

CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Applicator: Type LA 2019 Borum BM3000-DL Thermoplastic Applicator
Registration # MHU876

Owner: Higgins Contractors Ltd
P O Box 5164
Terrace End
Palmerston North



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 and Higgins Contracting Technical Specifications**

Test Conditions: The scope of the NZTA T12: 2013 recertification was as follows;

1. Application of Audio Tactile Markings to Schedule B, Thermo Plastic Audio Tactile, in accordance with Borum Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.
2. Application to Schedule C, Agglomerate Thermo-plastic in accordance with Borum Technical Specification, NZTA P 30:2008 and NZTA T 12:2012,

Test Identification:

- The Registration plate of the tested unit is MHU876 and the Chassis number is 220265
- The tests were carried out at the depot of Higgins Group Holdings Ltd on the 1st & 2nd of December 2025.
- The materials used for both tests was; GEVEKO Thermoplastic Roadmarking Material and Potters R145 Pristine glass beads (AS/NZS 2009)

Equipment Tested:	Extruder Head	Borum DOTnLINE	/220265
	Extruder Drive	Borum Hyd Screw	/220265
	Screw Compressor	SCI 1800	/220265
	Bead Applicators (2)	Borum BMC30	/220265
	Intermittent Line		
	Devise & Speedometer	Borum Line Master	/220265

Applicator Speeds: (150mm)	Schedule B	2.2 km/hr
	Schedule C	2.3 km/hr

Special Notes:

1. The applicator is not capable of applying turn arrows.
2. This certificate is accompanied by T18 certificate.

SCHEDULE B

Audio Tactile Profile Markings with Thermoplastic in accordance with Borum 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,

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:

Thermoplastic Line Width

All line widths +10% - 5% of the specified value 150mm

Thermoplastic Base Height N/A Profile Blocks only

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: Not Applicable



SCHEDULE C

Application of Agglomerate/Structured Markings with Thermo-Plastic in accordance with Borum Technical Specification NZTA P30:2008 and NZTA T12:2013

The markings when applied to flat electro-galvanised steel plates meet 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 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 $\pm 50\text{mm}$

MultiDot Line Dots

1. Material application rate of $3.25\text{kg}/\text{m}^2 \pm 10\%$
2. A coverage between 55 and 75%
3. Line appearing continuous when sitting in a passenger car.

MultiDot Line Widths

All line widths $+10\% - 5\%$ of the specified values (150mm)

Retroreflectivity

AS/NZS 2009 Potters Pristine Drop On Glass beads applied uniformly at a minimum rate of $300\text{grams}/\text{m}^2$
Reflectivity (dry – R): A minimum of $150\text{mcd}/\text{m}^2/\text{lux}$.
Reflectivity (condition of wetness – RW): 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.

Yellow; A discolouration of not more than 4/5 from colour Y13 - Y14 of AS2007S

Skid Resistance

Greater than 50 BPN but less than 65 BPN



CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Registration Details:

[NZRF Stamp & Unique Number]

6224



Initial Certificate Testing Officer:

Bruce Belton
Mark Roads Ltd

T/12 Testing Officer:

Bruce Belton
Mark Roads Ltd

Signed:

Bj Belton

Date of Expiry:

2nd December 2026

