

## Heavy vehicle specialist certificate

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

Heavy vehicle specialist inspector's or manufactur	ing inspecting organisat	ion's name (i		JEH
Plate number (optional)	7 A 9		017N2	023197
Make <b>DOMETT</b>	Component being		Chassis	Load anchorage
Model (optional) E2001 PH	Log bolsters		Towing connection	<b>X</b> Brakes
Certification category <b>HVEK</b>	SRT Swept path	•	PSV stability PBS	PSV rollover
Description of work				
CERTIFY TO SCHEDULE 5 OF L	TR 32015/5: NZ I	HEAVY VE	EHICLE BRAKE SPE	C!FICATION.
CARRY OUT BRAKE CALCULAT	TONS, INSPECTI	ON AND	ECU END OF LINE P	ROTOCOL.
5AFT CURTAINSIDE		RSS ON	TYRE: 265 70 R19.5	5
FOR SYSTEM ARCHITECTURE, REASON FOR CERTIFICATE:	PLEASE REFER NEW TRAILER		WORKSHEET & SCH	HEMATIC.
Code/standard/rule certified to LTR 32015/5		Componer	nt load rating(s) 32 Tonnes GV	M
General drawing number(s)  N/A		nt brake mass) r brake mass)		
BRAKE CALCULATION #  Special conditions (optional)  WARNING LAMP MUST ILLUMIN				EN
EXTINGUISH IMMEDIATELY OR  Certification expiry date (if applicable)  N/A [UNLESS MODIFIED]  Declaration  I the undersigned, declare that I am the heavy vehicles	or cle specialist	Hubodome	eter reading (whichever comes firs	
inspector identified and I hold a current valid appoind certify that the above mentioned vehicle componer manufacture and installation, and this certification in all respects with the Land Transport Rule: Vehicle Compliance 2002 and my appointment. To the best knowledge the information contained in the certificand correct.	nt's design, complies e Standards t of my	Inspector's  Date	13/10h	
CoF vehicle inspector ID (if applicable)	CoF vehicle inspecto	r signature (i	applicable) Date	

All fields are mandatory unless otherwise stated.

NewZealand Government Form ID LT400 Version No. 12/20





# NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015-5 WORKSHEET, PROCEDURE DOCUMENTATION SHEET & CONFIRMATION OF COMPLIANCE

CLIENT	A RESIDENCE						
MANUFACTURER:	DOMETT TRAILERS						
ADDRESS:	TAURIKURA DRIVE, TAURANGA 3110						
FLEET:	MAINFREIGHT						
VEHICLE DETAILS							
VEHICLE TYPE:	5AFT CURTAINSIDE	CERT #:	JH220806				
YEAR:	2022	CALCULATION #:	TP52534				
MAKE:	DOMETT	REGO #:	N/A				
MODEL:	E2001 PH	LT400 #:	814594				
CHASSIS #:	2197	ORDER #:	8435				
VIN #:	7 A 9 E 2 O O 1 7 N 2 O 2 3	197					
GVM: t	32	PRIME MOVER:	UNKNOWN				
LOAD CONFIGURATION:	MIXED FREIGHT						
<b>GROUP RATINGS:</b> t	FRONT	REAR					
	16	19					
WHEEL BASE: m	7.44						
	UNLADEN COG m	MAX HEIGHT m	HEIGHT DECK m				
	1.03	4.3	1.09				
COG: m	2.080						
	FRONT	REAR	TOTAL				
TARE: t	3	4	7				
	FRONT	REAR					
TYRE SIZE:	265 70 R19.5	265 70 R19.5					
ROLLING CIRCUMFERENCE: mm	2645	2645					
AXLE SPACING: m	1.31	2.51					

