NZ TRANSPORT AGENCY
WAKA KOTAHI

ROADMARKING PAINT APPLICATOR
CERTIFICATE OF COMPLIANCE WITH NZTA T/8: 2026

The New Zealand Roadmarkers Federation Inc

Applicator Type:	**B Umbilical**	**Applicator Chassis No:**	**RSK/TR**		
Registration No:	**RSK693**	**Applicator Make:**	**2026 Tracgrip Trolley**		
Owner:	**Downer NZ Ltd**	**Applicator Fleet No:**	**181232**		
Address:	**133 Main South Road, Green Island, Dunedin**		**Tank 1**	**Tank 2**	**Tank 3**
		No. & Capacity of Paint Tanks:	**600**	**300**	
		No. & Capacity of Bead Tanks:	**75**		

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APPLICATION SPEEDS FOR 180 µm NOMINAL THICKNESS

Line Width	100mm	150mm	200mm
Travel Speed (kph) - T/8 Test	2.03	1.73	1.18
No. of Paint Nozzles Used		1	1
No. of Bead Dispensers Used			1

APPLICATOR EQUIPMENT

Designation	Make and Model	
Pump 1	Graco Big Rig (White)	
Pump 2	Graco Big Rig (Yellow)	
Pump 3		
Paint Gun 1 / Gun 2	Graco Contractor	Graco Contractor
Paint Gun 3 / Gun 4		
Bead Gun 1 / Gun 2	Handok Shovel	
Compressor Make / Model	DynaSet 169310-006500	

ENTRY QUALIFICATION

Previous T/8 Certificate Expiry Date: **N/A**

RSK-2608-TR

The New Zealand Roadmarkers Federation Inc

REGISTRATION DETAILS

NZRF STAMP & UNIQUE NUMBER

RECORD OF COMPLIANCE

Testing Officer: **P Del Favero**

Company: **Downer NZ Ltd**

Signed:

APPLICATOR PHOTOGRAPH



EXPIRY DATE: **18/08/2027**

NZ TRANSPORT AGENCY
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The New Zealand Roadmarkers Federation Inc

NZTA T/8:2026

CERTIFICATION

CHECKLIST

Rev 28 July 2026

The purpose of this checklist is to provide prompts while conducting the visual examination of paint applicators required during the testing of roadmarking applicators in accordance with NZTA T08: 2026.

Reference needs to be made to the NZTA / NZRF Testing Officer Guide for interpretations and guidance

Clause reference NZTA T08:2026
Clause reference NZRF Testing Officer Guidelines

UNLESS OTHERWISE LISTED, REFERENCE TO PUBLICATION REFERS TO THE LATEST EDITION AND INCLUDES THE LATEST AMENDMENTS OR REVISIONS.

Test No:	TC-26
Applicator:	RSK693/TR
Owner:	Downer NZ Ltd
Testing Officer:	P Del Favero
Checked By:	D Elder
Test Dates:	18/08/2026

