

## 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 14230  
Kilbirnie  
WELLINGTON 6241

**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 P30:2008 and NZTA T12:2013.
- Application of Agglomerate Cold Applied Plastic to Schedule C, Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule D, Cold Applied Plastic Audio Tactile in combination with Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 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 Rongotai, Wellington on the 4<sup>th</sup> February 2020.
  - The materials used for all tests were:
    - Damar CAP Structure/ ATP
    - Potters AC-07 adherence promoting coated drop-on glass beads

|                          |                   |              |       |
|--------------------------|-------------------|--------------|-------|
| <b>Equipment Tested:</b> | CAP Dosing Unit   | Kadcam       | 905   |
|                          | Structure Spindle | Kadcam       | 905   |
|                          | Bead Applicator   | Handock      | 905   |
|                          | Compressor        | ABAC         | 905   |
|                          | Speedometer       | Autoline 200 | C4714 |

|                           |                   |              |              |              |
|---------------------------|-------------------|--------------|--------------|--------------|
| <b>Applicator Speeds:</b> |                   | <b>100mm</b> | <b>150mm</b> | <b>200mm</b> |
|                           | <b>Schedule B</b> |              | 1.86 km/h    |              |
|                           | <b>Schedule C</b> |              | 1.43 km/h    |              |
|                           | <b>Schedule D</b> |              | 1.63 km/h    |              |

## CERTIFICATE OF COMPLIANCE NZTA T 12:2013

### SCHEDULE B

#### **Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 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. (500mm)

#### **Retroreflectivity.**

AS/NZS 2009 Type B (drop-on) glass beads applied uniformly at a minimum rate of 300gm/m<sup>2</sup>.

Dry retroreflectivity; a minimum of 150 mcd/m<sup>2</sup>/lux.

Wet retroreflectivity; 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

#### **Skid Resistance.**

N/A



SCHEDULE C

**Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2008 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  $300\text{gm/m}^2$ .  
 Dry retroreflectivity; a minimum of  $50\text{ mcd/m}^2/\text{lux}$ .  
 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



SCHEDULE D

**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 P30:2008 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  $2.5\text{kg/m}^2 \pm 10\%$
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  $300\text{gm/m}^2$ .  
 Dry retro reflectivity; a minimum of  $150\text{ mcd/m}^2/\text{lux}$ .  
 Wet retro reflectivity; a minimum of  $80\text{ mcd/m}^2/\text{lux}$

**Skid Resistance.**

N/A



CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Registration Details:

[NZRF Stamp & Unique Number]

5095



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:

4<sup>th</sup> February 2021

From NZRF T 12 Register