## SUSPENSION

**REAR CHAMBER:** 

**DUOMATIC COLOUR CODED:** 

	FRONT	REAR	
SUSPENSION TYPE:	PNEUMATIC	PNEUMATIC	
MAKE:	SAF_AIRSPRING	SAF_AIRSPRING	
MODEL:	SAF_INTRA	SAF_INTRA	
BELLOW SIZE:	2619, 300mm	2619, 300mm	
HEIGHT CONTROL VALVE:	HALDEX 90554950	HALDEX 90554950	
OTHER VALVES:	N/A	N/A	
RIDE HEIGHT mm:	260	260	
HANGER HEIGHT mm:	200	200	]
PEDESTAL HEIGHT mm:	50	50	]
LIFTAXLE:		N/A	
TIPPING DUMP SWITCH:		N/A	]
LIFTAXLE VALVE:		N/A	]
PRESSURE LIMITING:		N/A	]
AIR TANKS			
AIR TANKS STANDARD:	SAE J10A /	EN286-2	]
	FRONT	REAR	
BRAKE TANK SIZE: L	46	46 + 25	]
AUXILLARY TANK SIZE: L	N/A	46	
PRESSURE PROTECTION:	WABCO PEM: 4	]	
AIR LINES	是大型 有工工程		
TEST POINTS:			
CONTROL LINE:	X 1	TANK:	X 1

X 2

YES

FRONT CHAMBER:

X 1





### NOTICE TO VEHICLE OPERATOR

THIS VEHICLE HAS A BRAKE SYSTEM WHICH HAS BEEN DESIGNED AND FITTED IN ACCORDANCE WITH THE LAND TRANSPORT HEAVY VEHICLE BRAKE RULE 32015/5.

IF THIS VEHICLE IS OPERATED IN CONJUNCTION WITH NON-CERTIFIED VEHICLES, THERE MAY BE OPERATIONAL FACTORS WHICH NEED TO BE TAKEN INTO CONSIDERATION.

PLEASE REFER TO THE CERTIFIER FOR FURTHER INFORMATION.

EXCERPT FROM LAND TRANSPORT RULE; HEAVY-VEHICLE BRAKES RULE 32015/5. SECTION 10,

#### 10.1 RESPONSIBILITIES OF OPERATORS

A person who operates a vehicle must ensure that the vehicle complies with this rule.

#### 10.2 RESPONSIBILITIES OF REPAIRERS

A person who repairs or adjusts a brake must ensure that the repair or adjustment:

- a) does not prevent the vehicle from complying with this rule;
- b) complies with Land Transport Rule: Vehicle Repair 1998.

#### 10.3 RESPONSIBILITIES OF MODIFIERS

A person who modifies a vehicle so as to affect the braking performance of the vehicle must:

- a) ensure that the modification does not prevent the vehicle from complying with this Rule; and
- b) notify the operator that the vehicle must be inspected and, if necessary, certified by person or organisation appointed to carry out specialist inspection and certification of heavy vehicle brakes.

IF YOU ARE UNSURE ABOUT YOUR RESPONSIBILITIES, PLEASE CONTACT THE VEHICLE MANUFACTURER, OR MYSELF.

COMPLAINTS. Complaints and Warranty issues which relate to Brake Certification will be acknowledged within 7 working days and a resolution proposed within 25 working days. Resolution of complaints and Warranty issues is subject to Transpecs Warranty policy. Customers have the right to appeal to the New Zealand Transport Authority if dissatisfied with a Compliance issue. (Refer NZTA Deed Of Appointment Para 47.4) XZTA Helpdesk 0800 699 000

(J.Hirst (JEH) HVEK)

distribution: DOMETT TRAILERS

7A9E20017N2023197 SODC: JH220806 LT400: 814594

please note!

This brake calculation is made under consideration of the legal precriptions mentioned above in the version valid at the time of making the program (V6.18.07.12). the functional characteristics of our products as well as the data of the brake out of the test approvals of the axle manufacturers, and -the other vehicle data included in the brake calculation -the unier verifice data included in the brake calculation.

Please check whether these data correspond to the actual vehicle data.