11.1	*Applicator Type*				
Please select correct option				B Umbilical	
11.2	Vehicle Description: (Make / Model / Year)	2026 Tracgrip Trolley			
11.2	Chassis Number	RSK/TR	Location	By Handlebars	
	Fleet/ Plant No.	181232			
11.2	Owner: (Name and Address)	Downer NZ Ltd 133 Main South Road, Green Island, Dunedin			
	Entry Qualification				
7.4	Entry Qualification:	New Initial			
7.6.4	Date of Last T/8:	N/A			
7.6.3	Date of Last Confirmation:	N/A			
	Compliance with Transport Regulations				
10.1	NZTA Registration Plate No:	RSK693	Expiry Date:	25/03/2027	
	Gross Vehicle Mass	8500kg	Tare Weight	59800kg	Load Cert	YES
	Vehicle Fitness Type	Certificate of Fitness		Expiry Date:	30/09/2026
	Dangerous Goods Signs and Labels on vehicle and load *(Including facilities for changing in line with product changes)*				N/A
	Dangerous Goods Declaration and emergency procedures				N/A
	Correct driver's Licence with D Endorsement / Approved Handler				YES
	Dual Steer Conversion Certification (*only on initial inspection or when modified*)				YES
	Load Restraint Certification / Plate				N/A
	Load securing devices comply with Transport Regulations and Truck Loading Code				N/A
	Vehicle complies with Vehicle Dimensions and Mass Rule				YES
	Compliance with the Hazardous Substances and New Organisms Act and Regulations				
10.1	*(Attach references to EPA Group Standard Requirements for Product Loaded)*				
	Paint Type Loaded & Approval Codes: Group Standards.	Geveko Waterbourne White / Yellow			
	Vehicle and paint storage vessels correctly signed and / or placarded				YES
	Emergency procedures appropriate / available				YES
	Emergency Systems clearly identified and operable				YES
	Spill Kit Type / Quantity	Universal Liquids 30L spill kit			
	Fire Control Equipment				
	Type / Size	Dry Powder 9kg x 2	Date Last Tested	1 August 2026	
	Type / Size	Dry Powder 1.5kg x 1	Date Last Tested	1 August 2026	
	Compliance with the Health and Safety in Employment Act and Regulations				
10.1	*Pressure Systems*				
	Compressor				
	Compressor Make / Model	DynaSet 169310-006500			
	Capacity (cfm)	40 cfm			
	Drive (make/model)	Isuzu - PTO Live Drive			
	Rating of compressor drive motor (kw)	160.3			
	Pressure Relief Valves / Bursting Disks (Setting / Rating in psi)				
	Bead Tanks PSI	Tank 1	15	Tank 2	
	Air Receivers PSI		150		
	Air Receiver Volume Litres		32		

10.1	Pressure Indicating Systems function				
	Attach copy of determinations carried out by appropriate person				YES
	Attach copy of Test Certificates for pressure vessels with C Ratings				YES
	Attach copy of Technical Data Sheets for Paint and Hydraulic Hoses				YES
	AS4343 Hazard Ratings: Rating Values (C / D / E)				
	Bead Tank 1	E	Air Receivers	D	
	Bead Tank 2	N/A	Paint Hoses	C	
	Compressor Power	D	Hydraulic Hoses	C	
	Bead Hoses	N/A			
	Operating Positions, Catwalks and Ladders:				
	Adequate size and design				YES
	Convenient Access to Ground Level				YES
	First Aid Kit				
	Available, suitable, maintained in good condition				YES
	Exhaust Safety				
	Directed such that fumes do not reach driver or operators				YES
	No danger of ignition of flammable products				YES
	Noise Level below “Threshold of possible damage” or labelled				YES
	Machine Guarding				
	Prevents access to dangerous parts of machinery				YES
	Securely attached, removable only by using tools				YES
	Compliance with Temporary Traffic Management Requirements				
10.1.36	*(Refer to NZGTTM):*				
	Signs - (Type and Location)		Roadmarking Front. Rear Roadmarking on Arrowboard		
	Warning Beacons - (Type and Number)		6 x Led Flashing Beacons		
	Arrow Board (Type and Number)		Tracgrip Double sided VMS Board		
	Intercommunication - (Type)		RT's		
	Technical Requirements – All Applicators				
11.2.2	*Paint Pumps*	Make and Model			
	Pump 1	Graco Big Rig (White)			
	Pump 2	Graco Big Rig (Yellow)			
	Pump 3				
11.3.5	*Paint supply tanks*				
	No.1 Capacity (L)	600	No. 2 Capacity (L)	300	No. 3 Capacity (L)
	Ability to dilute / modify / mix paint in accordance with supplier instructions				YES
	Paint Gauging System				
	Location in approved Quality Assurance Procedures				YES
	Type (Computer / Dip stick)				Computer
	Graduated in				Litres
	Gauging system described in QA documentation				YES
11.3.3	*Bead supply tanks*				
	No. 1 Capacity (Kg)	75	No. 2 Capacity (Kg)		
	Spray Guns	Make / Model	Make / Model		
	Paint Gun 1 / Gun 2	Graco Contractor	Graco Contractor		
	Paint Gun 3 / Gun 4				
	Bead Guns	Make / Model	Make / Model		
	Bead Gun 1 / Gun 2	Handok Shovel			
	Adequate control equipment for control of application rate and embedment				YES
	Paint and bead guns mounted independent of load and road conditions				YES
	Gun mount system		Guns are mounted on Trolley chassis		
11.3.6	*Cleaning Equipment*				
	Any fitted cleaning equipment is a permanent fixture				N/A
11.3.2	*Applicator Controls*				
	All applicator controls conveniently located and clearly marked				YES
	All applicator control instruments readily removable for calibration / repair				YES
	Speedometer make and model	Cateye Wireless			
	Speedometer Type	Digital	Calibrated within 10%		YES
	Speedometer correctly located near operator line of sight and no parallax errors				YES
	Digital speedometer minimum resolution within 5% of slowest marking speed				YES
	Analogue speedometer >3mm spacing	N/A	Less than 5 % of slowest marking		N/A
	Digital speedometer readable to at least 5% of slowest marking speed				YES
11.3.10	*Segmented Line Equipment - N/A for umbilical Type B*				
	Intermittent line device		N/A		

