

Heavy vehicle specialist inspector's or manufacturing inspecting organisation's name *(PRINT IN CAPS)* **INDERJEET SINGH** ID **ISH**

Plate number *(optional)* VIN/chassis number
7 A 9 C 2 0 0 3 9 M 2 0 2 3 1 3 0

Make **DOMETT** Component being certified: Chassis Load anchorage

Model *(optional)* **2022 C2003 PH** Log bolsters Towing connection Brakes

Certification category **HVS2** SRT PSV stability PSV rollover
 Swept path PBS

Description of work
CERTIFY SRT - 3 AXLE SEMI TRAILER

Code/standard/rule certified to **NZTA RULE 41001:2016** Component load rating(s)
X1 = 4.30m / Y1 = 19t

General drawing number(s) **Y2 = 19t / X2 = 4.30m**
LOAD TYPE: UNIFORM DENSITY

Supporting documents **SRT COMPLIANCE CERT #S1274B** INCLUDES
IMPOSED TARE FROM REAR UNIT

Special conditions *(optional)* **S1274A (FRONT UNIT ONLY) X1=4.3m / Y1=16T; Y2=19T / X2= 4.08m**

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
Inderyeet Singh

Inspector's name *(PRINT IN CAPS)* **INDERJEET SINGH** ID number **ISH**

Date **07-04-2022** Number **794748**

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: Mainfreight Ltd
Address:
SRT Compliance Certificate no: S1274B
Vehicle Identification No.(VIN): 7A9C20039M2023130
Vehicle chassis No: 2130
Current vehicle registration:
Type of vehicle: Semi-Trailer
No of axles in front set: 0 **No of axles in rear set:** 3
Deck length of vehicle: 8.230 metres
Maximum height of load or vehicle body: 4.30 metres
Front suspension type: none
Rear suspension type: User Defined

I, **Inderjeet Singh 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 19 tonnes, the SRT is 0.35g
This vehicle meets or exceeds the minimum SRT target of 0.35g.

Results of SRT test to be displayed on Certificate of Loading

X1 = 4.3 metres / Y1 = 19 tonnes ; Y2 = 19 tonnes / X2 = 4.3 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	19.5	Dual
2	19.5	Dual
3	19.5	Dual

Body Style is Step deck

Inputs	Front	Rear
Load bed height (m):	1.372	1.057
Deck length (m):	4.15	4.080

Mass and Suspension Data:

Inputs	Rear
Gross mass (kg):	19000
Payload mass (kg):	14040
Tare mass (kg):	4960
Average load bed height (m):	1.22
Average load height (m):	4.30
Suspension type:	User Defined
Suspension track width (m):	0.940
Lash (mm):	90
Suspension brand/model:	SAF Intradisc IU25/2000RZ-68A
Roll stiffness/axle (Nm/radian):	1200000
Spring stiffness/spring (N/m):	470000
Roll centre height from axle (m):	0.05

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: Inderjeet Singh

Name: **Inderjeet Singh**

Vehicle Inspector/Inspecting Organisation No **ISH**

Date: **7/4/2022**

SRT Compliance Certificate no:

S1274B

Print the Certificate

Finish

Static Roll Threshold Compliance Certificate

Name of vehicle owner: Mainfreight Ltd
Address:
SRT Compliance Certificate no: S1274A
Vehicle Identification No.(VIN): 7A9C20039M2023130
Vehicle chassis No: 2130
Current vehicle registration:
Type of vehicle: Semi-Trailer
No of axles in front set: 0 **No of axles in rear set:** 3
Deck length of vehicle: 8.230 metres
Maximum height of load or vehicle body: 4.30 metres
Front suspension type: none
Rear suspension type: User Defined

I, **Inderjeet Singh 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 19 tonnes, the SRT is 0.33g
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 16.7 tonnes.
or (b) At maximum gross mass of 19 tonnes, the maximum allowable load height is 4.08 metres.
The vehicle achieves the minimum SRT of 0.35g at the following weight and height combinations:

Gross Mass (tonnes)	Load Height (m)
19	4.08
18	4.17
17	4.25
16	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 = 16 tonnes ; Y2 = 19 tonnes / X2 = 4.08 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	19.5	Dual
2	19.5	Dual
3	19.5	Dual

Body Style is Step deck

Inputs	Front	Rear
Load bed height (m):	1.372	1.057
Deck length (m):	4.15	4.080

Mass and Suspension Data:

Inputs	Rear
Gross mass (kg):	19000
Payload mass (kg):	15420
Tare mass (kg):	3580
Average load bed height (m):	1.22
Average load height (m):	4.30
Suspension type:	User Defined
Suspension track width (m):	0.940
Lash (mm):	90
Suspension brand/model:	SAF Intradisc IU25/2000RZ-68A
Roll stiffness/axle (Nm/radian):	1200000
Spring stiffness/spring (N/m):	470000
Roll centre height from axle (m):	0.05

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: Inderjeet Singh

Name: **Inderjeet Singh**

Vehicle Inspector/Inspecting Organisation No **ISH**

Date: **7/4/2022**

SRT Compliance Certificate no:

S1274A

Print the Certificate

Finish

Domett Truck & Trailer Ltd
Taurikura Drive & Kennedy Road
Tauriko, Tauranga

PDS



Date: 7/04/2022

Job Number: 8508

Certifier: Inderjeet Singh

ID: ISH

Client: Mainfreight Ltd

Vehicle Details

Make:	Domett	Model:	C2003 PH	Trailer GVM:	33000 kg
VIN number:	7A9C20039M2023130	Chassis Number	2130	Rego:	
				Hubo:	

Standards / Codes the design must comply with

41001

Component

SRT	<input checked="" type="checkbox"/>	Certificate Number	S1274B	X1	4.3 m
Load Type	Uniform Density			Y1	19 t
				Y2	19 t
				X2	4.3 m

LT400

LT400 Number

Certify

YES NO

I understand and declare that I am the Certifier identified above and hold a current valid appointment. I certify that at the time of inspection the above mentioned vehicle components and this certification complied in all respects with the LTSA rule Vehicle Standards Compliance 2002 and the Deed of Appointment. To the best of my knowledge the information contained in this certificate is true and correct.

Certifier Signature:

Date: