



GIBNEY BARRIER

(Australian Version)

TIPES CERTIFICATE No.
21TCD01

August 2022 Revision
(Original issue 26 February 2021)

OFFICES IN:
BRISBANE, SYDNEY, ADELAIDE, PERTH, CANBERRA

**NATIONAL TRANSPORT RESEARCH CENTRE
AND HEAD OFFICE:**
MELBOURNE, 80A TURNER STREET
PORT MELBOURNE, VIC 3207





This Certificate (revised) is issued to Applicant:
Fulton Hogan Australia Pty Level 1, Building 7
Botanica Corporate Park, 572 Swan Street,
RICHMOND VIC 3121

GIBNEY BARRIER (Australian Version)

Tel: +61 (3) 9340 6200
www.fultonhogan.com.au

Applicant's Original Objectives for the Product

The Gibney Barrier is a fit-for-purpose, manually-operated Traffic Control Device (TCD) which was primarily designed and developed to be used at locations / in situations where a traditional STOP/GO - STOP/SLOW bat would be adopted as the default solution.

The product has the primary safety objective of locating the Traffic Controller further away from live traffic than if using a STOP/SLOW sign. This reduces the risk of a Traffic Controller being impacted by any off path or errant vehicle.

The original version of the device was conceived in New Zealand in 2017 and immediately used successfully, such that at the time of the Application it was reported that 260 units were in operation. A slightly modified version of the device has been developed for Australian usage and it is this version that has been the subject of the TIPES evaluation.

Operational Guidance Documents

The Applicant has prepared a suite of guidance documents relating to Australian version of the device and its usage. These were reviewed as part of the TIPES assessment, and this Certificate (as revised) is issued with the condition that the latest version of the guidance documents be obtained and followed by all users of the device, except where local controls and conditions apply.

The suite of documents includes:

- An umbrella decision tree, which establishes a risk-based hierarchy for the selection of the most appropriate device from a range of traffic control devices, based on the characteristics of the site and the roadworks to be undertaken. The decision tree reaffirms the use of the Gibney Barrier where a STOP/SLOW bat would have historically been the default selection.
- An Operator's Guide (User Manual).
- Proposed standard traffic management layouts.

Road Agency Approval and Local Controls and Conditions

This Certificate (as revised) is issued on the condition that all pertinent local road agency controls and conditions are satisfied with respect to the selection, prior approval, deployment, and usage of traffic control devices (generally) and the Gibney Barrier (Australian version) (specifically).

GIBNEY BARRIER (Australian Version)

Certificate Scope

This Certificate (as revised) is issued in respect of the **Australian version of the Gibney Barrier** (the Product) only, that is used as a TCD. The barriers are operated in pairs. The photographs demonstrate the Australian version of the Gibney Barrier in both 'open' (traffic flowing) and 'closed' (traffic stopped) configurations. Note: the works site was not-operational / open to live traffic at the time of this demonstration.



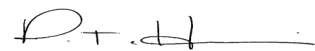
Issued: 26 February 2021

Revision Issued: 26 August 2022

Review: 3 years from date of revision
– 26 August 2025



Mark Steidle, CCO and
Governance Manager,
TIPES



Paul Hillier, Principal
Professional Leader,
NTRO Certification

This Transport Infrastructure Product Evaluation Scheme (TIPES) Certificate (as revised) is issued by NTRO Certification, a dedicated business unit of ARRB Group, on the condition that compliance is achieved with the conditions stated. The Product was assessed by a TIPES expert Product Evaluation Panel (PEP) during 2020/21 as being fit for its intended usage provided that it is used and maintained as set out in the original application and in accordance with latest user guidance and applicable local road agency requirements.

GIBNEY BARRIER (Australian Version)

THIS CERTIFICATE (AS REVISED) INCLUDES A SUMMARY RELATING TO THE ORIGINAL:

- Key factors relating to compliance with TIPES requirements
- Evaluation of Applicant's claims
- Assessment of typical applications and operational guidance, as set out in the documentation provided by the Applicant at that time.