	Adjustable time delay Bead Gun (Type or NA)	N/A		
10.1.51	*Power and Control*			
	Speed within ±10% on ±12% grade (lowest speed)			YES
	Speed within ±10% on ±12% grade (highest speed)			YES
	Technical Requirements Type A Paint Applicator			
11.4.1	Ability to control vehicle and application equipment from both right and left sides			
	Ability to apply all longitudinal markings in traffic direction of travel			
	Apply paint and beads on left and right side of vehicle			
11.4.2	Guide Arms adequate and complete, mountable on both sides of the vehicle			
	Guide arm in in view of operator from normal operating position			
11.4.3	Applicator is permanently fitted with cleaning equipment			
	Cleaning equipment operational continuously during road marking operation			
	Cleaning device on left and right side of vehicle			
	Cleaning device type			
	Technical Requirements All Type B Paint Applicators			
11.5.1	Length of Applicator *Operator-mounted Type B and B1 applicators no greater than 2.75m long*		m	
	Pedestrian controlled Type B and B1 applicators no greater than 2.5m long		m	
11.5.2	Applicator can reach operating speed in less than 0.7m			YES
11.5.3	All applicators can mark transverse lines to within 300mm of kerb edge			YES
11.5.4	All applicators capable of painting turn lane arrows			YES
11.5.2	Motive Power			
	Acceleration capability			Apparent
11.5.3	Transverse line capability			Apparent
11.5.4	Turn Arrow capability			Apparent
	Technical Requirements Type B1 Paint Applicators			
11.6.2	Ability to apply both longitudinal and transverse markings			
	Ability to control vehicle and application equipment from both right and left sides			
	Apply paint and beads on left and right side of vehicle			
11.6.3	Guide Arms adequate and complete, mountable on both sides of vehicle			
	Guide arm is in view of operator from normal operating position			
11.6.4	Applicator is permanently fitted with cleaning equipment			
	Cleaning equipment operational continuously during road marking operation			
	Cleaning device on left and right side of vehicle			
	Cleaning device type			
	Technical Requirements Type B Umbilical Paint Applicator			
11.71	*Note: The Mother Vehicle needs to be checked for compliance against the requirements for all applicators.* *Where the Mother Vehicle has been checked as part of an applicator inspection, these details may be used, however equipment specific to umbilical must be clearly identified.*			
	Mother Vehicle One	2026 Isuzu NQR500	General Inspection completed	YES
	Mother Vehicle Two		General Inspection completed	
	Motive power system			Manual
11.7.2	Umbilical applicator demonstrated to maintain a stable marking position			YES
11.7.3	*Hose control system*			
	Description	Hose controlled by overhead boom		
	Hoses clear from kinking, snagging and do not run over freshly painted surface			YES
	Technical Requirements Transport Trailer / Vehicle			
10.3	NZTA **Vehicle** Registration No:		Expiry Date:	
	Tare Weight			
	Vehicle Fitness Type		Expiry Date:	
	NZTA Trailer Registration No:		Expiry Date:	
	Trailer Fitness Type		Expiry Date:	
	Dangerous Goods Signs and Labels on vehicle and load *(Including facilities for changing in line with product changes)*			
	Dangerous Goods Declaration and emergency procedures			
	Correct driver's Licence with D Endorsement / Approved Handler			
	Load Restraint Certification / Plate			
	Load securing devices comply with Transport Regulations & Truck Loading Code			

