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GIBNEY BARRIER

(Australian model)

TIPES CERTIFICATE No. 21TCD01
26 February 2021

OFFICES IN:
BRISBANE, SYDNEY, ADELAIDE, PERTH.

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GIBNEY BARRIER (Australian model)

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GIBNEY BARRIER

(Australian version)

Applicant's Statement of Claim for Product

The Gibney Barrier is a portable, manual Traffic Control Device (TCD) designed to replace current Traffic Controller (TC) operated handheld STOP/GO - STOP/SLOW bats, or as an alternative to portable traffic signals. The device has been specifically designed with the objective of locating the TC further away from the live traffic lane, so reducing the risk of an impact with any errant vehicle. The original New Zealand model of the device had been used successfully in that country for 5 years, where 260 units are in operation at the time of the Applicant's submission. A slightly modified version of the device has been developed for Australian usage. Documentation, which includes an Operator Guide and standard Traffic Management Plan (TMP), exists for the Australian model of the device, which is intended mainly for use on low volume, local / rural road sites where traffic is controlled to 40 km/h.

Portable, Manual TCD

This Certificate is issued in respect of the **Australian model of the Gibney Barrier** (the Product) that is used as a TCD. Existing, industry and road agency 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 (STOP/SLOW bats or portable traffic signals). As Australian model of the Gibney Barrier incorporates an extendable 'boomerang handle', the TC's exposure to live traffic and risk of impact by an errant vehicle is much reduced. As with 'STOP/SLOW' bats, Gibney Barriers are operated in pairs. The photograph on the next page shows the Australian model of the Gibney Barrier in 'closed' (traffic stopped) position.

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GIBNEY BARRIER

Issued: 26 February 2021

Review: 3 years



Mark Steidle, National Leader -
Road & Transport Certification



David McTiernan, National
Leader – Transport Safety

GIBNEY BARRIER (Australian model)

This Transport Infrastructure Product Evaluation Scheme (TIPES) Certificate is issued by ARRB Group and supported by its member road agencies throughout Australia. The Certificate is issued on the condition that compliance is achieved with the conditions stated. The Product has been assessed by a TIPES expert product evaluation panel as being fit for its intended use provided that it is installed, used and maintained as set out in this Certificate and in accordance with local traffic management protocols.



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THIS CERTIFICATION INCLUDES:

- Factors relating to compliance with TIPES requirements
- Evaluation of Applicant's claims
- Assessment of typical applications and operational guidance

KEY FACTORS ASSESSED:

Factor 1 – The foreseeable effectiveness of The Gibney Barrier as a TCD in Australia.

Factor 2 – The claimed benefits of the device's operation

Factor 3 – The validity of testimonials and details / case studies of past usage of the original and Australian model of the device at similar roadworks sites and environments to those claimed within New Zealand and Australia.

Regulatory Compliance & Application Guides

INTENDED APPLICATION OF THE PRODUCT

The Australian model of the Gibney Barrier is intended for usage by Fulton Hogan (and its approved sub-contractors) at its road works sites on low volume, largely local / rural single carriageway roads where traffic is controlled such that it does not exceed 40 km/h (either in normal operation or when subject to temporary speed management). A caveat is that the device can be withdrawn from usage at any time in response to any local concerns and/or local on-site risk assessment, e.g. excessive wind gusts, visibility, traffic volumes and composition, compliance of traffic with speed controls etc. The Applicant has devised a dedicated TCD Decision Tree Flowchart to guide decision making on selection and retention of a device on a site by site basis. Full compliance with a Traffic Management Plan (TMP) or Traffic Control Plan (TCP) which has been pre-approved with the client for the works is essential.

PRODUCT MANUFACTURE

- Manufactured under contract to the proponent Certificate by approved companies that have obtained ISO 9001 (Quality) and ISO 14001 (Environmental Management) certification.

