

MATERIAL CERTIFICATE

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



Customer Sold To:
<i>HES NZ Ltd</i>
<i>56 Pavilion Drive</i>
<i>Airport Oaks Auckland 2022</i>

Order:	<i>2098</i>	Test Standard:	
Invoice:	<i>BB15-026</i>	Certificate No:	
Material:		Works Ref No:	<i>15/1583#3</i>
Date:		Batch :	<i>15-2</i>
Brand	<i>SLR</i>	Buyer Order No:	<i>QYJ150321HESNZ</i>

DESCRIPTION	QTY	FACT BREAKAGE FORCE (ton) / BF
SLR-487 WA-S MASTER LINK 87-8	50	11.2
SLR-487 WA-S MASTER LINK 108-8	50	14.1
SLR-487 WA-S MASTER LINK 1310-8	50	22.2

STEEL CODE	20CrMnTi									
ELEMENT (%)	C	Si	Mn	Cr	Ni	Mo	S	P	Al	Ti
	0.21	0.28	0.88	1.08			0.018	0.015		0.073

DESCRIPTION	QTY	FACT BREAKAGE FORCE (ton) / BF
SLR-85 EYE SHORTENING GRAB HOOK 7/8-8	100	8.14, 8.07
SLR-85 EYE SHORTENING GRAB HOOK 10-8	80	12.77, 12.64
SLR-106 WELDED HOOK LIGHT TYPE 2	60	10.13, 10.2
SLR-106 WELDED HOOK LIGHT TYPE 3.2	40	16.3
SLR-106 WELDED HOOK LIGHT TYPE 5.3	30	26.7
SLR-106 WELDED HOOK LIGHT TYPE 12.5	6	62.6
SLR-12 CLEVIS SLING HOOK WITH LATCH 7/8-8	100	8.14, 8.07
SLR-12 CLEVIS SLING HOOK WITH LATCH 10-8	50	12.73
SLR-78 CLEVIS SELF-LOCKING HOOK WITH GRIP 7/8-8	100	8.2, 8.16
SLR-78 CLEVIS SELF-LOCKING HOOK WITH GRIP 10-8	50	12.8
SLR-48 TWIN CLEVIS LINK 1/4-5/16 BODY	200	8.5, 8.53, 8.47
SLR-48 TWIN CLEVIS LINK 3/8 BODY	100	12.2, 12.1

STEEL CODE	35CrMo							
-------------------	--------	--	--	--	--	--	--	--

ELEMENT (%)	C	Si	Mn	Cr	Ni	Mo	S	P	Al	Ti
	0.35	0.28	0.53	0.88		0.17	0.011	0.016		

DESCRIPTION	QTY	FACT BREAKAGE FORCE (ton) / BF
SLR-663 CLEVIS SELFLOCK HOOK WITH SIDE TRIGGER 7/8-8	30	8.1
SLR-663 CLEVIS SELFLOCK HOOK WITH SIDE TRIGGER 10-8	20	12.73
SLR-663 CLEVIS SELFLOCK HOOK WITH SIDE TRIGGER 13-8	10	21.4

STEEL CODE	20CrNiMo									
ELEMENT (%)	C	Si	Mn	Cr	Ni	Mo	S	P	Al	Ti
	0.20	0.33	0.76	0.53	0.49	0.23	0.017	0.013	0.029	

DESCRIPTION	QTY	FACT BREAKAGE FORCE (ton) / BF
SLR-1001 EUROPEAN TYPE CONNECTING LINK 13-10	300	27.1, 26.9, 27.2
SLR-1011 MASTER LINK WITH FLAT 18-10	20	20.2
SLR-1011 MASTER LINK WITH FLAT 22-10	100	30.5, 30.6
SLR-1011 MASTER LINK WITH FLAT 26-10	100	40.1, 40.3

STEEL CODE	23MnNiMoCr54									
ELEMENT (%)	C	Si	Mn	Cr	Ni	Mo	S	P	Al	Ti
	0.23	0.23	1.26	0.51	0.91	0.55	0.014	0.007	0.028	

DESCRIPTION	QTY	FACT BREAKAGE FORCE (ton) / BF
SLR-48 TWIN CLEVIS LINK 1/4-5/16 BOLT	200	8.5, 8.53, 8.47
SLR-48 TWIN CLEVIS LINK 3/8 BOLT	100	12.2, 12.1
SLR-311 FORGED TOW HOOK 10000LBS	50	4.63

STEEL CODE	40Cr									
ELEMENT (%)	C	Si	Mn	Cr	Ni	Mo	S	P	Al	Ti
	0.41	0.32	0.67	0.89			0.016	0.024		

Manufactured, Inspected and Tested for and on behalf of:

42 Clements Avenue Bundoora Vic Aust
Bundoora Victoria 3083 Australia



