

WSAA PRODUCT APPRAISAL CERTIFICATE

EJ Australia Pty Ltd Maestro™ Ductile Iron Access Covers

This Appraisal is for a Maestro™ DN 600 Class E ductile iron hinged solid top circular access cover and frame for utilisation in sewer systems.

This Issue 2 is a replacement for the previous version of the appraisal which reached its 5-year expiry date in June 2020.

The solid top access covers incorporate a ductile iron hinge system (captive or non-captive) with the cover secured to the frame by three flexible ductile iron locking bars (slam lock). The provision of an elastomeric seal located between the cover and frame provides a water and gas tight seal and also serves as an anti-rocking feature. The cover has a skid resistant raised pattern.

The keyhole provided on the cover complies with AS 3996 and is compatible with the industry standard key lifter.

Quality certification and product details are included in Schedule A.

Product Category	Access Covers
PA Number	PA 1411 Issue 2
Supplier	EJ Australia Pty Ltd
Brand	Maestro
Standards	AS 3996:2019 <i>Access covers and grates</i>
WSAA Product Specifications	WSA PS 290 <i>Ductile Iron Access Covers and Frames for Drinking Water, Non-drinking Water Supply and Sewerage to AS 3996</i>
Issue date	3 June 2024
Expiry date	2 June 2029
Recommendations	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise Maestro Access Covers and Frames for use in sewerage systems provided they are installed in accordance with WSAA Codes and manufacturer's requirements, where specified.
Disclaimer	The disclaimer on Page 2 explains a number of very important limits on your ability to rely on the information in this Product Appraisal Certificate and the assessment criteria used to underlay it. Please read it carefully and take it into account when considering the content in this Certificate.

1. Disclaimer

This Product Appraisal Certificate (Certificate) is issued by WSAA on the understanding that:

This Certificate applies to the product(s) as submitted in Schedule A. Any changes to the product(s) either minor or major shall void this Certificate.

To maintain the recommendations of this Certificate any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Certificate including the product appraisal criteria underlying it and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Certificates will be reviewed and reissued at regular intervals not exceeding five (5) years.

WSAA reserves the right to withdraw this Certificate at any time in its sole and absolute discretion for any reason.

The following information explains a number of very important limits on your ability to rely on the information in this Certificate. Please read it carefully and take it into account when considering the contents of this Certificate.

Any enquiries regarding this Certificate should be directed to the Product Appraisal Manager Phone: 03 8605 7601 email carl.radford@wsaa.asn.au.

1.1. Issue of Certificate

This Certificate has been published and/or prepared by WSAA and nominated Project Manager and peer group of technical specialists (the Publishers).

The Certificate and the underlying product appraisal criteria have been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Certificate (the Recipients).

By accepting this Certificate, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Certificate and product appraisal criteria underlying it that the Recipient has understood and accepted the terms of this Disclaimer.

1.2. Limits on Reliance on Information and Recommendations

1.2.1. Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Certificate and product appraisal criteria underlying it accept(s) any liability for any loss or damage suffered by any person however caused (including negligence or the omission by any person to do anything) relating in any way to the Certificate or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Certificate or any errors or omissions.

1.2.2. Intellectual Property and other rights

WSAA does not undertake any assessment of whether the importation, manufacture, sale or use of the Product the subject of this Certificate infringes the intellectual property rights or proprietary rights of any person. Recipients of the Certificate should undertake their own assessment of whether (as relevant) the importation, manufacture, sale or use of the relevant Products infringe the intellectual property rights or other proprietary rights of any person. If the Product infringes intellectual property rights or other proprietary rights there is potential for the supply of the Products to be interrupted.

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The information and any recommendation contained (expressly or by implication) in this Certificate are provided in good faith (and subject to the limitations noted in this Certificate). However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

This Certificate does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it. The product appraisal criteria used in preparing this Certificate may not address all relevant aspects of the Product.

Recipients should seek independent evidence of any matter which is material to their decisions in connection with an assessment of the Product and consult their own advisers for any technical information required. Any decision to use the Product should take into account the reliability of that independent evidence obtained by the Recipient regarding the Product. Recipients should also independently verify and assess the appropriateness of any recommendation in the Certificate, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

WSAA has not evaluated the extent of the product liability and professional indemnity insurance that the provider of the product maintains. Recipients should ensure that they evaluate the allocation of liability for product defects and any professional advice obtained in relation to the product or its specification including the requirements for product liability and professional indemnity insurance.

1.3. No Updating

Neither the Publisher(s) nor any person involved in the preparation of this Certificate or the product appraisal criteria underlying it [has] [have] any obligation to notify you of any change in the information contained in this Certificate or of any new information concerning the Publisher(s) or the Product or any other matter.

