



Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

Heavy Vehicle Specialist Inspector's Name (PRINT IN CAPS)

BRUCE SUTTON

ID
BJS

Vehicle Registration*

VIN / Chassis Number

7A9D4501990023853

Component being certified:

- Chassis Modification Load Anchorage Log Bolsters
 Towing Connection Brakes SRT

Certification Category

HVS2

Description of Work

Certify SRT - 4 axle full trailer

Code/Standard Certified to

NZTA Rule 41001:2002

Component Load Rating(s)

FOR UDL

General Drawing Number(s)

X1 = 4.25m / Y1 = 22T

Y2 = 31T / X2 = 3.63m

Supporting Documents

Compliance Certs # S397-UDL, S397-COG

*Special Conditions

Average spring lash per axle group to be maintained at 10mm or less

Certification Expiry Date (if applicable)

or Hubodometer Reading (whichever comes first)

Declaration

I the undersigned, declare that I am the Heavy Vehicle Specialist Inspector identified above and I hold a current valid appointment. I certify that the above mentioned vehicle component's design, manufacture and installation, and this certification complies in all respects with the Land Transport Rule Vehicle Standards Compliance 2002 and my Deed of Appointment. To the best of my knowledge the information contained in this Certificate is true and correct.

Designer's ID (if certified by a manufacturer)

Inspector's / Delegate's Signature

B Sutton

*Delegate's Name (PRINT IN CAPS)

Date

26/11/2009

Number

312244

COF Vehicle Inspector ID:

COF Vehicle Inspector Signature:

Date

All fields excluding those marked with * must be completed before this certificate can be accepted.



Static Roll Threshold Compliance Certificate

Name of vehicle owner:

Grays Contracting LTD

Address:

213 Park Road, Carterton

SRT Compliance Certificate no:

S397-UDL

Vehicle Identification No.(VIN):

7A9D4501990023853

Vehicle chassis No:

853

Current vehicle registration:

Type of vehicle:

Full-Trailer

No of axles in front set: 2

No of axles in rear set: 2

Deck length of vehicle:

9.27 metres

Maximum height of load or vehicle body:

4.25 metres

Front suspension type:

User Defined

Rear suspension type:

User Defined

I, Bruce Sutton of Domett Truck and Trailer, PO Box 5215, Mt Maunganui certify that

at the time of inspection this vehicle achieved a rating on a Static Roll Threshold test as follows:

Using standard load type: Uniform density Description: Assumes load mass is centred midway vertically between load bed and load height.

At a max. load height of 4.25 metres and a max. allowable gross mass of 31 tonnes, the SRT is 0.3g

This vehicle fails to meet the minimum SRT standard of 0.35g. It will meet the standard if:

- (a) At maximum load height of 4.25 metres, the maximum allowable gross mass is 22.4 tonnes.
- or (b) At maximum gross mass of 31 tonnes, the maximum allowable load height is 3.63 metres.

The vehicle achieves the minimum SRT of 0.35g at the following weight and height combinations:

Gross Mass (tonnes)	Load Height (m)
31	3.63
30	3.69
29	3.75
28	3.81
27	3.88
26	3.94
25	4.01
24	4.1
23	4.19
22	4.25

Note: Calculated load heights greater than the legal limit of 4.25m have been set to 4.25m

Results of SRT test to be displayed on Certificate of Loading

X1 = 4.25 metres / Y1 = 22 tonnes ; Y2 = 31 tonnes / X2 = 3.63 metres.

The type of test carried out to establish this rating was: LTSA SRT Calculator Version 1.32c

Summary Input Data used for calculation.

