

CERTIFICATE OF COMPLIANCE TNZ T/12:2003

Applicator: Borum SPT 350-2 Thermoplastic Applicator, registration number EUK633

Owner: Higgins Group Holdings Limited
PO Box 5164
Terrace End
PALMERSTON NORTH



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 Plain Flat Thermoplastic to Schedule One, in accordance with TNZ P/22:2006 Specification for Reflectorised Roadmarkings.
2) Application of Audio Tactile Markings to Schedule Two, with markings in accordance with TNZ M/24: July 2006 Specification for Audio Tactile Profiled Roadmarkings and NZTA P/30:2008 Specification for High Performance Roadmarking

Test Identification: The tests were carried out at the Higgins Group Holdings Ltd Test Site at Palmerston North on the 26th January 2010.
The Applicator Chassis Number is 140057.
The material used for the tests was:
Kestral White Ref Profile 10/35 NZ Thermoplastic for Schedule 1
AC-07 Silane Coated Potters Glass Beads (AS/NZS 2009) for both Schedules

Equipment Tested:	Multi-gate Head	Borum	SPT350/140057
	Extruder	Borum	SPT350/140057
	Speedometer	Borum	SPT350/140057
	Compressor 1	TMC	04080115U
	Compressor 2	TMC	07080151U
	Bead Guns (2 off)	Borum	SPT350/140057

Applicator Speeds:	Line Width				
	Schedule	100mm	150mm	200mm	300mm
	One		1.72		

Special Notes:

- The applicator is not capable of applying turn arrows.

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Schedule One

Thermoplastic Audio-Tactile in Accordance with TNZ M/24:2006, NZTA P/30:2008, and TNZ 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/30:2008 Specification for High Performance Roadmarking 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 TNZ 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/m².

Reflectivity (dry - R): A minimum of 150 mcd/m²/lux.

Reflectivity (condition of wetness - RW): A minimum of 80 mcd/m²/lux.

Skid Resistance

Not Applicable



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TNZ T/12:2003

Registration Details: [NZRF Stamp & Unique Number]

3049



Initial Certificate

Issuing Officer: R J Ridings
Quality Surveillance Ltd

Testing Officer: R J Ridings
Quality Surveillance Ltd

Signed:



Date of Expiry: 26th JANUARY 2011

Copied from NZRF T 12 Register