NZ TRANSPORT AGENCY
WAKA KOTAHI

Heavy vehicle specialist certificate

Must be presented to a CoF (heavy) inspecting organisation if not entered into LANDATA

Heavy vehicle specialist inspector's or manufacturing inspecting organisation's name *(PRINT IN CAPS)*: MATTHEW CONNOLLY

ID: MHC

Vehicle registration *(optional)*:

VIN/chassis number: 7A9D45014L2023030

Make: DOMETT

Component being certified:
- [ ] Chassis
- [ ] Load anchorage
- [ ] Log bolsters
- [ ] Towing connection
- [ ] Brakes
- [X] SRT
- [ ] PSV stability
- [ ] PSV rollover
- [ ] Swept path
- [ ] PBS

Model *(optional)*: 2020 D4501

Certification category: HVS2

Description of work: CERTIFY SRT - 4 AXLE FULL TRAILER

Code/standard/rule certified to: NZTA RULE 41001:2016

Component load rating(s): X1 = 4.30m / Y1 = 25t
Y2 = 32t / X2 = 3.90m
LOAD TYPE: UNIFORM DENSITY

General drawing number(s):

Supporting documents: SRT COMPLIANCE CERT # S1185A

Special conditions *(optional)*: S1185B - LOAD TYPE: OTHER (C.G.)
X1 = 4.30m / Y1 = 16t - Y2 = 4.30m / Y2 = 16t

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 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 appointment. To the best of my knowledge the information contained in the certificate is true and correct.

Designer's ID *(if different from inspector below)*:

Inspector's signature: M Connolly

Inspector's name *(PRINT IN CAPS)*: MATTHEW CONNOLLY

ID number: MHC

Date: 10-03-2021

Number: 773758

CoF vehicle inspector ID *(if applicable)*:

CoF vehicle inspector signature *(if applicable)*:

Date:

All fields are mandatory unless otherwise stated.

Static Roll Threshold Compliance Certificate

Name of vehicle owner:	**Bridge It NZ Ltd**
Address:	
SRT Compliance Certificate no:	**S1185A**
Vehicle Identification No.(VIN):	**7A9D45014L2023030**
Vehicle chassis No:	**2030**
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:	**9.37 metres**
Maximum height of load or vehicle body:	**4.30 metres**
Front suspension type:	**Generic Air High Stiffness**
Rear suspension type:	**Generic Air High Stiffness**

I, **Matthew Connolly** of **Domett Truck and Trailer, PO Box 9458, Greerton, Tauranga 3142** 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 4.3 metres and a max. allowable gross mass of 32 tonnes, the SRT is 0.32g
This vehicle fails to meet the minimum SRT target of 0.35g. It will meet the standard if:

(a) At maximum load height of 4.3 metres, the maximum allowable gross mass is 25.2 tonnes.

or (b) At maximum gross mass of 32 tonnes, the maximum allowable load height is 3.9 metres.

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

Gross Mass (tonnes)	Load Height (m)
32	3.9
31	3.95
30	4
29	4.05
28	4.11
27	4.17
26	4.23
25	4.3

Note: Calculated load heights greater than the legal limit of 4.30m have been set to 4.30m

Results of SRT test to be displayed on Certificate of Loading
X1 = 4.3 metres / Y1 = 25 tonnes ; Y2 = 32 tonnes / X2 = 3.9 metres.

The type of test carried out to establish this rating was: NZTA SRT Calculator Version 2.12c

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):	1.09	0.91
Deck length (m):	3.250	6.12

Mass and Suspension Data:

Inputs	Front	Rear
Gross mass (kg):	16000	16000
Payload mass (kg):	13300	12760
Tare mass (kg):	2700	3240
Average load bed height (m):	0.97	
Average load height (m):	4.3	
Suspension type:	Generic Air High Stiffness	Generic Air High Stiffness
Suspension track width (m):	0.98	0.98
Lash (mm):	20	20

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: M Connolly

Name: **Matthew Connolly**

Vehicle Inspector/Inspecting Organisation No **MHC**

Date: **10/3/2021**

SRT Compliance Certificate no:

S1185A

Static Roll Threshold Compliance Certificate

Name of vehicle owner:	**Bridge It NZ Ltd**
Address:	
SRT Compliance Certificate no:	**S1185B**
Vehicle Identification No.(VIN):	**7A9D45014L2023030**
Vehicle chassis No:	**2030**
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:	**9.37 metres**
Maximum height of load or vehicle body:	**4.30 metres**
Front suspension type:	**Generic Air High Stiffness**
Rear suspension type:	**Generic Air High Stiffness**

I, **Matthew Connolly** of **Domett Truck and Trailer, PO Box 9458, Greerton, Tauranga 3142** 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 4.3 metres and a max. allowable gross mass of 32 tonnes, the SRT is 0.26g

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

(a) At maximum load height of 4.3 metres, the maximum allowable gross mass is 16.8 tonnes.

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

Gross Mass (tonnes)	Payload Cg Height (m)
32	2.43
31	2.46
30	2.48
29	2.51
28	2.54
27	2.57
26	2.61
25	2.64
24	2.68
23	2.72
22	2.76
21	2.81
20	2.87
19	2.93
18	3
17	3.08
16	3.17

Results of SRT test to be displayed on Certificate of Loading
X1 = 4.3 metres / Y1 = 16 tonnes ; Y2 = 16 tonnes / X2 = 4.30 metres.

The type of test carried out to establish this rating was: NZTA SRT Calculator Version 2.12c

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):	16000	16000
Payload mass (kg):	13300	12760
Tare mass (kg):	2700	3240
Average load bed height (m):	n/a	
Average load height (m):	4.30	
Payload Cg height(m):	3.1	
Suspension type:	Generic Air High Stiffness	Generic Air High Stiffness
Suspension track width (m):	0.98	0.98
Lash (mm):	20	20

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: MConnolly

Name: **Matthew Connolly**

Vehicle Inspector/Inspecting Organisation No **MHC**

Date: **10/3/2021**

SRT Compliance Certificate no:

S1185B