

# CERTIFICATE OF COMPLIANCE

## NZTA T/12:2013

**Applicator:** Hog Technologies, Scania P450, 3 Axle Line Marker, Registration Number NPE386.  
Plant Number:154220 Type LA

**Owner:** Downer NZ Ltd  
133 Main South Road  
Green Island  
Dunedin 9018

**Test Description:** **The pavement marking applicator as described by this certificate has been tested under the conditions described and found to comply with the relevant requirements of DNZ Specification NZTA T/12:2013.**

**Test Conditions:** The scope of the Certification was as follows:  
 1) Application of Extruded Flat Thermoplastic to Schedule One, with thickness in accordance with NZTA P/22:2006, NZTA P30:2008 and NZTA T12:2013.  
 2) Application of Audio Tactile Markings to Schedule Two, with markings in accordance with NZTA M/24:2006, NZTA P30:2008 and NZTA T12:2013.  
 3) Application of Profiled Multi Dot Line Markings to Schedule Three, with thickness in accordance with DNZ Multi Dot Line Technical Specification NZTA P/30:2008 and NZTA T/12:2013 .

**Test Identification:** The tests were carried out at the Downer NZ Depot at 397 McLeans Island Rd, Harewood, Christchurch, between August 23<sup>rd</sup> 2025 and September 24<sup>th</sup> 2025.  
The Applicator Chassis Number is 5596697.  
The test materials used were:  
Damar Multi-Grade Thermoplastic for Schedule One, and Schedule Three.  
Ennis Flint Vibraline for Schedule Two,  
Potters Type B Drop-On Glass Beads were used for Schedule One, Two and Three

<b>Equipment Tested:</b>	Extrusion Heads	Mark Rite Lines	MRL 1 & 2
	Structured Head	Hofmann MDL300	721/0036
	Audiotactile Heads	Mark Rite Lines	MRL 1,2,3,4,5 & 6
	Extruder 1	Hog Technologies	0103TP
	Extruder 2	Hog Technologies	0104TP
	Temperature Controller 1	Solo	4896
	Temperature Controller 2	Solo	4848
	Compressor	Atlas Copco U110	WUP200676
	Speedometer	Hog Technologies / Skipline	SC12/35493
	Bead Guns	Graco Shovel	

<b>Applicator Speeds:</b>		<b>Line Widths</b>		
	<b>Schedule</b>	<b>100mm</b>	<b>150mm</b>	<b>200mm</b>
	<b>One</b>	5.57	4.09	3.57
	<b>Two</b>		5.07	
	<b>Three</b>	6.14	5.04	4.16

**Special Notes:** The applicator is not capable of applying turn arrows.

**Schedule One**

**Extruded Flat Thermoplastic in Accordance with NZTA P/22:2006**

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in NZTA P22: 2006, NZTA P30: 2008 and NZTA T12:2013.

The values specified in NZTA P/22:2006 used for determination of compliance were as follows:

**Gap Length Between Segments**

Where gap is 3.0m or more  $\pm 300\text{mm}$

Where gap is less than 3.0m but greater than 1.0m  $\pm 150\text{mm}$

Where gap is 1.0m or less  $\pm 50\text{mm}$

**Length of Segments**

Where segment is longer than 5.0m  $\pm 150\text{mm}$

Where segment is shorter than 5.0m but longer than 1.0m  $\pm 75\text{mm}$

Where segment is 1.0m or shorter  $\pm 50\text{mm}$

**Thermoplastic Line Width**

All line widths  $+10\% - 5\%$  of the specified values 100mm, 150mm & 200mm

**Thermoplastic Height**

New markings – asphalt 2.0 – 2.5mm

New markings – chipseal 2.0 – 3.0mm

**Retroreflectivity**

AS/NZS 2009 Potters Pristine Drop-On Glass Beads,

Applied uniformly at a minimum rate of 300 grams/m<sup>2</sup>

Reflectivity (dry – R): A minimum of 150 mcd/m<sup>2</sup>/lux.

Reflectivity (condition of wetness – RW): A minimum of 80 mcd/m<sup>2</sup>/lux.

**Day Time Visibility**

Minimum Qd of 100 mcd/m<sup>2</sup>/lux

**Colour.**

**White;** A discolouration of not more than 4/5 from colour Y35 of AS2007S

**Yellow;** A discolouration of not more than 4/5 from colour Y13 - Y14 of AS2007S

**Skid Resistance**

Greater than 50 BPN but less than 65 BPN



**Schedule Two**

**Thermoplastic Audio-Tactile in Accordance with NZTA M24: 2006, NZTA P/30:2008 and T/12:2013**

The markings when applied to flat electro-galvanised steel plates meet all dimension and performance requirements as specified in NZTA M24: 2006 Specification for Audio-Tactile Profiled Roadmarkings, NZTA P/30:2008 Specification for High Performance Roadmarkings and NZTA T/12:2013 Specification For Long-Life Pavement Marking Material Applicator Testing.

