SIZE (MM)	SINGLE LEG SLINGS				SLINGS OF 2,3 OR 4 LEG SLINGS			2 LEG SLINGS	
	STRAIGHT SLING	ADJUSTABLE SLING W/IDERATION	REEVED SLING	BASKET SLING MAX 60°	STRAIGHT SLING			REEVED SLING MAX 60°	BASKET SLING MAX 60°
LOADING FACTORS	1	0.75	0.75	1.3	60°	90°	120°	60°	2.25
6	1.1	0.8	0.8	1.4	1.9	1.6	1.1	1.4	2.5
6	1.4	1.1	1.1	1.8	2.4	2.0	1.4	1.8	3.2
8	2.00	1.5	1.5	2.6	3.5	2.8	2.0	2.6	4.5
8	2.5	1.9	1.9	3.3	4.3	3.5	2.5	3.3	5.6
10	3.2	2.4	2.4	4.2	5.5	4.5	3.2	4.2	7.2
10	4.0	3.0	3.0	5.2	6.9	5.6	4.0	5.2	9.0
13	5.3	4.0	4.0	6.9	9.2	7.5	5.3	6.9	11.9
13	6.7	5.0	5.0	8.7	11.6	9.4	6.7	8.7	15.1
16	8.0	6.0	6.0	10.4	13.8	11.3	8.0	10.4	18.0
16	10.0	7.5	7.5	13.0	17.3	14.1	10.0	13.0	22.5
20	12.5	9.4	9.4	16.3	21.6	17.6	12.5	16.3	28.1
20	16.0	12.0	12.0	20.8	27.7	22.6	16.0	20.8	36.0
22	15.0	11.3	11.3	19.5	26.0	21.2	15.0	19.5	33.8
22	19.0	14.3	14.3	24.7	32.9	26.8	19.0	24.7	42.8
26	21.2	15.9	15.9	27.6	36.7	29.9	21.2	27.6	47.7
26	26.5	19.9	19.9	34.5	45.8	37.4	26.5	34.5	59.6
32	31.5	23.6	23.6	41.0	54.5	44.4	31.5	41.0	70.9
32	40.0	30.0	30.0	52.0	69.2	56.4	40.0	52.0	90.0

\*On adjustable slings, some grab shortening hooks may derate the W.L.L by 25%. Advice should be sought from the manufacturer.

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The riggers card has been produced as a guide only based on manufacturer specifications & Australian Standards. Bunzl Safety accepts no responsibility should any product fail in service based on information in this card.

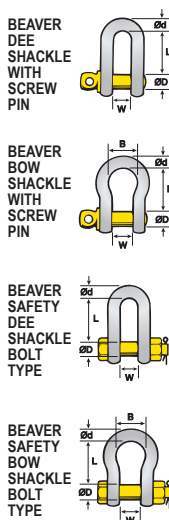
MOTION	HAND SIGNAL	WHISTLE, BELL OR BUZZER SIGNAL
Hoisting lower		1 long
Luffing boom down		4 short
Slewing left		1 long, 1 short
Jib-telescoping in: telescoping boom retract		1 long, 4 short
Stop		1 short

MOTION	HAND SIGNAL	WHISTLE, BELL OR BUZZER SIGNAL
Hoisting raise		2 short
Luffing boom up		3 short
Slewing right		1 long, 2 short
Jib-telescoping out: telescoping boom extend		1 long, 3 short
Travel and traverse		Not applicable

## RIGGING HAND SIGNALS

# GRADE 'S' SHACKLES TO AS2741

WORKING LOAD LIMIT Metric Tonnes	DIA. Ød mm	DIA. PIN ØD mm	INSIDE WIDTH W mm	INSIDE LENGTH		WIDTH OF BOW B mm	APPROX. WEIGHT EACH	
				DEE TYPE L mm	BOW TYPE L mm		SCREW PIN kg	SAFETY PIN kg
0.33	5	6	10	—	22	15	0.02	—
0.50	6	8	12	22	29	20	0.06	0.07
0.75	8	10	13	26	31	21	0.11	0.13
1.00	10	11	17	32	37	26	0.15	0.17
1.50	11	13	18	37	43	29	0.21	0.25
2.00	13	16	21	41	48	33	0.37	0.44
3.20	16	19	27	51	61	43	0.65	0.79
4.70	19	22	32	60	72	51	1.06	1.26
6.50	22	25	37	71	84	58	1.56	1.88
8.50	25	29	43	81	95	68	2.32	2.78
9.50	29	32	46	90	108	74	3.28	3.87
12.00	32	35	52	100	119	83	4.51	5.26
13.50	35	38	57	113	133	92	5.43	6.94
17.00	38	41	60	124	146	98	7.89	8.79
25.00	44	51	73	146	178	127	13.40	14.99
35.00	51	57	83	171	197	146	18.85	20.65
42.50	57	63	95	181	222	160	26.06	29.01
55.00	63	70	105	203	267	184	37.86	41.05
85.00	76	83	127	229	330	200	58.68	62.24
120.00	89	95	146	267	381	241	—	110.00
150.00	102	108	165	318	432	279	—	160.00



# ROUND WEBBING SLINGS - AS4497 FLAT WEBBING SLINGS - AS1353

WORKING LOAD LIMITS (WLLs)

