



PORTABOOM

TIPES Certificate Renewal 2022
Original Certificate No: 16/0001

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PORTABOOM

TRAFFIC CONTROL DEVICE

This Renewal Certificate is issued in respect of the Product **Portaboom** that is used as a traffic control device. Existing, industry accepted traffic management principles, techniques and advanced signage layouts are utilised, with the device acting as the focus for traffic control, in lieu of alternatives (e.g. STOP/SLOW bats) as detailed and permitted by relevant road agency requirements. As Portaboom is radio controlled (from a distance of up to 100 metres), the traffic controller is not directly exposed to live traffic, operating within an adjacent safe zone. Up to four devices can be operated by one controller, affording significant operational savings. Photograph shows an original Portaboom in closed position.



THIS RENEWAL CERTIFICATION RETAINS THE ORIGINAL (2016):

- Factors relating to compliance with TIPES requirements
- Assessment criteria and technical investigations
- Typical applications and operational guidance

ORIGINAL KEY FACTORS ASSESSED:

Factor 1 – The foreseeable effectiveness of the device as a traffic control device.

Factor 2 – The claimed risk reduction/safety benefits of the device's operation over other current methods/techniques.

Factor 3 – The validity of testimonials and case studies of past usage of the device at road works of a diverse range and complexity in Australia.

RENEWED KEY FACTORS ASSESSED IN 2019 AND 2022:

Factor 1 – The on-going effectiveness of the device as a traffic control device.

Factor 2 – The on-going risk reduction/safety benefits of the device's operation over other current methods/techniques.

Factor 3 – No changes to the functionality or usage of the device, which would require re-evaluation.

ARRB

Date Issued

Original
15/07/2016

Renewal
15/07/2022

Mark Steidle
TIPES Governance Manager

Richard Yeo
Chief Operating Officer

This Transport Infrastructure Product Evaluation Scheme (TIPES) Renewal Certificate is issued for 3 years from the renewal date (2022) by ARRB Group and supported by its road agencies. The Renewal Certificate is issued on the condition that compliance is still achievable with the conditions stated. The product has been assessed by a TIPES Product Evaluation Panel as stated, i.e. the product remains fit for its intended use provided that it is installed, used and maintained as set out in the Original Certificate (2016) and does not incorporate new features such that the product requires a re-evaluation

ORIGINAL CLAIM FOR THE PRODUCT

Portaboom was submitted as a traffic control device (TCD) designed primarily to replace hand held current traffic controller operated hand held STOP/SLOW bats. The device was specifically designed with the objective of removing traffic controllers from live traffic lanes, allowing them to operate the device remotely, from a safe zone or position. At the time of the original submission in 2016, the device had been used successfully on approximately 2,500 live road works sites uptake of the device has grown considerably since that time.

COMPLIANCE WITH ROAD AGENCY AND MANUFACTURER REQUIREMENTS

MEETING USAGE REQUIREMENTS

Usage of Portaboom must be determined on a site by site basis in accordance with any specific requirements for usage and prior approval that have been set by pertinent road agency. Current guidance and standard operating documentation issued by the manufacturer must also be followed.

INTENDED APPLICATION OF THE PRODUCT

Portaboom was originally designed for usage at all road works sites where traffic does not exceed 60 km/h (either in normal operation or when subject to temporary speed management), with the caveat that the device can be withdrawn from usage at any time in response to any local concerns/local on-site risk assessment, e.g. excessive wind gusts, visibility, traffic volumes, traffic speed etc. Full compliance with a traffic control plan pre-approved with the client for the works is essential. However, the intended application of product does not override the above requirement to comply with any local requirements set by the relevant road agency.

MATERIAL SAFETY DATA SHEET

- For componentry (battery, etc) see proponent's original submission.

PRODUCT MANUFACTURE

- Certificate of registration ISO 9001:2008 Ref No. UQ140427RO or as updated.

APPLICATION SPECIFICATION

- Australian Standard AS 1742 (various parts) - Manual of Uniform Traffic Control Devices.
- Australian Standard AS 2144 and AS 4191 regarding additional traffic control signal
- State and territory road agency traffic controls for road works and specifically as they relate to the selection and usage of Portaboom.

NATIONAL DOCUMENTS

- Austroroads Guide to Traffic Management set
- Austroroads Guide to Temporary Traffic Management set

The Original Technical Evaluation and Technical Opinion provided (March 2016) and subsequent renewals (2019 and 2022) have been conducted in accordance with the TIPES Guide for Applicants and Terms and Conditions.

ORIGINAL TECHNICAL OPINION

The original technical opinion of TIPES Product Evaluation Panel (PEP) opinion was that Portaboom is an effective TCD, primarily to be used at roadworks in lieu of 'STOP/SLOW' bats. This opinion remains at the time of the renewal.

The continued assertion that Portaboom reduces the risk of such works for traffic controllers is recognised and has been and continues to be successfully demonstrated.

IMPORTANT NOTE:

The original Technical Opinion and its subsequent renewal are issued in respect of Portaboom, the TCD submitted for product evaluation under TIPES by Traffic and Access Solutions Pty Ltd in August 2015. This position is restricted to the device having the composition, features and characteristics when submitted for TIPES evaluation. The Original Technical Opinion is not applicable to, or valid in respect of, any subsequent significant modification, variation, enhancement or redevelopment of the Product which would require re-evaluation and any representation that this Technical Opinion can be referred to any other product is expressly forbidden.