Completion checklist						
Inspection completed and no outstanding deficiencies						
Test Prompts						
Nominated Film Thickness (um)						
12.4.4	Cleaning Test (Test one)	Pump (W/Y) and Side (L/R)	WHITE	RIGHT	Paint and sand clean	N/A
12.4.5	Straight Continuous Line (Test two)	Pump (W/Y) and Side (L/R)	WHITE	RIGHT	Paint and straighness	YES
12.4.6	Beaded Segmented Line (Test three)	Pump (W/Y) and Side (L/R)	N/A	N/A	Paint, seg. Spacing and bead delay	N/A
12.4.7	Mark a Reflectorised Line (Test four)	Pump (W/Y) and Side (L/R)	YELLOW	RIGHT	Paint and bead rate	YES
Power and control						
Speed within ±10% on ±12% grade (lowest speed) Y / N						YES
Speed within ±10% on ±12% grade (highest speed) Y / N						YES
Notes:						

Photographic Records Required – Vehicle Inspection

All photographs to be taken with digital camera (4 Megapixel or greater) with date stamp function activated. Images to be in excess of 500kb
Additional photographs may be included
Photographs to be printed (B and W acceptable) maximum of two (2) to fill an A4 page and attached to Test Records. Electronic file of the photographs are to be maintained for audit purposes.
All photographs to be time stamped
Refer NZRF Testing Officer guidelines for photographic examples

Item (NZTA T08 Clause)	Description	
11.2	Vehicle Description:	YES
	(Make / Model / Year) i.e. Photo for Certificate	YES
11.2.1	Chassis Number: - Vin Plate or Assigned No.	YES
10.3	NZTA Registration Label	YES
	NZTA Load Certificate	YES
	NZTA COF/WOF showing Expiry	YES
	Dangerous Goods Signs and Labels / Facility for changing in line with product	N/A
	Load Restraint Certification / Plate	N/A
	Load securing devices comply with Transport Regulations and Truck Loading Code (include plate as applicable)	N/A
10.2	Paint Type Loaded (Drum labels)	YES
	Vehicle and paint storage vessels correctly signed and / or placarded	YES
	Spill Kit Type / Quantity	YES
	Fire Extinguishers with Inspection label	YES
10.1 and 11.2.2	Pressure Relief Valves and or Burst Disks	YES
	Certification Plate on Bead Tank	N/A
	Pressure Gauge Condition / Function	YES
	Operating Positions, Catwalks and Ladders (Include handholds as appropriate)	YES
11.3.6	Photograph of TMP equipment mounted on applicator, i.e. Sign(s), beacons and arrow-board	YES
11.4	Apply paint and beads on left and right side of vehicle	N/A
	Cleaning device on left and right side of vehicle	N/A
Photographic Records Required – Testing		
	Test Strip Full Length, Applicator and Testing Officer	YES
	Applicator painting a run on the Left Side – where applicable	N/A
Cleaning Test Test 1	A and B end Plates after painting Sand clean if applicable	YES
Straight Continuous Line Test 2	A and B end Plates after painting	YES
Automatically Mark a Beaded Segmented Line Test 3	A end Plate after painting	N/A
Automatically Mark a Beaded Segmented Line Test 3	Full length of Strip to show Segments and Gaps	N/A
Automatically Mark a Beaded Segmented Line Test 3	Start and Stop ends of a segment to show full bead coverage	N/A
Automatically Mark a Beaded Segmented Line Test 3	Segment and Gap measurements	N/A
Mark a Reflectorised Line Test 4	A and B end Plates and Plastizotes after painting	YES
Mark a Reflectorised Line Test 4	Passing A and B Plastizotes on scales	YES
Turn Arrow	Turn Arrow – where applicable	N/A

I, the undersigned Testing Officer, certify that the inspection and testing of the above applicator has been carried out in accordance with the requirements of NZTA T08, and that the results recorded are, to the best of my knowledge and belief, true and correct.