WORKING LOAD LIMITS UNDER GENERAL CONDITIONS OF USE - t									
COLOUR	MARKED WLL	STRAIGHT LIFT	CHOKED STRAIGHT LIFT	PARALLEL BASKET	BASKET HITCH OR 2, 3 AND 4 LEGS SLINGS			CHOKE HITCH OR 2, 3 AND 4 LEGS SLINGS	
					a = 60° 	a = 90° 	a = 120° 	SINGLE WRAP a = MAX 45° 	DOUBLE WRAP a = MAX 60° 
LOADING FACTORS		1	0.8	2	1.73	1.41	1	1.38	1.38
VIOLET	1	1	0.8	2	1.7	1.4	1	1.38	
GREEN	2	2	1.6	4	3.4	2.8	2	2.76	
YELLOW	3	3	2.4	6	5.1	4.2	3	4.14	
GREY	4	4	3.2	8	6.9	5.6	4	5.52	
RED	5	5	4	10	8.6	7	5	6.9	
BROWN	6	6	4.8	12	10.3	8.4	6	8.28	
BLUE	8	8	6.4	16	13.8	11.2	8	11.04	
ORANGE	10	10	8	20	17.3	14.1	10	13.8	
ORANGE	Greater than 10	Marked WLL x LF	Marked WLL x LF	Marked WLL x LF	Marked WLL x LF	Marked WLL x LF	Marked WLL x LF	Marked WLL x LF	

Note: The WLL applicable to each configuration is the marked WLL multiplied by the loading factor, L.

# WIRE ROPE SLINGS - AS1666

FERRULE-SECURED EYES - WORKING LOAD LIMIT (WLL) IN TONNES

GRADE 1960 STEEL CORE  
GRADE 1770 STEEL CORE

METHOD OF LOADING	DIRECT LOADED	CHOKE HITCH		BASKET HITCH ROUND LOAD				2-3 OR 4 LEG ASSEMBLY		
		ROUND LOAD 	RECTANGULAR LOAD 							
ROPE DIA MM										
INCLUDED ANGLE	-	-	-	0°	60°	90°	120°	0° TO 60°	90°	120°
LOADING FACTOR	1 x 0.95	0.75 x 0.95	0.5 x 0.95	2 x 0.95	1.73 x 0.95	1.41 x 0.95	1 x 0.95	1.73 x 0.95	1.41 x 0.95	1 x 0.95
8	0.78	0.58	0.39	1.56	1.35	1.10	0.78	1.35	1.10	0.78
8	0.87	0.65	0.43	1.74	1.50	1.22	0.87	1.50	1.22	0.87
9	0.99	0.74	0.49	1.98	1.71	1.40	0.99	1.71	1.40	0.99
9	1.09	0.82	0.55	2.18	1.89	1.54	1.09	1.89	1.54	1.09
10	1.22	0.92	0.61	2.40	2.10	1.72	1.22	2.10	1.72	1.22
10	1.35	1.01	0.68	2.70	2.30	1.91	1.35	2.30	1.91	1.35
11	1.48	1.11	0.74	3.00	2.60	2.10	1.48	2.60	2.10	1.48
11	1.63	1.23	0.82	3.26	2.80	2.30	1.63	2.80	2.30	1.63
12	1.76	1.32	0.88	3.50	3.00	2.50	1.76	3.00	2.50	1.76
12	1.94	1.45	0.97	3.88	3.30	2.70	1.94	3.30	2.70	1.94
13	2.10	1.55	1.04	4.10	3.60	2.90	2.10	3.60	2.90	2.10
13	2.20	1.71	1.14	4.40	3.90	3.20	2.20	3.90	3.20	2.20
14	2.40	1.80	1.20	4.80	4.20	3.40	2.40	4.20	3.40	2.40
14	2.60	1.99	1.33	5.20	4.50	3.70	2.60	4.50	3.70	2.60
16	3.10	2.30	1.56	6.20	5.40	4.40	3.10	5.40	4.40	3.10
16	3.40	2.60	1.73	6.80	6.00	4.80	3.40	6.00	4.80	3.40
18	4.00	3.00	1.98	7.50	6.80	5.60	4.00	6.80	5.60	4.00
18	4.30	3.20	2.10	8.60	7.50	6.10	4.30	7.50	6.10	4.30
20	4.90	3.70	2.40	9.80	8.40	6.90	4.90	8.40	6.90	4.90
20	5.40	4.00	2.70	10.80	9.30	7.60	5.40	9.30	7.60	5.40
22	5.90	4.40	3.00	11.80	10.20	8.30	5.90	10.20	8.30	5.90
22	6.50	4.90	3.20	13.00	11.60	9.20	6.50	11.30	9.20	6.50
24	7.00	5.30	3.50	14.10	12.20	9.90	7.00	12.20	9.90	7.00
24	7.70	5.80	3.80	15.40	13.40	10.90	7.70	13.40	10.90	7.70
26	8.30	6.20	4.10	16.50	14.30	11.60	8.30	14.30	11.60	8.30
26	9.10	6.80	4.50	18.20	15.80	12.80	9.10	15.80	12.80	9.10
28	9.60	7.20	4.80	19.10	16.60	13.50	9.60	16.60	13.50	9.60
28	10.50	7.90	5.30	21.00	18.30	14.90	10.50	18.30	14.90	10.50
32	12.50	9.40	6.30	25.00	22.00	17.60	12.50	22.00	17.60	12.50
32	13.80	10.30	6.90	27.60	23.90	19.50	13.80	23.90	19.50	13.80