Our conditions of delivery apply (particularly section 9.0).

In any case we commend to do a braking harmonisation!

WABCOBrake V5.18.07.12 db 31.08.2018

vehicle manufacturer: DOMETT TRAILERS

trailer model : 5AFT CURTAIN SIDE trailer type : 5-axle-full-trailer

remarks : air / hydraulic / VA suspension

WABCO TRAILER - EBS E TRISTOP 3+4: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED -

SEE PAGE 7 FOR PERFORMANCE DATA

265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5: SAF, SBW 1937, TDB 0749 ECE,

			ur	nladen		laden
total mass	P in kg			6900		35050
axle 1	P1 in kg			1500		8000
axle 2	P2 in kg			1500		8000
axle 3	P3 in kg			1300		6350
axle 4	P4 in kg			1300		6350
axle 5	P5 in kg			1300		6350
wheel base	E in mm		7400 -	- 7500		
centre of gravity height	h in mm			1030		2080
		axle 1	axle 2	axle 3	axle 4	axle 5
no. of combined axles		1	1	1	1	1
no. of brake chambers per ax		2	2	2	2	2
The power output corresponds	to		BZ 122.1			
brake chamber manufacturer		Meritor	Meritor	Meritor	Meritor	Meritor
chamber size		20.	20.	T.14/24	T.14/24	14.
lever length	lBh in mm	69	69	69	69	69
brake factor	[-]	23.03	23.03	23.03	23.03	23.03
	lyn min in mm	421	421	421	3 50 0 50 0	421
	lyn max in mm	421	421			421
threshold torque	Co Nm	6.0	6.0	6.0	6.0	6.0
calculation:		2 2				
chamber pressure (rdyn min) pl	1 at z=22,5%bar	2.2	2.2	2.1	2.1	2.1
chamber pressure(rdyn max)pl		2.2	2.2	2.1	2.1	2.1
chamber press.(servo)pcha at	_ ,	5.9	5.9	4.8	4.8	4.8
	pm6,5bar N	6825	6825	4586	4586	4586
brake force (rdyn min) T lad. a		51709	E. 7000 D.7	34623		34623
brake force(rdyn max)T lad. a Brake force incl. 1 % rolling	it pm6,5bar N	51709	51709	34623	34623	34623
proportion	) resistance %	22.3	22.3	10 -	10 -	10 5
Proborcion	б	22.3	44.3	18.5	18.5	18.5

braking rate z laden 0.603 for rdyn min z = sum (TR)/PRmax0.603 for rdyn max

Trailer may only be operated in combination with trucks/tractors with ISO 7638 supply (5 or 7 polar).

axle 4:

valve 1: 971 002 ... 0 WABCO

EBS emergency valve

valve 2: 480 102 ... 0 WABCO

EBS trailer modulator

brake cylinder: Meritor 1424HTLD64

axle 5:

valve 1: 971 002 ... 0 WABCO

EBS emergency valve

valve 2: 480 102 ... 0 WABCO

EBS trailer modulator

brake cylinder: Meritor 14HSCLD64

test type III (zIII = 0.30) for rdyn min : axle1 axle2 axle3 axle4 axle5  Tansport Special. -brake calculation no: TP 52534A date 07.07.2022 page 5 / 8

vehicle manufacturer: DOMETT TRAILERS trailer model : 5AFT CURTAIN SIDE trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1: 2 x type/diameter 20. (Meritor) lever length 69 mm axle 2: 2 x type/diameter 20. (Meritor) lever length 69 mm axle 3: 2 x type/diameter T.14/24 (Meritor) lever length 69 mm axle 4: 2 x type/diameter T.14/24 (Meritor) lever length 69 mm axle 5: 2 x type/diameter 14. (Meritor) lever length 69 mm lever length 69 mm lever length 69 mm

brake diagram :

valve :

971 002 ... 0

WABCO EBS emergency valve WABCO EBS relay valve WABCO EBS trailer modulator 480 207 0.. 0 or 480 207 2.. 0

