**NZTA M14:2022**

Certificate and Worksheet Templates for EMPs (Appendix G)

#### Template W1: Application to Market EMP

#### Template W2: Record of Testing

#### Template C1: Acceptance Certificate

**January 2022**

**Edition 1.0**

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More information

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This record will be updated as new edge marker posts gain either Provisional or Type Acceptance. The Waka Kotahi website should be checked to confirm the most recent edition of this record.

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| --- |
| Record of Amendments |
| **Edition Number** | **Subject of change** | **Effective Date** | **Updated by** |
| 1 | **Introduction of**M14:2022 Certificate and Worksheet Templates for EMPs |  January 2022 | Joe Southey |
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## General

This document provides the user with the ability to populate each form electronically or these Certificates may be printed and completed by hand. The Final Certificates however must be issued in PDF format.

In order to create a single template for use, copy this file to a new file. After doing so delete all but the template you require and progress from there.

## CERTIFICATES WORKSHEETS

**Template W1**:

This form should be completed by the EMP Manufacturer or Supplier.

**Template W2:**

The manufacturer or the testing organisation completing any of the required testing must complete this form, sign for the testing and issue it as a PDF or original document without changes. Any test not completed must show as “NOT TESTED”

**Template C1:**

This form is completed by Waka Kotahi. The EMP Manufacturer or Supplier should initiate a meeting with Waka Kotahi Lead Safety Advisor, Roads and roadsides in order to submit the *Application to Market* and the test documentation. If all is complete and correct Waka Kotahi should issue the Certificate of Acceptance for *Provisional Acceptance* and after twelve (12) months for *Type Acceptance.*

Upon each stage being confirmed the EMP will be added to NZTA M14 *Acceptance Listings for EMPs*

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| --- | --- |
| **NZTA M14: EMPs** Template W1**Application to Market an Edge Marker Post** |  |
|  |
| **Manufacturer/Supplier** | Click or tap here to enter text. |
| **Address** | Click or tap here to enter text. |
| Click or tap here to enter text. |
| **Contact** | Enter text. | **Phone No** | Enter text. | **email** | Enter text. |
|  |
| **Trade Name** | Click or tap here to enter text. | **Marker Post Type & Code****M12 Clause 5.3 Table 1** | Click or tap here to enter text. |
| **Substrate Material** Plus primary post Trade Name code if BEMP | Click or tap here to enter text. |
| Click or tap here to enter text. |
| **Retroreflective sheeting** Brand Class and series ID | Click or tap here to enter text. |
| **Post Dimensions**  | **Length** |  mm  | **Width** | mm | **Thickness** | mm |
| **Installation Method** | Click or tap here to enter text. |
| **Supporting Notes** & Added Standards Compliance | Click or tap here to enter text. |
| Click or tap here to enter text. |
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| **Post Front (Type A face) photo and Rear (Type C face) photo** |
|  |  |
| **Attach Record of testing documents** |

