

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

Applicator Type:	Type A	Applicator Chassis No:	JALFSR34JN7000078		
Registration No:	RRE991	Applicator Make:	2026 Isuzu FSR 650		
Owner:	Downer NZ Ltd	Applicator Fleet No:	181228		
Address:	133 Main South Road, Green Island, Dunedin	No. & Capacity of Paint Tanks:	Tank 1 1000	Tank 2 400	Tank 3
		No. & Capacity of Bead Tanks:	1000		

APPLICATION SPEEDS FOR 220 µm NOMINAL THICKNESS

Line Width	100mm	150mm	200mm
Travel Speed (kph) - T/8 Test	9.74	6.20	5.17
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	Handok Airless	Handok Airless
Paint Gun 3 / Gun 4	Handok Airless	Handok Airless
Bead Gun 1 / Gun 2	RSL Cone Gun	RSL Cone Gun
Compressor Make / Model	DynaSet 145992-4735	

ENTRY QUALIFICATION

Previous T/8 Certificate Expiry Date: N/A

RRE991-2608



REGISTRATION DETAILS

NZRF STAMP & UNIQUE NUMBER

RECORD OF COMPLIANCE

Testing Officer: P Del Favero

Company: Downer NZ Ltd

Signed: 

APPLICATOR PHOTOGRAPH



19 Aug 2026

EXPIRY DATE: 19/08/2027



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:	A-26
Applicator:	RRE991
Owner:	Downer NZ Ltd
Testing Officer:	P Del Favero
Checked By:	D Elder
Test Dates:	19/08/2026

11.1 Applicator Type					
Please select correct option					Type A
11.2	Vehicle Description: (Make / Model / Year)		2026 Isuzu FSR 650		
11.2	Chassis Number	JALFSR34JN7000078	Location	LHS Bottom of Dashboard	
	Fleet/ Plant No.	181228			
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:		RRE991	Expiry Date:	22/02/2027
	Gross Vehicle Mass	12000kg	Tare Weight	7200kg	Load Cert YES
	Vehicle Fitness Type			Certificate of Fitness	Expiry Date: 3/09/2026
	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				YES
	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		SafeWorx 25L spill kit		
	Fire Control Equipment				
	Type / Size	Dry Powder 9kg x 2	Date Last Tested	1 February 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 145992-4735		
	Capacity (cfm)		40 cfm		
	Drive (make/model)		Isuzu - PTO Live Drive		
	Rating of compressor drive motor (kw)		193.9		
	Pressure Relief Valves / Bursting Disks (Setting / Rating in psi)				
	Bead Tanks	PSI	Tank 1	8	Tank 2
	Air Receivers	PSI		150	
	Air Receiver Volume	Litres		32	

10.1	Pressure Indicating Systems function					YES
	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	D	Air Receivers	D		
	Bead Tank 2	N/A	Paint Hoses	C		
	Compressor Power	D	Hydraulic Hoses	C		
	Bead Hoses	E				
	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)	1000	No. 2 Capacity (L)	400	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)	1000	No. 2 Capacity (Kg)			
	Spray Guns	Make / Model		Make / Model		
	Paint Gun 1 / Gun 2	Handok Airless		Handok Airless		
	Paint Gun 3 / Gun 4	Handok Airless		Handok Airless		
	Bead Guns	Make / Model		Make / Model		
	Bead Gun 1 / Gun 2	RSL Cone Gun		RSL Cone Gun		
	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 leaf spring off chassis
11.3.6	Cleaning Equipment					
	Any fitted cleaning equipment is a permanent fixture					YES
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	Autoline RX10				
	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					Computer controlled

	Adjustable time delay Bead Gun (Type or NA)	Computer controlled
10.1.51	Power and Control	
	Speed within $\pm 10\%$ on $\pm 12\%$ grade (lowest speed)	YES
	Speed within $\pm 10\%$ on $\pm 12\%$ 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	YES
	Ability to apply all longitudinal markings in traffic direction of travel	YES
	Apply paint and beads on left and right side of vehicle	YES
11.4.2	Guide Arms adequate and complete, mountable on both sides of the vehicle	YES
	Guide arm in view of operator from normal operating position	YES
11.4.3	Applicator is permanently fitted with cleaning equipment	YES
	Cleaning equipment operational continuously during road marking operation	YES
	Cleaning device on left and right side of vehicle ☐	YES
	Cleaning device type	Hydraulic Broom
	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	
11.5.3	All applicators can mark transverse lines to within 300mm of kerb edge	
11.5.4	All applicators capable of painting turn lane arrows	
11.5.2	Motive Power	
	Acceleration capability	
11.5.3	Transverse line capability	
11.5.4	Turn Arrow capability	
	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	
11.7.1	<i>Note: The Mother Vehicle needs to be checked for compliance against the requirements for all applicators.</i> <i>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.</i>	
	Mother Vehicle One	General Inspection completed
	Mother Vehicle Two	General Inspection completed
	Motive power system	
11.7.2	Umbilical applicator demonstrated to maintain a stable marking position	
11.7.3	Hose control system	
	Description	
	Hoses clear from kinking, snagging and do not run over freshly painted surface	
	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	YES
12.4.5	Straight Continuous Line (Test two)	Pump (W/Y) and Side (L/R)	WHITE	LEFT	Paint and straighness	YES
12.4.6	Beaded Segmented Line (Test three)	Pump (W/Y) and Side (L/R)	WHITE	RIGHT	Paint, seg. Spacing and bead delay	YES
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 $\pm 10\%$ on $\pm 12\%$ grade (lowest speed) Y / N						YES
Speed within $\pm 10\%$ on $\pm 12\%$ grade (highest speed) Y / N						YES
Notes:						
Hydraulic Broom swept pavement the length of track to prove capability Manufactures Bead Tank Build Test Cert provided NZTA LT400 Conversions supplied						
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	YES
	Cleaning device on left and right side of vehicle	YES
Photographic Records Required – Testing		
	Test Strip Full Length, Applicator and Testing Officer	YES
	Applicator painting a run on the Left Side – where applicable	YES
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	YES
Automatically Mark a Beaded Segmented Line Test 3	Full length of Strip to show Segments and Gaps	YES
Automatically Mark a Beaded Segmented Line Test 3	Start and Stop ends of a segment to show full bead coverage	YES
Automatically Mark a Beaded Segmented Line Test 3	Segment and Gap measurements	YES
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:	A-26	Testing Officer
Applicator	RRE991	P Del Favero
Date	19/08/2026	19/08/2026
		Checked By
		D Elder
		24/08/2026