TEST NO:	TC-26	Testing Officer		Checked By
Applicator	RSK693/TR	P Del Favero		D Elder
Date	18/08/2026	18/08/2026		24/08/2026

Paint Applicator: RSK693/TR

Controller of pressure vessels: Reece Smith

Assessor: P Del Favero

Date of Assessment: 18/08/2026

HAZARD CODE	REQUIREMENT	MACHINARY (Pumps & Compressors)	TANKS	PIPING
E	*No Certificates or Competent Person*		up to 30	up to 150
D	*Competent Person*	over 25kw	30 to 100	150 to 250
C	*Certificates Required*		100 to 1000	250 to 500

PUMPS & COMPRESSORS

Basis: Pumps & Compressors over 25kw has D Hazard Rating

Motor Horsepower

BHP	Motor KW	Hazard Code	
215	160.3	D	Competenct Person

COMPRESSOR AIR RECEIVER

Operating Pressure Psi	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
150	32	1.0	99	D	Competenct Person

BEAD TANKS

Vessels filled with air & beads and transportable

Bead Tank One *TV Factor* 1

Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
15	75	44	0.1	5	E	Negligilbe Hazard

Bead Tank Two *TV Factor* 1

Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
		0	0.0	0	N/A	N/A

BEAD LINES

Bead Lines - hoses carrying a mixture of beads and air

Note: If D is less than or equal to 32mm and pressure is less than 10MPa No Rating

Operating Pressure Psi	Diameter mm	Pressure Mpa	Rating Value	Hazard Code	
	35	0.00	0	N/A	N/A

PAINT LINES

Piping filled with paint and on transportable equipment

Note: If D is less than or equal to 32mm and pressure is less than 10MPa No Rating

Operating Pressure Psi	Diameter mm	Pressure Mpa	Rating Value	Hazard Code	
2500	10	17.2	517	C	Certificate Required

The NZRF and QSL cannot accept any liability with regard to the use of this spreadsheet in the determination of Hazard Ratings in accordance with AS 4343:1999 and the HSE (Pressure Equipment)Regulations.

HYDRAULIC HOSES

Piping filled with fluid and on transportable equipment

Note: If D is less than or equal to 32mm and pressure is less than 10MPa No Rating

Operating Pressure Psi	Diameter mm	Pressure Mpa	Rating Value	Hazard Code	
5000	10	34.5	1034	C	Certificate Required

Accumulators

Vessels filled with air, paint, and/or hydraulic fluid and transportable

Bead Tank One *TV Factor* 1

Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
0	0	0	0.0	0	N/A	N/A

Bead Tank Two *TV Factor* 1

Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
0	0	0	0.0	0	N/A	N/A

Important Note: This report has been prepared using the NZ Roadmarking industry standard calculation sheet. The calculations contained within it were developed to assist roadmarking contractors in the assessment of Hazard Ratings in accordance with AS 4343:1999.

Although all due care has been taken in the preparation of this report, neither myself as author, nor NZRF or QSL as developers of the original calculations accept any liability with regard to it's use or misuse.

The user is recommended to familiarise themselves with AS4343 and its application to the HSE (Pressure Equipment, Cranes and Ropeways) Regulations 1999. In particular, the requirements to maintain plant in a safe condition and if found to be unsafe, with it from service and control.

The (Pressure Equipment, Cranes and Ropeways) Regulations 1999 are supported by an Approved Code of Practice **(ACOP).** A key requirements of which is for each company involved in the use of pressure equipment to appoint a competent person to act as the "**Controller of Pressure Vessels**"
The duties of the "Controller of Pressure Vessels" is laid on in ACOP 2.2.1.

The NZRF and QSL cannot accept any liability with regard to the use of this spreadsheet in the determination of Hazard Ratings in accordance with AS 4343:1999 and the HSE (Pressure Equipment)Regulations.