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APPLICATION SPECIFICATIONS

- Australian Standard AS 1742 (various parts) – Manual of Uniform Traffic Control Devices

NATIONAL DOCUMENTS

- Austroads Guide to Traffic Management series

Technical Evaluation

A technical evaluation of the original and Australian model of the device has been conducted in accordance with the TIPES Guide for Applicants and Terms and Conditions (2020 edition).

This Certificate is based on the technical evaluation undertaken between December 2020 and February 2021 by ARRB Group Ltd.

Statement of TIPES Opinion

The opinion of the TIPES Product Evaluation Panel (PEP) is that The Australian model of the Gibney Barrier is an effective TCD, to be used at roadworks sites in Australia in lieu of 'STOP/SLOW' bats or portable traffic signals.

The Applicant's claim that the Australian model of the device reduces the risk of such works for TCs is recognised, supported, and has been successfully demonstrated. It was advised that the original New Zealand model of the device has been utilised successfully over a period of 5 years in New Zealand, has been formally approved by NZTA and that 260 devices are in use in that country as at the issue date of this certificate. The device has now been fine-tuned, and the resultant Australian model has recently been trialled in Victoria and Queensland in Australia – where it is reported that the device has been well received by operational staff.

Special conditions of certification

1. This Certificate is issued expressly subject to the following conditions:

- a) the TIPES Governance Board reserves the right to request that a field observance be undertaken by members of the PEP within 12 months of the issue of the Certificate should there be any requirement to confirm the previous findings of the PEP.
- b) TIPES certificates are subject to a review every three years.
- c) Summary record be kept by Fulton Hogan of each application of the Australian model of the Gibney Barrier within Australia. The record shall include location descriptor (name, location etc.), type of road (motorway, state road, local road, private road etc.), involvement of sub-contractors, and any incidents, e.g. where the device's unit or its 'gate' have been struck by vehicles. In addition, records of any internal reviews of the device should also be maintained and made available to the TIPES Governance Board upon request, e.g. where re-accreditation is sought.
- d) The Technical Opinion of the PEP is issued in respect of the **Australian model of the Gibney Barrier only**, being the final particular Product submitted for product evaluation under TIPES by Fulton Hogan Australia Pty Ltd in December 2020 / January 2021. This Technical Opinion is expressly restricted to the Australian model of the Product having the composition, features

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and characteristics when submitted for TIPES evaluation or as varied by the Proponent prior to the date of this Technical Opinion. This Technical Opinion is not applicable to, or valid in respect of, the original New Zealand model of the device or any subsequent significant modification, variation, enhancement or redevelopment of the Product and any representation that this Technical Opinion is referable to any other product is expressly forbidden.

2. This Certificate and the Technical Opinion are issued solely in respect of the Product identified by the Applicant as the Australian model of The Gibney Barrier, submitted for product evaluation under TIPES by the Applicant in December 2020.

significant modification, variation, enhancement or redevelopment of the product

- 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 Certificate are where relevant, references to the current versions or issues of those documents at the date of issue or reissue of this Certificate, unless otherwise stated.

3. Unless otherwise cancelled or modified by ARRB, this Certificate remains valid 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

General conditions of certification

1. This Certificate:
 - a) relates only to the product/system that is named and described on page 1 and is expressly limited to the product having the composition, features and characteristics as submitted to ARRB Group Ltd (ARRB) for TIPES evaluation or as subsequently varied by the Applicant prior to the date of this certificate
 - is not applicable to, or valid in respect of, any subsequent

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- b) are checked as and when ARRB considers appropriate under arrangements that it will determine
 - c) are reviewed by ARRB every 3 years or with such frequency as it considers appropriate, at the cost of the Applicant which is documented within the standard terms for the TIPES scheme applicable at the time of review .
4. This 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 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 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 applicable at the time of issue of this Certificate, nor is it descriptive of any legislated or common law obligation or duty in operation at the date of issue or reissue of this 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 GROUP Ltd and TIPES Product Organisations” and forms part of this Certificate.