

CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Applicator: 2001 Coastline Markers, Operator mounted, Type LB Cold Applied Plastic Applicator.
Registration CTS905

Owner: Fulton Hogan Ltd, T/A Coastline Markers
PO Box 5503
Frankton,
Hamilton 3242



Test Description: **The long life pavement marking applicator described by this certificate has been tested under the conditions described and found to comply with the relevant requirements of NZTA Specification NZTA T12:2013**

Test Conditions: The scope of the NZTA T12: 2013 recertification was as follows;

- Application of Audio Tactile Markings to Schedule B, Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2009 and NZTA T12:2013.
- Application of Agglomerate Cold Applied Plastic to Schedule C1, Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2009 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule C2, Cold Applied Plastic Audio Tactile in combination with Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2009 and NZTA T12:2013.

- Test Identification:**
- The Chassis number of the tested unit is 47624
 - Registration of the applicator is CTS905
 - The tests were carried out at Coastline Markers depot in Hamilton, on the 28th February 2022
 - The materials used for all tests were:
 - Damar CAP Structure/ ATP
 - Potters AC-07 adherence promoting coated type B drop-on glass beads

Equipment Tested:	CAP Dosing Unit	Kadcam	905
	Structure Spindle	Kadcam	905
	Bead Applicator	Handock	905
	Compressor	ABAC	905
	Speedometer	Autoline 410	CTS905

Applicator Speeds:	100mm	150mm	200mm
	Schedule B	1.46 km/h	
	Schedule C1	1.44 km/h	
	Schedule C2	1.33 km/h	

SCHEDULE B

Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2009 and NZTA T12:2013

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in;
NZTA M24:2006 Specification for Audio Tactile Profiled Roadmarkings, (alternative dimensional tolerances)
NZTA P30:2009 Specification for High Performance Roadmarkings and
NZTA T12:2013 Specification for Long-Life Pavement Marking Material Applicator Testing.

The values specified in NZTA M24:2006, NZTA P30:2009, NZTA T12:2013 used for determination of compliance were as follows:

Raised blocks.

Block height; + 15 %, - 5 % of the specified value. (8 mm)
Block width; + 30 %, - 20 % of the specified value (150mm)
Block length; + 30 %, - 20 % of the specified value (50mm)
Block pitch; + 5 %, - 5 % of the specified value. (250mm)

Retroreflectivity.

AS/NZS 2009 Type B (drop-on) glass beads applied uniformly at a minimum rate of 300gm/m².
Dry retroreflectivity; a minimum of 150 mcd/m²/lux.
Wet retroreflectivity; a minimum of 80 mcd/m²/lux

Day Time Visibility.

Minimum Qd of 100 mcd/m²/lux

Colour.

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

Skid Resistance.

N/A



CERTIFICATE OF COMPLIANCE NZTA T 12:2013 SCHEDULE C1

Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2009 and NZTA T12:2013.

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in;
NZTA P30:2009 Specification for High Performance Roadmarkings and
NZTA T12:2013 Specification for Long-Life Pavement Marking Material Applicator Testing.

The values specified in NZTA P30:2009 and NZTA T12:2013 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 less than 1.0m: $\pm 50\text{mm}$

Length of segment.

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 shorter than 1.0m; $\pm 50\text{mm}$

Line width.

All line widths; + 10 %, - 5 % of the specified value. (100mm, 150 mm & 200mm)

Structured (Agglomerate) Cold Applied Plastic.

1. Material application rate of $2.5\text{kg/m}^2 \pm 10\%$
2. A coverage between 55% and 75%, and
3. Line appearing continuous when sitting in a passenger car.

Retroreflectivity.

AS/NZS 2009 Type B (drop-on) glass beads applied uniformly at a minimum rate of 300gm/m^2 .
Dry retroreflectivity; a minimum of $150\text{mcd/m}^2/\text{lux}$.
Wet retroreflectivity; 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

Skid Resistance.

50 BPN or greater for roadmarkings with a dry film thickness of 0.9 mm or greater



CERTIFICATE OF COMPLIANCE NZTA T 12:2013 SCHEDULE C2

Cold Applied Plastic Audio Tactile in combination with Agglomerate Cold Applied Plastic, in accordance with MOTSAM Part II, Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2009 and NZTA T12:2013.

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in;
MOTSAM Part II, NZTA P30:2009 Specification for High Performance Roadmarkings and
NZTA T12:2013 Specification for Long-Life Pavement Marking Material Applicator Testing.

The values specified in MOTSAM Part II, NZTA P30:2009, NZTA T12:2013 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 less than 1.0m: $\pm 50\text{mm}$

Length of segment.

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 shorter than 1.0m; $\pm 50\text{mm}$

Raised blocks.

Block height; + 15 %, - 5 % of the specified value. (9 mm)
Block width; + 30 %, - 20 % of the specified value (150mm)
Block length; + 30 %, - 20 % of the specified value (50mm)
Block pitch; + 5 %, - 5 % of the specified value. (250mm)

Structured (Agglomerate) Cold Applied Plastic.

1. Material application rate of $2.5\text{kg}/\text{m}^2 \pm 10\%$
2. A coverage between 55% and 75%, and
3. Line appearing continuous when sitting in a passenger car.

Retroreflectivity.

AS/NZS 2009 Class B (drop-on) glass beads applied uniformly at a minimum rate of $300\text{gm}/\text{m}^2$.
Dry retro reflectivity; a minimum of $150\text{mcd}/\text{m}^2/\text{lux}$.
Wet retro reflectivity; a minimum of $80\text{mcd}/\text{m}^2/\text{lux}$

Skid Resistance (Structured/ Agglomerate).

50 BPN or greater for roadmarkings with a dry film thickness of 0.9 mm or greater



CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Registration Details:

5481



Initial Certificate Testing Officer:

Ross Ridings
Quality Surveillance Ltd

T/12 Testing Officer:

Lance Wright
Fulton Hogan Ltd T/A Coastline Markers

Signed:



Date of Expiry:

2nd March 2023