

CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Applicator: 2009 Hofmann H18 /
Kadcam Enterprises
System, Type LA
Cold Applied Plastic
Applicator,
Registration # EYY
807

Owner: Combined Road &
Traffic Services Ltd,
P O Box 7013
Rotorua 3074



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;

- Schedule B; Application of Audio Tactile Profile Markings with Cold Applied Plastic in accordance with NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013
- Schedule C, Agglomerate Cold Applied Plastic accordance with Hofmann Technical Specification, NZTA P 30:2008 and NZTA T 12:2012,

Test Identification:

- The Registration plate of the tested unit is EYY807 and the Chassis number is 192/0006
- The tests were carried out at the depot of Combined Road and Traffic Services Ltd, 20 Katoro Drive, Rotorua on the 8th of September 20256.
- The materials used for both tests were; Damar CAP White ARZ0124Z and Potters AC-07 adherence promoting coated glass beads.

Equipment Tested:	165 mm CAP Box	Kadcam	0006
	Catalyst Unit	Kadcam	0006
	Structure Unit	Kadcam	0006
	Bead Applicator	Graco	0006
	Compressor	Boge SK36	0006
	Speedometer	RMSD Autolog 200	0006

Applicator Speeds:	100mm	150mm	200mm
	Schedule B	1.4 km/h	
	Schedule C	1.9 km/h	

Special Notes: 1. The applicator is not capable of applying turn arrows.

SCHEDULE B

Audio Tactile Profile Markings with Cold Applied Plastic in accordance with 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,
 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 and NZTA T12:2013 used for determination of compliance were as follows:

Gap length between segments

- Where gap is 3.0m or more: ± 300mm
- Where gap is less than 3.0m but greater than 1.0m; ± 150mm
- Where gap is less than 1.0m: ± 50mm

Length of segment

- Where segment is longer than 5.0m; ± 150mm
- Where segment is shorter than 5.0m but longer than 1.0m; ± 75mm
- Where segment is shorter than 1.0m; ± 50mm

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)

Retroreflectivity

- AS/NZS 2009 Class B (drop-on) glass beads applied uniformly at a minimum rate of 275gm/m².
- Dry retroreflectivity; a minimum of 150 mcd/m²/lux.
- Wet retroreflectivity; a minimum of 80 mcd/m²/lux

Day Time Visibility

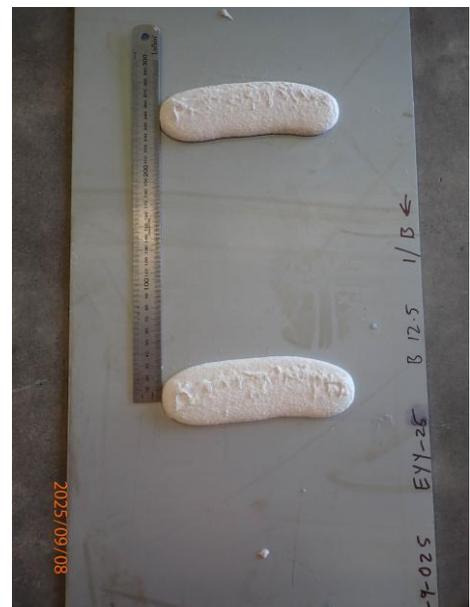
- Minimum Qd of 100 mcd/m²/lux

Colour

- White; a discolouration of not more than 4/5 from colour Y35 of AS2007S
- Yellow; a discolouration of not more than 4/5 from colour Y13 – Y14 of AS2007S

Skid Resistance

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



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SCHEDULE C

Agglomerate Cold Applied Plastic, in accordance with Hofmann 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 Roadmarking 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. (150 mm)

Structured (Agglomerate) Thermo Plastic.

1. Minimum material application rate of 5.0kg/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 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

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Registration Details:

[NZRF Stamp & Unique Number]

6143



Initial Certificate Testing Officer:

Ross Ridings
Quality Surveillance Ltd

T/12 Testing Officer:

Bruce Belton
Mark Roads Ltd

Signed:

Bj Belton

Date of Expiry:

8th September 2026

