



Applicator:

Hino FC Mac Stripper, registration number BQY303, fleet number

T91, Plant Number:116033 Type LA

Owner:

Downer NZ Ltd Private Bag 93225

Otahuhu Auckland

Test Description:

The pavement marking applicator as described by this certificate has been tested under the conditions described and found to m, ly with the relevant requirements of TNZ Specification NZTA 1/12 1013.

Test Conditions:

The scope of the Certification was as follows:

1) Application of Extruded Flat Thermoplastic to Schedule One, with thickness in accordance with NZTA P/22:2006, NZTA P30:2008 and NZTA T12:2013.
2) Application of Audio Tactile Markings to Schedule Two, with markings in accordance with NZTA M/24:2006, NZTA P30:2 03 and NZTA T12:2013.

Test Identification:

The tests were carried out at the Jowner NZ Depot at 133 Main South Rd Green

Island, Dunedin, from January 22 dth 2019 to January 24th 2019. The Applicator Chase's Number is JHDFC4JJPXXX101157.

The test materials used were

Ennis Premium Extrus on Grade for Schedule One. Ennis Premium A12 Grade for Schedule Two.

Ennis Intermix Glass Beads were used for Schedule One and Potters Type B Drop-On Glass Beads were used for Schedule Two

Equipment Tested:

E. trus on Heads Mini Mac FC

ITS Profile Head

Extruder Mini Mac 75mm FC

Temperature Controller Carel FC

Compressor Ingersoll Rand 8830199 Speedometer Roadmarker FC

Bead Gun VisiMax Bead Gun FC

Ap lica or Speeds:

Line Width Schedule 100mm 150mm 200mm

One 4.0 Two 2.9

Special Notes:

The applicator is not capable of applying turn arrows.

Premelter:

Nissan PreMelter Unit XG2463 T/18 Certificate No:4758

was used for the T/12 tests.

300mm





Schedule One

Extruded Flat Thermoplastic in Accordance with NZTA P/22:2006

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in NZTA P22: 2006, NZTA P30: 2008 and NZTA T12:2013.

The values specified in NZTA P/22:2006 used for determination of compliance were as John ws

Gap Length Between Segments

Where gap is 3.0m or more \pm 300mm

Where gap is less than 3.0m but greater than $1.0m \pm 150mm$

Where gap is 1.0m or less ± 50mm

Length of Segments

Where segment is longer than $5.0m \pm 150mm$

Where segment is shorter than 5.0m but longer than $1.0m \pm 75m$.

Where segment is 1.0m or shorter ± 50mm

Thermoplastic Line Width

All line widths +10% - 5%

Thermoplastic Height

New markings – asphalt 2.0 – 2.5mm[∢]

New markings - chipseal 2.0 - 3.0mm

Retroreflectivity

AS/NZS 2009 Ennis Intermity Gress beads applied uniformly at a minimum rate of 300 grams/m² Reflectivity (dry – R): A minim in of 150 mcd/m²/lux.

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

Skid Resistance

Greater than 50 E.P.N out less than 65 BPN







Schedule Two

Thermoplastic Audio-Tactile in Accordance with NZTA M24: 2006, NZTA P/30:2008 and T/12:2013

The markings when applied to flat electro-galvanised steel plates meet all dimension and performance requirements as specified in NZTA M24: 2006 Specification for Audio-Tactile Profiled Roadmarkings, NZTA P/30:2008 Specification for High Performance Roadmarkings and NZTA T/12:2013 Specification For Long-Life Pavement Marking Material Applicator Texting.

The values specified in NZTA M/24, NZTA P/30 and NZTA T/12:2013 used for determination of compliance were as follows.

Thermoplastic Line Width All line widths +10% - 5%

Thermoplastic Base Height N/A Profile Blocks only

Raised Blocks

Spacing between blocks +5% - 5% of specified value (200mm)

Spacing between blocks +5% - 5% of specified value (500mm)

Length of block +30% - 20% of specified value (200mm)

Width of block +30% - 20% of specified value (100mm, 150mm & 200mm)

Block Height -5% +15% of specified value (8 5 mm)

Retroreflectivity

AS/NZS 2009 Potters Drop-On 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 wearss – ŘW): A minimum of 80 mcd/m²/lux. Skid Resistance









Registration Det tils: [NZRF Stamp & Unique Number]

Initial Certificate

4844

Issuing On cer:

R J Ridings

Quality Surveillance Ltd

Tes ing Officer:

P Del Favero

Signed:

Downer NZ LTD

Date of Expiry:

24 January 2020

Roadmarkers

PO Box 13 605, Auckland Phone: (06) 826 7470