

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 1; Application of Audio Tactile Profile Markings with Cold Applied Plastic in accordance with NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013
- Schedule 2; Application of Structured Markings with Cold Applied Plastic in accordance with NZTA P30:2008 and NZTA T12:2013

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 21st of November 2017,
- The materials used for both tests were; Damar Bascoplast White DR 711 and Potters AC-07 adherence promoting coated glass beads.

Equipment Tested:	100mm	150mm	200mm
165mm CAP Box	Kadcam	0006	
Catalyst Unit	Kadcam	0006	
Structure Unit	Kadcam	0006	
Structure Spindle	Wisbrob	0006	
Bead Applicator	Graco	0006	
Compressor	Boge SK36	0006	
Speedometer	RMSD Autolog 200	0006	

Applicator Speeds:	100mm	150mm	200mm
Schedule One		2.55 km/h	
Schedule Two		1.60 km/h	

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

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SCHEDULE ONE

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: $\pm 300\text{mm}$
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)

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 Q_d of 100 mcd/m²/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

Structured Markings with Cold Applied Plastic in accordance with 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. (150 mm)

Structured (Agglomerate) Cold Applied Plastic

1. Minimum material application rate of $3\text{kg}/\text{m}^2$
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 $275\text{gm}/\text{m}^2$.
Dry retroreflectivity; a minimum of $150\text{mcd}/\text{m}^2/\text{lux}$.
Wet retroreflectivity; a minimum of $80\text{mcd}/\text{m}^2/\text{lux}$

Day Time Visibility

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

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]

4656



Initial Certificate Testing Officer:

Ross Ridings
Quality Surveillance Ltd

T/12 Testing Officer:

Bruce Belton
Coastline Markers

Signed:

Bj Belton

Date of Expiry:

21st November 2018

Copied from NZRF T12 Register