

## CERTIFICATE OF COMPLIANCE TNZ T/12:2003

**Applicator:** 2006 Hofmann H18 Cold Applied Plastic Applicator, registration number CZC276

**Owner:** Combined Road and Traffic Services  
PO Box 7013  
TE NGAE 3042



**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 TNZ Specification TNZ T/12:2003.

**Test Conditions:** The scope of the TNZ T/12 Entry Qualification was as follows:  
1) Application of Agglomerate Cold Applied Plastic to Schedule One, with thickness in accordance with STS Technical Specification and NZTA P/30:2008 Specification for High Performance Roadmarkings.  
2) Application of Audio Tactile Markings to Schedule Two, with markings in accordance with TNZ M/24 Specification for Audio Tactile Profiled Roadmarkings.

**Test Identification:** The tests were carried out at the Combined Road and Traffic Services Test Site at Rotorua on the 2<sup>nd</sup> February 2010.  
The Applicator Chassis Number is 190/0048.  
The material used for the tests was:  
Damar Dascoplast Cold Plastic 211 for both Schedules  
AC-07 Silane Coated Potters Glass Beads (AS/NZS 2009) for both Schedules

Equipment Tested:			
100mm Screed Box	Hofmann		H18/100
150mm Screed Box	Hofmann		H18/150
200mm Screed Box	Hofmann		H18/200
Agglomerate Spindle	Hofmann		H/18
Speedometer	Autolog 200		H/18
Compressor	Boge SK36		513370
Bead Gun	Graco		H/18

Applicator Speeds:	Schedule	Line Width		
		100mm	150mm	200mm
	One		1.81	
	Two		1.98	

**Special Notes:**

- The applicator is not capable of applying turn arrows.

## CERTIFICATE OF COMPLIANCE TNZ T/12:2003

### Schedule One

#### Agglomerate Flat Cold Applied Plastic in Accordance with CRTS Technical Specification and P/30:2008

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in TNZ P30: 2008 Specification for High Performance Roadmarkings.

The values specified in TNZ 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  $\pm 50\text{mm}$

##### Cold Applied Plastic Line Width

All line widths  $+10\% - 5\%$

##### Agglomerate Cold Applied Plastic

1. Minimum material application rate of  $3\text{kg/m}^2$ , with
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  $275\text{grams/m}^2$

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

Reflectivity (condition of wetness - RW): A minimum of  $80\text{mcd/m}^2/\text{lux}$ .

##### Skid Resistance

Greater than 50 BPN but less than 65BPN



## CERTIFICATE OF COMPLIANCE TNZ T/12:2003

### Schedule Two

#### **Cold Applied Plastic Audio-Tactile in Accordance with TNZ M/24:2006, NZTA P/30:2008, and T/12:2003**

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in TNZ M/24:2006 Specification for Audio Tactile Profiled Roadmarkings, NZTA P/30 Specification for High Performance Roadmarkings and TNZ T/12:2003 Specification for Long-Life Pavement Marking Material Applicator Testing.

The values specified in TNZ M/24, NZTA P/30 and T/12:2003 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  $\pm 50\text{mm}$

#### Raised Blocks

Spacing between blocks +5% -5% of specified value (250mm)

Spacing between blocks +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 (8.5mm)

#### Retroreflectivity

AS/NZS 2009 Class B (drop-on) glass beads Glass beads applied uniformly at a minimum rate of 275 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.

#### Skid Resistance

Not Applicable



**CERTIFICATE OF COMPLIANCE  
TNZ T/12:2003**

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

3050



**Initial Certificate**

**Issuing Officer:**

**R J Ridings**  
Quality Surveillance Ltd

**Testing Officer:**

**R J Ridings**  
Quality Surveillance Ltd

**Signed:**



**Date of Expiry:**

**2<sup>nd</sup> FEBRUARY 2011**

Copied from NZRF T 12 Register