ASSESSMENT AND TECHNICAL INVESTIGATIONS

The technical assessment of Portaboom in light of which this certificate was issued is described in the report: TIPES Evaluation of Portaboom: Results of assessment, March 2016, ARRB Group Ltd.

IMPROVEMENTS TO PORTABOOM PRIOR TO 2019 AND 2022 RENEWALS

The Supplier has routinely advised ARRB of any modifications or improvements to the Portaboom device since the issue of the original certificate in 2016. In summary, these have tended to aid portability and handling of the device without adversely affecting its stability in live road environments. Prior to certificate renewal in 2019 ARRB was advised that a second model of the Portaboom had been developed to include a set of traffic signals, at the suggestion of device users, with the signals to act as an additional visual warning of the presence and operation of a boom. At that time, and again prior to the renewal of the certificate in 2022, ARRB sought and received formal confirmation from the Supplier that functionality and usage of the second model is to all intents and purposes identical to the functionality and usage of the original model, and that with the second model, adequate fail safes are in place to ensure that the boom and the traffic signals operate in unison and cannot conflict. Accordingly ARRB is satisfied that none of the improvements of the second model required/require a formal re-evaluation to take place. The second model of Portaboom, incorporating a traffic signal head is shown on the final page of this Certificate. Both the original and second model versions of Portaboom are used on the road networks of Australia.

SPECIAL CONDITIONS OF THIS RENEWED CERTIFICATION

1. This renewed Certificate is issued expressly subject to the following conditions:
 - a. that appropriate and detailed quality control records continue to be maintained with respect to the manufacture, site preparation and installation of Portaboom as detailed in the standard procedures provided by the proponent in its application for TIPES evaluation of that Product and that such records are promptly made available to ARRB as it reasonably requires.
2. The original and renewed Certificates have been issued solely in respect of the Product identified by the Applicant as Portaboom, submitted for product evaluation under TIPES by the Applicant in August 2015.
3. The Certificates recognise the requirement of operators to comply with all local regulations including traffic management plans and signage approaching the location and on the product. Accordingly the certificates have been issued on the condition of compliance with all traffic management requirements within the jurisdiction of use.



Correct signage is mandatory, here the original Portaboom is displayed with octagonal and round stop signs. Operators must be aware of the local requirements, for example the octagonal signs may not be allowed in some jurisdictions (road agencies) and vice versa.

GENERAL CONDITIONS OF THIS RENEWED CERTIFICATION

1. This renewed Certificate:
 - a. relates only to the product/system that is named and described on page 2 and is expressly limited to the product having the composition, features and characteristics as originally submitted to ARRB for Tipes evaluation i.e. or as subsequently varied by the Applicant prior to the date of this certificate and not deemed to require re-evaluation
 - it is not applicable to, or valid in respect of, any subsequent modification, variation, enhancement or redevelopment of the product which is deemed to be significant in terms of functionality and/or usage and hence requires re-evaluation
 - any representation that this certificate is referable to any other product is expressly forbidden
 - b. is valid only within Australia
 - c. must be read and applied in its entirety
 - d. is copyright to ARRB and is the sole and exclusive property of ARRB
 - e. is licensed solely to the Applicant for the promotion or sale of the Product by the Applicant and use of it may not be sub-licensed by the Applicant who may not authorise its use to any other person or entity for any purpose whatsoever.
 - f. is governed by the laws of the State of Victoria, Australia and the jurisdiction of the courts of that State and courts of appeal therefrom.
2. References to publications, documents, specifications, legislation, regulations, standards and other documents in this Renewal Certificate are where relevant, references to the current versions or issues of those documents at the date of issue or reissue of the original Certificate, unless otherwise stated.
3. Unless otherwise cancelled or modified by ARRB, this Renewal Certificate remains valid for 3 years from its issue provided that the Product and its manufacture and/or fabrication, including all related documentation and relevant parts and processes thereof:
 - a. are maintained at or above the levels which have been assessed and found to be satisfactory by ARRB
 - b. are checked as and when ARRB considers appropriate under arrangements that it will determine
4. This Renewal Certificate has been prepared by ARRB at the request of, and for the benefit of, the Applicant. Interested parties should obtain independent professional advice about use of the product for any specific application.
5. ARRB has no liability whatsoever for any loss or damage, whether direct or indirect, suffered by any person arising from the use of the product by that person in reliance upon the content of this Renewal Certificate.
6. ARRB provides no warranty concerning:
 - a. the existence or ownership of any patent, intellectual property or similar rights subsisting in the product
 - b. the rights of the Applicant to manufacture, supply, install, maintain or market the product
 - c. any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
 - d. any loss or damage, including personal injury, howsoever arising in connection with the product, including its manufacture, supply, installation, use, maintenance and removal.
7. Any information relating to the manufacture, supply, installation, use, maintenance and removal of the product which is contained or referred to in this Renewal Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. Such information does not in any way restate the requirements of the *Australian Work Health and Safety (WHS) Act 2010*, nor is it descriptive of any legislated or common law obligation or duty in operation at the date of issue or reissue of this Renewal Certificate. Conformity with such information shall not amount to satisfying any statutory or common law duties or obligations.
8. Tipes logo & symbol(s) use are governed by "The Conditions for Use by ARRB and Tipes Product Organisations" and forms part of this renewed Certificate.



Second version of Portaboom