Tyre Data:

Axle	Tyre Size:	Tyre Configuration:
1	17.5	Dual
2	17.5	Dual
3	17.5	Dual
4	17.5	Dual


Body Style is Step deck

Inputs	Front	Rear
Load bed height (m):	1.07	0.89
Deck length (m):	2.57	6.7

Mass and Suspension Data:

Inputs	Front	Rear
Gross mass (kg):	15000	16000
Payload mass (kg):	12260	12160
Tare mass (kg):	2740	3840
Average load bed height (m):	0.94	
Average load height (m):	4.25	
Suspension type:	User Defined	User Defined
Suspension track width (m):	0.965	0.965
Lash (mm):	10	10
Suspension brand/model:	Reyco 88 - 0079/01 spring	Reyco 88 - 0079/01 spring
Roll stiffness/axle (Nm/radian):	648512	648512
Spring stiffness/spring (N/m):	1392188	1392188
Roll centre height from axle (m):	0.051	0.051

I certify that I am a vehicle inspector appointed under *section 2 of Land Transport Rule: Vehicle Standards Compliance 2002*. I certify that this certificate complies in all respects with the applicable requirements in that rule, and that, to the best of my knowledge, the information in this certificate is true and correct

Signed: 

Name: **Bruce Sutton**

Vehicle Inspector/Inspecting Organisation No **BJS**
SRT Compliance Certificate no:

Date: **26/11/2009**
S397-UDL™



Static Roll Threshold Compliance Certificate

Name of vehicle owner:

Grays Contracting LTD

Address:

213 Park Road, Carterton

SRT Compliance Certificate no:

S397-COG

Vehicle Identification No.(VIN):

7A9D4501990023853

Vehicle chassis No:

853

Current vehicle registration:

Type of vehicle:

Full-Trailer

No of axles in front set:

2

No of axles in rear set:

2

Deck length of vehicle:

9.27 metres

Maximum height of load or vehicle body:

4.25 metres

Front suspension type:

User Defined

Rear suspension type:

User Defined

I, Bruce Sutton of Domett Truck and Trailer, PO Box 5215, Mt Maunganui certify that

at the time of inspection this vehicle achieved a rating on a Static Roll Threshold test as follows:

Using standard load type: Other

Description: Uses a certifier calculated value for the payload Cg height.

At a max. load height of 4.25 metres and a max. allowable gross mass of 31 tonnes, the SRT is 0.24g

This vehicle fails to meet the minimum SRT standard of 0.35g. It will meet the standard if:

- (a) At maximum load height of 4.25 metres, the maximum allowable gross mass is 16.6 tonnes.

The vehicle achieves the minimum SRT of 0.35g at the following weight and height combinations:

Gross Mass (tonnes)	Payload Cg Height (m)
31	2.28
30	2.31
29	2.34
28	2.37
27	2.41
26	2.44
25	2.48
24	2.52
23	2.57
22	2.61
21	2.66
20	2.72
19	2.79
18	2.87
17	2.96
16	3.06

Results of SRT test to be displayed on Certificate of Loading

X1 = 4.25 metres / Y1 = 16 tonnes ; Y2 = 16 tonnes / X2 = 4.25 metres.

Summary Input Data used for calculation.

Tyre Data:

Axle	Tyre Size:	Tyre Configuration:
1	17.5	Dual
2	17.5	Dual
3	17.5	Dual
4	17.5	Dual

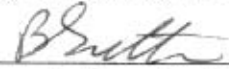
Body Style is Standard

Mass and Suspension Data:

Inputs	Front	Rear
Gross mass (kg):	15000	16000
Payload mass (kg):	12260	12160
Tare mass (kg):	2740	3840
Average load bed height (m):	n/a	
Average load height (m):	4.25	
Payload Cg height(m):	3.0	
Suspension type:	User Defined	User Defined
Suspension track width (m):	0.965	0.965
Lash (mm):	10	10
Suspension brand/model:	Reyco 88 - 0079/01 spring	Reyco 88 - 0079/01 spring
Roll stiffness/axle (Nm/radian):	648512	648512
Spring stiffness/spring (N/m):	1392188	1392188
Roll centre height from axle (m):	0.051	0.051

I certify that I am a vehicle inspector appointed under section 2 of Land Transport Rule: Vehicle Standards Compliance 2002. I certify that this certificate complies in all respects with the applicable requirements in that rule, and that, to the best of my knowledge, the information in this certificate is true and correct

Signed:



Vehicle Inspector/Inspecting Organisation No BJS

SRT Compliance Certificate no:

Name: Bruce Sutton

Date: 26/11/2009

S397-COG