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| **NZTA M14: EMPs** Template W2**Record of testing** |  |
| **TEST ORGANISATION** | Click or tap here to enter text. | **Address:** | Click or tap here to enter text. |
| **Test Technician:** | Click or tap here to enter text. | **Test No.:** | # | **Date** | Click or tap to enter a date. |  |
| **Post Supplier:** | Click or tap here to enter text. | **Address:** | Click or tap here to enter text. |
| *A description of the post, including* *Manufacturer’s name, and model, either in code or in full plus any aspect or markings, so that the post tested can be uniquely identified*. |
|  | Click or tap here to enter text. |  |
| **No.** | **Clause****No.** | **Test**  | **Brief description** | **Pass/Fail** |
| **1** | ***5.1.1*** | Post components | *Each component must be made from materials designed to resist weathering deterioration including seasonal effects of the New Zealand climate, for a period of no less than 10 years* | Pass/Fail. |
| **2** | ***5.1.2*** | Post substrate  | *Colour shall comply with chromaticity coordinates for white specified in Table 3.1, AS/NZS 1906.3:2017. Finish must be free of sharp edges and burrs. No lead content* | Pass/Fail. |
| **3** | ***5.1.3*** | Red non-retroreflective band | *If a pressure sensitive vinyl is used the adhesive must be suitable for use with the post surface finish especially plastics and it must be applied according to the vinyl manufacturer’s instructions. It must be well-adhered, durable, colour-fast and fade resistant* | Pass/Fail. |
| *Colour shall approximate red specified in AS/NZS 1906.1:2017, Table 2.6 CIE Chromaticity co-ordinates (x,y) of the colour spaces – daylight illumination. An acceptable shades for comparison is Pantone® Colour 711C Tomato Red, British Standard 381C 1996 537 Signal Red or 564 Bold Red* | Pass/Fail. |
| **4** | ***5,1,4*** | Retroreflective Strip White & Yellow | *Be certificated compliant with AS/NZS 1906.1:2017 Standard to a minimum of Class 400 Prismatic High Intensity and be approved by listing in New Zealand Gazette* | Pass/Fail. |
| *Confirm retroreflective manufacturer and brand* | Click or tap here to enter text. |
| **5** | ***5.2.1*** | Post Design | *Post Anchoring method: Post Type Code (Table 1 Clause 5.3)* | Enter text. | Pass/Fail. |
| *Width: min 90 mm max 110 mm. Centre portion min 42 mm with radius of curvature max 90 mm. Thickness max 8.0 mm. Appropriate length for the anchoring methodology* |
| **6** | ***5.2.2*** | Position of Red non-retroreflective band | *Height on post 150±5 mm. Positioned 150±3 mm from top of post* | Pass/Fail. |

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| **7** | ***5.2.3(a)*** | Type A (Front) | *White retroreflective strip 450±5 mm applied over the red band. Width no less than 40mm positioned 10±1 mm from top of post* | Pass/Fail. |
| ***5.2.3*** | Type B  | *Red band only, positioned as noted in #6 without white or yellow retroreflective strips* | Pass/Fail. |
| ***5.2.3(b)*** | Type C (Rear) | *Two retroreflective strips 130±3 mm. Width no less than 40mm positioned 10±1 mm from top of post and 10±1 mm below red band* | Pass/Fail. |
| **8** | ***5.3(a) (b)*** | Post Anchoring  | *Methodology appropriate for installation of post.*  | Click or tap here to enter text. | Pass/Fail. |
| **9** | ***5.4*** | Barrier attached post | *Any post modification must not narrow the width of the post and, as a minimum, must include the area of the post that has the red non-retroreflective band and retroreflective strips plus no less than 10±1 mm of clear post above and below the retroreflective strips* | Pass/Fail. |
| *Actual post section substrate matches compliant post – or has been tested at 1500 mm* | Pass/Fail. |
| *Barrier attachment bracket must be made from materials designed to resist weathering deterioration for a period of no less than 10 years* | Pass/Fail. |
| *Name Material* | Click or tap here to enter text. | Pass/Fail. |
| *Semi-rigid and or Wire rope* | Click or tap here to enter text. | Pass/Fail. |
| *Sight & name Semi-rigid Barrier* *System Owner Acceptance* | Click or tap here to enter text. | Pass/Fail. |
| *Sight & name Wire rope Barrier* *System Owner Acceptance* | Click or tap here to enter text. | Pass/Fail. |
| **10** | ***5.5*** | Post Identification | *Manufacturer’s marking name, and model, either in code or in full* | Click or tap here to enter text. | Pass/Fail. |
| **11** | ***6.1*** | Deflection Requirement | Deflection Post 1 | mm | Post 2 | mm | Post 3 | mm | Average | mm | Pass/Fail. |
| *When tested in accordance with Appendix C, no ground installed post shall deflect more than 134mm.* |
| **12** | ***6.2*** | Resistance to Vehicle Impact | *Test Site Address* | Click or tap here to enter text. | Pass/Fail. |
| *Installation method* | Click or tap here to enter text. | Pass/Fail. |
| *Traffic Management* | Click or tap here to enter text. | Pass/Fail. |
| *Miscellaneous Comment* | Click or tap here to enter text. | Pass/Fail. |