Test No:	TC-26	Applicator:	RSK693/TR	Date:	18/08/2026
Company:	Downer NZ Ltd			Operator:	P Del Favero
Strip Length:		11			

Weather Conditions Etc.		Nominated Film thickness	
Air Temp	In-door/Outdoor	180 Nominal i.e. 150 to 210um	☑
12c	Tested Indoors	220 Nominal i.e. 190 to 250um	☐
		300 Nominal i.e. 270 to 330um	☐

Paint Brand	Type	Colour	Batch No	% Thinners
Geveko	Waterbourne	White	2338464	N/A
Geveko	Waterbourne	Yellow	2334081	N/A

Time	Test No	Run No	Stated Speed	Time (sec's)	Calc. Speed	Comments / Results	Pass / Fail
800 - 17.00	1	1	2.0	19.13	2.07		Pass
	1	2	1.8	20.34	1.95		Pass
	1	**3**	**1.6**	**22.89**	**1.73**		**Pass**
					0.00		
800 - 17.00	2	1	2.7	13.98	2.83		Pass
	2	**2**	**2.5**	**15.10**	**2.62**		**Pass**
	2	3	2.1	19.65	2.02		Pass
					0.00		
800 - 17.00	**4**	**1**	**1.2**	**33.44**	**1.18**	**29 Grams**	**Pass**
	4	2	1.4	28.75	1.38		Pass
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		
					0.00		

Intermittent Line Used

	Dist from start (mm)	Spacing		Delay
1			Seg	
2			Gap	
3			Seg	
4			Gap	
5			Seg	
6			Gap	
7			Seg	
8			Gap	
9			Seg	
10			Gap	
	Ave Seg	#DIV/0!		
	Ave Gap	#DIV/0!		

Bead Rate

Painted Plastizote (gms)	75	Grams
Minus Plastizote (gms)	25	Grams
= Paint Weight (gms)	50	Grams
Beaded Plastizote (gms)	104	Grams
Minus Plastizote (gms)	25	Grams
= Paint & Beads (gms)	79	Grams
Minus Paint Weight (gms)	50	Grams
Beads/500mm 24.75 - 30.25	**29**	Grams
kg / km - 49.5 - 60.5	58	

Straightness	8.0	mm	Paint to Curb	Pass	P/22 Turn Arrow	Pass

Notes:

NZ TRANSPORT AGENCY
WAKA KOTAHI

The New Zealand Roadmarkers Federation Inc

NZTA T/8 2026 Test Results

Test No:	TC-26	**Test Date(s)**	18/08/2026	**Testing Officer**	P Del Favero	**Date:**	18/08/2026	Nominated Film Thickness	180	Nominal i.e. 150 to 210um
Applicator:	RSK693/TR	**Expires:**	18/08/2027	**Verified By:**	D Elder	**Date:**	24/08/2026			

Dry Film Thickness - Zone Averages

T/8 Test No	No of runs per test	Run No	Speeds	Widths	Start End Plates A	Start End Plates B	Start End Plates C	Stop End Plates A	Stop End Plates B	Stop End Plates C	Grand Average	Paint Output (Lit/Min)	Bead Output (kg/km)	Pump Color	Gun Side	No of Paint Guns	No of Bead Guns	Notes
One	3	3	1.73	150	179	190	174	182	163	157	174.2	0.45		W	R	1		
Two	3	2	2.62	107	195	198	197	207	209	201	201.2	0.56		W	R	1		
Three	0										#DIV/0!	#DIV/0!						
Four	2	1	1.18	205	174	180	168	Beaded Plates, Bead weight test			174.0	0.42	58.00	Y	R	1	1	

Cleaning Test (test 1)	N/A	**Straightness Test (test 2) mm**	8.00	**Segment Spacing (Test 3)**	**Segment**	**Gap**	**Bead Delay (Test 3) - Full Coverage**		**N/A**	
					#DIV/0!	#DIV/0!				

Paint Type & Batch Nos	**White:**	Waterbourne	**Batch Number**	2338464	**Yellow:**	Waterbourne	**Batch Number**	2334081	

Paint Output (lit/min/gun) = (Grand average paint thickness x width x speed / (no of guns x 60,000) / (Volume Solids Content in decimals)