

## CERTIFICATE OF COMPLIANCE NZTA T 12:2013

**Applicator:** 2006 Hino FC / Hofmann Cold Applied Plastic Applicator, registration number DGW904

Type: LA CAP

**Owner:** Fulton Hogan Ltd,  
T/A Coastline Markers  
P O Box 302-528  
North Harbour 0751



**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:

1. Application of Agglomerate Cold Applied Plastic to Schedule One, Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013.  
**Tested at 150mm**
2. Application of Audio Tactile Markings to Schedule Two, Cold Applied Plastic Audio Tactile in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.  
**Tested at: 150mm/250 pitch & 200mm/250 pitch.**
3. Application of Audio Tactile Markings to Schedule Three, 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.  
**Tested at: 150mm/250 pitch**
4. Application of Plain Flat Cold Applied Plastic to Schedule Four, Flat Spray Cold Applied Plastic in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013  
**Tested at 150mm**

**Test Identification:**

- The Chassis number of the tested unit is JHDFC4JJPXXX12527
- The tests were carried out at Coastline Markers depot in Albany on the 1st of August 2018.
- The materials used for the tests were:  
Damar Bascoplast DR 210 for Schedule One,  
Damar Bascoplast DR 211 for Schedule Two and Three,  
Damar CAP Parts A & B for Schedule Four.  
Potters AC-07 adherence promoting coated drop-on glass beads was used for Schedule one, two & three,  
Potters intermix glass beads was used for Schedule Four.

**Equipment Tested:**

CAP Spray Gun	Hofmann 2Component	612758
CAP Pump A	Hofmann	612758A
CAP Pump B	Hofmann	612758B
Bennox Dosing Unit	Hofmann	612758
Structure Spindle	Hofmann	612758
Bead Applicators	CRM Curtain Guns	612758
Compressor	Fusheng TA80	612758
Speedometer	Hofmann	612758

**Applicator Speeds (kph):**

	100mm	50mm
Schedule One		1.74
Schedule Two		1.58
Schedule Three		1.44
Schedule Four		6.81

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**SCHEDULE ONE**

**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  $< 3.0\text{m}$  but  $> 1.0\text{m}$ ;  $\pm 150\text{mm}$

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. Minimum material application rate of  $2.4\text{kg/m}^2$
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  $330\text{gm/m}^2$ .

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 Od 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 TWO**

**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:

**Gap length between segments**

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

Where gap is  $< 3.0\text{m}$  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 (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 Class B (drop on) glass beads applied uniformly at a minimum rate of  $300\text{gm/m}^2$ .

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

**Colour.**

White, and its colouration of not more than 4/5 from colour Y35 of AS2007S

**Skid Resistance.**

N/A

**SCHEDULE THREE**

**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. Minimum material application rate of  $2.8\text{kg/m}^2$
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



SCHEDULE FOUR

**Flat Spray 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:  $\pm 300\text{mm}$

**Length of segment**

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

**Line width**

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

**Flat Spray Cold Applied Plastic**

Dry film thickness (DFT) of  $450\ \mu\text{m} \pm 75\ \mu\text{m}$ .

**Retroreflectivity**

AS/NZS 2009 Class B (drop-on) glass beads applied uniformly at a minimum rate of  $275\text{gm/m}^2$

Dry retroreflectivity; a minimum of  $150\text{ mcd/m}^2/\text{lux}$ .

Wet retroreflectivity; a minimum of  $10\text{ mcd/m}^2/\text{lux}$

**Day Time Visibility**

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

**Colour**

White; a discoloration 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

Registration Details:

[NZRF Stamp & Unique Number]

4802



Initial Certificate Testing Officer:

Ross Ridings  
Quality Surveillance Ltd

T/12 Testing Officer:

Bruce Belton  
Mark Roads Ltd

Signed:



Date of Expiry:

8<sup>th</sup> August 2019

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