480 102 ... 0

EBS input data \_\_\_\_\_

vehicle manufacturer: DOMETT TRAILERS trailer model : 5AFT CURTAIN SIDE trailer type : 5-axle-full-trailer

brake calculation no. : TP 52534A

tire circumference main axle : 2650 for rdyn max tire circumference auxiliary axle : 2650 for rdyn max

assignment pm / deceleration z: pm 0.7 bar z = 0.010(laden condition) 2.0 bar z = 0.142

6.5 bar z = 0.600

	contro	ol pressure pm	6,5	contro	l pressure pm	0.7	2.0	6.5
axle	axle load unladen	bellow pr. unladen	brake pr. unladen	axle load laden	bellow pr. laden		ake p laden	
1	1500	to be	2.0	8000	to be	0.4	1.4	5.9
2	1500	entered by	2.0	8000	entered by	0.4	1.4	5.9
3	1300	the vehicle	1.7	6350	the vehicle	0.3	1.5	4.8
4	1300	manufact.	1.7	6350	manufact.	0.3	1.5	4.8
5	1300		1.7	6350		0.3	1.5	4.8

The unladen values indicated in the above table are values for the basic parameter set. Higher unladen axle loads and liftaxles are automatically recognized and do not require separate adjustment. The above unladen axle loads must not be fallen below.

\_\_\_\_\_

axle 1 1500 2000 2500 3000 3500 4000 4500	1 load pcyl 2.0 2.3 2.6 2.9 3.2 3.5 3.8	axle 2 axle los 1500 2000 2500 3000 3500 4000 4500	ad pcyl 2.0 2.3 2.6 2.9 3.2 3.5 3.8	axle 3 axle loa 1300 1800 2300 2800 3300 3800 4300	ad pcyl 1.7 2.0 2.3 2.6 2.9 3.2 3.5	axle 4 axle local 1300 1800 2300 2800 3300 3800 4300	ad pcyl 1.7 2.0 2.3 2.6 2.9 3.2	axle 5 axle lo 1300 1800 2300 2800 3300 3800 4300	1.7 2.0 2.3 2.6 2.9 3.2
								4300 4300 4800 6350	3.2 3.5 3.8 4.8

#### spring parking brake

no of TRISTOP-actuators per axle line KDZ TRISTOP-actuator type lever length lBh in mm stat. tyre radius rstat max in mm	2	
at a stroke of s in mm min. force of spring brake TFZ in N sp.brake chamber no Meritor release pressure pLs in bar	30 6160 4 4.8	6160 4
<pre>calculation:</pre>		
<pre>ratio until road iFb = lBh*Eta*C*rBt/(rBn*rstat)</pre>	3.9674	3.9674
for rstat in mm brake force of spring br. Tf in N	401 48188	401 48188

Tf = (TFZ\*KDZ-2\*Co/1Bh)\*iFb

zf laden

0.290

braking rate zf = sum (Tf)/P + 0,01

#### Test of the frictional connection required by the parking brake

minimum wheelbase/minimum supporting width min Ef necessary to fulfil the regulations

min Ef = E \* (1 - PR/P + zferf \* h/E) / (1 - zferf / (fzul \* nf/ng))

min Ef = 5664 mm for E = 7400 mm=========== min Ef = 5733 mm for E = 7500 mm============

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min Ef =
                 minimum distance between front axle(s) (trailer) or support (semitrailer)
and the rear axle(s) (resultant of the bogie)
E
                  wheel base
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wheel pase
0.80 maximum permissible frictional connection required fzul zferf = 0.18 maximum required braking ratio of the parking brake 2080 mm height of center of gravity - laden =

h PR

P

= 19050 kg maximum bogie mass - laden = 35050 kg maximum total mass - laden = 2 no. of axle(s) with TRISTOP spring brake actuators 2 nf

3 no. of bogie axle(s) ng