1.4. No Warranty

The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Certificate, or the accuracy, completeness or reasonableness of any recommendation in this Certificate.

QUALITY CERTIFICATIONS

Copies of the following quality certificates are available from WSAA.

SCHEDULE A1

EJ AUSTRALIA PTY LTD – MANAGEMENT SYSTEM

2/354 South Pine Road Brendale Qld	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	1552
Certifying Agency	Compliance Australia Certification Services
First Date of Certification	26 November 2019
Current Date of Certification	25 November 2022
Expiry Date of Certification	24 November 2025

SCHEDULE B2

EJ AUSTRALIA PTY LTD– PRODUCT CERTIFICATION

2/354 South Pine Road Brendale Qld	
Product Standard/Spec.	AS 3996-2019
Certificate No.	IMK30034
Issuing Certification Body	IAPMO Oceania
First Date of Certification	11 September 2013
Current Date of Certification	11 September 2023
Expiry Date of Certification	10 September 2028



PRODUCT LITERATURE

March 2012

MAESTRO™

A design for optimum performance,
durability and user-friendliness.



CLASS E 400kN | AS 3996

- Suitable for high intensity traffic
- Exceeds HBNHO-72 transit load requirement

Creating tomorrow's solutions today.

Our highly trained and experienced in-house product development teams will provide the optimum solutions to solve our customers' challenges.

Our product designers use the latest software to generate designs. We also ensure that our products perform optimally through finite element analysis, in-house tests on materials and load tests on product prototypes. Dynamic testing ensures that the product will perform in a real life environment.

Our legacy of continuous improvement, innovation and safety will extend far into the future. As a result of this philosophy, **MAESTRO™** stands out as an undeniable reference point for the manhole covers industry.

Innovation ... inventing the products you need!

With over 750 approved products by third-party test houses, our commitment to you is that we will continue to create ingenious customer-oriented solutions that improve people's lives.



March 2012

MAESTRO™

The result of decades of experience at EJ in designing the best access covers for more demanding road conditions.

A unique and industry-leading polypro EPDM cushioning insert

- Inspired by the automotive industry: it offers a long lasting performance in high or low temperatures.
- Clipped onto the access cover without any glue: this reduces the impact on the environment.
- Easy to replace on-site.
- The frame cover seating offers a groove to minimise the material deformation, wear and tear.
- Its special profile is optimised to enhance the performance, even under the most intensive load.
- It is 100% recyclable.

Slam locking ... for enhanced network asset safety

- **3 elastic ductile bars** placed under the cover will strongly secure the cover in place.
- This increases the network asset security and provides the initial theft deterrent security.
- The 3 elastic ductile bars help maintain the central position of the cover to further reduce seating wear.
- When closed, the cover will sustain small surges of back pressure without opening. When subject to larger back pressure surges, the cover will act as a pressure relief valve: opening itself up when under pressure, and resting back in its natural closed position.
- Pedestrian traffic will eventually shut the cover up completely.
- The cover will always stay in place thanks to the hinge and slam lock.

The frame ... solidly anchored

- 4 double skin zones to maximise rigidity and take the most intense traffic stresses.
- Maximum frame anchoring with double skin and slots on the frame.
- 4 holes to bolt the frame onto the concrete head.
- Optimised seating area on the frame for the lowest pressure and long lasting seating without seating wear.
- Seating also includes a lip to limit the insert deformation under maximum loads. This further extends the life span of the insert.

Customise your access cover

With millions of covers installed in our urban environment, why not take advantage of our custom badging facility:

- Enhanced network type recognition when on-site.
- Help identify network asset ownership; our wide badging area is ideal for customising your product with your city coat of arms or logo. Our 3D modelling tool will create your badge from a single photo.

- **NEW: colour markings available!**



Best in class for on-site handling

- Keyholes ideally positioned for minimal effort on cover opening and closing.
- Slam lock release zone to pass through a flat pick, nozzle or crowbar.

Choose from non-captive or captive hinges

- For enhanced network asset security, you can choose to have a factory fitted captive hinge system. If unsure about the security level required, you can make it captive on site:
 - either before grousing with the use of Ø 12mm max pin,
 - or at any time during operation, with a spring loaded system.
- The hinge benefits from several decades of design improvement: when the cover is closed, the hinge does not create an alternative seating position which could result in rocking and noise.
- When opening the cover, the hinge self-clears, for optimum performance, for years to come.



- **Durable by design** for the highest traffic intensity;
- **Locking and captive hinge** for network security;
- **Special cushioning insert** for a durable silence;
- **Limited water ingress** by design;
- Pressure relief valve system;
- **Made from recycled material** and 100% recyclable;
- Made in a **low environmental impact** manufacturing facility.



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