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| **13**  | ***6.2 Continued*** | *Photos Before impact;* *after 5 impacts;* *after 10 impacts* *and the Video must be included with report* | *Return to upright position after 10 face on impacts* | Pass/Fail. |
| *After 10 impacts maximum deviation shall be no more than 100mm forwards or backwards from the vertical position* | Pass/Fail. |
| *Deviation Post 1* | mm | *Post 2* | mm | *Post 3* | mm |  |
| *The post shall remain substantially intact (no splitting, cracking or major chipping of material* | Pass/Fail. |
| *At least 80% of the delineators and red band shall remain intact and adhered to the post* | Pass/Fail. |
|  | *Serviceability – an assessment that the post has passed or failed the serviceability test requirements.*  | Pass/Fail. |
| Safety to Road Users | *An assessment that the post has passed or failed the safety test requirements* | Pass/Fail. |
| **14** | ***6.3*** | Cold Resistance Test | *Capable of straightening itself within 60 seconds when bent at the midpoint; Each post shall straighten after each bend test* | Pass/Fail. |
| *Show no signs of fracturing, cracking or splitting when struck by a 1 kg steel object dropped from a height of 1500 mm.* | Pass/Fail. |
| **15** | ***7.*** | Cleaning Agents & System Recommended | *Provision instructions about cleaning agents and cleaning procedures that are recommended to contractors* | Pass/Fail. |
| **16** | ***8.*** | Manufacturer Certification of Durability | *Supplier of posts shall certify that the posts, red band, retroreflective strips and any ancillary components such as attachment brackets, clips or rods and anchors, have been formulated from materials that are known to resist discolouration for minimum 10 years* | Pass/Fail. |
| **17** | ***11.*** | Packaging confirmed | *Supplied fully finished, i.e. white with a red band and reflectors attached. Posts and especially the retroreflective strips shall be protected from damage during delivery and shall be free from paint overspray or other deleterious coatings.* | Pass/Fail. |
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| **Test Organisation** | Click or tap here to enter text. | **Address** | Click or tap here to enter text. | **Email** | Enter text. |
| **Test Technician** | Click or tap here to enter text. |  **For Test No’s:** | Click or tap here to enter text. |
| **Signed** |  | Dated | Click or tap to enter a date. |
|  |



Enter text.

**Certificate of Acceptance**

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| **NZTA M14: EMPs** Template C1**Edge Marker Posts *Provisional Acceptance* and *Type Acceptance***  |

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| **Date** | Click or tap to enter a date. |
| ***Provisional Acceptance*** *confirms that the edge marker post(s) noted herein have been confirmed compliant with the requirements and specifications in NZTA M14 Specification for edge marker posts. The referred to posts will be listed in NZTA M14 Acceptance Listing of Edge Marker Posts with Provisional Acceptance. Valid for twelve (12) months.****Type Acceptance*** *further confirms that the posts noted herein have been successfully installed and have performed in the roading environment for a period in excess of twelve (12) months without sustaining a “failure of note”. Having met this criteria the below listed Edge Marker Posts now qualify as “Type Accepted” for use on New Zealand roads immediately after receiving this certificate and a letter confirming this status from Waka Kotahi NZ Transport Agency. The posts will be listed in NZTA M14 Acceptance listing of Edge Marker Posts with Type Acceptance.* ***Renewal of Type Acceptance*** *must be confirmed immediately before the five (5) year Expiry date shown below.* |

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| **Marker Manufacturer/Supplier:** |
| **Company** | Click or tap here to enter text. |
| **Address:**  | Click or tap here to enter text. |
| **Test Number** | Click or tap here to enter text. |
| ***Provisional Acceptance*** |
| **Trade Name** | **Substrate material** **& retroreflective class**  | **Post type and Code** | **Installation Method** | **BEMP Brackets and Code** |
| Enter text. | Enter text. | Enter text. | Enter text. | Enter text. |
| **For Waka Kotahi****Position** | **Print:**Click or tap here to enter text. | **Sign:** | **12 month** ***Provisional Acceptance.* Expiry date.** *month/year* |
| Click or tap to enter a date. |
| Click or tap here to enter text. |

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| ***Type Acceptance*** |
| **Trade Name** | **Substrate material** **& retroreflective class**  | **Post type and Code** | **Installation Method** | **BEMP Brackets and Code** |
| Enter text. | Enter text. | Enter text. | Enter text. | Enter text. |
| **For Waka Kotahi****Position** | **Print:**Click or tap here to enter text. | **Sign:** | **5 Year*****Type Acceptance.*** **Expiry date.** *month/year* |
| Click or tap to enter a date. |
| Click or tap here to enter text. |