KEY FACTORS ORIGINALLY ASSESSED:

Factor 1 – The foreseeable effectiveness of The Gibney Barrier as a TCD in Australia with consideration of the Applicant's objectives for the device.

Factor 2 – The Applicant's 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 version of the device at roadworks sites and environments identified within New Zealand and Australia respectively.

Compliance with operational guidance for users and local road agency controls and requirements is required, by all users of the device as introduced on Page 2 of this Certificate.

PRODUCT MANUFACTURE

The device is manufactured under contract to the Applicant by approved companies that have obtained ISO 9001 (Quality) and ISO 14001 (Environmental Management) certification.

NATIONAL TECHNICAL DOCUMENTS

- Australian Standard AS 1742 (various parts) – Manual of Uniform Traffic Control Devices.
- Austroads Guide to Traffic Management series.

Original Technical Evaluation and Opinion

The original technical evaluation of the New Zealand and Australian versions of the device was conducted between December 2020 and February 2021 by ARRB Group Ltd in accordance with the TIPES Guide for Applicants and Terms and Conditions (2020 edition).

The original technical opinion of the TIPES Product Evaluation Panel (PEP) was that the Australian version of the Gibney Barrier is an effective, manually operated TCD, which is totally consistent with the Applicant's highly specific stated objective for the device (as set out on Page 2 of this Certificate).

The PEP's opinion was that the Applicant had successfully demonstrated that the Australian version of the device is a practical solution which would reduce the risk to a Traffic Controller of an impact with live traffic, when compared to operating a STOP/SLOW bat. This was supported by substantiated advice provided by the Applicant that the original version of the device has been utilised successfully over a period of 5 years in New Zealand had been formally approved by NZTA and that numerous devices were in use at the date of the original Application. The PEP was satisfied that fine-tuning to the device to create the Australian version had improved its efficiency, and was advised that the resultant Australian version had been trialled successfully in Australia, where the device was well received by operational staff.

GIBNEY BARRIER (Australian Version)

Special conditions of certification

1. Certification (as revised) 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 Original (or any subsequent Revised) 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 (in this case it has been agreed by the TIPES Governance Manager to be 3 years from the issue of the revised Certificate).
 - c) Summary record be kept by all users of each application of the Australian version 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. In addition, records of any internal reviews of the device should also be maintained and made available to the TIPES Governance Board upon request.
 - d) The Technical Opinion of the PEP is issued in respect of the **Australian version 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. It is expressly restricted to the Australian version of the Product having the composition, features and characteristics when submitted for TIPES evaluation. This Technical Opinion is not applicable to, or valid in respect of, the original New Zealand version of the device or any subsequent modification, variation, enhancement or redevelopment of the Product that significantly alters its objective and/or primary usage, and any representation that this Technical Opinion is referable to any other product is expressly forbidden.
2. The Certificates (original and revised) and the Technical Opinion have been issued solely in respect of the Product identified by the Applicant as the Australian version of The Gibney Barrier, submitted for product evaluation under TIPES by the Applicant in December 2020.

GIBNEY BARRIER (Australian Version)

General conditions of certification

1. The Certificate, as revised:
 - a) Relates only to the product/device that is named and described on Page 2 and is expressly limited to the product having the composition, features and characteristics as submitted to ARRB Group Ltd (ARRB) for Tipes evaluation .
 - Is not applicable to, or valid in respect of, any subsequent significant modification, variation, enhancement or redevelopment of the product/device.
 - 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, revision or renewal of this Certificate, unless otherwise stated.
3. Unless otherwise cancelled or modified by ARRB, this Certificate remains valid for a period of 3 years from revised 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. The Certificates (original and revised) have 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 the Certificate (original and revised).

GIBNEY BARRIER (Australian Version)

General conditions of certification (Cont.)

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 the Certificate (original and revised) 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, revision or renewal of this Certificate. Conformity with such information shall not amount to satisfying any statutory or common law duties or obligations.
8. The NTRO Certification and TIPS logo(s) & symbol(s) use are governed by "The Conditions for Use by ARRB GROUP Ltd and TIPS Product Organisations" and form part of this Certificate (original and revised).