The values specified in NZTA M/24, NZTA P/30 and NZTA T/12:2013 used for determination of compliance were as follows.

**Thermoplastic Line Width**

All line widths +10% - 5% of the specified value 150mm

**Thermoplastic Base Height**

N/A Profile Blocks only

**Raised Blocks**

Pitch +5% - 5% of specified value (250mm)

Pitch +5% - 5% of specified value (500mm)

Length of block +30% - 20% of specified value (50mm)

Width of block +30% - 20% of specified value (150mm)

Block Height -5% +15% of specified value (9.0mm)

**Retroreflectivity**

AS/NZS 2009 Potters Pristine Drop-On Glass Beads,  
Applied uniformly at a minimum rate of 300 grams/m<sup>2</sup>.  
Reflectivity (dry – R): A minimum of 150 mcd/m<sup>2</sup>/lux.  
Reflectivity (condition of wetness – RW):  
A minimum of 80 mcd/m<sup>2</sup>/lux.

**Day Time Visibility.**

Minimum Qd of 100 mcd/m<sup>2</sup>/lux

**Colour.**

**White;** A discolouration of not more than 4/5  
from colour Y35 of AS2007S

**Yellow;** A discolouration of not more than 4/5  
from colour Y13 - Y14 of AS2007S

**Skid Resistance: Not Applicable**



### **Schedule Three**

**Profiled “MultiDotLine” - markings in Accordance with DNZ Technical Specification,  
NZTA P/30:2008, and NZTA T/12:2013**

#### **MultiDot Line Application**

Inside of a housing a hollow cylinder (scattering drum) positioned at the periphery and equipped with outlets is rotating during forward movement of the extruder. At a lockable slot, which width corresponds to the requested line width, outlets continuously open and close when the cylinder periphery is sliding along towards the road. Through these outlets the thermoplastic marking material will be applied in portions on the road.

The result is an exact defined regular pattern with regular distribution.

The markings when applied to flat electro-galvanised steel plates meet all dimension and performance requirements as specified in NZTA P/30:2008 Specification for High Performance Roadmarkings. The values specified in NZTA P/30:2008 used for determination of compliance were as follows:

#### **Gap Length Between Segments**

Where gap is 3.0m or more  $\pm 300\text{mm}$

Where gap is less than 3.0m but greater than 1.0m  $\pm 150\text{mm}$

Where gap is 1.0m or less  $\pm 50\text{mm}$

#### **Length of Segments**

Where segment is longer than 5.0m  $\pm 150\text{mm}$

Where segment is shorter than 5.0m but longer than 1.0m  $\pm 75\text{mm}$

Where segment is 1.0m or shorter  $\pm 50\text{mm}$

#### **MultiDot Line Dots**

1. Material application rate of  $3.48\text{kg/m}^2 \pm 10\%$
2. A coverage between 55 and 75%
3. Line appearing continuous when sitting in a passenger car.

#### **MultiDot Line Widths**

All line widths  $+10\% - 5\%$  of the specified values 100mm, 150mm & 200mm

#### **Retroreflectivity**

AS/NZS 2009 Potters Pristine Drop On Glass beads applied uniformly at a minimum rate of  $300\text{ grams/m}^2$

Reflectivity (dry – R): A minimum of  $150\text{ mcd/m}^2/\text{lux}$ .

Reflectivity (condition of wetness – RW):

A minimum of  $80\text{ mcd/m}^2/\text{lux}$ .

#### **Day Time Visibility.**

Minimum Qd of  $100\text{ mcd/m}^2/\text{lux}$

#### **Colour.**

**White;** A discolouration of not more than 4/5 from colour Y35 of AS2007S

**Yellow;** A discolouration of not more than 4/5 from colour Y13 - Y14 of AS2007S

#### **Skid Resistance**

Greater than 50 BPN but less than 65 BPN



**CERTIFICATE OF COMPLIANCE**  
**NZTA T/12:2013**



**Registration Details:** [NZRF Stamp & Unique Number} 6164

**Initial Certificate:** Initial T/12

**Testing Officer:** P Del Favero Downer NZ LTD

**Signed:**



**Date of Expiry:** 24th September 2026

 **The New Zealand Roadmarkers**  
Federation Inc  
PO Box 13 805, Auckland