Paint Applicator: RRE991

Controller of pressure vessels: Reece Smith

Assessor: P Del Favero

Date of Assessment: 19/08/2026

HAZARD CODE	REQUIREMENT	MACHINERY (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
260	193.9	D Competent Person

COMPRESSOR AIR RECEIVER

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

BEAD TANKS

Vessels filled with air & beads and transportable

<u>Bead Tank One</u>		<u>TV Factor</u>			
Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code
8	1000	588	0.1	97	D Competent Person

<u>Bead Tank Two</u>		<u>TV Factor</u>			
Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code
0	0	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
8	50	0.06	8	E Negligible Hazard

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

HYDRAULIC HOSESPiping 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

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

<u>Bead Tank One</u>		<u>TV Factor</u>	1			
Operating Pressure Psi	Beads Kg	Volume Litres	Pressure Mpa	Rating Value	Hazard Code	
0	0	0	0.0	0	N/A	N/A
<u>Bead Tank Two</u>		<u>TV Factor</u>	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.

Test No:	A-26	Applicator:	RRE991			Date:	19/08/2026	
Company:	Downer NZ Ltd					Operator:	P Del Favero	
Strip Length:		33						
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	6.5	17.34	6.85	Broom Tested		Pass
	1	2	5.9	19.15	6.20			Pass
	1	3	5.5	22.29	5.33			Pass
					0.00			
800 - 17.00	2	1	8.5	14.10	8.43			Pass
	2	2	9.0	12.43	9.56			Pass
	2	3	9.5	12.20	9.74	LHS		Pass
					0.00			
800 - 17.00	3	1	8.5	14.45	8.22			Pass
	3	2	9.5	12.92	9.20			Pass
	3	3	10.0	12.05	9.86			Pass
					0.00			
800 - 17.00	4	1	5.0	22.98	5.17	Beads 27g		Pass
	4	2	4.5	25.09	4.73			Pass
					0.00			
					0.00			
					0.00			
					0.00			
					0.00			
					0.00			
					0.00			
					0.00			
					0.00			
Intermittent Line Used		3x7		Bead Rate				
Dist from start (mm)		Spacing		Delay		Painted Plastizote (gms)		
1	3000	3000	Seg	Paint only		75 Grams		
2	9900	6900	Gap			Minus Plastizote (gms)		
3	12890	2990	Seg	Paint only		26 Grams		
4	19840	6950	Gap			= Paint Weight (gms)		
5	22830	2990	Seg	Full coverage		49 Grams		
6	29780	6950	Gap			Beaded Plastizote (gms)		
7	32755	2975	Seg	Full coverage		102 Grams		
8			Gap			Minus Plastizote (gms)		
9			Seg			26 Grams		
10			Gap			= Paint & Beads (gms)		
Ave Seg		2988.75			76 Grams			
Ave Gap		6933.33			Minus Paint Weight (gms)			
Straightness		10.0 mm	Paint to Curb		N/A		P/22 Turn Arrow	
Notes:		N/A						

NZTA T/8 2026 Test Results																					
Test No:		A-26		Test Date(s)		19/08/2026		Testing Officer		P Del Favero		Date:		19/08/2026		Nominated Film Thickness		220		Nominal i.e. 190 to 250um	
Applicator:		RRE991		Expires:		19/08/2027		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			Stop End Plates			Grand Average	Paint Output (Lit/Min)	Bead Output (kg/km)	Pump Color	Gun Side	No of Paint Guns	No of Bead Guns	Notes			
					A	B	C	A	B	C											
One	3	2	6.20	160	207	206	214	229	237	221	219.0	2.17		W	R	1					
Two	3	3	9.74	110	218	227	204	204	229	192	212.3	2.27		W	L	1					
Three	3	3	9.86	105	232	240	244	Bead delay test			238.7	2.47		W	R	1	1				
Four	2	1	5.17	215	212	240	218	Beaded Plates, Bead weight test			223.3	2.48	54.00	Y	R	1	1				
Cleaning Test (test 1)		Pass	Straightness Test (test 2) mm		10.0	Segment Spacing (Test 3)			Segment	Gap	Bead Delay (Test 3) - Full Coverage			Pass							
									2989	6933											
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)