

## TEST CERTIFICATE

This is to certify that the nominated size and quality of the following SLR product has been inspected and tested with following results.



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Customer Sold To:

HESNZ  
3 Heb Place  
Takanini, Auckland, New Zealand

Order:	6554
Invoice:	52055
Date:	26/02/2026
Certificate No:	251002HESNZ

TEST DATE: Jan.25th.2026

PO# ZHI-251002HESNZ -  
GRADE S SHACKLES

GOODS: GRADE S SHACKLES  
SURFACE: HDG BODY & YELLOW PIN

SIZE:	WLL	REQUIRED	ACTUAL	BATCH ID	BATCH QTY
	TON	BS (TON)	AVERAGE		
500kg Grade S Bow Shackle	0.50	3.00	3.15	D207	800
750kg Grade S Bow Shackle	0.75	4.50	4.73	D202,209	1000
1.0T Grade S Bow Shackle	1.00	6.00	6.30	D206,207	1560
1.5T Grade S Bow Shackle	1.50	9.00	9.45	D206,208	1200
2.0T Grade S Bow Shackle	2.00	12.00	12.60	D206,208	900
3.25T Grade S Bow Shackle	3.25	19.50	20.48	D207,209	900
4.75T Grade S Bow Shackle	4.75	28.50	29.36	D209,208	300
6.5T Grade S Bow Shackle	6.50	39.00	40.17	D208	300
8.5T Grade S Bow Shackle	8.50	51.00	52.53	D205	240
9.5T Grade S Bow Shackle	9.50	57.00	58.71	D204,205	150
12.0T Grade S Bow Shackle	12.00	72.00	74.16	D205	80
13.5T Grade S Bow Shackle	13.50	81.00	83.43	D208	90
2.0T Grade S Dee Shackle	2.00	12.00	12.36	D205	180
3.2T Grade S Dee Shackle	3.20	19.20	19.78	D205	60
6.5T Grade S Dee Shackle	6.50	39.00	40.17	D203	60
8.5T Grade S Dee Shackle	8.50	51.00	52.53	D203	40
12.0T Grade S Dee Shackle	12.00	72.00	74.16	D202	40
1.5T Grade S Safety Bow Shackle	1.50	9.00	9.45	D202,206	80
3.25T Grade S Safety Bow Shackle	3.25	19.50	20.48	D209	60
4.7T Grade S Safety Bow Shackle	4.75	28.50	29.93	D207	60
9.5T Grade S Safety Bow Shackle	9.50	57.00	58.71	D205	80
12.0T Grade S Safety Bow Shackle	12.00	72.00	74.16	D207	80
13.5T Grade S Safety Bow Shackle	13.50	81.00	83.43	D208	80
17.0T Grade S Safety Bow Shackle	17.00	102.00	105.06	D207	69
25.0T Grade S Safety Bow Shackle	25.00	150.00	154.50	D207	50
35.0T Grade S Safety Bow Shackle	35.00	210.00	216.30	D207	30
55.0T Grade S Safety Bow Shackle	55.00	330.00	339.90	D203,204	10
3.2T Black Bow Shackle	3.20	19.20	20.16	D208	150
4.75T Black Bow Shackle	4.75	28.50	29.93	D208	45
Turnbuckle Hook/Eye 8mm (Turnbuckle to be Italian Syle & Electro galvanizing)	0.165	0.50	0.53	/	100

**SHACKLE CHEMICAL COMPOSITION**

BODY: Chinese #45

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.17-0.37	0.50-0.80	<0.03	<0.03	>0.025
ACTUAL	0.43	0.25	0.65	0.02	0.02	0.025

**SHACKLE CHEMICAL COMPOSITION**

NEW PIN: Chinese #CM690

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.15-0.55	1.3-1.9	<0.03	<0.03	>0.025
ACTUAL	0.29	0.22	1.7	0.003	0.017	0.043

**SHACKLE Heat Treatment: Hardened & Tempered.**

HARDNESS(required not more than HRC32):

BODY(actual HRC): 29, 28, 30, 28, 29, 28, 29, 30, 28, 29

PIN(actual HRC): 31, 32, 31, 30, 32, 31, 31, 30, 31, 32

We hereby certify the above test is true and correct. All shackles are tested as per AS2741.

TESTED BY

**ALLAN MARKETING GROUP**

NOTES: THE RECORD WILL BE RETAINED FOR NOT LESS THAN 10 YEARS.

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